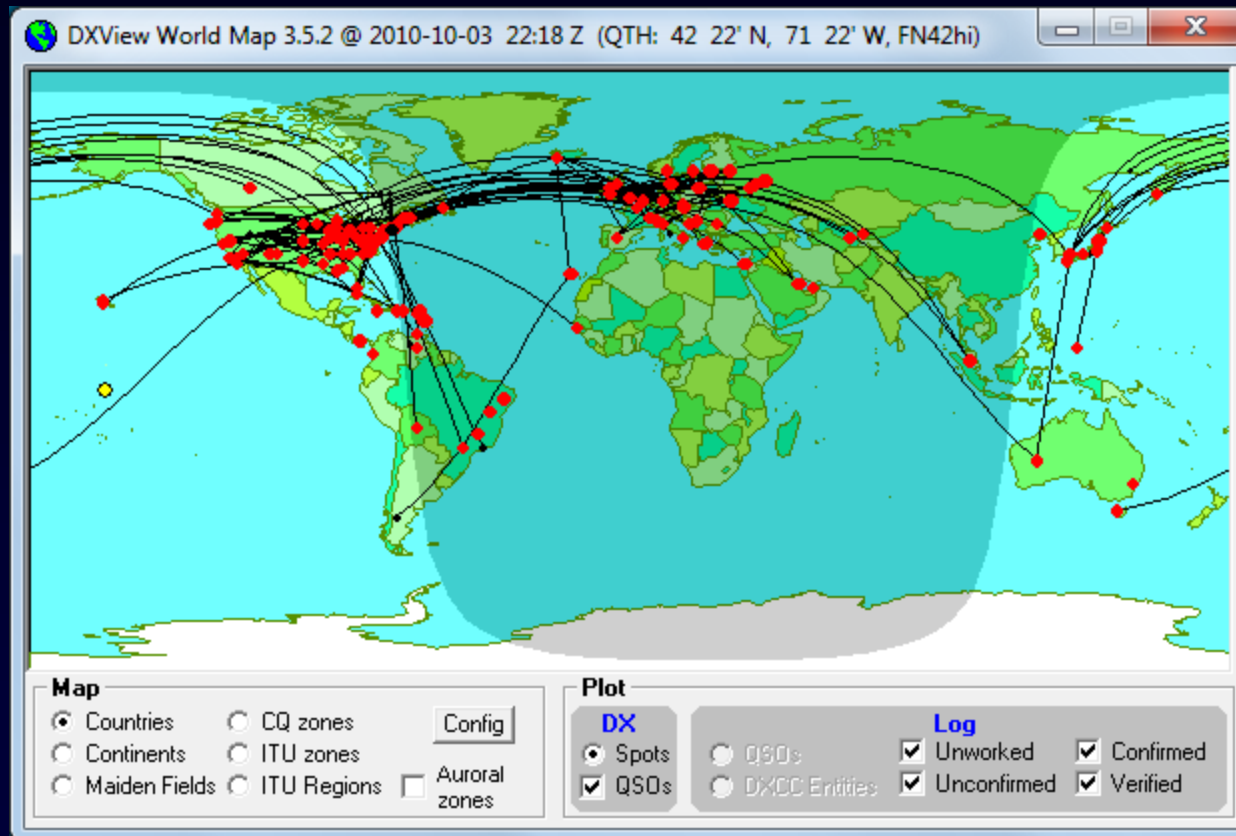


DXing with DXLab

v5 2017-04



Better DXing Through Software

DXing

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

DXLab: Better DXing Through Software

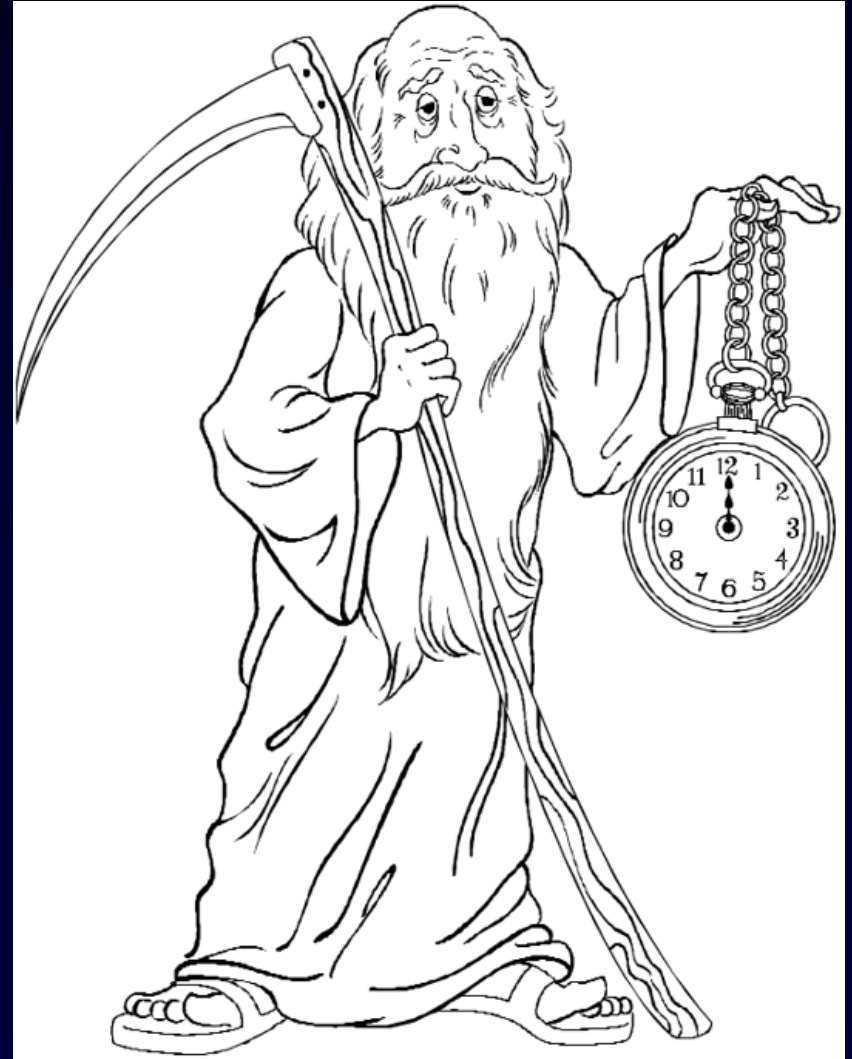
1. Automate “paperwork” to make more time for DXing
2. Make time spent DXing more productive
 - Find the DX you need
 - Work the DX you need

“Paperwork”

- Finding QSL routes
- Requesting confirmation via QSL cards, LotW, eQSL.cc
- Tracking confirmation requests
- Updating objectives as confirmations are received
- Submitting confirmations for Award Credit

“Paperwork”

- Finding QSL routes
- Requesting confirmation via QSL cards, LotW, eQSL.cc
- Tracking confirmation requests
- Updating objectives as confirmations are received
- Submitting confirmations for Award Credit



QSL Route Discovery

Pathfinder 4.7.6: results from VK Callbook for VK3ZL

2010 X HC VK3ZL Buck QRZ IK3QAR DXC OZ7C R 1 X 1 Config

RAC VK CB eHAM DB0SDX 425DXN Google OZ7C IM Daily DX Help

acma.gov.au

Register of Radiocommunications Licences

Client Details

Client Number	128363
Contact Name	Robert William Briggs
Postal Address	11 Turnley St MERINO VIC 3310

[\[New Client Search \]](#)

Licences Held

Results 1 - 1 of 1 licences.

Licence No	Licence Type	Licence Category	Callsign	Ship name	Status
182834	Amateur	Advanced	VK3ZL		Issued

QSL Automation

- Generates QSL cards or Labels seeking needed confirmations
- Generates Address labels or prints envelopes
- Works with full-page printers and individual label printers
- Generates files for
 - Full-function QSL generators: BV, QSL Maker, QSL Design and Print
 - QSL services: Global QSL
- Support for eQSL.cc and ARRL's LotW
 - One-click upload
 - One-click download and update
 - Independent tracking
- Automatic upload to Club Log
- Download requests from Club Log (OQRS)

DXing Objectives

- Specifies Bands, Modes, and Band-Modes being pursued for DXCC, IOTA, Marathon, VUCC, WAS, WAZ, WPX
- Drives confirmation requests, credit submissions, and DX spot analysis

DXCC Bands & Modes

160M Phone HF
 80M CW
 40M Digital VHF
 30M PSK
 20M QRP
 17M
 15M
 12M
 10M
 6M
 2M

Hide unworked in progress rpt

Marathon Bands & Modes

160M Phone HF
 80M CW
 60M Digital VHF
 40M Mixed
 30M
 20M Include QSOs with no prop
 17M
 15M
 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

DXCC Submission

Submit deleted entities
 Record Sheet lines/page

Marathon Submission

Confirmed QSOs are low risk

VUCC & WAS Submission

QSL Card
 LotW

DXCC Credits

Credit-only QSO creation

VUCC Bands & Modes

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

Realtime Award Progress

WAS Bands & Modes

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

Realtime Award Progress

WAZ Bands & Modes

	Mixed	S S B	C W Y	R T A	S S T	D i g i
Mixed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
160M	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
80M	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
40M	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
30M	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20M	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17M	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15M	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12M	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10M	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6M	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

5-band WAZ
 Realtime Award Progress

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
29-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 cfms a 2X QSO with AP2TN

Date	Time	Freq	Mode	RST
02-Sep-10	2058Z	10.102	CW	599

AA6YQ cfms a 2X QSO with A51A

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AA6YQ cfms 2X QSOs with VQ9LA

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

QSL Tracking

AA6YQ QSL aging analysis @ 16-Apr-2017

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

missing VUCC grid-bands: 2

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

Call	Band	Mode	QSO Date	DXCC	Grid1	Grid2	Grid3	Grid4	State	QSL Date	Weeks	Expired	QSL_SENT_VIA	Need
LA6SL	6M	CW	21-Nov-2001	LA	JP50					24-Nov-2001	804			VUCC
CE4WJK	6M	SSB	19-Sep-2011	CE	FF45					05-Oct-2011	289		D	VUCC

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Resolving LoTW Mismatches

- LoTW database contains all stations known to participate in LoTW (tnx HB9BZA!) and the date at which each last submitted QSOs to LoTW
- Identify all unconfirmed QSOs with stations known to participate in LoTW that have submitted QSOs to LoTW after the QSO date so you can contact your QSO partner and correct the mismatch

Award Tracking

- 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 Belgian Provinces
- Worked All British Areas
- Worked All Canadian Provinces
- Worked All French Departments
- Worked All DARC DOKs
- Worked All Holyland Areas
- Worked All Hungarian Counties
- Worked All Italian Provinces
- Worked All Japanese Cities
- Worked All Japanese Guns
- Worked All Japanese Prefectures
- Worked All Korean Districts
- Worked All Russian Oblasts
- Worked All Russian Districts
- Worked All Summits on the Air (SOTA)
- Worked All US States
- Worked All US Counties
- Worked All User-defined Counters

Award Tracking

- Progress Report Generation (All 30)
- Submission Generation (DXCC, IOTA, Marathon, VUCC, WAS, WAZ, WPX)
- Award Credit Update (DXCC, IOTA)

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 17M
 15M
 12M
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Hide unworked in progress rpt

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Realtime Award Progress

WPX Bands & Modes

160M SSB HF
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 40M
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 17M
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Realtime Award Progress

IOTA

IOTA mem4win update
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Realtime Award Progress

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	M i x e d	S S B	C W	T Y	R T A M	S S T V	D i g i t a l
Mixed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
160M	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
80M	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
40M	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
30M	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20M	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17M	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15M	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12M	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10M	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6M	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

5-band WAZ

Realtime Award Progress

DXLab Objectives

1. Automate “paperwork” to make more time for DXing
2. Make time spent DXing more productive
 - Find the DX you need
 - Work the DX you need

DXing With DXLab

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

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Drivers

1. User-driven iterative development

- Open Yahoo group with 5400+ participants
- Defect repairs get highest priority; goal is < 24 hours
- Public enhancement lists
- Frequent releases (several per month)

2. Easy to Use **and** Powerful

- Primarily for DXers
- Secondarily for casual operators

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

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

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the DXLab Suite

Eight free applications that run individually

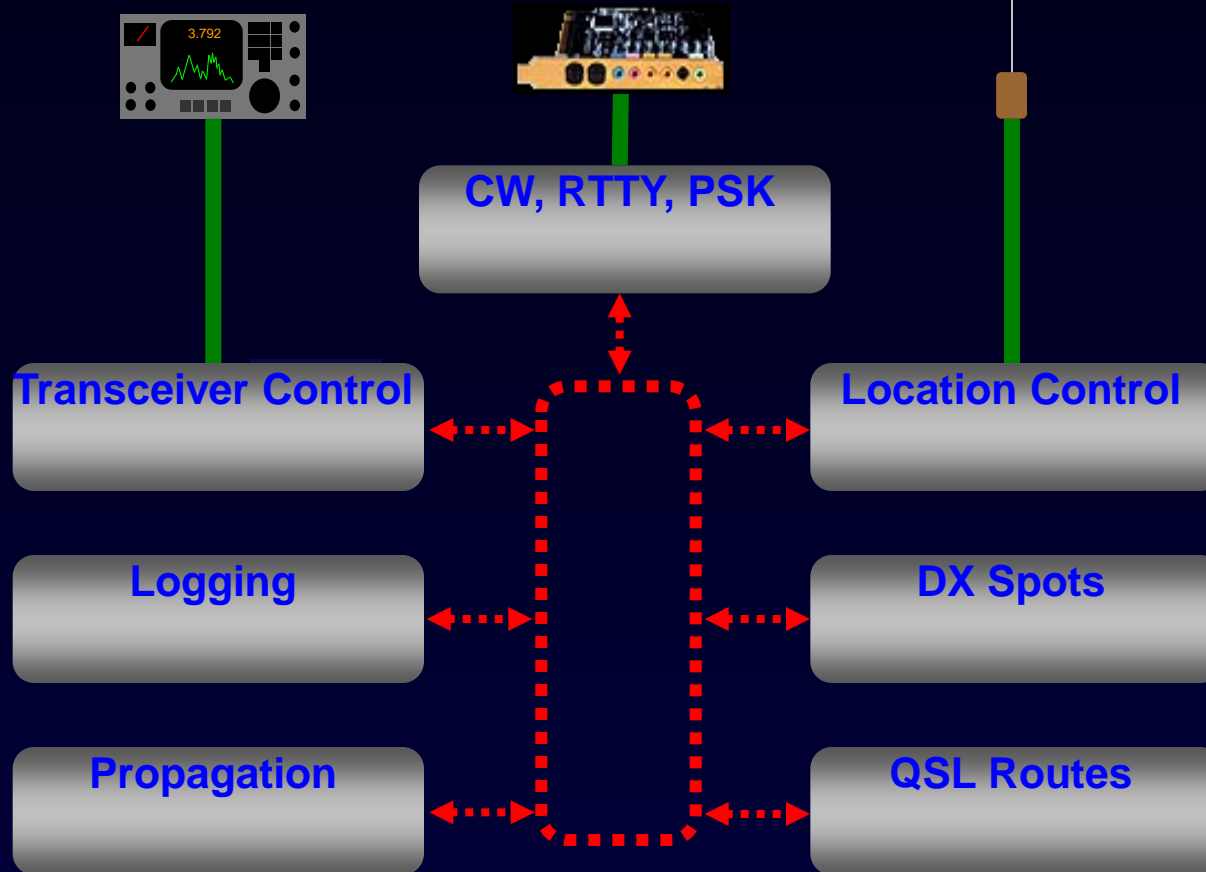
but

when run simultaneously sense each other's presence

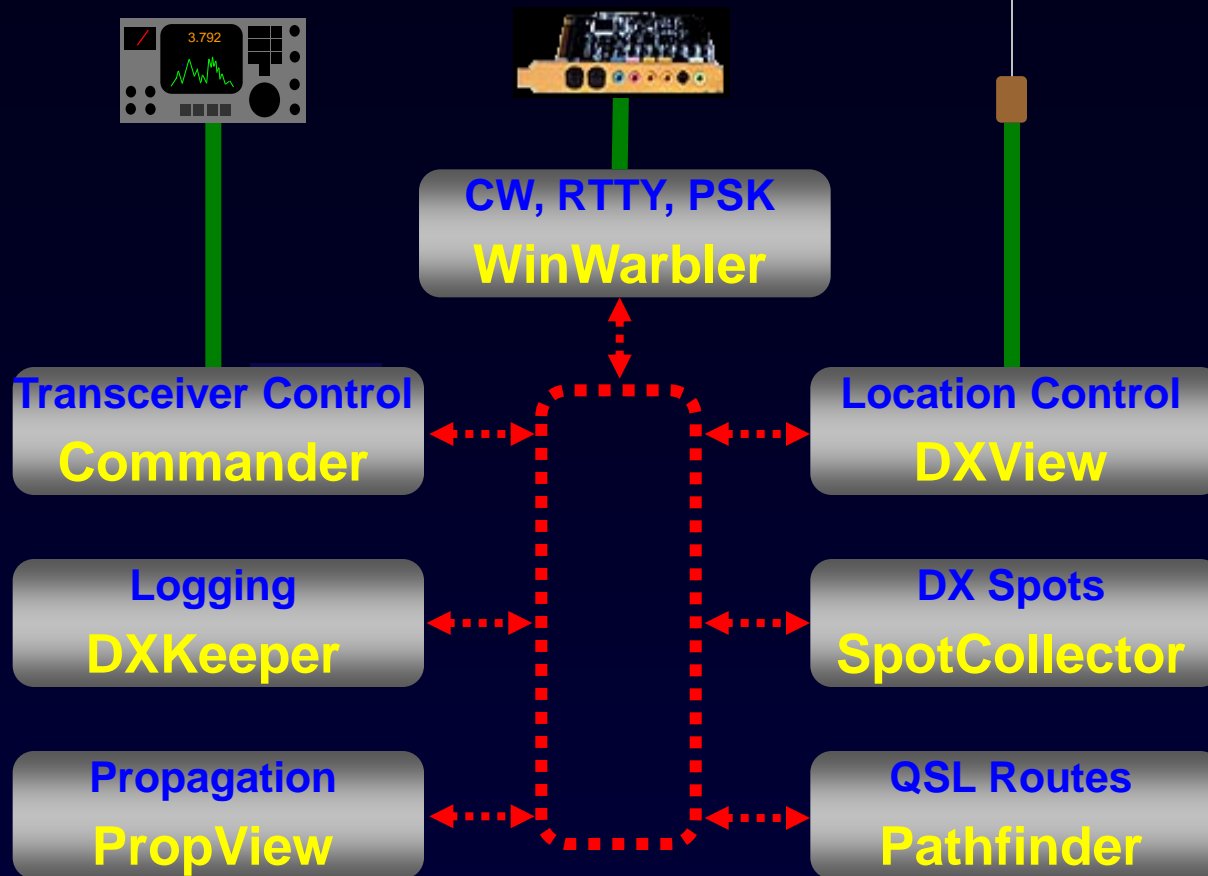
and

interoperate automatically

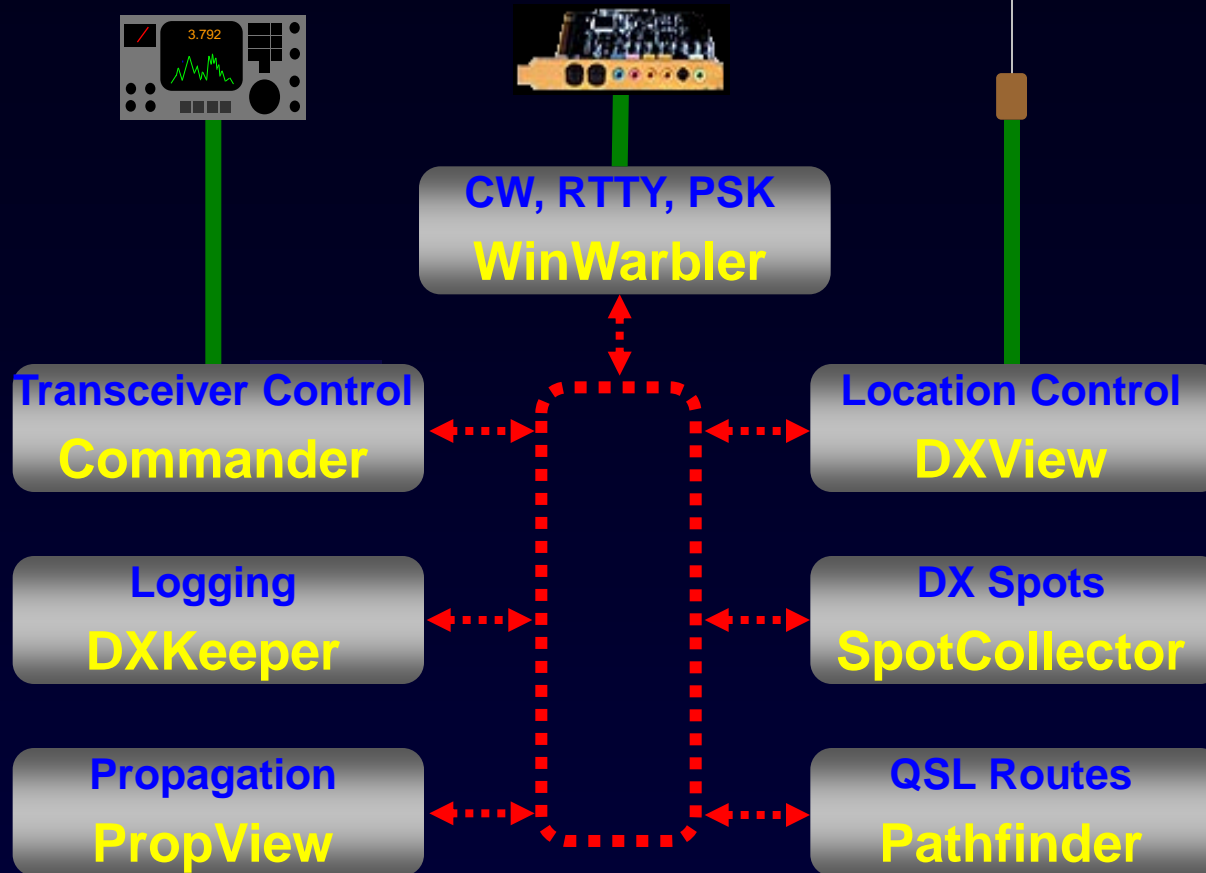
the DXLab Suite



the DXLab Suite

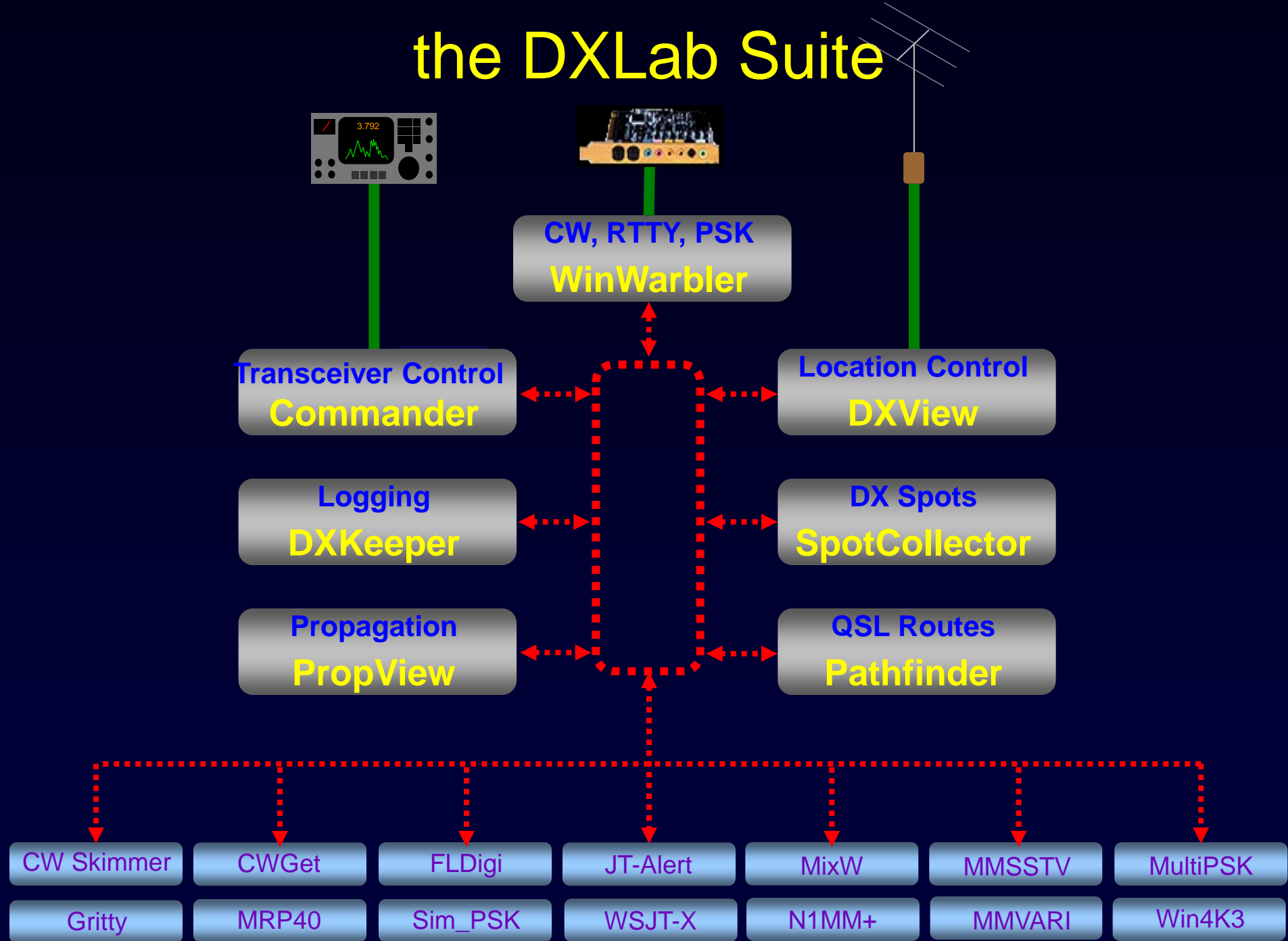


the DXLab Suite

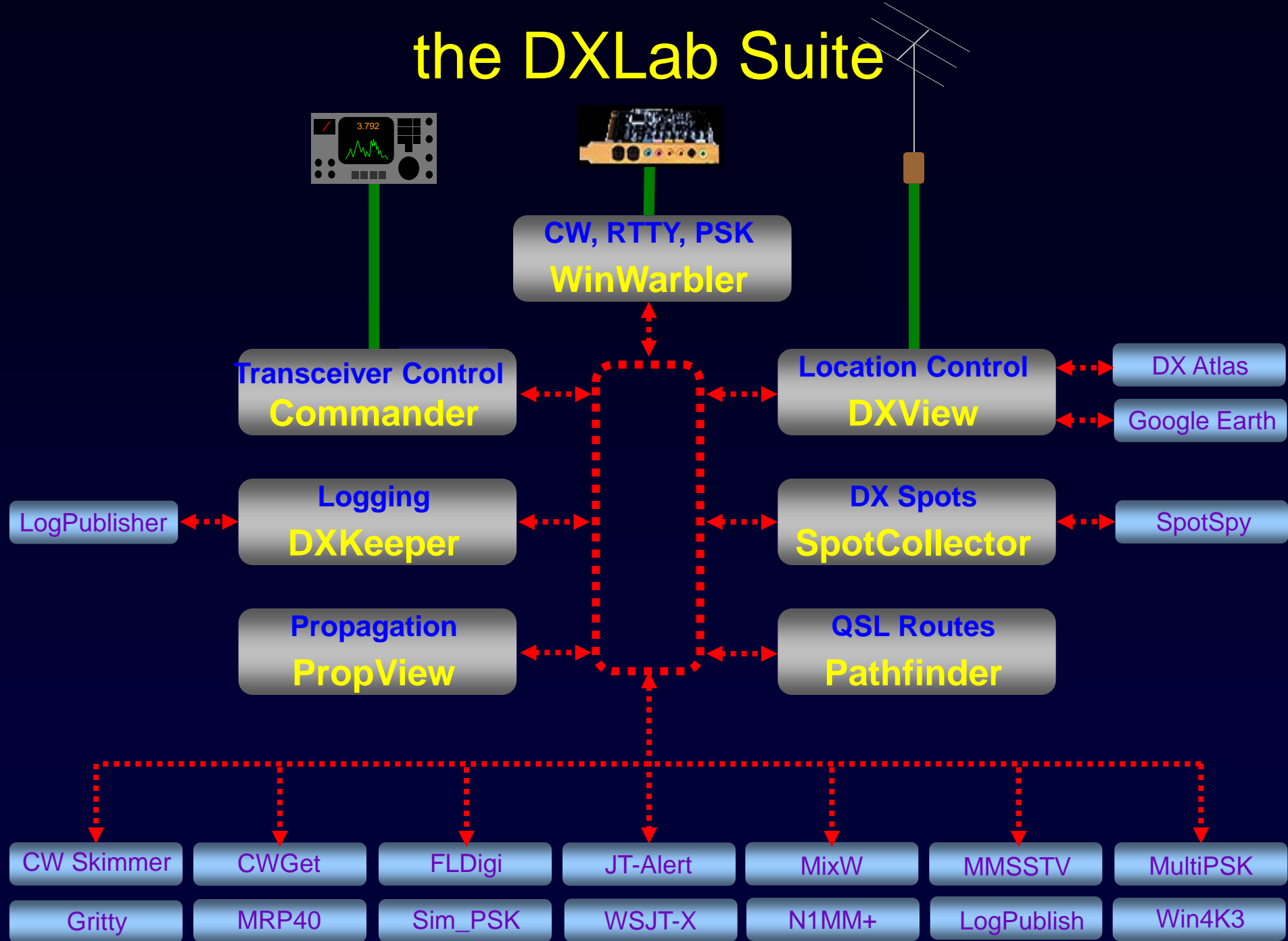


- Modular
- Loosely-coupled

the DXLab Suite



the DXLab Suite



A Suite of DXing Applications

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

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

QSO: Jordan

call JY4NE name QTH

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

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

power 1500 code 342 DXCC JY entity Jordan

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

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

WVWV 10-04 1806 Z

Outgoing spot: Call 14,086.2 Freq Cluster

Call	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 19:59	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 19:59	CQ 16 dB 13 WPM					Y					EU	DL5Q-#
LA3TQ	LA	14,017.8	20M	CW	10/4/2010 19:59	CQ 18 dB 23 WPM					Y					EU	S52X-#
IK0RCD	I	14,025.6	20M	CW	10/4/2010 19:59	CQ 13 dB 18 WPM	Y	Y	Y							NA-M	K8ND-#
9A/SP9EVP	9A	7,017.0	40M	CW	10/4/2010 19:59	CQ 21 dB 26 WPM					Y					EU	DL5Q-#
UA9MA	UA0	1,822.5	160M	CW	10/4/2010 19:59	CQ 10 dB 25 WPM					Y					EU	EI6IZ-#

DXView World Map 3.5.2 @ 2010-10-04 19:57 Z (QTH: 42° 22' N, 71° 22' W, FN42h)

Map: Countries, CQ zones, ITU zones, Maiden Fields, ITU Regions, Auroral zones

Plot: DX Spots, QSOs, DXCC Entities

Log: AA6YQ.mdb

Unworked, Confirmed, Unconfirmed, Verified

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

QSO Info (Receive Pane 0)

Call: EY7AD 1st R: Name: Rakhim DXCC: EY QTH: 735700

QSL: Via DIRECT -1 CQ: 17 ITU: 30

Buro: Grid: MN30 Pri sub: Sec sub:

LotW: IOTA: Az: Path: S Comment:

local: 2010-10-05 00:59 Xcvr Freq: 14,086.19

QU0TH00 DX CO DX DE SV1PAS SV1PAS PSE K

DS1PAUSSVPAS DEHPFF,PD1BPSE K...

))JTCQ DX CO DX DE SV1PAS SV1PAS PSE EU00E0SCQ DX CO DX DE SV1PAS SV1PAS PSE K

SMSQVAS UV1PAS DE PD1ANB,PD1ANB PSE K...9R2 ORZ ORZ DE SV1PAS SV1PAS PSE K

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

VFO A: 20M 14,086.19

VFO B: 21,008.10

Filters: Group normal

Width: 0

PBT 1: 50

PBT 2: 50

PTT: Rcvng TX RX

AL-1200 Plate: 7.75 Load: 4 Band: 20

Mode: LSB

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

DX Commander

Range: 1 5 10 25 50 100

14,088.5

14,088.5 EI7BFB

14,087.5 EA4AHE

14,087.0

14,086.5 UR7ITU

14,086.0

14,085.5 PF7DKW

14,085.0 LX8RTTY

14,084.5 SP9GKJ

14,084.0

Band: 160 80 60 40 30 20 17 15 12 10 6 4 2 1

Spotcollector Config Help

Macros: rtty sample

F5: CQ F6: Call F7: Over F8: SK log ALT F9: ur rpt F10: tu log grz? F11: de mjcsl F12: mjcsl (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: <current settings>

RTTY transmit (soundcard)

Freq: 14,084.065 net

Reverse Start Stop Abort F2 F4 Esc

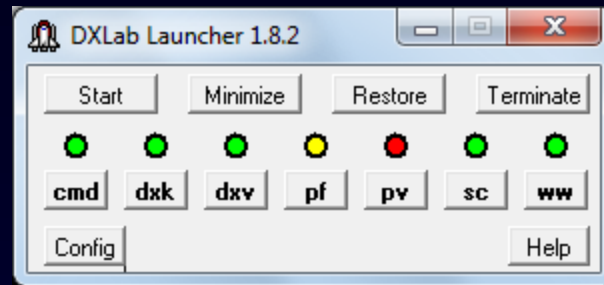
Operating Mode

CW PSK31 Phone PSK63 RTTY PSK125

Tuning Display

Vert height: 2.0 Horiz zoom: 1 Horiz pan: 1

Single Point of Control: DXLab Launcher



- Installation
- Upgrade
- Startup
- Shutdown

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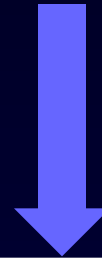
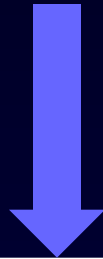
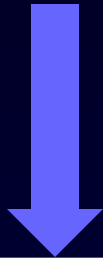
Active DX Database

Telnet
Clusters

Packet
Clusters

DX
Summit

Reverse
Beacon
Network



Call	Freq	QSX	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			

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

Log Database

DXCC needs

IOTA needs

Leaderboard needs

Marathon needs

VUCC needs

WAS needs

WPX needs

WAZ needs

Logged
QSOs

What QSOs and QSLs are “Needed”
for the awards I’m pursuing ?

Multiple Views of Active DX

DX Spot Sources

Active DX Database

LotW
Database

eQSLAG
Database

What DX stations QSL
via LotW and eQSL ?

Log Database

DXCC needs

IOTA needs

Leaderboard needs

Marathon needs

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WAS needs

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WAZ needs

Logged
QSOs

Tabular View of Active DX

DX Spot Sources

Active DX Database

View
Generator

Log Database

DXCC needs

IOTA needs

Leaderboard needs

Marathon needs

VUCC needs

WAS needs

WPX needs

WAZ needs

Logged
QSOs

LotW
Database

eQSLAG
Database

The screenshot shows a software window with a menu bar and a toolbar. The main area contains a table with multiple columns and rows of data. The table has a header row and several data rows. The data appears to be organized in a grid format, typical of a log or database view. The window title bar is visible at the top, and there are standard OS window controls (minimize, maximize, close) on the right side.

Tabular Display

Tabular View of Active DX

“Selected Bands and Modes”

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

WWV 04-16 1805 Z Outgoing spot Spot source status

SFI 73 History Call 14,085.0 Freq Cluster

Q: 1 A 6 1 K Notes Local Report Stats Prop Config Help

Need	Call	Prefix	Band	Mode	FirstTime	LastTime	Freq	QSX	Pri	CQ	IOTA	DXGrid	ODX	EU	AF	SA	NA-E	NA-M	NA-W	AS	OC	SP SNR	SP P	LP SNR	LP P
	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/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: First Call Last Freq Rcv Az

Filter: Band and Mode and Origin

Audio Age LotW eQSL Mthn C S C

160 test1 W9DL Quixote Need50 SQL 29 SQL 30 160was

Color codes:

- verified (green)
- unneeded (black)
- unconfmd (blue)
- unwrkd B or M (red)
- unwrkd counter (orange)
- special tag (pink)
- LotW (yellow)
- eQSL AG (light blue)
- LotW & eQSL AG (light green)

Font color indicates “needed” DX stations

Background color indicates LotW and eQSL participation

Band Filter

SpotCollector Band Filter

Transceiver Band Only Enable Start/End & Max Origin DX Filtering

Band	Enable	Start UTC	End UTC	Max origin DX	Band	Enable	Start UTC	End UTC	Max origin DX
160m	<input checked="" type="checkbox"/>	SS-30	SR+45		6m	<input checked="" type="checkbox"/>			250
80m	<input checked="" type="checkbox"/>	SS-60	SR+90		4m	<input type="checkbox"/>			
60m	<input type="checkbox"/>				2m	<input type="checkbox"/>			
40m	<input checked="" type="checkbox"/>	SS-120	SR+120		1.25m	<input type="checkbox"/>			
30m	<input checked="" type="checkbox"/>				70cm	<input type="checkbox"/>			
20m	<input checked="" type="checkbox"/>				33cm	<input type="checkbox"/>			
17m	<input checked="" type="checkbox"/>				23cm	<input type="checkbox"/>			
15m	<input checked="" type="checkbox"/>				12cm	<input type="checkbox"/>			
12m	<input checked="" type="checkbox"/>				?	<input type="checkbox"/>			
10m	<input checked="" type="checkbox"/>								

None Top Low Tri Warc HF VHF UHF Micro All

Sunrise & Sunset
Sunrise UTC Sunset UTC

Ignore
 Start & End times Max origin DX

Mode Filter

SpotCollector Mode Filter

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

None All

Tabular View of Active DX

“Selected Bands and Modes”

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

WWV 04-16 1805 Z Outgoing spot Spot source status

SFI 73 History Call: 14,085.0 Freq Cluster

Q: 1 A 6 1 K Notes: X Local 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		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: First Call Last Freq Rcv Az

Filter: Band and Mode and Origin

Audio Age LotW eQSL Mthn C S C

160 test1 W9DL Quixote Need50 SQL 29 SQL 30 160was

Color codes: verified unneeded unconfmd unwrkd B or M unwrkd counter special tag LotW eQSL AG LotW & eQSL AG

- On 80m through 10m, PropView’s VOACAP engine computes
- Short path SNR and probability
 - Long path SNR and probability

Tabular View of Active DX

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

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

WWV 04-16 1805 Z

SFI History

Q: A 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	Re
D	3Y0RY	3Y-B	20M	RTTY	16 1920	16 1920	14,085.0			38	AN-002	JD14	1	Y								11	52	-50		

Sort

Filter: SQL [Need50]

Sort: First Call Last Freq Rcv Az

Filter: X AH Need Call DXCC Freq Tag Band Mode Cont Origin

Audio Age LotW eQSL Mtrhn 160 test1 W9DL Quixote Need50 SQL 29 SQL 30 160was

Color codes

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

Tabular View of Active DX

in a web browser from anywhere

SpotCollector DX Spots x

dxlab/spots

iGoogle DXLab SF 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 qrm here 970 NA	Lakshadweep Islands	EI7MRE
VU7KV	VU7	24,950.0	SSB	K50A		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]

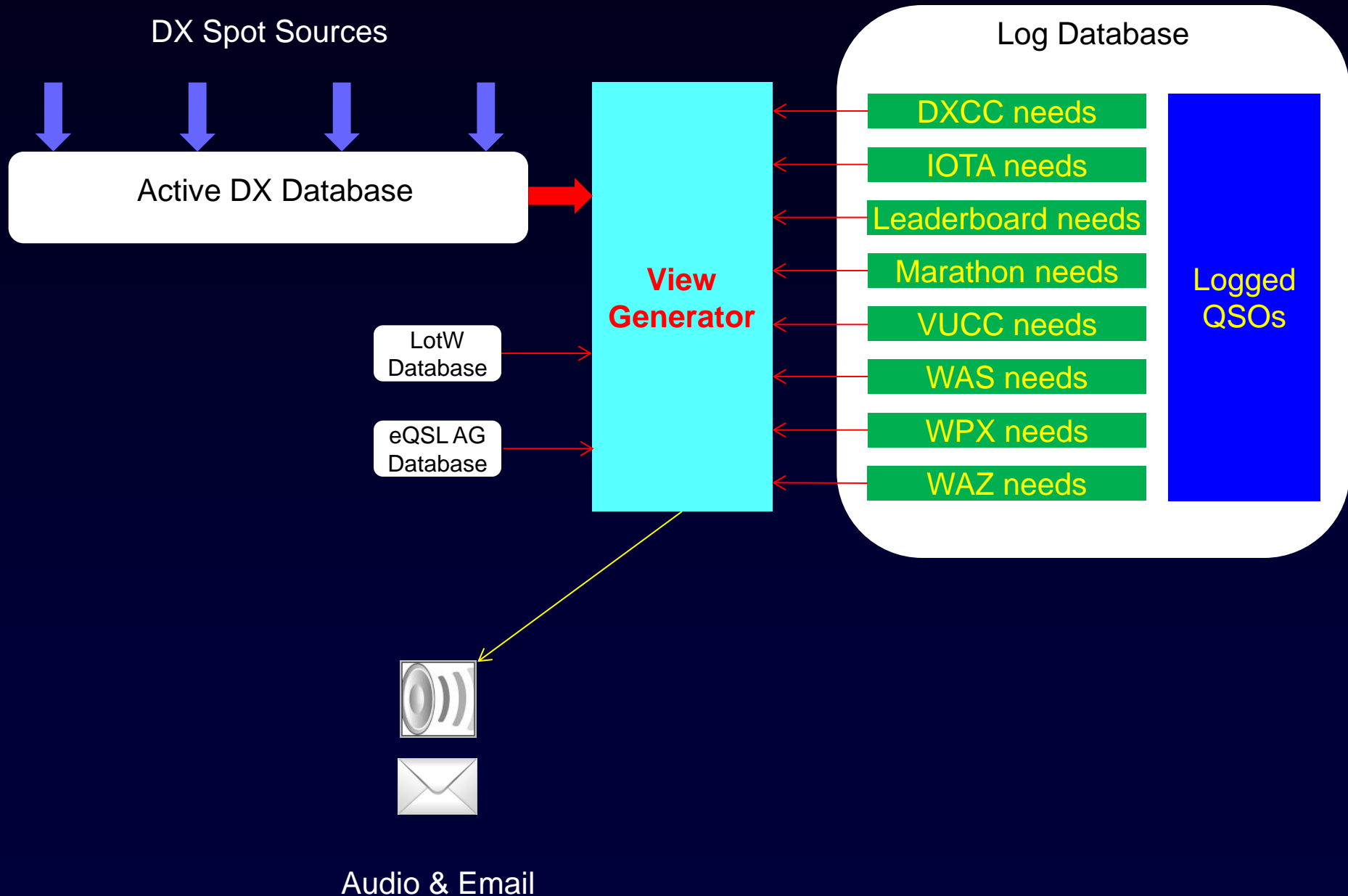
X Need Call DXCC Freq Tag Band Mode Cont Orig SQL Config

Tabular View of Active DX

in a web browser from anywhere



Audio and Email Views of Active DX



Audio and Email Views of Active DX

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

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

World Map View of Active DX

DX Spot Sources

Active DX Database

LotW
Database

eQSLAG
Database

View
Generator

Log Database

DXCC needs

IOTA needs

Leaderboard needs

Marathon needs

VUCC needs

WAS needs

WPX needs

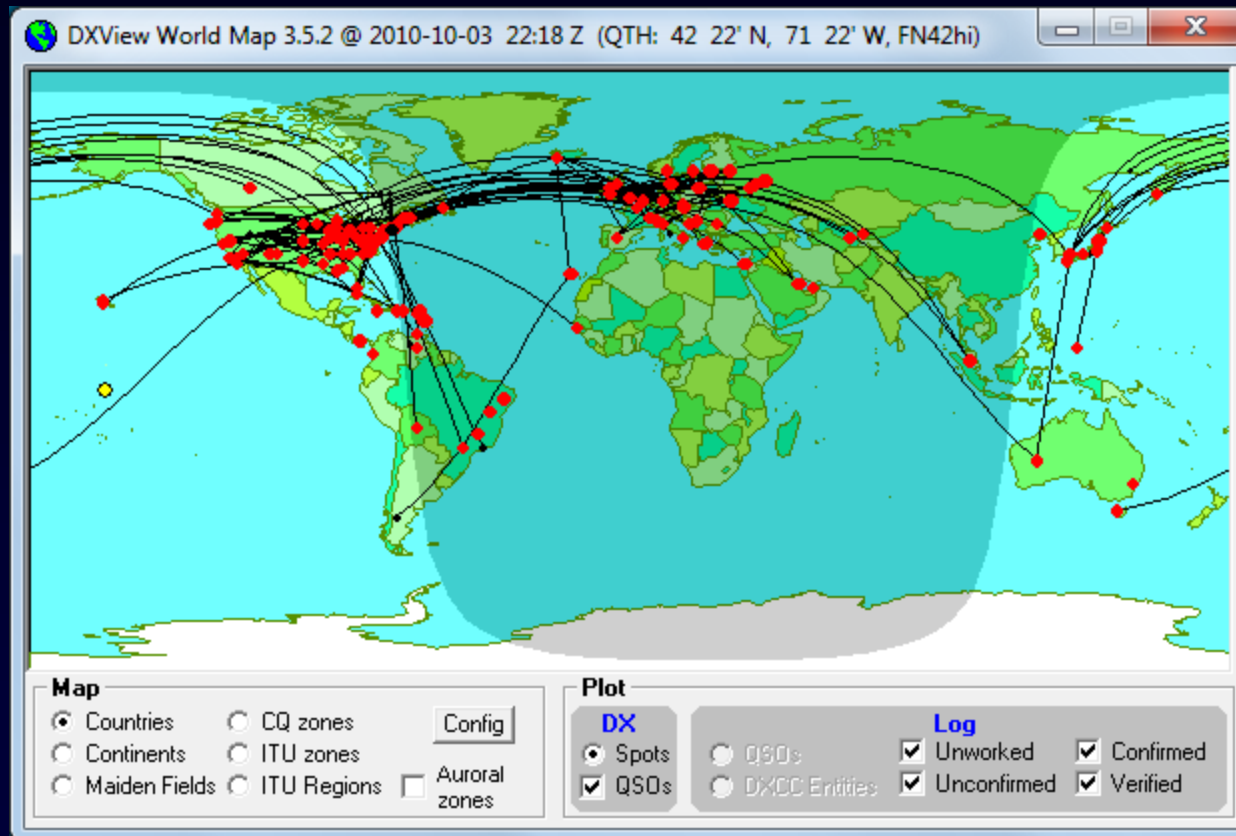
WAZ needs

Logged
QSOs



World Map View of Active DX

“Active DX on Selected Bands”



World Map View of Active DX

Controlling the Map View

The screenshot shows the 'World Map' configuration tab in the DXView software. The window title is 'DXView Configuration'. The 'World Map' tab is selected, and the 'Log: AA6YQ.mdb' is displayed. The 'Selection' section includes checkboxes for 'Spots' (selected), 'QSOs', and a 'Lifetime (hrs)' field set to 3. The 'Scan DX Bands' section has checkboxes for various bands (160m, 80m, 60m, 40m, 30m, 20m, 17m, 15m, 12m, 10m, 6m, 4m, 2m, 70cm, ann, dwell) with a '2' in the dwell field. The 'Band Filter' section has checkboxes for the same bands and buttons for 'Xcvr band only', 'Top', 'Low', 'Tri', 'Warc', 'VHF', 'None', and 'All'. The 'Mode Filter' section has checkboxes for various modes (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) and buttons for 'None' and 'All'. The 'Continent Filter' section has checkboxes for continents (NA, SA, EU, AF, AS, OC, AN, ?) and buttons for 'None' and 'All'. The 'Origin Filter' section has checkboxes for origins (NAE, NAM, NAW, SA, EU, AF, AS, OC, ?) and buttons for 'None' and 'All'.

DXView Configuration

World Map

Log: AA6YQ.mdb

Selection

Spots
 QSOs
3 Lifetime (hrs)

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 AN ?

Origin Filter

NAE NAM NAW SA EU AF AS OC ?

World Map View of Active DX

Controlling the Map View

The screenshot shows the 'World Map' configuration tab in the DXView software. The window title is 'DXView Configuration'. The 'World Map' tab is selected, and the 'Log: AA6YQ.mdb' is displayed. The 'Selection' section has 'Spots' selected, 'QSOs' checked, and a 'Lifetime (hrs)' of 3. The 'Scan DX Bands' section has checkboxes for 160m, 80m, 60m, 40m, 30m, 20m, 17m, 15m, 12m, 10m, 6m, 4m, 2m, 70cm, and 'ann', with a 'dwell' value of 2. The 'Band Filter' section has checkboxes for the same bands and buttons for 'Xcvr band only', 'Top', 'Low', 'Tri', 'Warc', 'VHF', 'None', and 'All'. The 'Mode Filter' section has checkboxes for various modes like SSB, CW, RTTY, AM, FM, etc., and buttons for 'None' and 'All'. The 'Continent Filter' section has checkboxes for NA, SA, EU, AF, AS, OC, AN, and '?', with buttons for 'None' and 'All'. The 'Origin Filter' section has checkboxes for NAE, NAM, NAW, SA, EU, AF, AS, OC, and '?', with buttons for 'None' and 'All'.

DXView Configuration

World Map

Log: AA6YQ.mdb

Selection

Spots
 QSOs
3 Lifetime (hrs)

Scan DX Bands

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

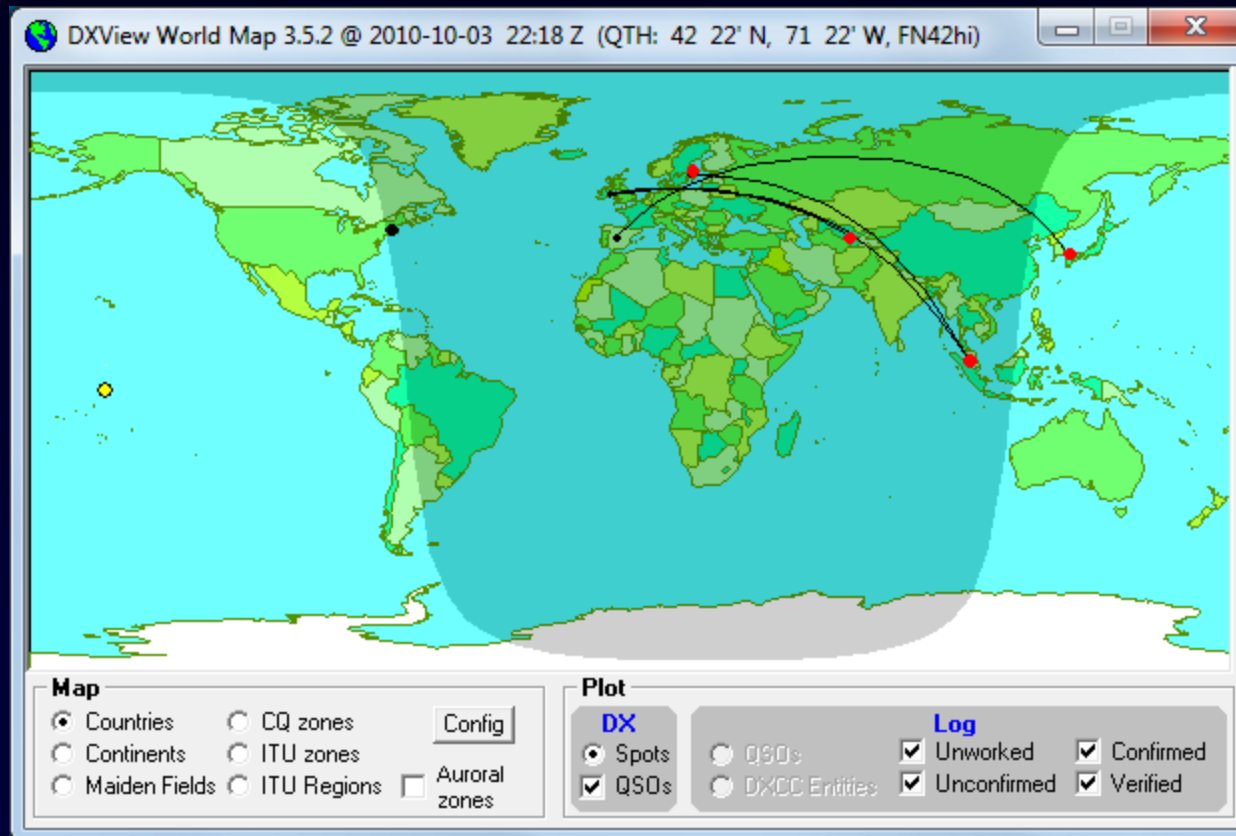
NA SA EU AF AS OC AN ?

Origin Filter

NAE NAM NAW SA EU AF AS OC ?

World Map View of Active DX

“160m”



World Map View of Active DX

ScanDX

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

Search **DXCC** prefix: entity: code:

GeoMag max: K:

Location @ 2017-04-18 16:43:07 local **DXCC database**

latitude	longitude	SP DX	cont	grid	CQ	ITU
<input s"="" type="text" value="55 25' 0"/>	<input e"="" type="text" value="3 22' 0"/>	<input type="text" value="8043"/>	<input type="text" value="AF"/>	<input type="text" value="JD14qo"/>	<input type="text" value="38"/>	<input type="text" value="67"/>
location	IOTA	time zone				
<input type="text" value="Bouvet Island"/>	<input type="text" value="AN-002"/>	<input type="text" value="UTC"/>				

Heading short: long:
SP LP

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											

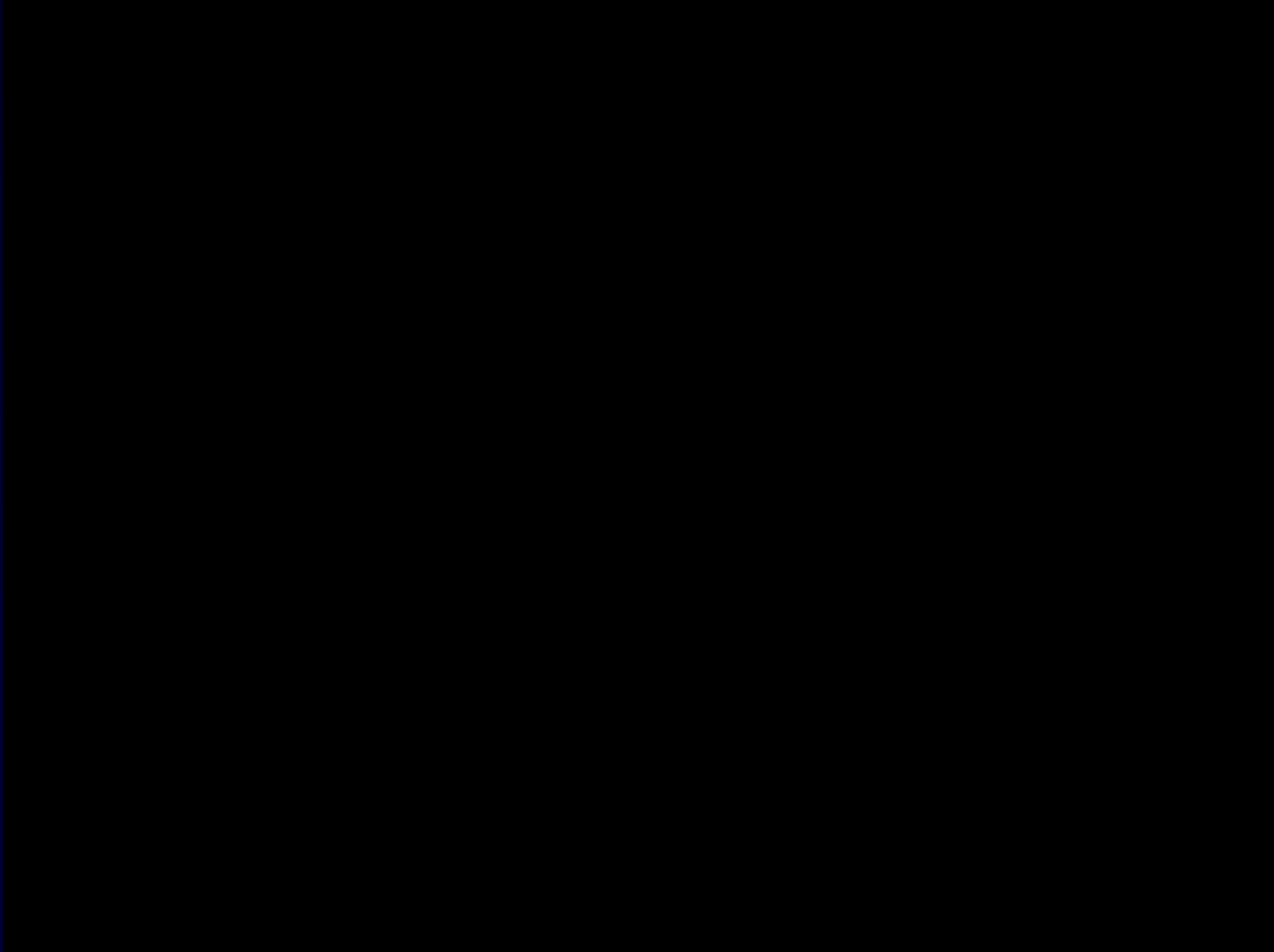
Map

Ant

<input type="text" value="0"/>
<input type="text" value="45"/>
<input type="text" value="90"/>
<input type="text" value="135"/>
<input type="text" value="180"/>
<input type="text" value="225"/>
<input type="text" value="270"/>
<input type="text" value="315"/>
<input type="text" value="Spratley"/>
<input type="text" value="Macao"/>
<input type="text" value="Park"/>

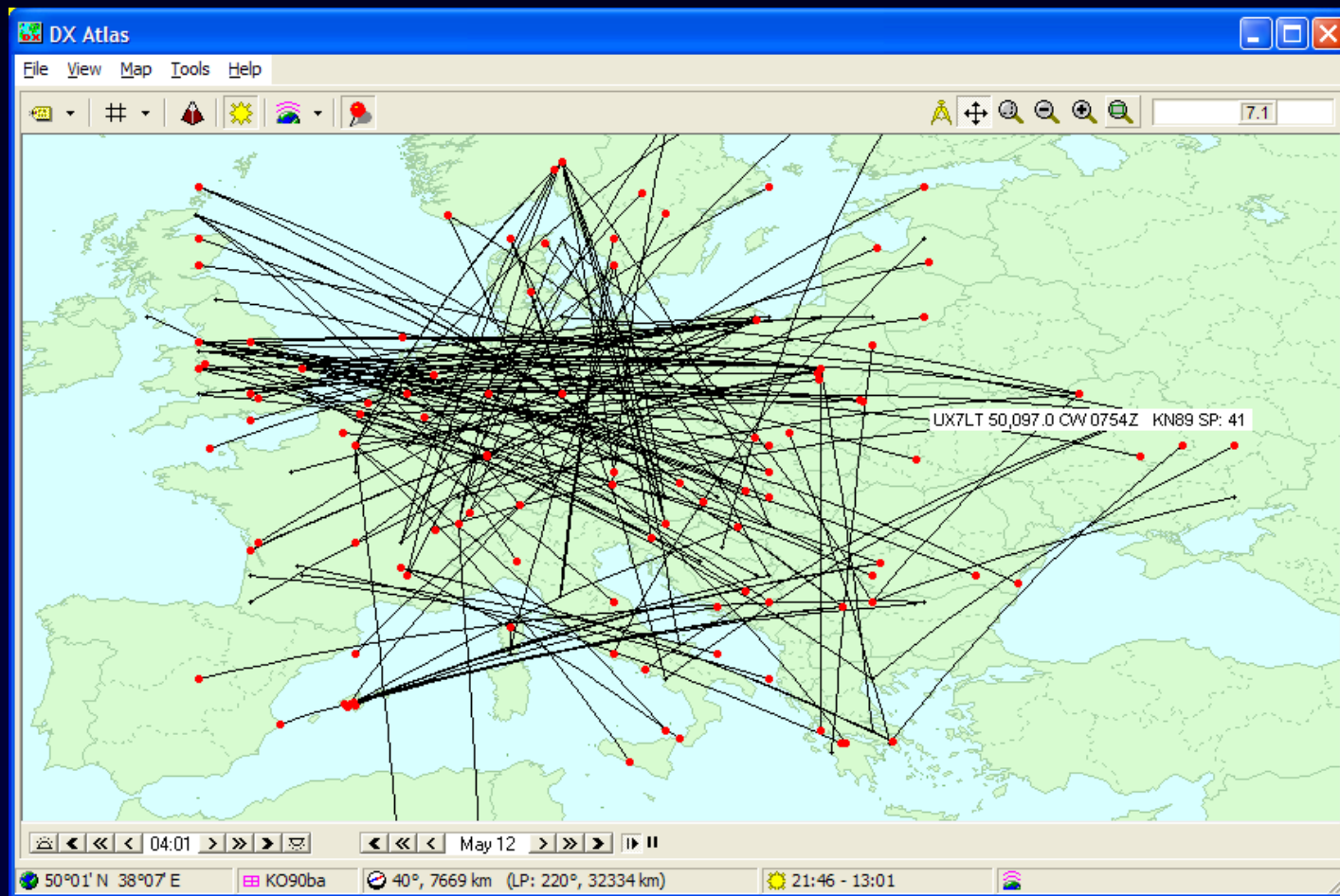
World Map View of Active DX

ScanDX



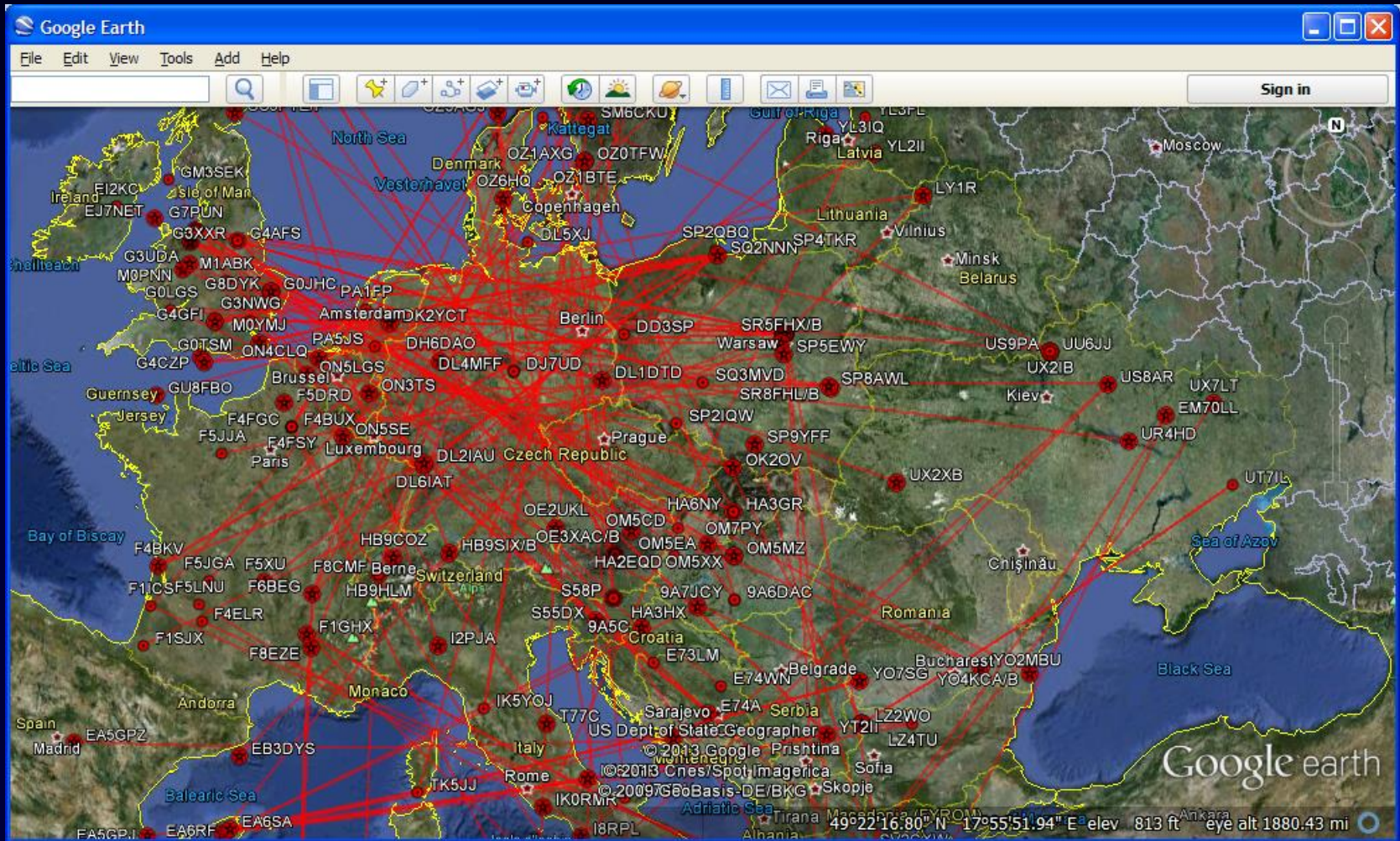
World Map View of Active DX

“6m” on DX Atlas



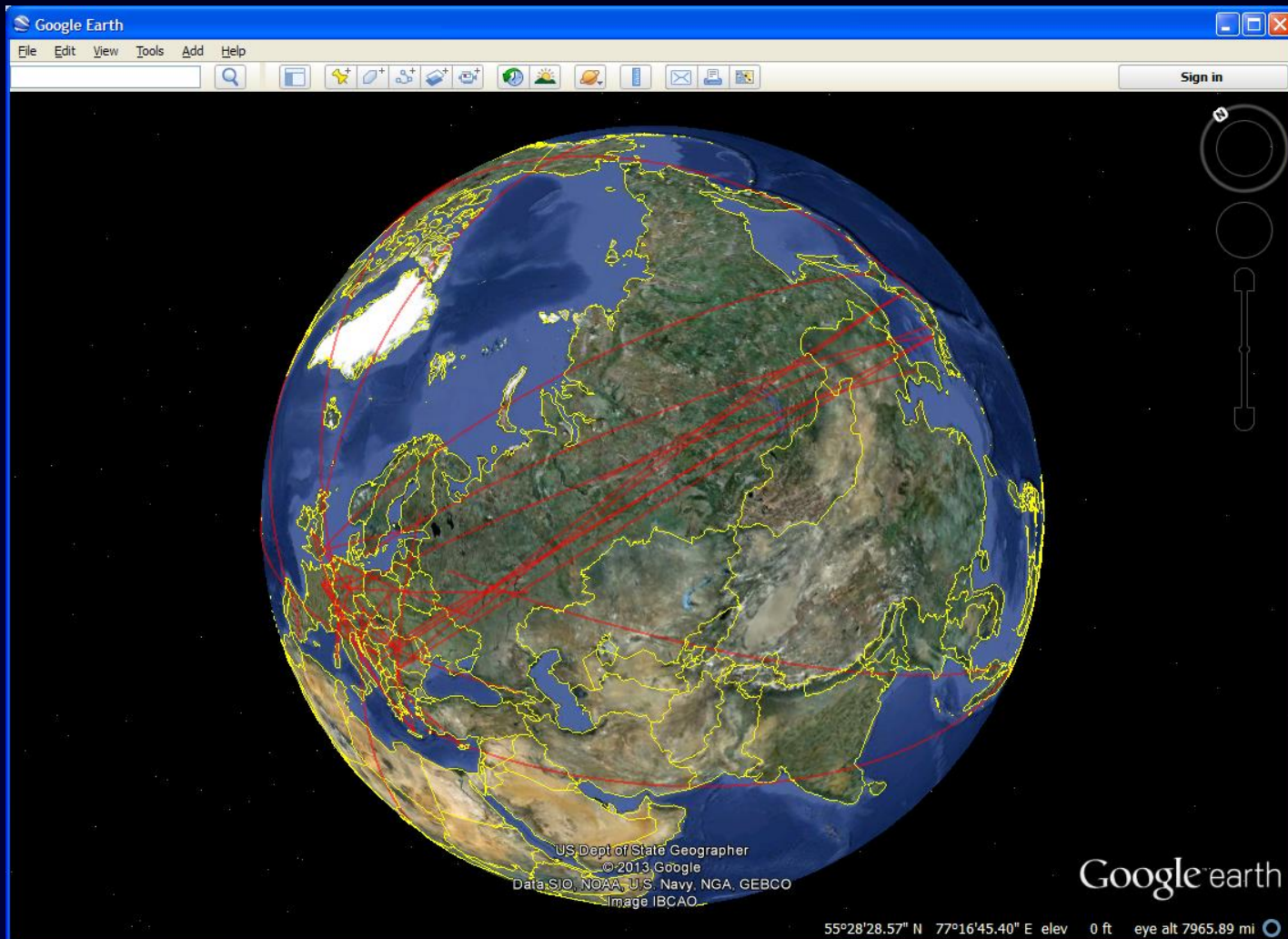
World Map View of Active DX

“6m” on Google Earth

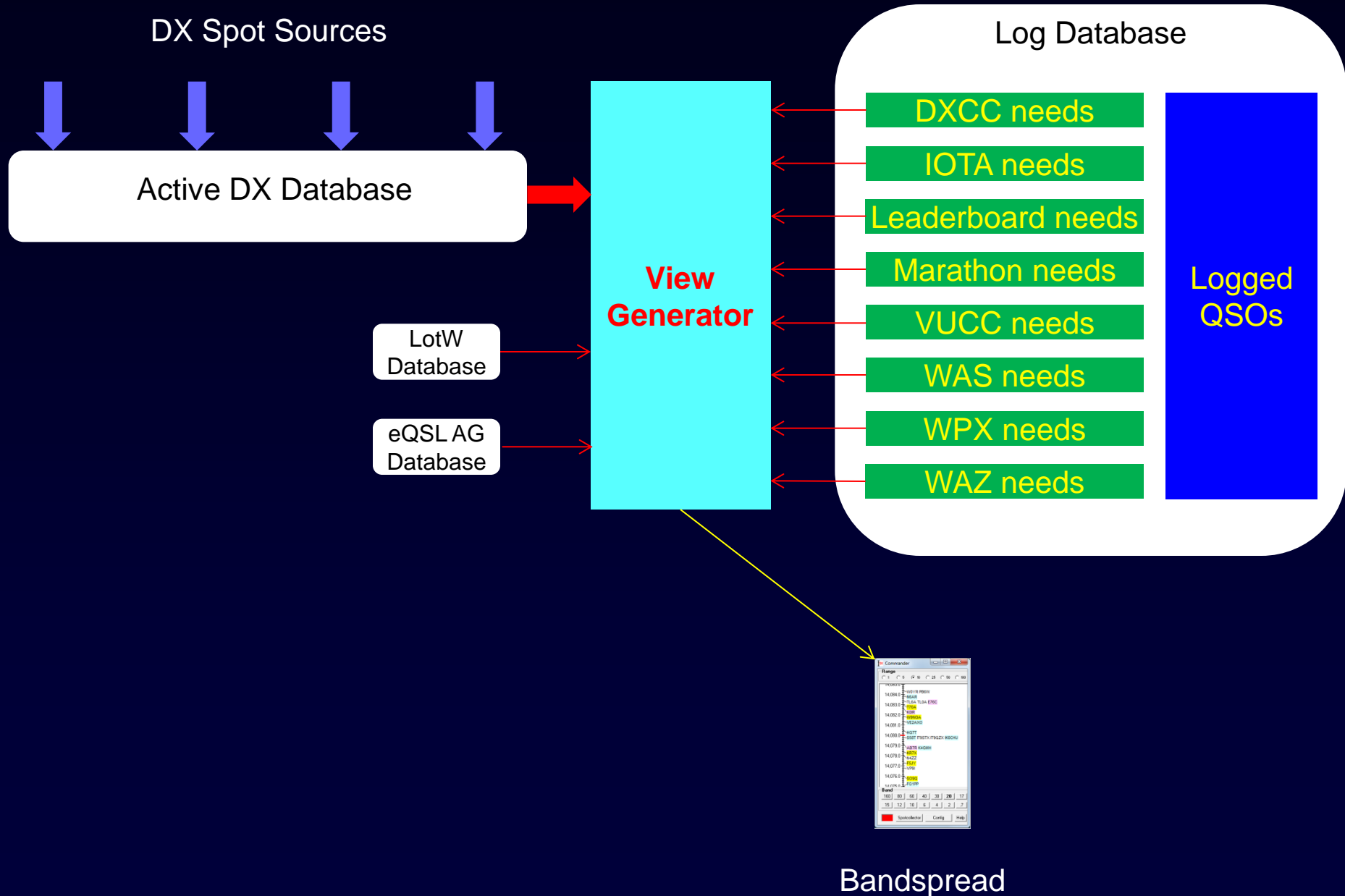


World Map View of Active DX

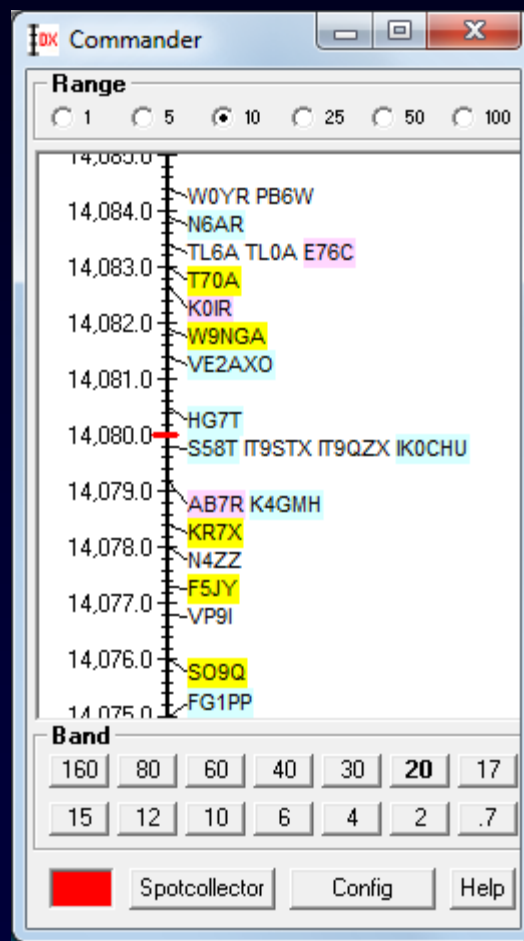
“12m” on Google Earth



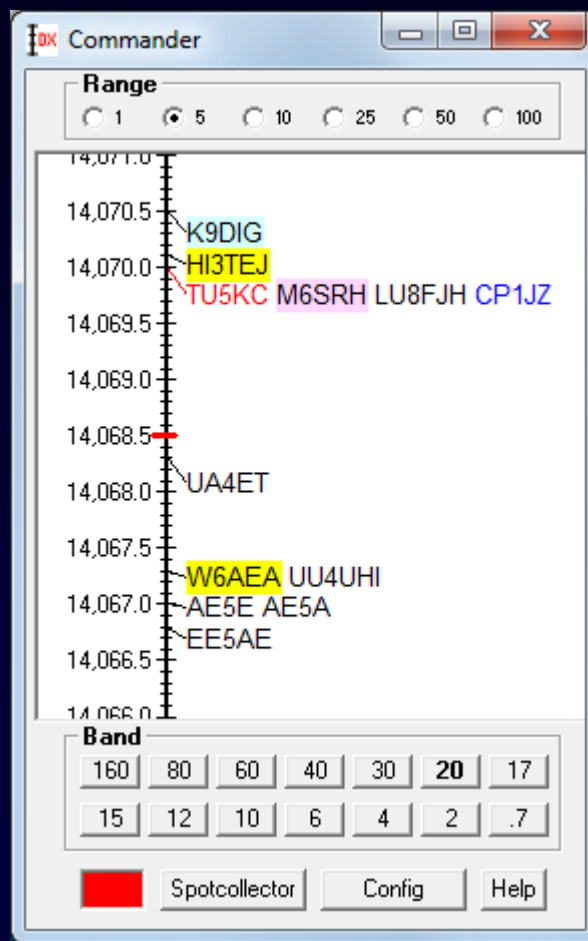
Bandspread View of Active DX



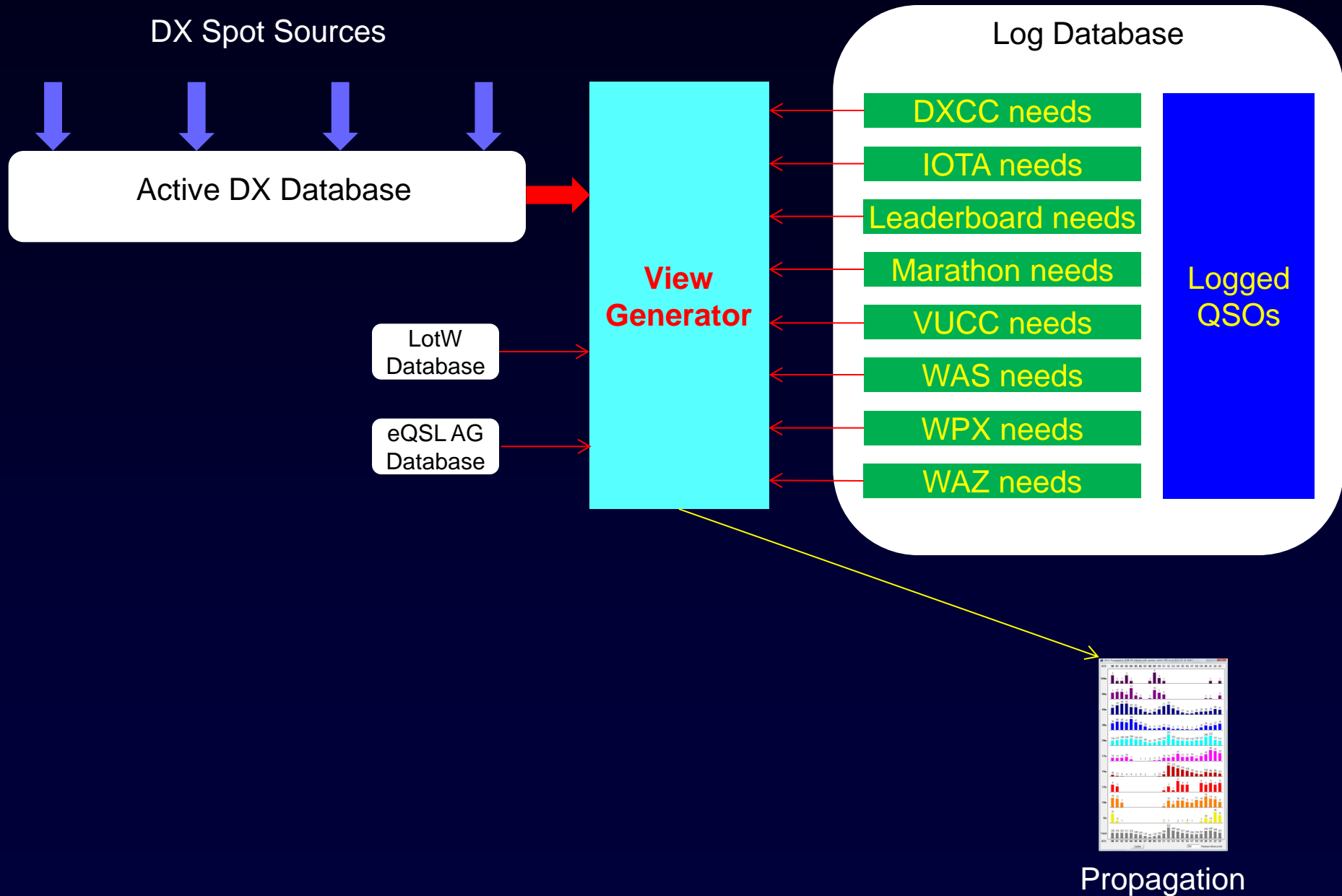
Bandspread View of Active DX



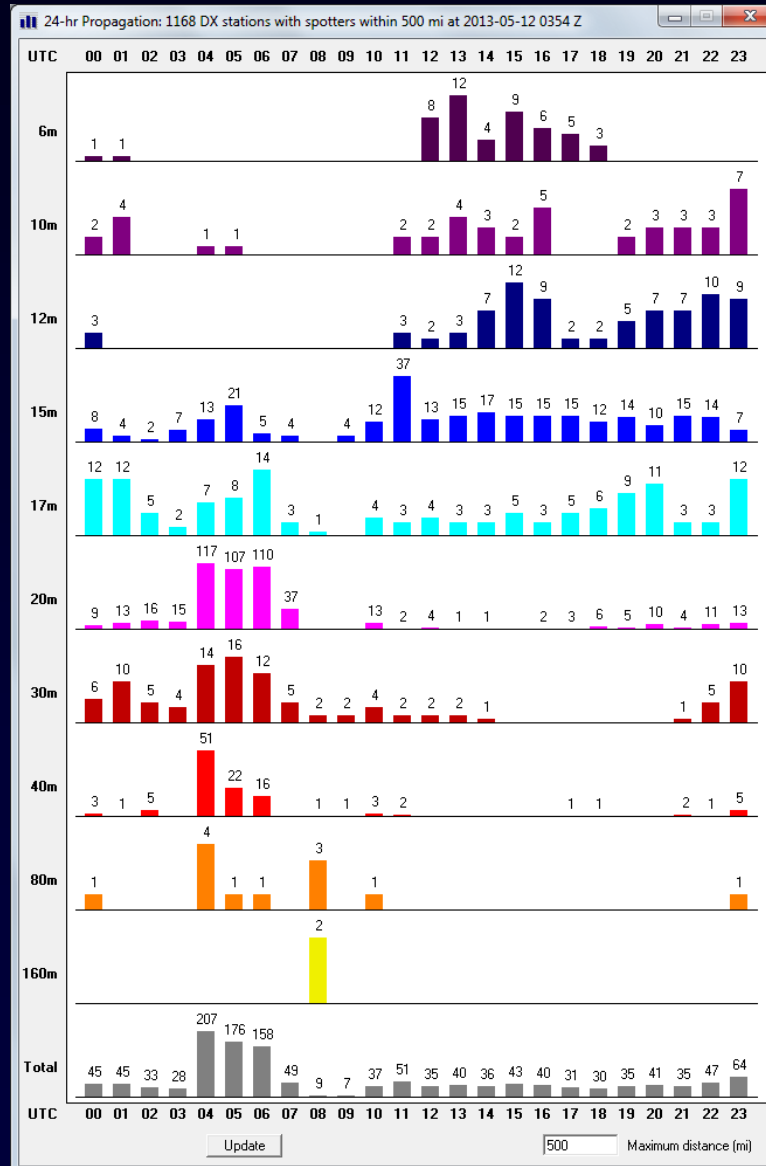
Bandspread View of Active DX



Propagation View of Active DX



Propagation View of Active DX



Multiple Views of Active DX

DX Spot Sources

Active DX Database

View
Generator

Log Database

DXCC needs

IOTA needs

Leaderboard needs

Marathon needs

VUCC needs

WAS needs

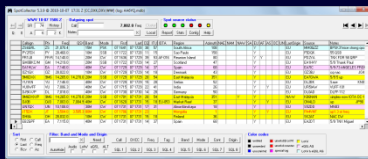
WPX needs

WAZ needs

Logged
QSOs

LotW
Database

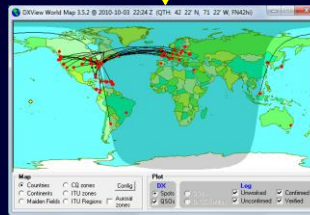
eQSLAG
Database



Tabular Display



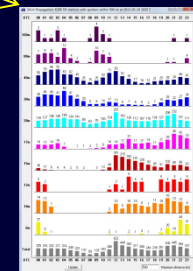
Audio & Email



World Map



Bandspread



Propagation

DXing With DXLab

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

DXing With DXLab

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

Finding and Working Needed DX

1. What's been QRV that I need?
2. Working Mount Athos

What Are My DXing Objectives?

DXCC Bands & Modes

<input checked="" type="checkbox"/> 160M	<input checked="" type="checkbox"/> Phone	HF
<input checked="" type="checkbox"/> 80M	<input checked="" type="checkbox"/> CW	
<input checked="" type="checkbox"/> 40M	<input checked="" type="checkbox"/> Digital	VHF
<input checked="" type="checkbox"/> 30M	<input type="checkbox"/> PSK	
<input checked="" type="checkbox"/> 20M		
<input checked="" type="checkbox"/> 17M	<input type="checkbox"/> QRP	
<input checked="" type="checkbox"/> 15M		
<input checked="" type="checkbox"/> 12M		
<input checked="" type="checkbox"/> 10M		
<input checked="" type="checkbox"/> 6M		
<input type="checkbox"/> 2M		

Hide unworked in progress rpt

Marathon Bands & Modes

<input checked="" type="checkbox"/> 160M	<input type="checkbox"/> Phone	HF
<input type="checkbox"/> 80M	<input type="checkbox"/> CW	
<input type="checkbox"/> 60M	<input type="checkbox"/> Digital	VHF
<input type="checkbox"/> 40M		
<input type="checkbox"/> 30M	<input type="checkbox"/> Mixed	
<input type="checkbox"/> 20M	<input checked="" type="checkbox"/> Include QSOs with no prop	
<input type="checkbox"/> 17M		
<input type="checkbox"/> 15M	<input type="text" value="1500"/>	
<input type="checkbox"/> 12M	Max TX power	
<input type="checkbox"/> 10M	Year, Category, Score Sheet Info	
<input type="checkbox"/> 6M		
<input type="checkbox"/> 2M		

Realtime Award Progress

WPX Bands & Modes

<input type="checkbox"/> 160M	<input type="checkbox"/> SSB	HF
<input type="checkbox"/> 80M	<input type="checkbox"/> CW	
<input type="checkbox"/> 60M	<input type="checkbox"/> Digital	
<input type="checkbox"/> 40M		
<input type="checkbox"/> 30M	<input type="checkbox"/> Mixed	
<input type="checkbox"/> 20M		
<input type="checkbox"/> 17M		
<input type="checkbox"/> 15M		
<input type="checkbox"/> 12M		
<input type="checkbox"/> 10M		
<input type="checkbox"/> 6M		

Realtime Award Progress

IOTA

IOTAmem4win update

Realtime Award Progress

DXCC Submission

Submit deleted entities

Record Sheet lines/page

Marathon Submission

Confirmed QSOs are low risk

VUCC & WAS Submission

QSL Card

LotW

DXCC Credits

Credit-only QSO creation

VUCC Bands & Modes

<input checked="" type="checkbox"/> 6M		
<input type="checkbox"/> 2M		
<input type="checkbox"/> 1.25M		
<input type="checkbox"/> 70 CM		
<input type="checkbox"/> 33 CM		
<input type="checkbox"/> 23 CM		
<input type="checkbox"/> 13 CM and up		
<input type="checkbox"/> Satellite		

Realtime Award Progress

WAS Bands & Modes

<input checked="" type="checkbox"/> 160M	<input type="checkbox"/> Phone	HF
<input type="checkbox"/> 80M	<input type="checkbox"/> CW	
<input type="checkbox"/> 40M	<input type="checkbox"/> RTTY	VHF
<input type="checkbox"/> 30M	<input type="checkbox"/> Digital	
<input type="checkbox"/> 20M	<input type="checkbox"/> SSTV	
<input type="checkbox"/> 17M		
<input type="checkbox"/> 15M	<input type="checkbox"/> Sat	
<input type="checkbox"/> 12M	<input type="checkbox"/> EME	
<input type="checkbox"/> 10M	<input type="checkbox"/> QRP	
<input checked="" type="checkbox"/> 6M	<input type="checkbox"/> Mixed (Basic)	
<input type="checkbox"/> 2M		
<input type="checkbox"/> 1.25M		
<input type="checkbox"/> 70CM		

Realtime Award Progress

WAZ Bands & Modes

	M i x e d	S S B	C W	R T Y	A M	S S T V	D i g i t a l
Mixed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
160M	<input type="checkbox"/>						
80M	<input type="checkbox"/>						
40M	<input type="checkbox"/>						
30M	<input type="checkbox"/>						
20M	<input type="checkbox"/>						
17M	<input type="checkbox"/>						
15M	<input type="checkbox"/>						
12M	<input type="checkbox"/>						
10M	<input type="checkbox"/>						
6M	<input type="checkbox"/>						

5-band WAZ

Realtime Award Progress

What's Been QRV that I Need?

SpotCollector 7.6.6 @ 2017-04-16 19:45 Z [CC,DXK,DXV,PV,WW] 5 entries (log: AA6YQ.mdb)

WV 04-16 1805 Z

SFI 73 History

Call: 14,085.0 Freq Cluster

Spot source status: [6 green circles]

Notes: X Local

Report Stats Prop Config Help

	Need	Call	Prefix	Band	Mode	FirstTime	LastTime	Freq	QSO	Pri	CQ	IOTA	DXGrid	ODX	EU	AF	SA	NA-E	NA-M	NA-W	AS	OC	SP SNR	SP P	LP SNR	LP P	
	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	

Sort: First Call Last Freq Rcv Az

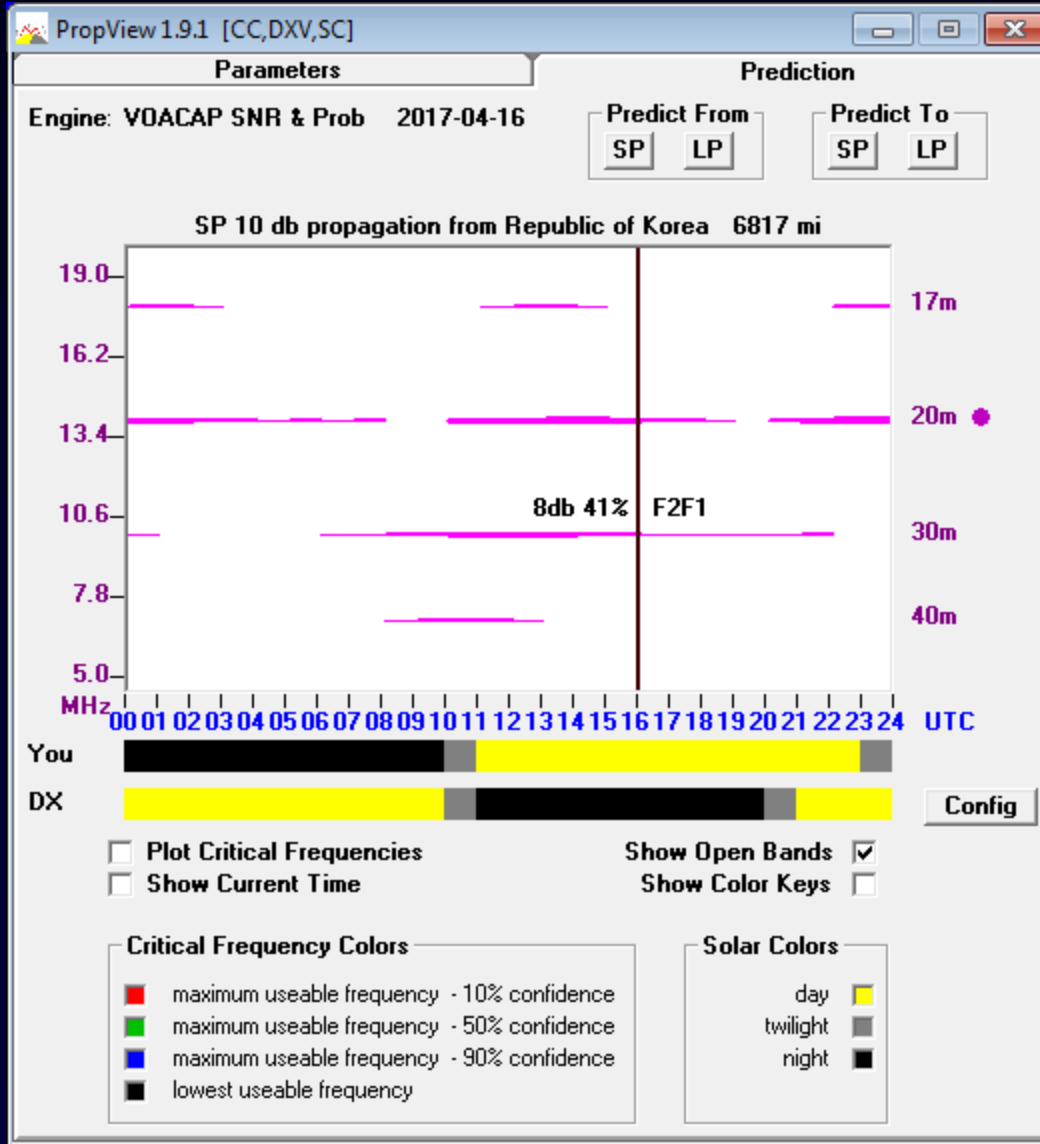
Filter: Band and Mode and Origin and [Unconfirmed DXCC, Marathon, YUCC, WAS]

Filter buttons: AH, Need, Call, DXCC, Freq, Tag, Band, Mode, Cont, Origin

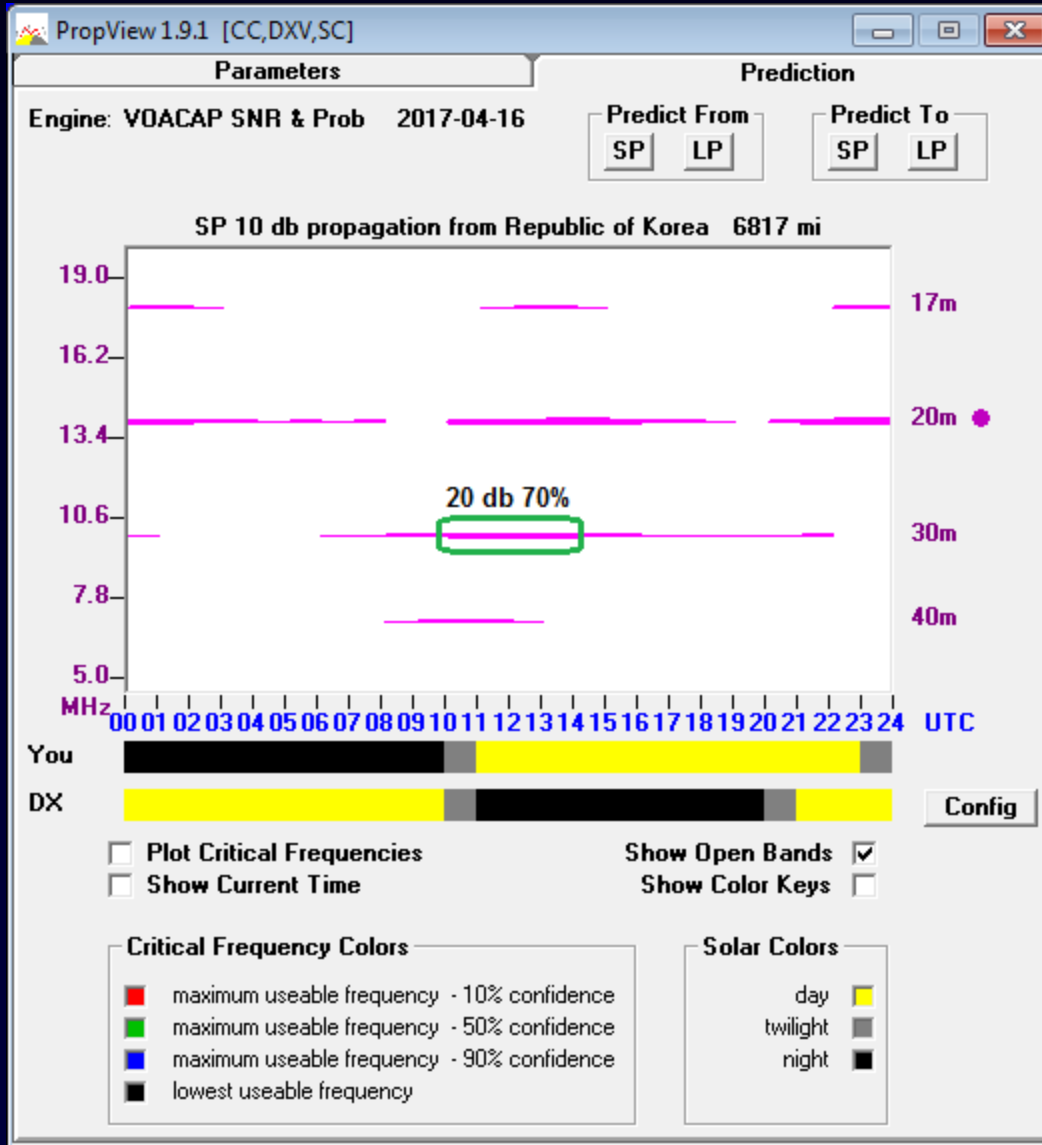
Color codes:
 [green] verified [red] unwrkd B or M [yellow] LotW
 [black] unneeded [red] unwrkd counter [pink] eQSL AG
 [blue] unconfmd [magenta] special tag [cyan] LotW & eQSL AG

Is HL on 30m a plausible target ?

Check Propagation to HL on 30m



Check Propagation to HL on 30m



Check for Gray-Line Openings to HL

DXView Sunrise/Sunset @ 20:16:39 Z

DX Auto update

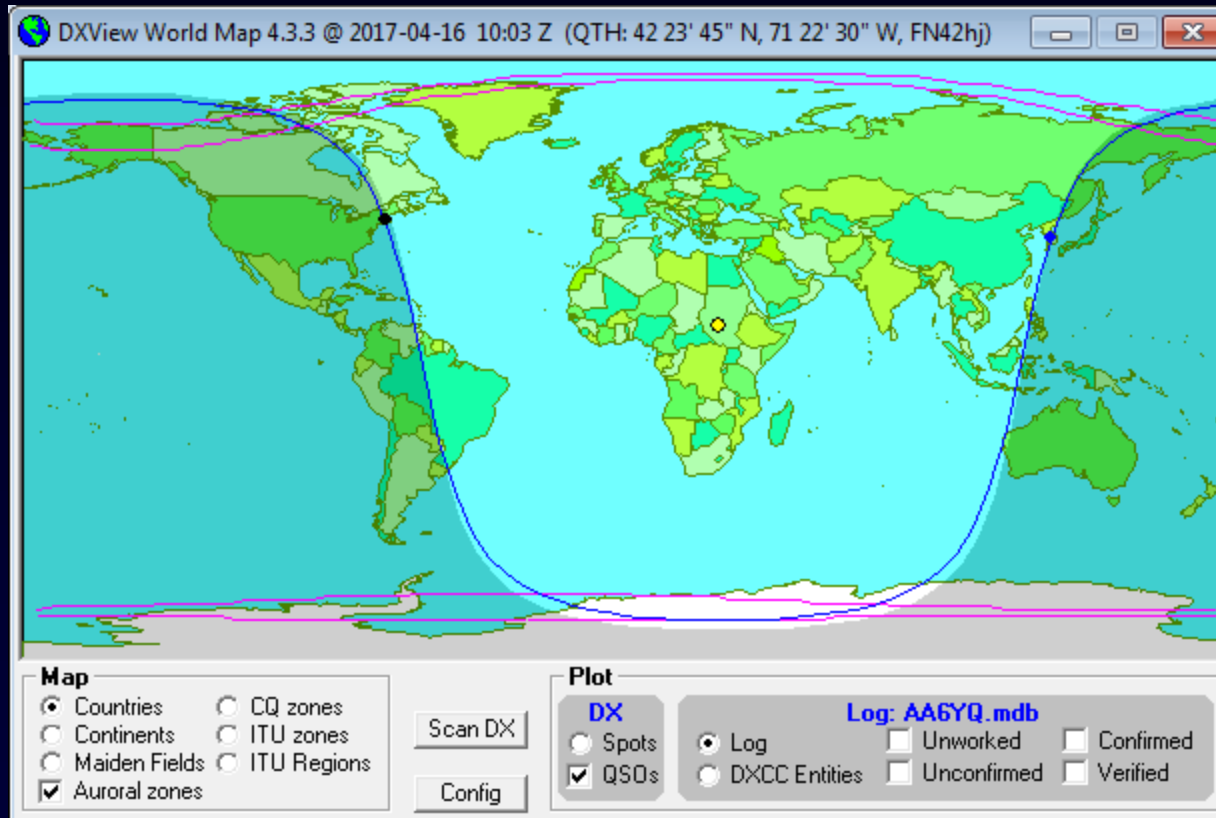
Latitude Longitude Starting Date Selected Time

Sun rise & set
 Gray-Line

QTH-DX Gray-line (GL) Paths

Date	Sunrise GL Start	Sunrise GL End	Sunset GL Start	Sunset GL End
2017-04-16	09:33	10:33		
2017-04-17	09:34	10:31		
2017-04-18	09:35	10:30		
2017-04-19	09:36	10:28		
2017-04-20	09:37	10:27		
2017-04-21	09:37	10:25		
2017-04-22	09:38	10:24		
2017-04-23	09:39	10:22		

Check for Gray-Line Openings to HL



The Plan:

Focus on 30m from 10Z to 14Z (7pm to 11 pm Korean time)

Finding and Working Needed DX

1. What's been QRV that I need?
2. Working Mount Athos

Working Mount Athos

2013

The screenshot shows the ClubLog website interface from 2013. The navigation bar includes Home, About, Settings, Upload, Donate, Expeditions, and Help. The left sidebar lists various tools and reports. The main content area is titled "DXCC Most Wanted List" and contains a table of entities ranked by the percentage of users who worked them. The table has columns for Rank, Prefix, Entity Name, and % Users. The entity "MOUNT ATHOS" with prefix "SVIA" is highlighted in red at rank 26.

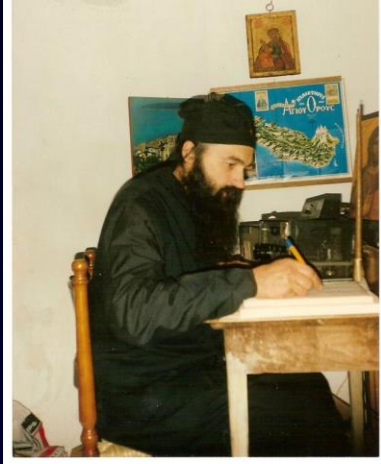
Rank	Prefix	Entity Name	% Users
1.	KP1	NAVASSA ISLAND	87.83
2.	P5	DPRK (NORTH KOREA)	86.65
3.	3Y/B	BOUVET ISLAND	83.68
4.	VP8S	SOUTH SANDWICH ISLANDS	83.30
5.	FT5W	CROZET ISLAND	82.86
6.	FT5Z	AMSTERDAM & ST PAUL ISLANDS	82.50
7.	VK0H	HEARD ISLAND	82.43
8.	KH5K	KINGMAN REEF	80.87
9.	FR/T	TROMELIN ISLAND	80.72
10.	FR/U	JUAN DE NOVA, EUROPA	80.43
11.	VP8G	SOUTH GEORGIA ISLAND	78.67
12.	KH5	PALMYRA & JARVIS ISLANDS	78.51
13.	KH1	BAKER HOWLAND ISLANDS	78.06
14.	ZS8	PRINCE EDWARD & MARION ISLANDS	76.89
15.	KH9	WAKE ISLAND	76.81
16.	BV9P	PRATAS ISLAND	76.28
17.	CE0X	SAN FELIX ISLANDS	76.27
18.	KH3	JOHNSTON ISLAND	75.99
19.	VK0M	MACQUARIE ISLAND	75.92
20.	BS7H	SCARBOROUGH REEF	75.37
21.	E3	ERITREA	75.28
22.	KH7K	KURE ISLAND	75.15
23.	FT5X	KERGUELEN ISLAND	73.01
24.	XZ	MYANMAR	72.35
25.	VK9M	MELLISH REEF	72.28
26.	SVIA	MOUNT ATHOS	72.10
27.	T33	BANABA ISLAND	71.96
28.	JD/M	MINAMI TORISHIMA	69.61
29.	EZ	TURKMENISTAN	69.08
30.	3Y/P	PETER 1 ISLAND	69.05
31.	FR/G	GLORIOSO ISLAND	68.63

2017

The screenshot shows the ClubLog website interface from 2017. The navigation bar includes Home, Settings, Upload, OQRS, Donate, Expeditions, and Help. The left sidebar lists various tools and reports. The main content area is titled "DXCC Most Wanted List" and contains a table of entities ranked by the percentage of users who worked them. The table has columns for Rank, Prefix, Entity Name, and % Users. The entity "MOUNT ATHOS" with prefix "SVIA" is highlighted in red at rank 14.

Rank	Prefix	Entity Name	% Users
1.	P5	DPRK (NORTH KOREA)	
2.	3Y/B	BOUVET ISLAND	
3.	FT5/W	CROZET ISLAND	
4.	KH1	BAKER HOWLAND ISLANDS	
5.	BS7H	SCARBOROUGH REEF	
6.	CE0X	SAN FELIX ISLANDS	
7.	BV9P	PRATAS ISLAND	
8.	KH3	JOHNSTON ISLAND	
9.	VK0M	MACQUARIE ISLAND	
10.	KH7K	KURE ISLAND	
11.	FT5/X	KERGUELEN ISLAND	
12.	FT/G	GLORIOSO ISLAND	
13.	3Y/P	PETER 1 ISLAND	
14.	SVIA	MOUNT ATHOS	
15.	YV0	AVES ISLAND	
16.	ZS8	PRINCE EDWARD & MARION ISLANDS	
17.	T31	CENTRAL KIRIBATI	
18.	EZ	TURKMENISTAN	
19.	VP8S	SOUTH SANDWICH ISLANDS	
20.	KH4	MIDWAY ISLAND	
21.	VP8O	SOUTH ORKNEY ISLANDS	
22.	JD/M	MINAMI TORISHIMA	
23.	KH5	PALMYRA & JARVIS ISLANDS	
24.	VK0H	HEARD ISLAND	
25.	PY0T	TRINDADE & MARTIM VAZ ISLANDS	
26.	PY0S	SAINT PETER AND PAUL ROCKS	
27.	FT/J	JUAN DE NOVA, EUROPA	
28.	YK	SYRIA	
29.	VP8G	SOUTH GEORGIA ISLAND	
30.	VK9M	MELLISH REEF	
31.	VP6/D	DUICIE ISLAND	

Working Mount Athos: 2013 (SSN = 60)



- Monk Apollo, SV2ASP/A
- resident of the Monastery of Docheiariou, with a heavy workload
- works all HF bands in SSB, RTTY, PACTOR, AMTOR, and CW
 - uses a 3-element SteppIR antenna
 - employs 200 hz shift in RTTY

Check Spots

SpotCollector 6.4.7 @ 2013-05-12 20:50 Z [CC,DXK,DXV,PV] (log: test.mdb)

WWV 05-12 1811 Z

SFI 137 History

Q: 0 A 4 2 K

Outgoing Spot (notes saved)

Call: [] 14,210.5 Freq Cluster

Notes: [] X Local

Spot source status: [] [] [] [] [] []

Report Stats Prop Config Help

Call	Prefix	Region	ODX	Freq	QSY	QSX	FirstTime	LastTime	Band	Mode	CQ	IOTA
SV2ASP/A	SV-A	Mount Athos	2473	18 137.0		18,141.0	10 1435	10 1527	17M	SSB	20	

QSY to 18137.0 with QSY 18141.0 in SSB for SV2ASP/A
 QSY to 18137.0 in SSB for SV2ASP/A
 Rotate to short path heading for SV2ASP/A
 Rotate to long path heading for SV2ASP/A
 Lookup SV2ASP/A (prev QSOs, DX info)
 Display Award Tracking for SV2ASP/A
Display spots of SV2ASP/A near 18137.0 in SSB
 Display entries near 18137.0
 Predict short path propagation for SV2ASP/A
 Predict long path propagation for SV2ASP/A
 Create an override for SV2ASP/A
 Hide SV2ASP/A on 18137.0 in SSB
 Delete SV2ASP/A on 18137.0 in SSB
 Copy to Windows Clipboard
 Enable Autoscroll

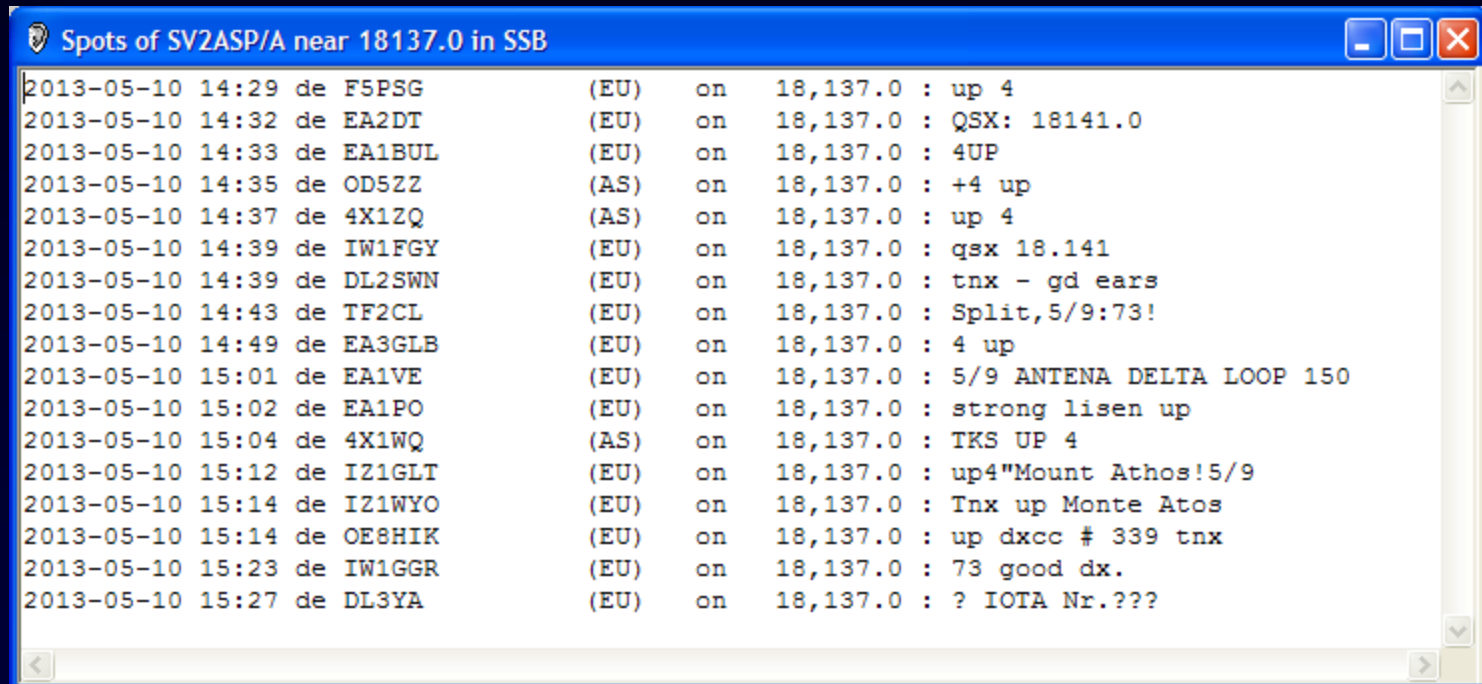
Sort

First
 Last
 Rcv

DXCC Freq Tag Band Mode Cont Origin

X Mode digital X need NoK multiline last 3 nr SV/A

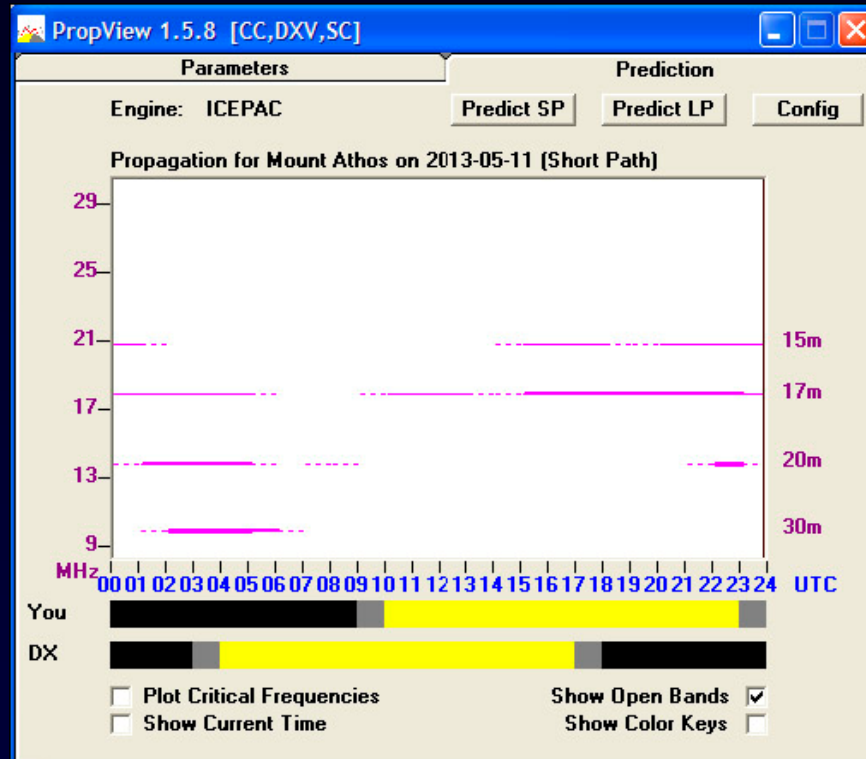
Check Spots



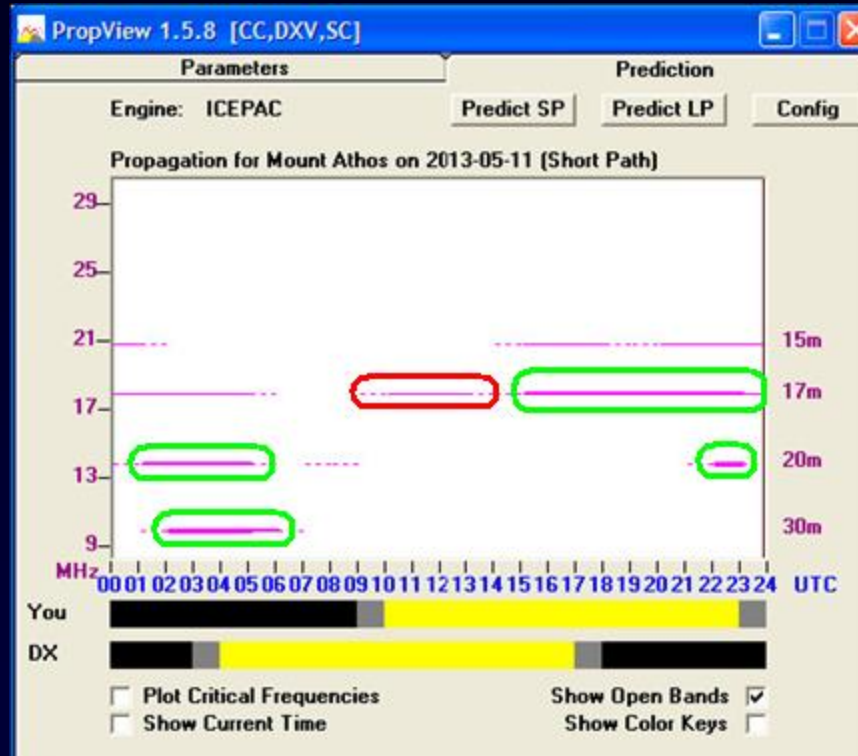
Date	Time	Call Sign	Region	Status	Frequency	Message
2013-05-10	14:29	de F5PSG	(EU)	on	18,137.0	: up 4
2013-05-10	14:32	de EA2DT	(EU)	on	18,137.0	: QSX: 18141.0
2013-05-10	14:33	de EA1BUL	(EU)	on	18,137.0	: 4UP
2013-05-10	14:35	de OD5ZZ	(AS)	on	18,137.0	: +4 up
2013-05-10	14:37	de 4X1ZQ	(AS)	on	18,137.0	: up 4
2013-05-10	14:39	de IW1FGY	(EU)	on	18,137.0	: qsx 18.141
2013-05-10	14:39	de DL2SWN	(EU)	on	18,137.0	: tnx - gd ears
2013-05-10	14:43	de TF2CL	(EU)	on	18,137.0	: Split,5/9:73!
2013-05-10	14:49	de EA3GLB	(EU)	on	18,137.0	: 4 up
2013-05-10	15:01	de EA1VE	(EU)	on	18,137.0	: 5/9 ANTENA DELTA LOOP 150
2013-05-10	15:02	de EA1PO	(EU)	on	18,137.0	: strong lisen up
2013-05-10	15:04	de 4X1WQ	(AS)	on	18,137.0	: TKS UP 4
2013-05-10	15:12	de IZ1GLT	(EU)	on	18,137.0	: up4"Mount Athos!5/9
2013-05-10	15:14	de IZ1WYO	(EU)	on	18,137.0	: Tnx up Monte Atos
2013-05-10	15:14	de OE8HIK	(EU)	on	18,137.0	: up dxcc # 339 tnx
2013-05-10	15:23	de IW1GGR	(EU)	on	18,137.0	: 73 good dx.
2013-05-10	15:27	de DL3YA	(EU)	on	18,137.0	: ? IOTA Nr.???

- Consistently “up 4”? slugfest
- EU spotters in DL, EA, F, I, OE, TF
- AS spotters in 4X and OD

Forecast Propagation



Forecast Propagation



- 17m @ 14Z opening looks thin
- Stronger openings
 - 17m after 15Z
 - 20m, 30m

Check "Actual" Propagation

No NCDXF Beacons are Close to SV-A

PropView Beacon Monitor @ 21:11:00 12-May-2013 [CC,DXV,SC]

Monitor

Enable QSY Map Predict

Band

20m
 17m
 15m
 12m
 10m

Beacons

4S7B KH6WD VK6RBP
 4U1UN LU4AA VR2B
 4X6TU OA4B W6WX
 5Z4B OH2B YV5B
 CS3B RR90 ZL6B
 JA2IGY VE8AT ZS6DN

Octant

315 0
 270 45
 225 90
 180 135

Rotate

Transceiver

0 Offset (Hz)

Beacon Schedule (2 cycles)

Time	Call	City	DXCC Country	Freq (khz)	SP	Dist (mi)
0	4X6TU	Tel Aviv	Israel	14100	55	5487
10	4X6TU	Tel Aviv	Israel	18110	55	5487
20	4X6TU	Tel Aviv	Israel	21150	55	5487
30	4X6TU	Tel Aviv	Israel	24930	55	5487
40	4X6TU	Tel Aviv	Israel	28200	55	5487
50						
60						
70						
80						
90						
100						
110						
120						
130						
140						
150						
160						
170						

Check “Actual” Propagation

Who Near Me has been Spotting Stations Near SV-A?

Define a “near SV-A” filter to Show Stations

- in SV-A, SV, LZ, Z3, ZA, TA1, or TA3
- spotted by stations less than 500 miles from my QTH

16

Propagation from "Near Me" to "Near SV-A"

SpotCollector 6.4.7 @ 2013-05-12 21:24 Z [CC,DXK,DXV,PV] (log: AA6YQ.mdb)

WWV 05-12 2111 Z Outgoing Spot (notes saved) Spot source status

SFI 147 History Call 14,210.5 Freq Cluster Report Stats Prop Config Help

Q: 0 A 5 1 K Notes Local

Call	Prefix	Region	ODX	Freq	QSQ	FirstTime	LastTime	Band	Mode	CQ	IOTA	Need	EU	AF	SA	NA-E	NA-M	NA-W	AS	OC
LZ1876SM	LZ	Bulgaria	399	14,012.6		09 2235	09 2235	20M	CW	20										
LZ1QI	LZ	Bulgaria	399	14,007.0		10 0143	10 0143	20M	CW	20						Y				
Z320T	Z3	Macedonia	424	14,199.9		10 0313	10 0313	20M	SSB	15						Y				
Z320T	Z3	Macedonia	51	14,200.3		10 0337	10 0344	20M	SSB	15						Y	Y			Y
LZ2LP	LZ	Bulgaria	228	14,181.4		10 0320	10 0421	20M	SSB	20						Y	Y			
LZ2KV	LZ	Bulgaria	228	14,177.5		10 0340	10 0422	20M	SSB	20						Y	Y	Y		
Z33Z	Z3	Macedonia	355	21,020.1		10 1359	10 1359	15M	CW	15						Y				
Z33A	Z3	Macedonia	355	21,008.1		10 1412	10 1439	15M	CW	15						Y				
LZ13FDAY	LZ	Bulgaria	319	24,898.1		10 1715	10 1715	12M	CW	20						Y				
LZ13DAY	LZ	Bulgaria	319	24,898.1		10 1715	10 1715	12M	CW	20						Y				
Z320T	Z3	Macedonia	80	21,277.0	21,332.0	10 1719	10 1739	15M	SSB	15		Y				Y		Y		
Z30U	Z3	Macedonia	355	21,019.0		10 1943	10 1943	15M	CW	15						Y				
Z30U	Z3	Macedonia	275	18,078.0		10 2040	10 2040	17M	CW	15						Y				
ZA/IZAJMA	ZA	Albania	155	21,250.0		10 2038	10 2119	15M	SSB	15						Y	Y	Y	Y	Y
SV36LL	SV	Peloponnese	61	21,290.0		10 1957	10 2123	15M	SSB	20		Y				Y	Y	Y	Y	Y
Z320T	Z3	Macedonia	57	21,269.0		10 2031	10 2129	15M	SSB	15		Y				Y	Y	Y		
LZ2LP	LZ	Bulgaria	491	14,182.5		10 2256	10 2341	20M	SSB	20		Y				Y				
Z320E	Z3	Macedonia	353	10,119.0		11 0148	11 0150	30M	CW	15						Y				
Z320E	Z3	Macedonia	189	14,033.1		11 0125	11 0219	20M	CW	15						Y		Y		
TA3D	TA	Turkey (Asia)	137	7,014.0		11 0234	11 0244	40M	CW	20						Y				
TA3DT	TA	Turkey (Asia)	355	7,013.8		11 0244	11 0244	40M	CW	20						Y				
SV3AGR	SV	Peloponnese	21	18,150.0		11 0019	11 0306	17M	SSB	20						Y	Y	Y	Y	Y
TA3AX	TA	Turkey (Asia)	355	10,124.9		11 0434	11 0434	30M	CW	20						Y				
TA3AX	TA	Turkey (Asia)	355	10,104.9		11 0508	11 0508	30M	CW	20						Y				
Z320T	Z3	Macedonia	228	14,202.3		11 0549	11 0602	20M	SSB	15		Y				Y				
Z33A	Z3	Macedonia	355	21,008.0		11 0609	11 0609	15M	CW	15						Y				
SZ7SER	SV	e & East Macedonia	80	18,130.0		11 1232	11 1303	17M	SSB	20		Y				Y				
LZ6K	LZ	Bulgaria	155	21,098.5		11 1307	11 1307	15M	RTTY	20						Y				
Z320R	Z3	Macedonia	231	21,047.8		11 1310	11 1328	15M	CW	15		Y				Y				
LZ6K	LZ	Bulgaria	296	21,086.9		11 1514	11 1538	15M	RTTY	20						Y				
Z320N	Z3	Macedonia	473	21,108.0		11 1451	11 1551	15M	RTTY	15		Y				Y				
LZ1PT	LZ	Bulgaria	355	21,023.7		11 1644	11 1644	15M	CW	20						Y				
LZ2PT	LZ	Bulgaria	259	21,023.8		11 1648	11 1648	15M	CW	20						Y				
LZ1YQ	LZ	Bulgaria	355	21,009.2		11 1718	11 1735	15M	CW	20		Y				Y				
LZ9W	LZ	Bulgaria	228	28,032.3		11 1429	11 1743	10M	CW	20		Y				Y		Y		
LZ3ZZ	LZ	Bulgaria	329	21,266.0		11 1812	11 1814	15M	SSB	20		Y				Y				
SV2HJO	SV	I & West Macedonia	21	21,315.0		11 1855	11 1855	15M	SSB	20						Y				
SV2HJO	SV	I & West Macedonia	17	21,315.0		11 1830	11 1901	15M	SSB	20		Y				Y		Y		
ZA/IZAJMA	ZA	Albania	276	21,082.0		11 1700	11 1910	15M	RTTY	15		Y				Y				
LZ1ND	LZ	Bulgaria	355	21,033.3		11 1816	11 1922	15M	CW	20		Y				Y		Y		
SZ7SER	SV	e & East Macedonia	237	21,293.0	21,296.0	11 1848	11 1949	15M	SSB	20		Y				Y	Y	Y		
SV1QXU	SV	Sterea Ellada	103	21,263.0		11 1943	11 1958	15M	SSB	20		Y				Y				
LZ1WR	LZ	Bulgaria	228	18,077.0		11 2116	11 2116	17M	CW	20						Y				
LZ5X	LZ	Bulgaria	355	14,253.0		11 2154	11 2154	20M	SSB	20						Y				
LZ1WR	LZ	Bulgaria	188	18,160.0		11 2149	11 2204	17M	SSB	20						Y	Y			
SV26WY	SV	I & West Macedonia	135	21,315.0		11 2129	11 2212	15M	SSB	20						Y		Y	Y	
LZ6K	LZ	Bulgaria	473	7,044.5		11 2357	11 2357	40M	RTTY	20						Y				
LZ3ZX	LZ	Bulgaria	445	10,106.5		12 0305	12 0305	30M	CW	20						Y				
Z30U	Z3	Macedonia	84	10,105.9		12 0345	12 0345	30M	CW	15						Y				
LZ3LD	LZ	Bulgaria	155	10,123.4		12 0426	12 0426	30M	CW	20						Y				
SV3AGR	SV	Peloponnese	383	18,148.0		12 0309	12 0439	17M	SSB	20						Y		Y		
LZ1ND	LZ	Bulgaria	355	21,208.0		12 0522	12 0522	15M	SSB	20						Y				
Z33A	Z3	Macedonia	355	18,076.0		12 0533	12 0533	17M	CW	15						Y				
SV1NN/3	SV	Peloponnese	84	21,005.2		12 1006	12 1056	15M	CW	20		Y				Y			Y	
Z35M	Z3	Macedonia	355	21,010.1		12 1105	12 1105	15M	CW	15						Y				
LZ6K	LZ	Bulgaria	84	21,087.5		12 1107	12 1135	15M	RTTY	20		Y				Y	Y			
SV36LL	SV	Peloponnese	61	21,290.0		12 1133	12 1155	15M	SSB	20		Y				Y				

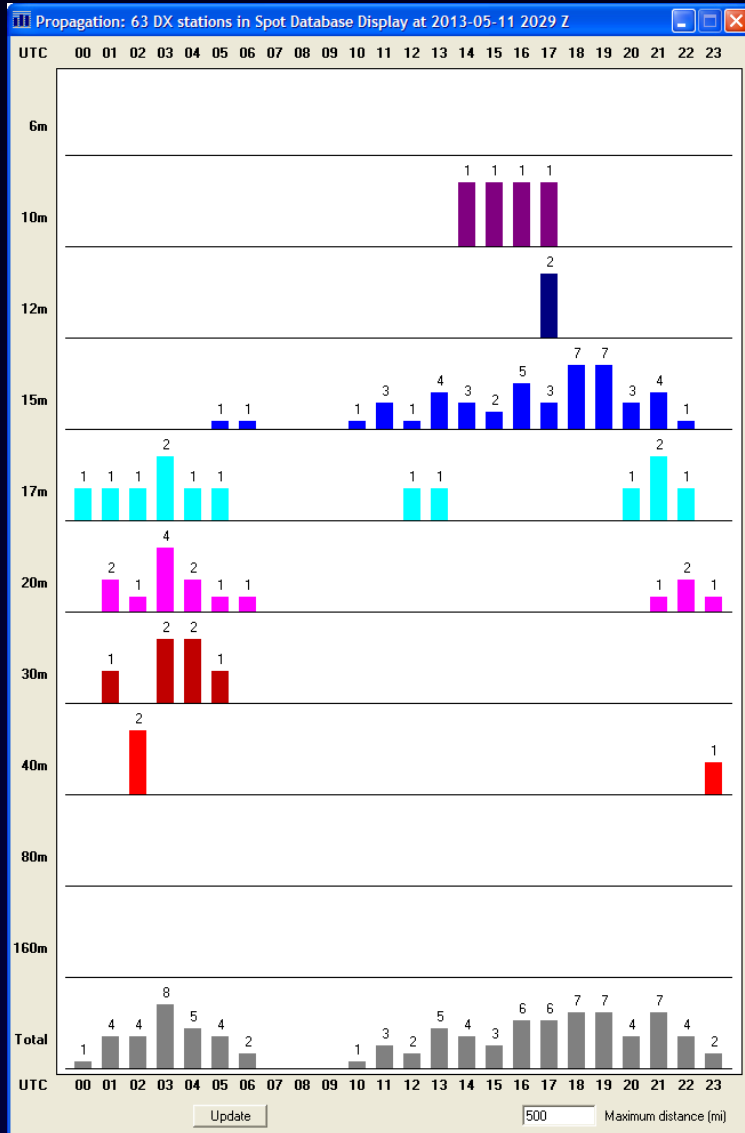
Sort: First, Last, Rev, Call, Freq, Az, AH, Need, Call, DXCC, Freq, Tag, Band, Mode, Cont, Origin

Filter: SQL (nr SV-A)

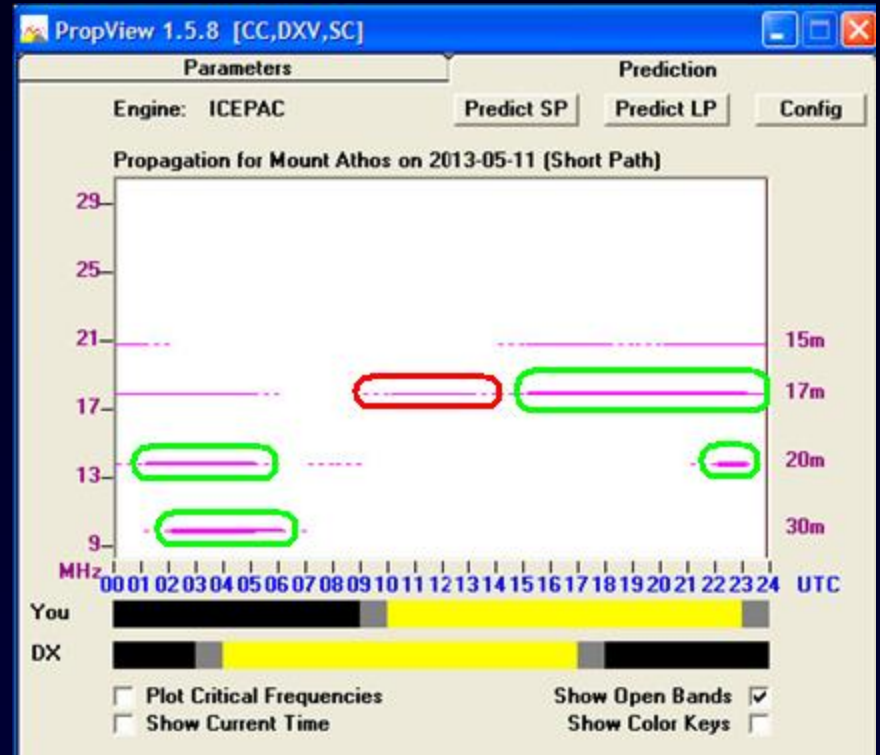
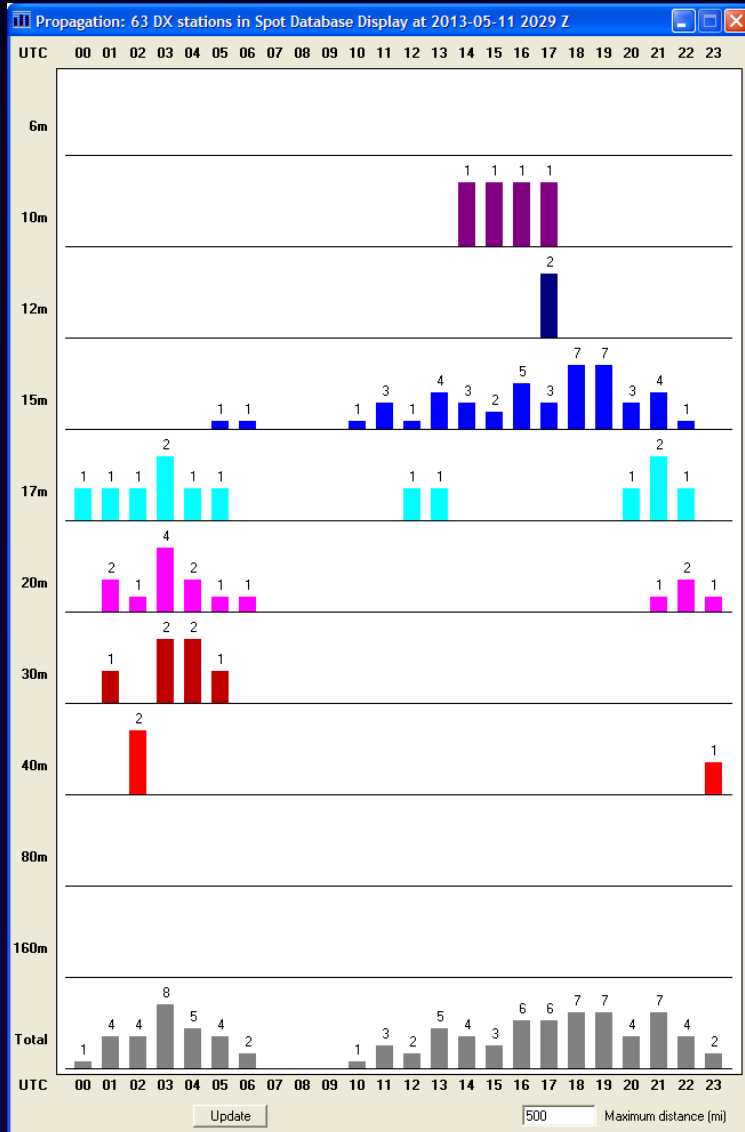
Color codes: verified, unconfm'd, unconfm'd counter, special tag, unconfm'd B or M, LoW, eQSL AG, LoW & eQSL AG

nr SV-A

Actual Propagation by Band & Time-of-Day



Compare Actual & Forecast Propagation



- 15m opening is stronger than forecast
- 17m can open as early as 12Z
- 20m is open when predicted
- 10m and 12m could support a QSO

SV2ASP/A: The Plan

1. Patrol 18120 – 18150 daily at 1400Z with antenna on SV-A
 - “Blueprint” the band with local spots
2. Employ a European DX Cluster as a Spot Source
3. Rapidly QSY when SV2ASP/A is spotted
 - Enable audio announcements
 - Double-click to QSY and set split
 - Amplifier and/or Tuner settings
4. Use dual receivers and a panadaptor to rapidly locate Monk Apollo’s listening frequency

Insert an Entry in the Spot Database

DX Spot Sources

Active DX Database

View
Generator

Log Database

DXCC needs

IOTA needs

Leaderboard needs

Marathon needs

VUCC needs

WAS needs

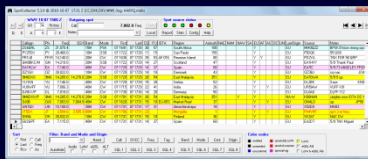
WPX needs

WAZ needs

Logged
QSOs

LotW
Database

eQSLAG
Database



Tabular Display



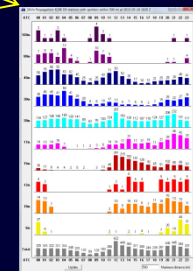
Audio & Email



World Map



Bandspread



Propagation

Insert an Entry in the Spot Database

DX Spot Sources

Active DX Database

“Local Spot”

LotW Database

eQSLAG Database

View Generator

Log Database

DXCC needs

IOTA needs

Leaderboard needs

Marathon needs

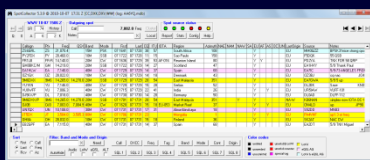
VUCC needs

WAS needs

WPX needs

WAZ needs

Logged QSOs



Tabular Display



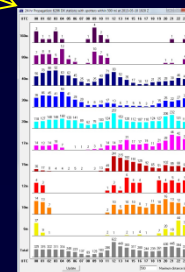
Audio & Email



World Map



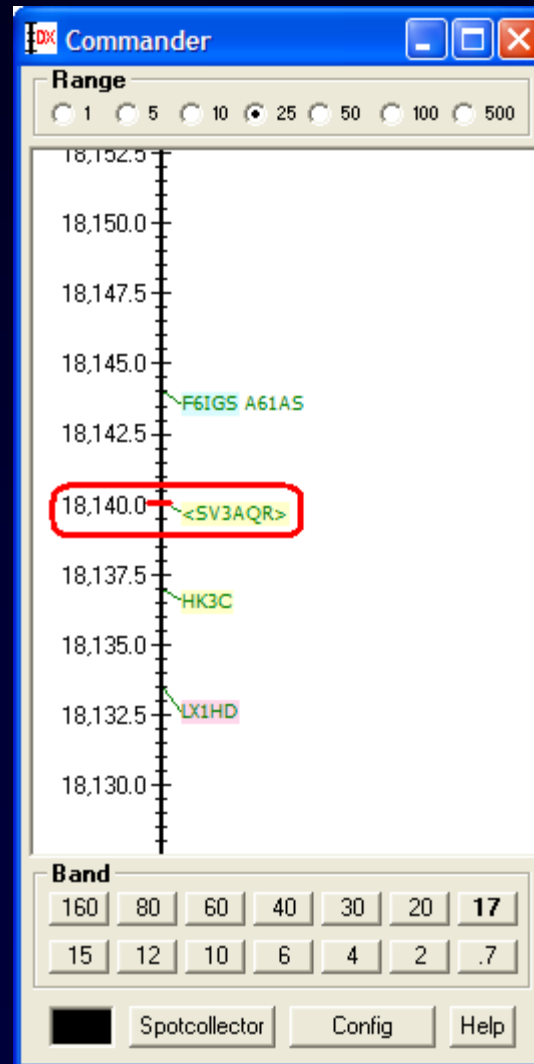
Bandspread



Propagation

Blueprinting the Band

“Locally Spot” Every Station You Identify



SV2ASP/A: the Plan

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Employ a European DX Cluster

DX Spot Sources

Active DX Database

View
Generator

Log Database

DXCC needs

IOTA needs

Leaderboard needs

Marathon needs

VUCC needs

WAS needs

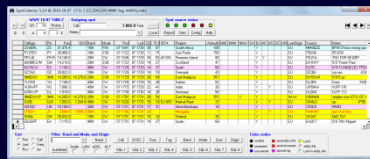
WPX needs

WAZ needs

Logged
QSOs

LotW
Database

eQSLAG
Database



Tabular Display



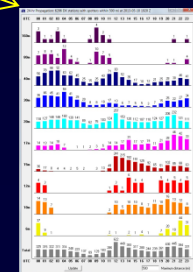
Audio & Email



World Map

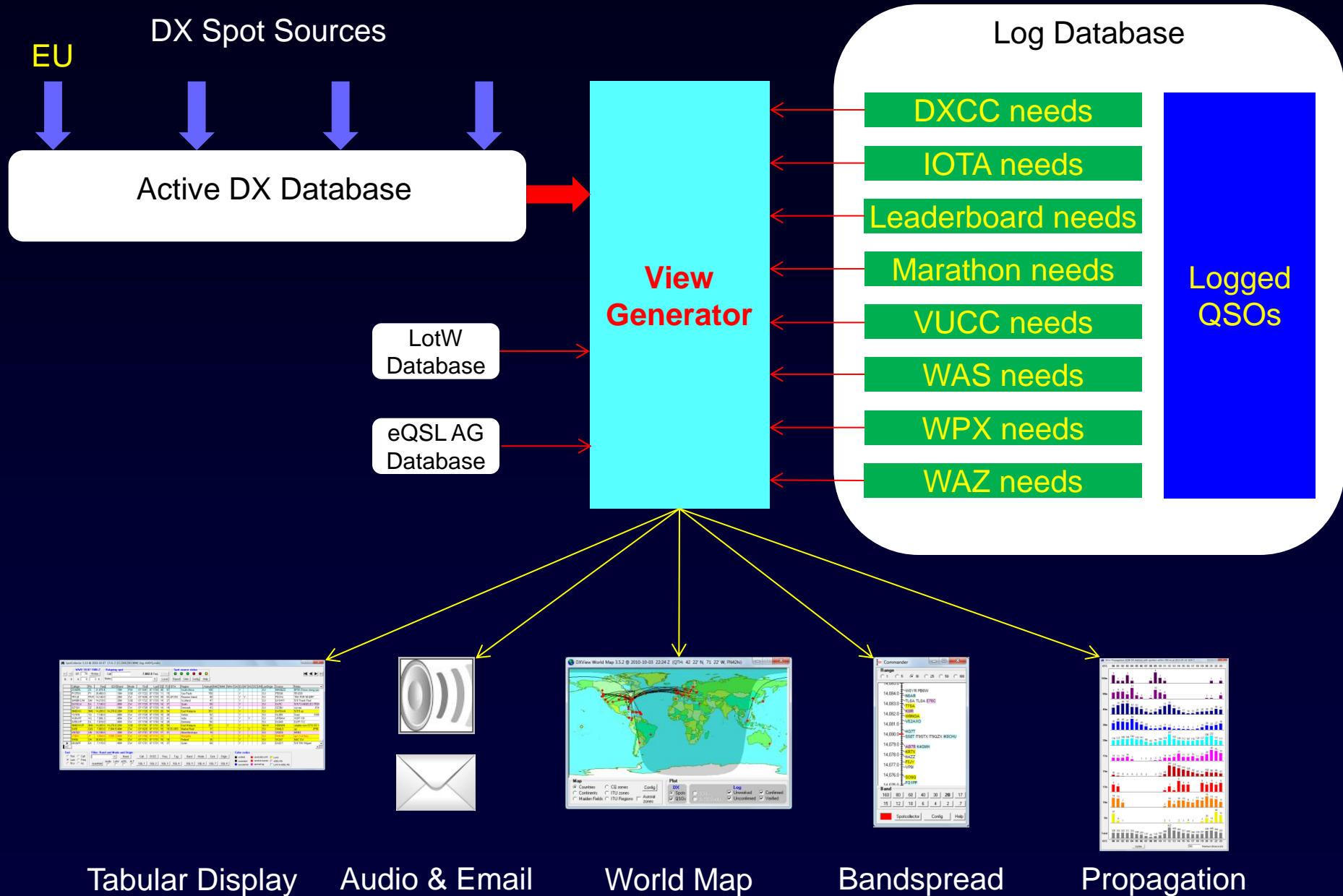


Bandspread



Propagation

Employ a European DX Cluster



SV2ASP/A: the Plan

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Main VFO: 17M S7

18,140.07

0 999

Main Sub M = S M x S XFC

IC-7800 Mark V
TS-2000
FT-817

Split
 Dual receive
 Ham bands only

Sub VFO

1 2 5 10

18,142.30

PTT: Rcvng

TX RX

Filters

Group Narrow

Width 52

PBT 1 50

PBT 2 50

AL1200

Plate 7.75 Load 3 Band 17

Mode: USB

LSB (Normal) FM (Normal)
USB (Narrow) AM (Wide)
CW (Normal) RTTY (Narrow)
CW-R (Normal) RTTY-R (Wide)
Data-L (Narrow) Data-U (Narrow)

ATR-30

Xmit Ant L

Bandspread Msgs Scan Memory Banks Config Help

User-defined Controls

ALT F5	ALT F6	ALT F7	ALT F8	ALT <input checked="" type="checkbox"/>	ALT F9	ALT F10	ALT F11	ALT F12
				SHIFT				
Slider 9	Slider 10	Slider 11	Slider 12	Slider 13	Slider 14	Slider 15	Slider 16	

SV2ASP/A: the Plan

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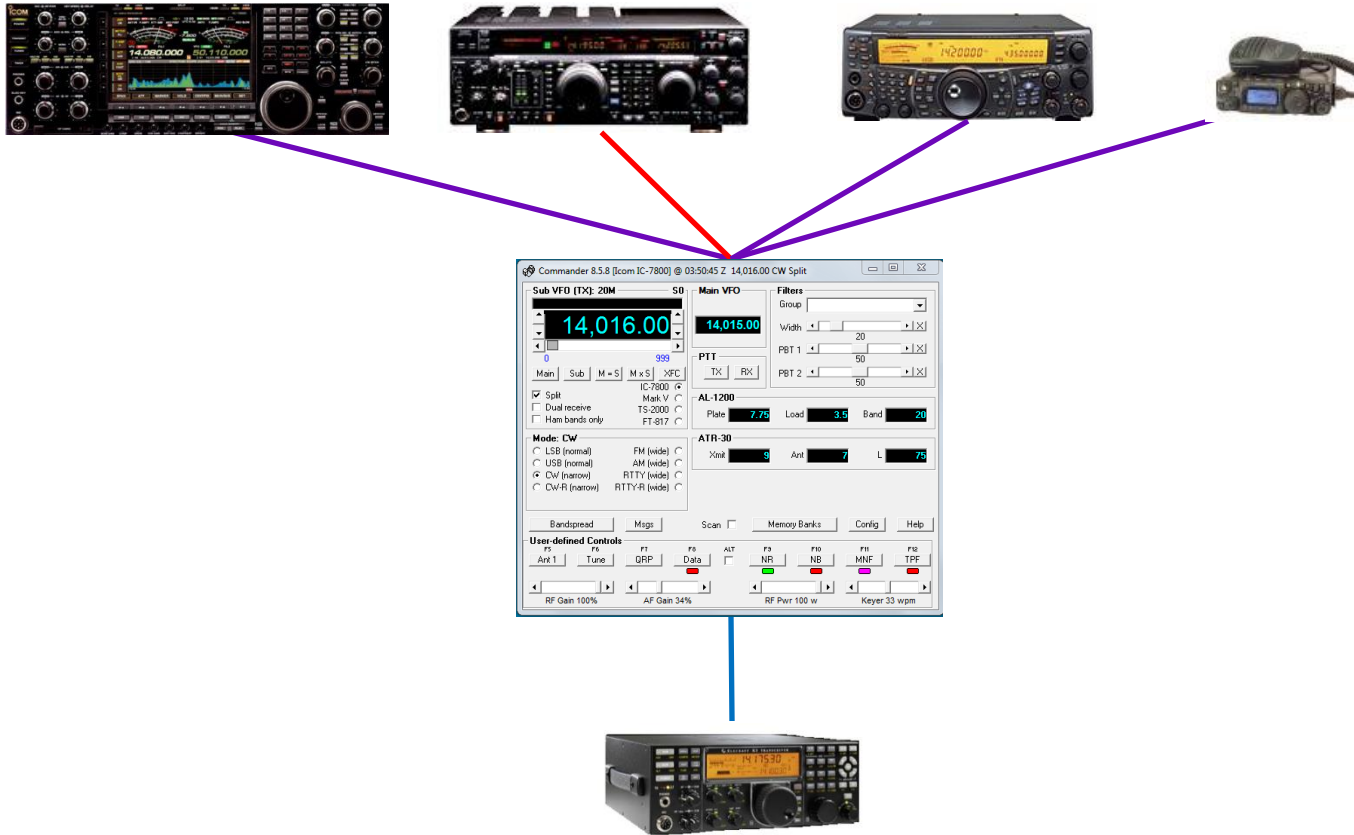
Commander: Multiple Radio Support



Select one of four *primary* radios

- By button click
- Automatically as a function of frequency

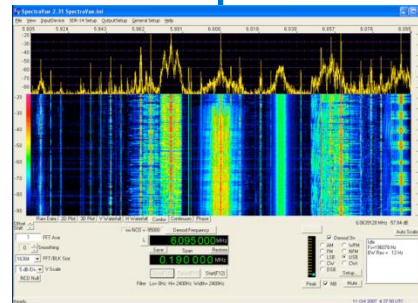
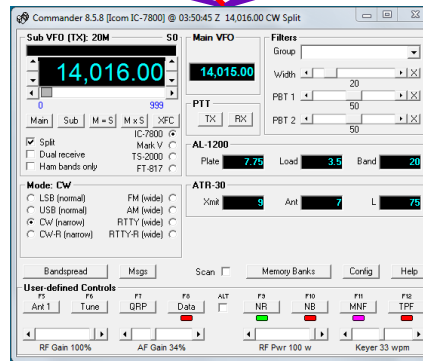
Commander: Multiple Radio Support



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
- Follow the active primary radio
 - Lead the active primary radio

SV2ASP/A: the Plan

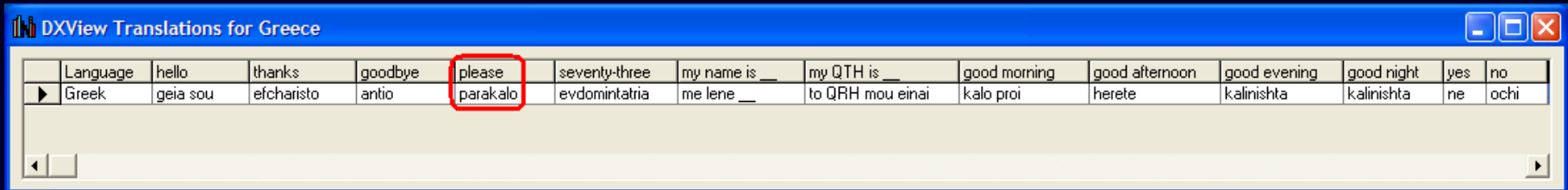
1. Watch 18120 – 18150 daily at 1400Z with antenna on SV-A
 - “Blueprint” the band with local spots
2. Employ a European DX Cluster as a Spot Source
3. Rapidly QSY when SV2ASP/A is spotted
 - Enable audio announcements
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SV2ASP/A: the Plan

One More Thing...

SV2ASP/A: the Plan

One More Thing...



Language	hello	thanks	goodbye	please	seventy-three	my name is __	my QTH is __	good morning	good afternoon	good evening	good night	yes	no
▶ Greek	geia sou	efcharisto	antio	parakalo	evdomintatria	me lene __	to QRH mou einai	kalo proi	herete	kalinishta	kalinishta	ne	ochi

In a phone pileup, call

AA6YQ parakalo

DXing With DXLab

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

www.dxlabsuite.com

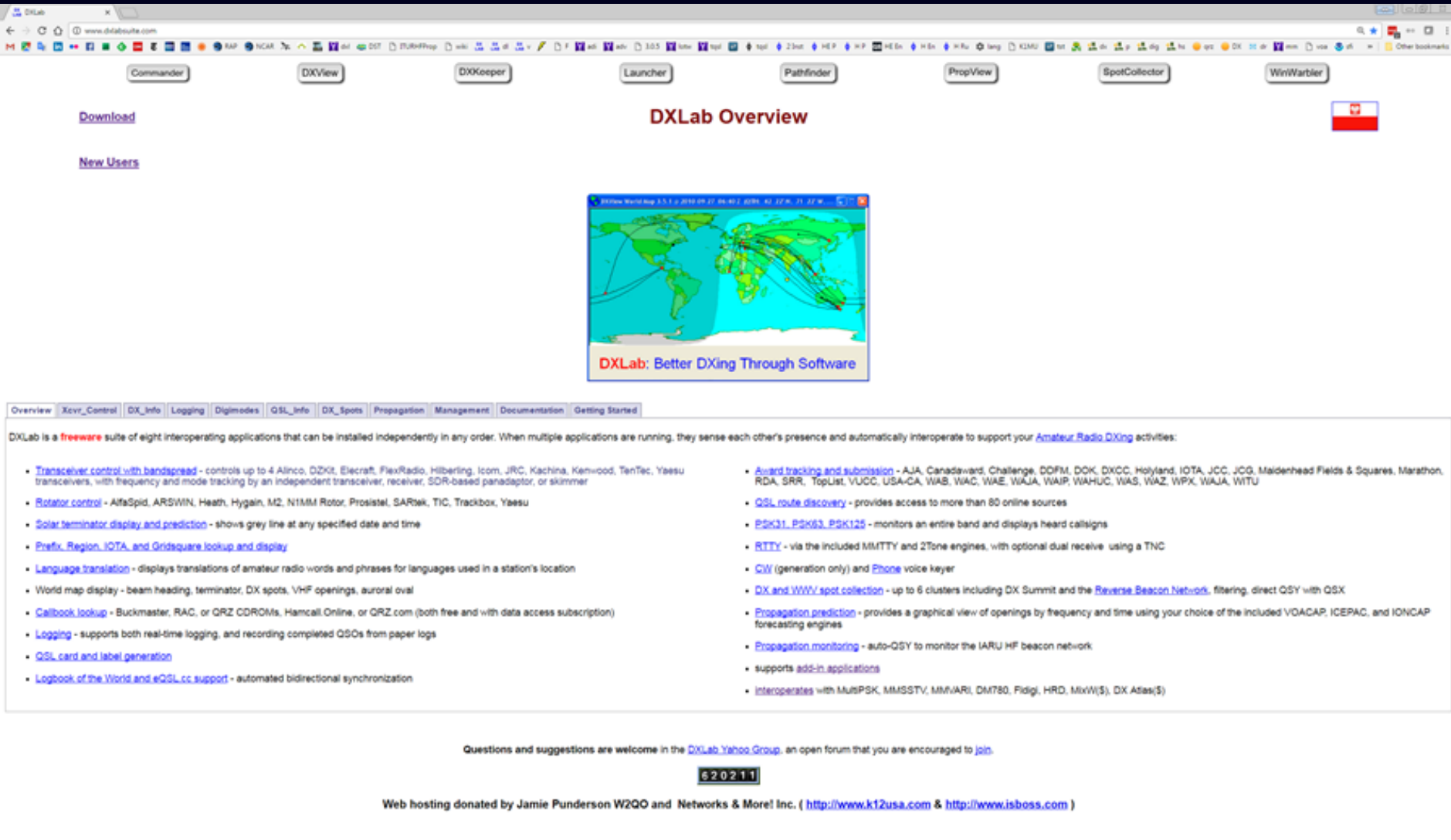
DXLab

Commander DXView DXKeeper Launcher Pathfinder PropView SpotCollector WinWarbler

[Download](#)

[New Users](#)

DXLab Overview



DXLab World Map 3.5.1 © 2010-09-27, 06:40 Z, 2010, 62, 22 W, 31, 22 W

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, DZKK, Elecraft, FlexRadio, Hiberling, Icom, JRC, Kachina, Kenwood, TenTec, Yaesu transceivers, with frequency and mode tracking by an independent transceiver, receiver, SDR-based panadapter, or skimmer
- [Rotor control](#) - AlfaSpid, ARSWIN, Heath, Hygain, M2, N1MM Rotor, Proslstel, 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 a station's location
- World map display - beam heading, terminator, DX spots, VHF openings, auroral oval
- [Callbook lookup](#) - Buckmaster, RAC, or QRZ CDROMs, Hamcall Online, or QRZ.com (both free and with data access subscription)
- [Logging](#) - supports both real-time logging, and recording completed QSOs from paper logs
- [QSL card and label generation](#)
- [Logbook of the World and eQSL.cc support](#) - automated bidirectional synchronization
- [Award tracking and submission](#) - AJA, Canadaward, Challenge, DDFM, DOK, DXCC, Holyland, IOTA, JCC, JCG, Maidenhead Fields & Squares, Marathon, RDA, SRR, TopList, VUCC, USA-CA, WAB, WAC, WAE, WAJA, WAIP, WAHUC, WAS, WAZ, WPX, WAJA, WITU
- [QSL route discovery](#) - provides access to more than 80 online sources
- [PSK31, PSK63, 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 [Ephone](#) voice keyer
- [DX and WWW! spot 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, and IONCAP forecasting engines
- [Propagation monitoring](#) - auto-QSY to monitor the IARU HF beacon network
- supports [add-in applications](#)
- [Interoperates](#) with MultiPSK, MMSSTV, MMVARI, DM780, Fldigi, HRD, MixW(\$), DX Atlas(\$)

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

6 2 0 2 1 1

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

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

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

WVWV 10-04 1806 Z

Outgoing spot: Call 14,086.2 Freq Cluster

Callsign	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 19:59	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 19:59	CQ 16 dB 13 WPM					Y					EU	DL5Q-#
LA3TQ	LA	14,017.8	20M	CW	10/4/2010 19:59	CQ 18 dB 23 WPM					Y					EU	S5ZK-#
IK0RCD	I	14,025.6	20M	CW	10/4/2010 19:59	CQ 13 dB 18 WPM	Y	Y	Y							NA-M	K8ND-#
9A/SP9EVP	9A	7,017.0	40M	CW	10/4/2010 19:59	CQ 21 dB 26 WPM					Y					EU	DL5Q-#
UA9MA	UA0	1,822.5	160M	CW	10/4/2010 19:59	CQ 10 dB 25 WPM					Y					EU	EI6IZ-#

DXView World Map 3.5.2 @ 2010-10-04 19:57 Z (QTH: 42 22' N, 71 22' W, FN42h)

Map: Countries, CQ zones, ITU zones, Maiden Fields, ITU Regions, Auroral zones

Plot: DX Spots, QSOs, DXCC Entities

Log: AA6YQ.mdb

Unworked, Confirmed, Unconfirmed, Verified

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

QSO Info (Receive Pane 0)

Call: EY7AD 1st R: Name: Rakhim DXCC: EY Begin: Log: Xcvr Freq: 14,086.19

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

Buro: Grid: MN30 Pri sub: Sec sub: Comment:

LotW: IOTA: Az: Path: S

QU0TH00 DX CO DX DE SV1PAS SV1PAS PSE K

DS1PAUSSVPAS DEHPFF,PD1BPSE K...

))JTCQ DX CO DX DE SV1PAS SV1PAS PSE EU00E0SCQ DX CO DX DE SV1PAS SV1PAS PSE K

S MSQVAS UV1PAS DE PD1ANB,PD1ANB PSE K...9R2,OR2,OR2 DE SV1PAS SV1PAS PSE K

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

VFO A: 20M 14,086.19

VFO B: 21,008.10

Filters: Group normal

Width: 0

PBT 1: 50

PBT 2: 50

PTT: Rcvng TX RX

AL-1200 Plate: 7.75 Load: 4 Band: 20

Mode: LSB

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

dx Commander

Range: 1 5 10 25 50 100

14,088.5

14,088.5 EI7BFB

14,087.5 EA4AHE

14,087.0

14,086.5 UR7ITU

14,086.0

14,085.5 PF7DKW

14,085.0 LX8RTTY

14,084.5 SP9GKJ

14,084.0

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

Spotcollector Config Help

Macros: rtty sample

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

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

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

RTTY transmit (soundcard) Freq: 14,084.065 net

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

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