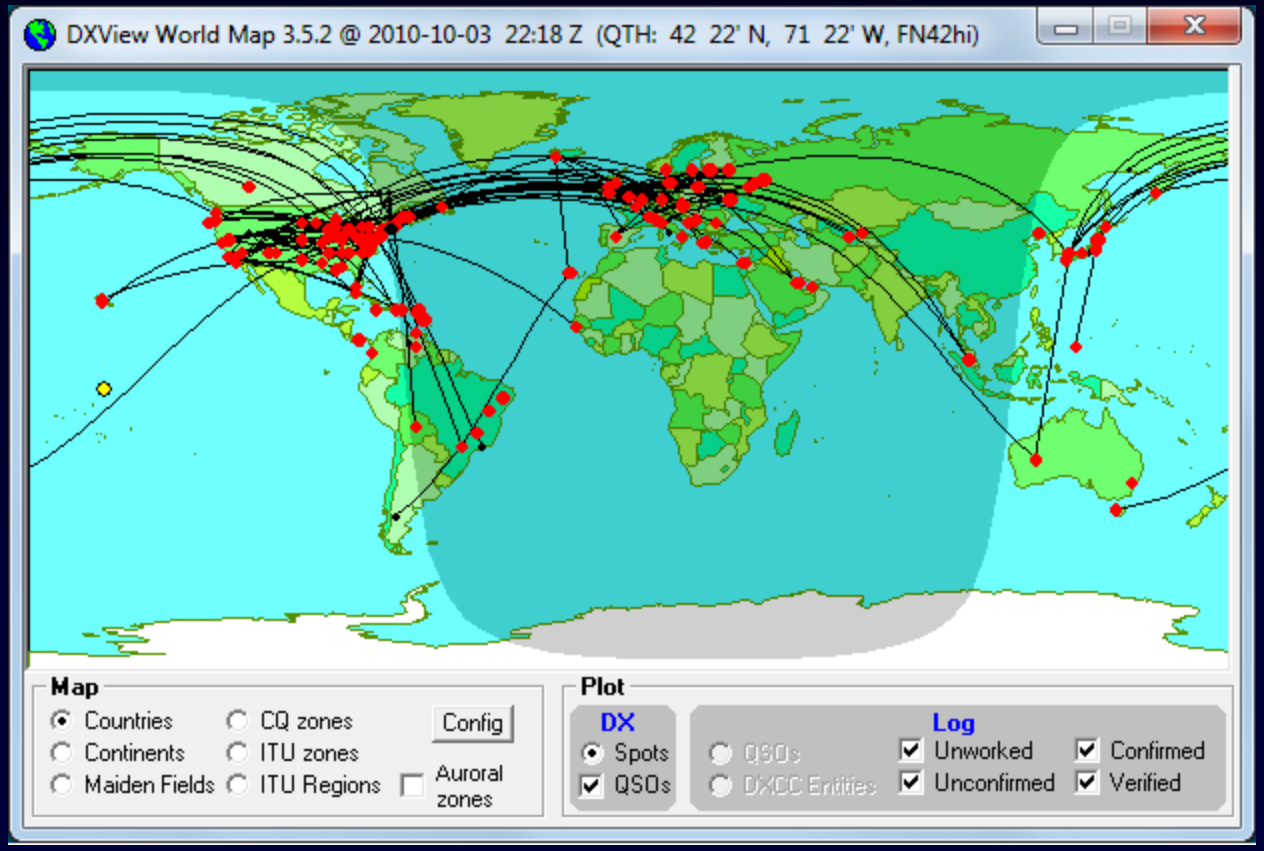
DXing with DXLab

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

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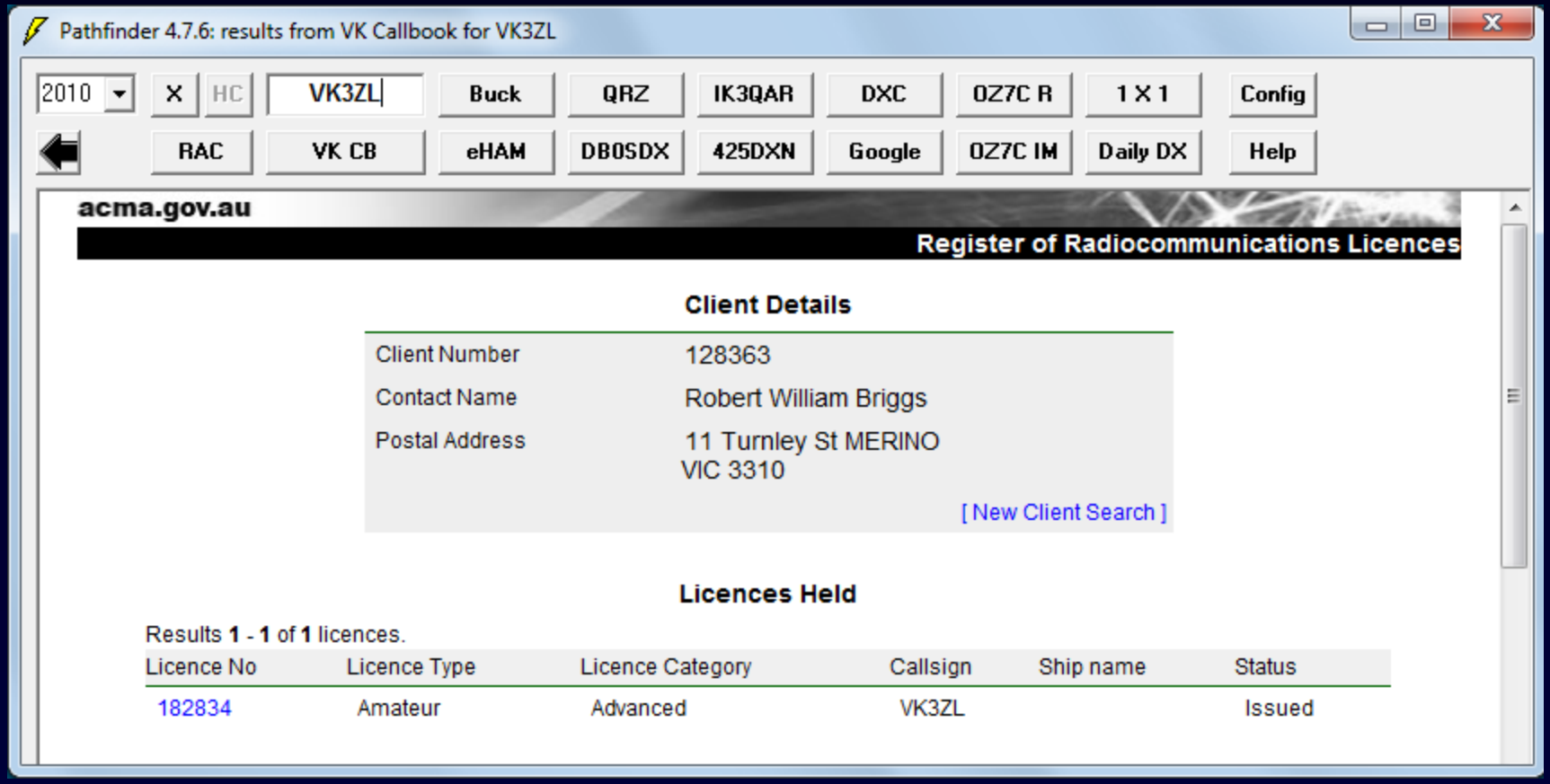
QSL Route Discovery

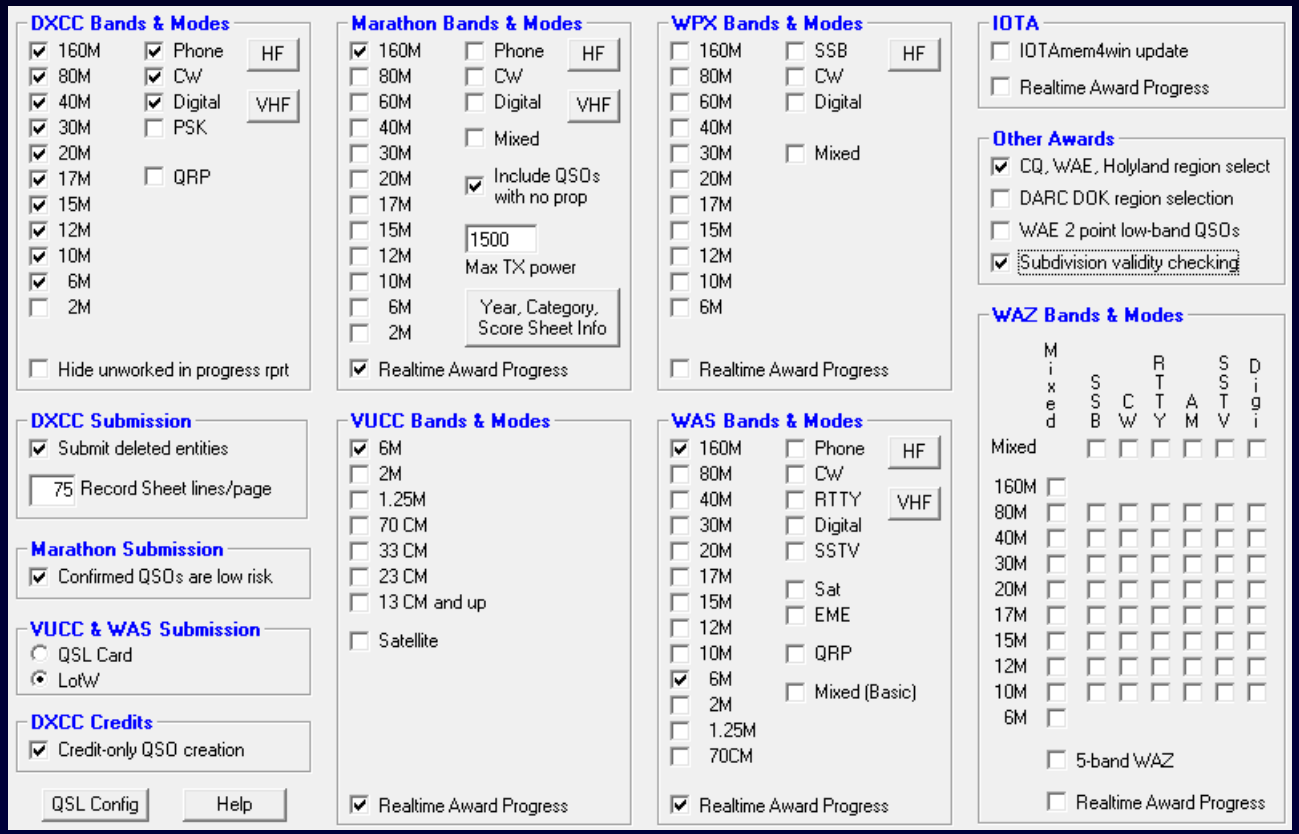


QSL Automation

- 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)

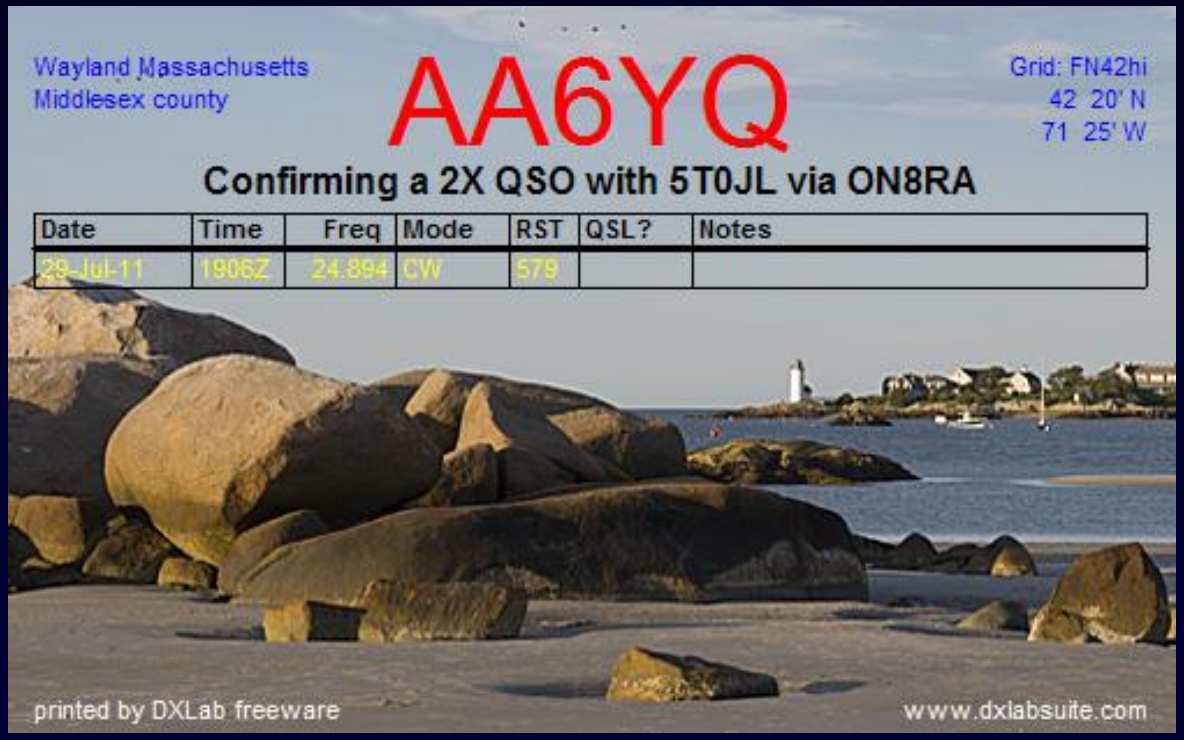
DXing Objectives

- 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

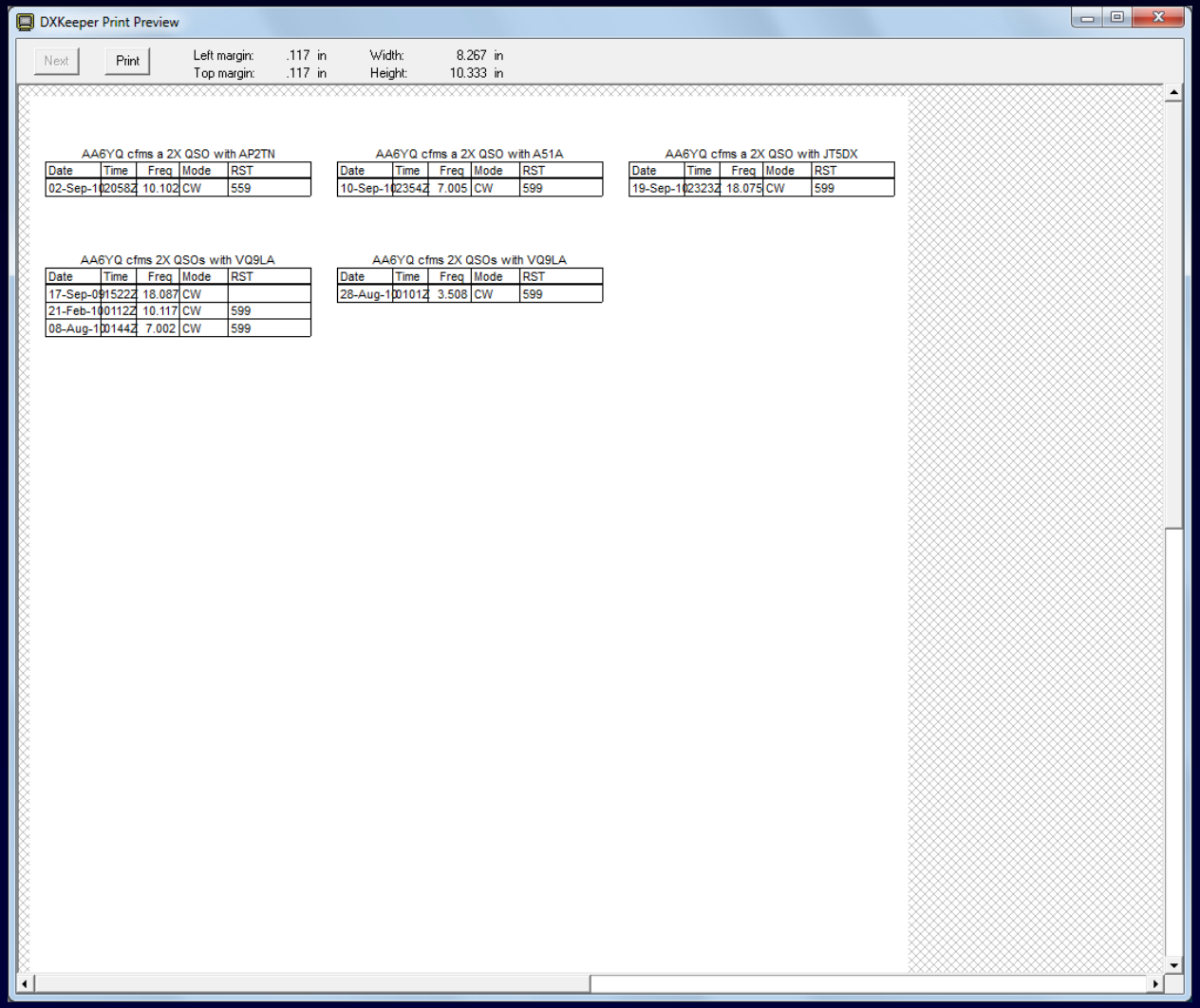


QSL Card Printing

QSL Card Printing



QSL Label Printing



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

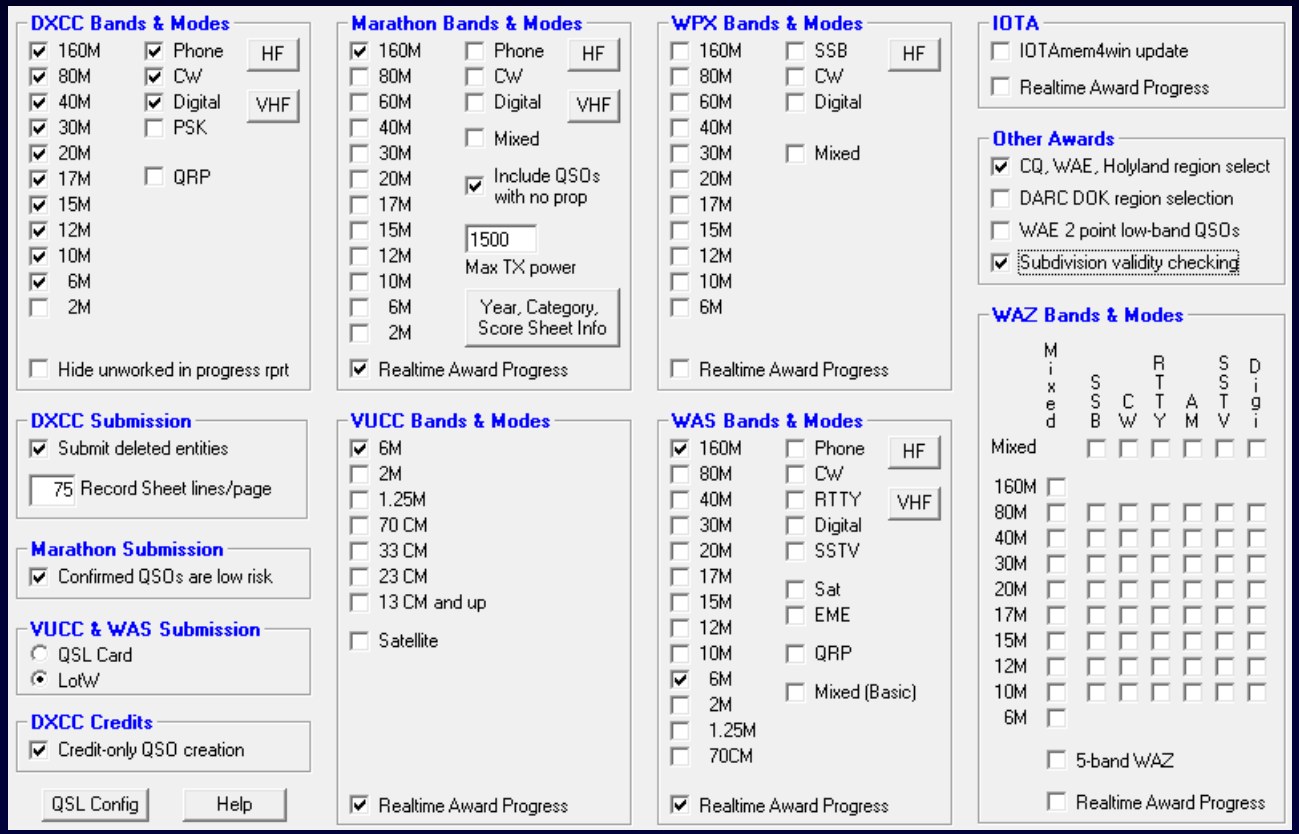
Award Tracking

- 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)



DXLab Objectives

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

DXing With DXLab

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the DXLab Suite

Eight free applications that run individually

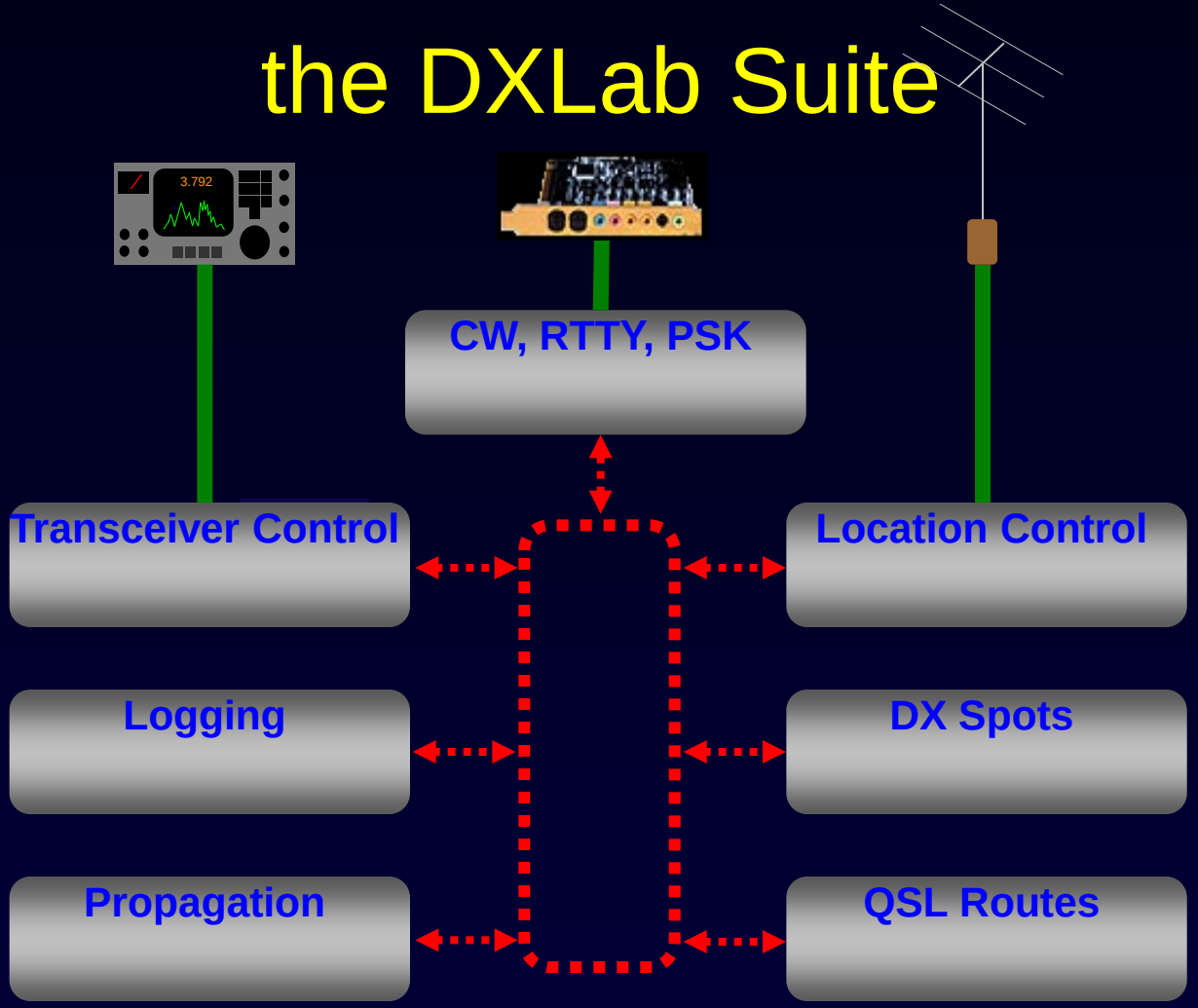
but

when run simultaneously sense each other's presence

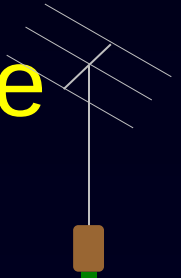
and

interoperate automatically

the DXLab Suite



the DXLab Suite



CW, RTTY, PSK
WinWarbler

Transceiver Control
Commander

Location Control
DXView

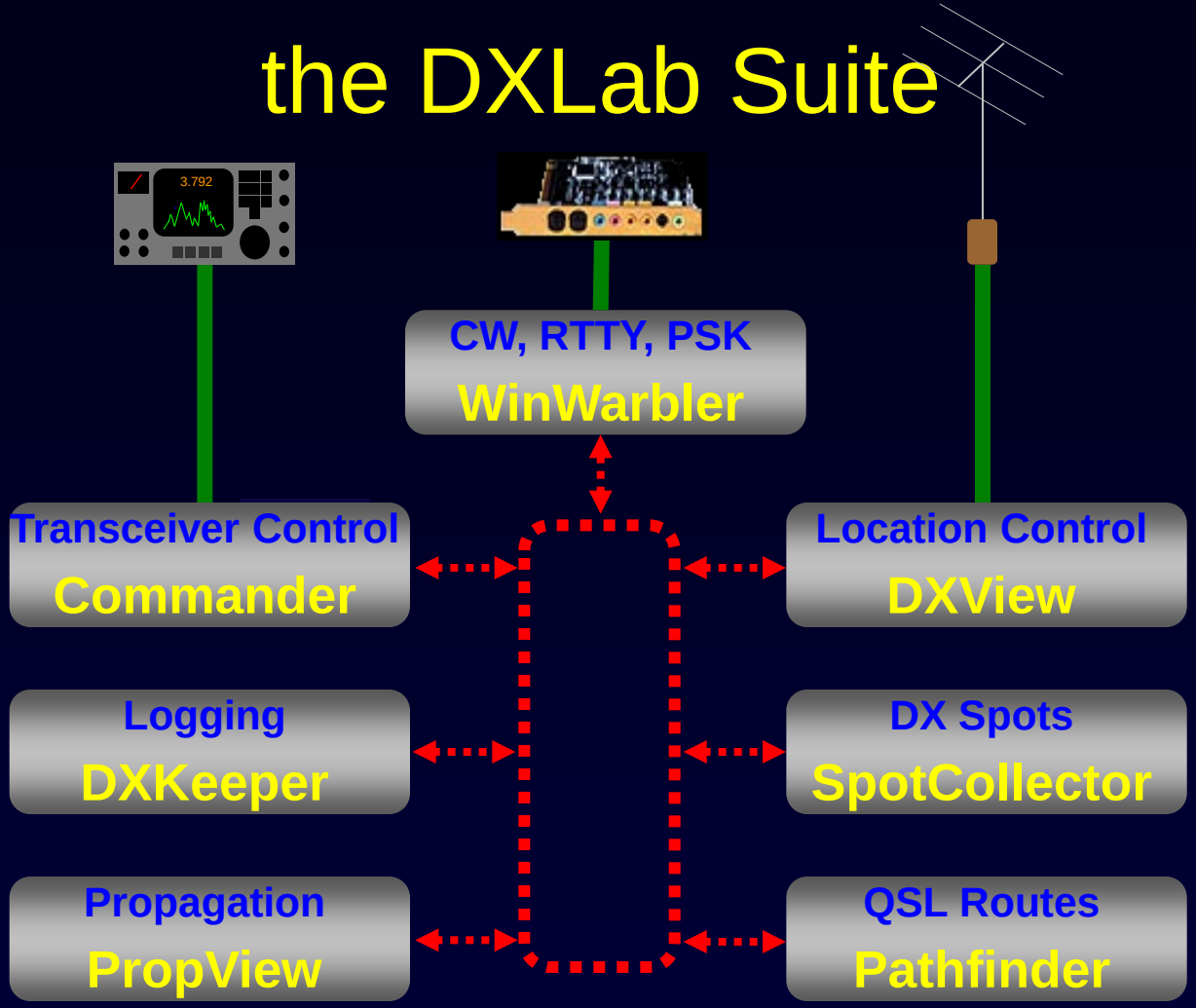
Logging
DXKeeper

DX Spots
SpotCollector

Propagation
PropView

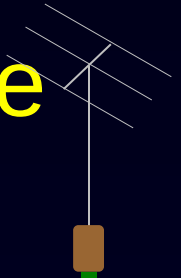
QSL Routes
Pathfinder

the DXLab Suite



- Modular
- Loosely-coupled

the DXLab Suite



CW, RTTY, PSK
WinWarbler

Transceiver Control
Commander

Location Control
DXView

Logging
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DX Spots
SpotCollector

Propagation
PropView

QSL Routes
Pathfinder

CW Skimmer | CWGet | FLDigi | JT-Alert | MixW | MMSSTV | MultiPSK

Gritty | MRP40 | Sim_PSK | WSJT-X | N1MM+ | MMVARI | Win4K3

the DXLab Suite

CW, RTTY, PSK
WinWarbler

Transceiver Control
Commander

Location Control
DXView

DX Atlas

Google Earth

LogPublisher

Logging
DXKeeper

DX Spots
SpotCollector

SpotSpy

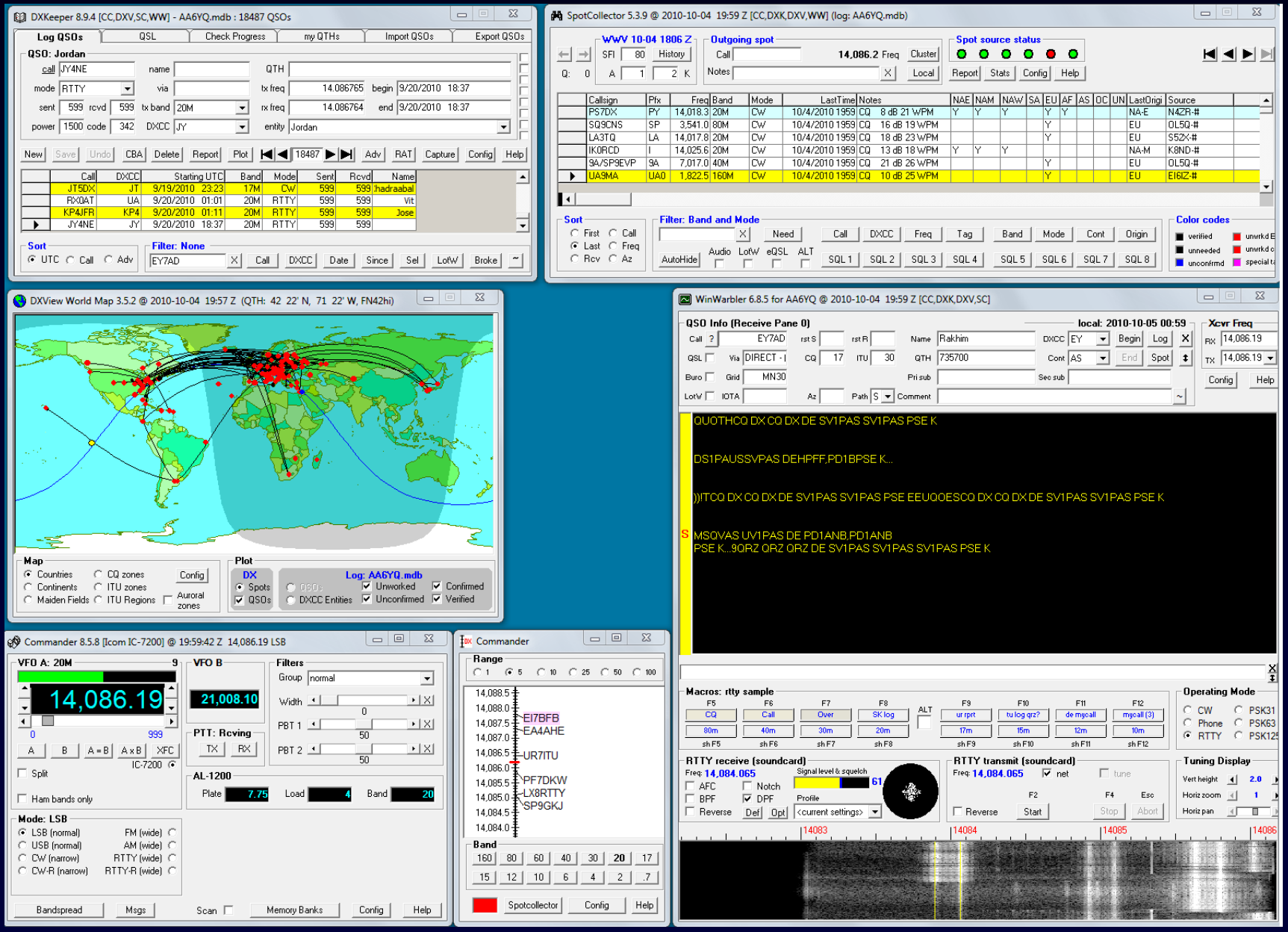
Propagation
PropView

QSL Routes
Pathfinder

CW Skimmer | CWGet | FLDigi | JT-Alert | MixW | MMSSTV | MultiPSK

Gritty | MRP40 | Sim_PSK | WSJT-X | N1MM+ | LogPublish | Win4K3

A Suite of DXing Applications



Single Point of Control: DXLab Launcher

- Installation
- Upgrade
- Startup
- Shutdown

DXing With DXLab

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

Active DX Database

Telnet Clusters

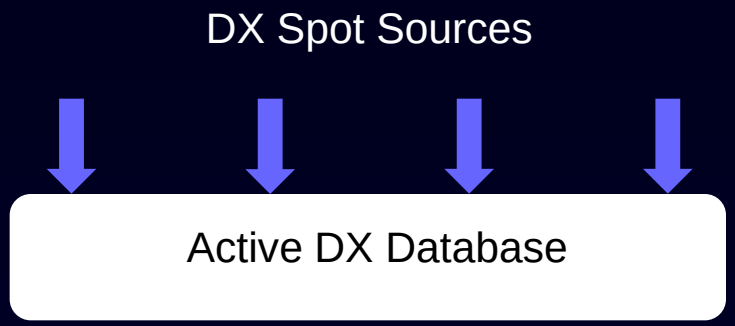
Packet Clusters

DX Summit

Reverse Beacon Network

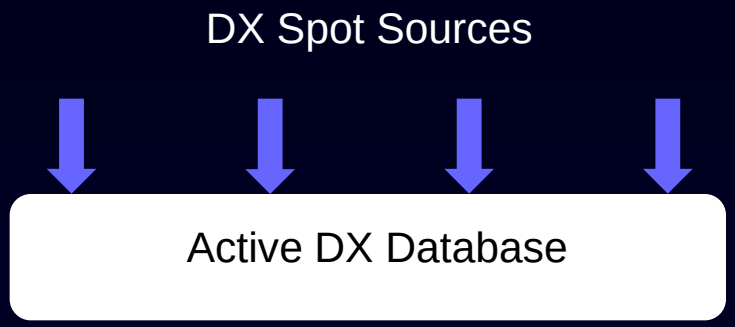
Call	Freq	QSX	Mode	First	Last	EU	AF	SA	NA-E	NA-M	NA-W	OC	
P5DX	14.005	14.007	CW	0117Z	0341Z	Y					Y	Y	
KP1RY	21.080	21.085	RTTY	0245Z	0356Z	Y	Y	Y	Y	Y			

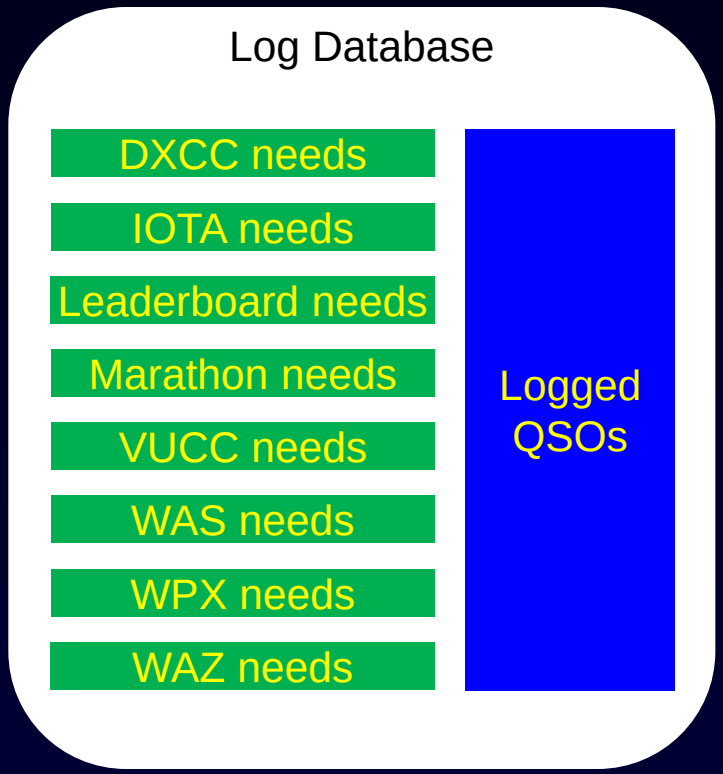
Multiple Views of Active DX



What DX stations are QRV ?

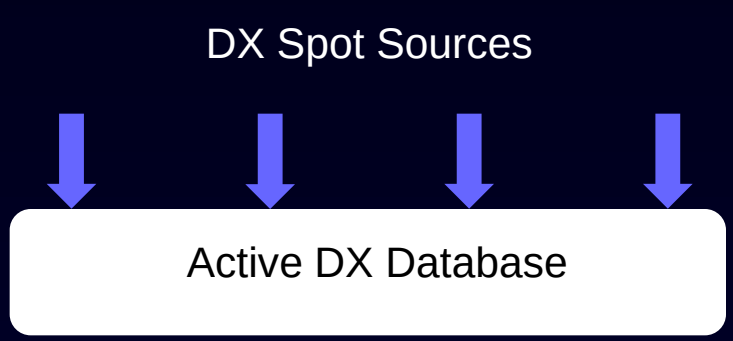
Multiple Views of Active DX





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

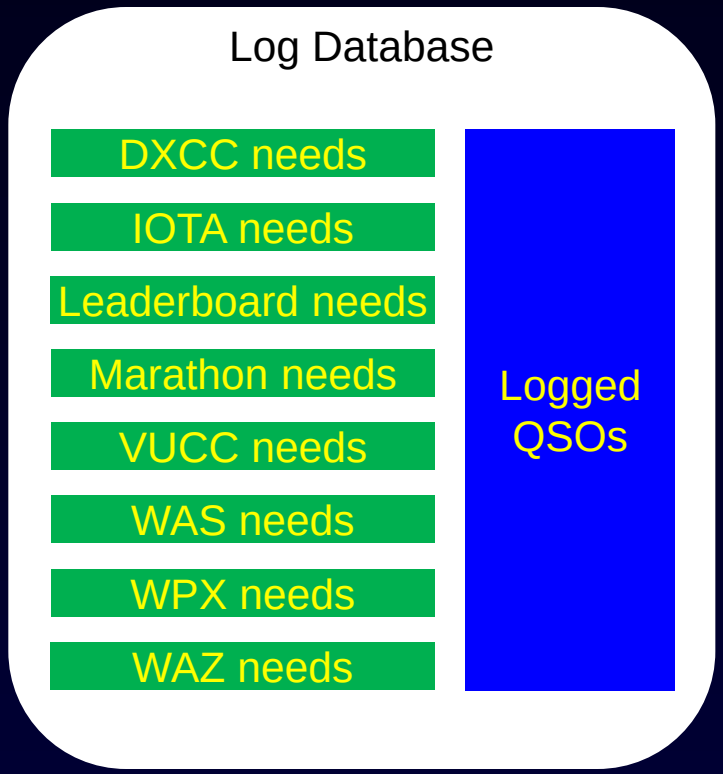
Multiple Views of Active DX



LotW Database

eQSL AG Database

What DX stations QSL via LotW and eQSL ?



Tabular View of Active DX

DX Spot Sources

Active DX Database

LotW Database

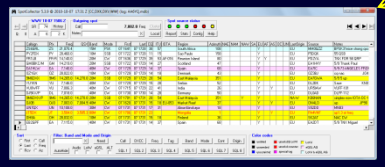
eQSL AG Database

View Generator

Log Database

- DXCC needs
- IOTA needs
- Leaderboard needs
- Marathon needs
- VUCC needs
- WAS needs
- WPX needs
- WAZ needs

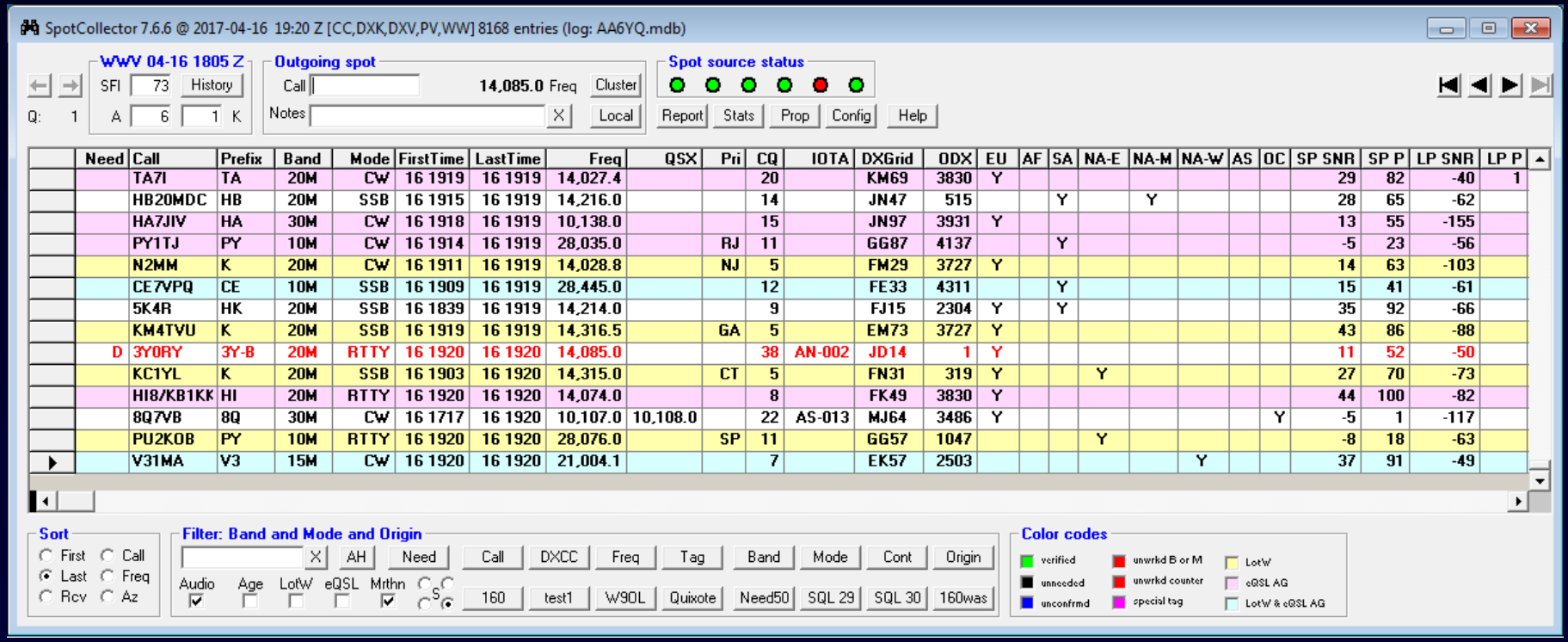
Logged QSOs



Tabular Display

Tabular View of Active DX

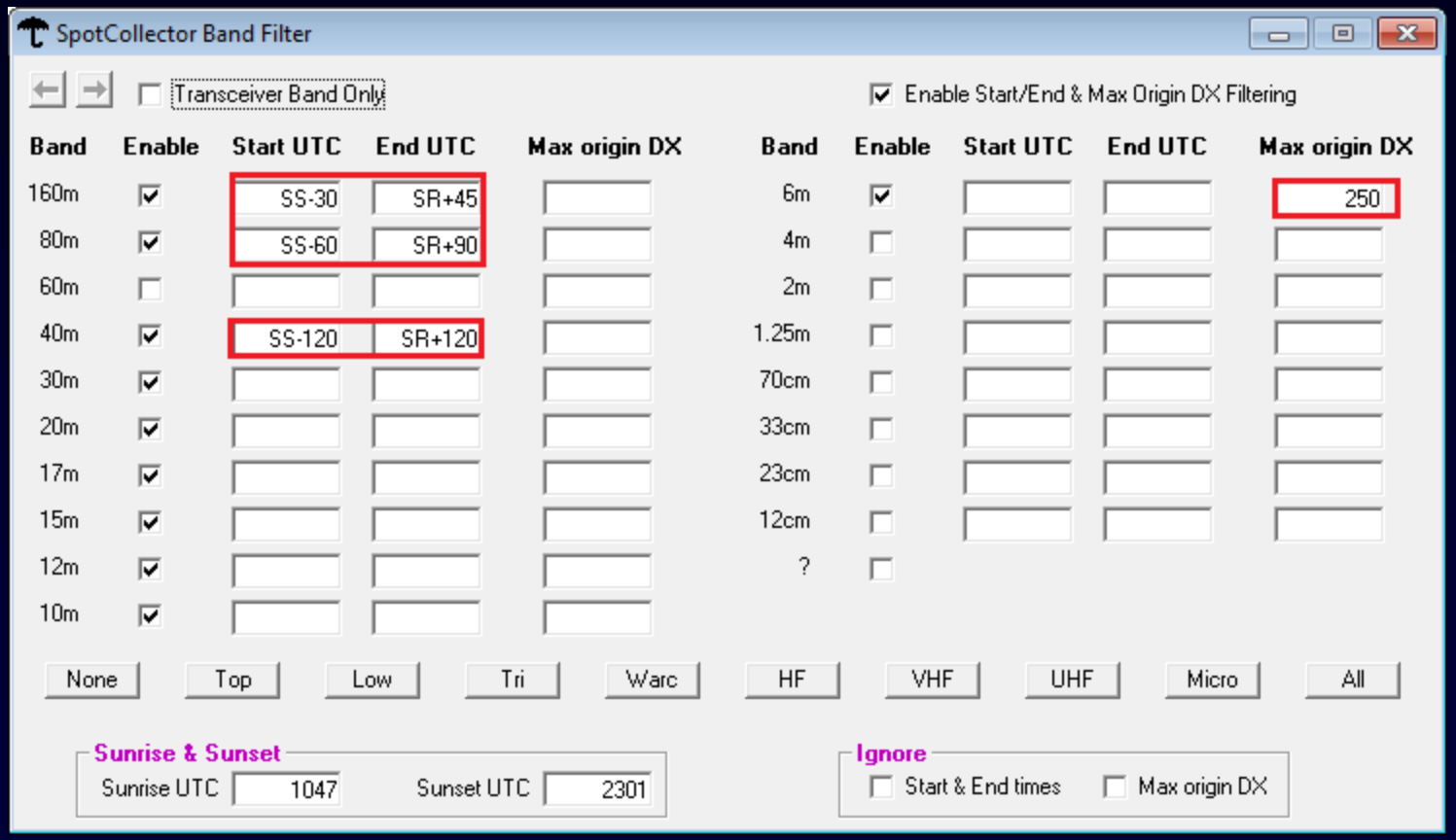
“Selected Bands and Modes”



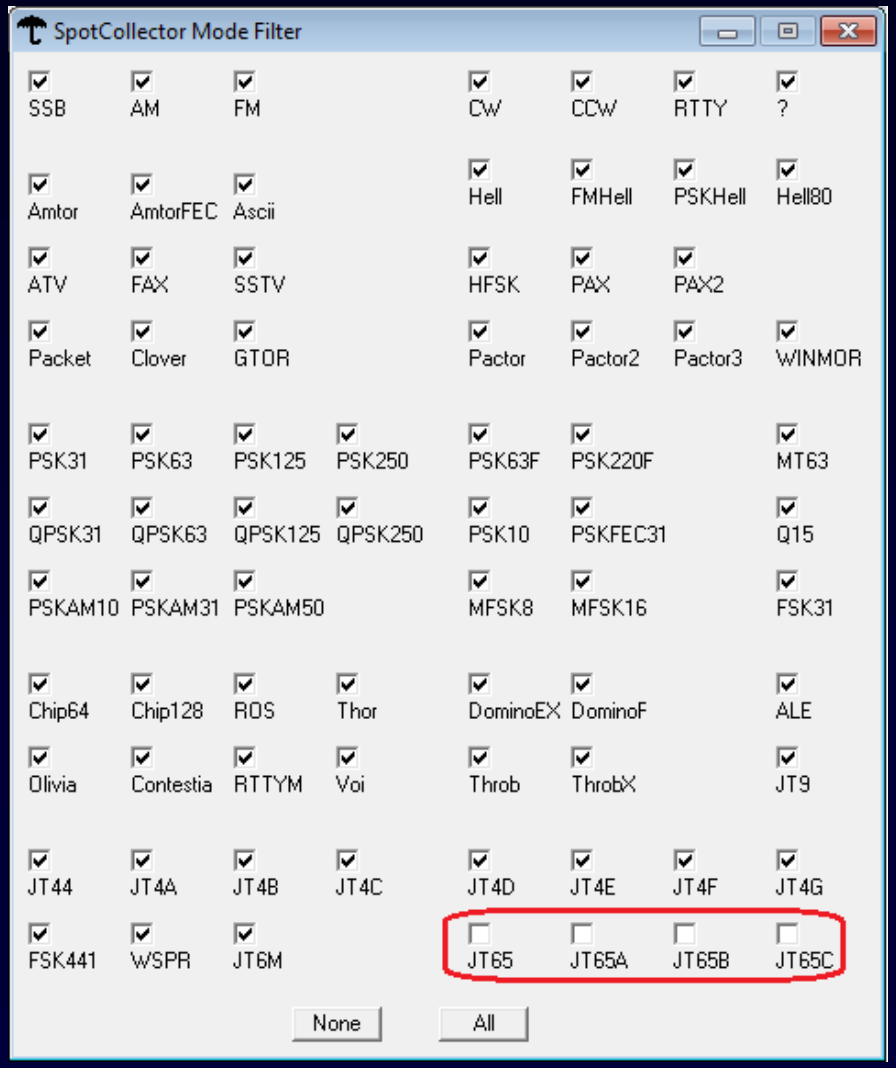
Font color indicates “needed” DX stations

Background color indicates LotW and eQSL participation

Band Filter

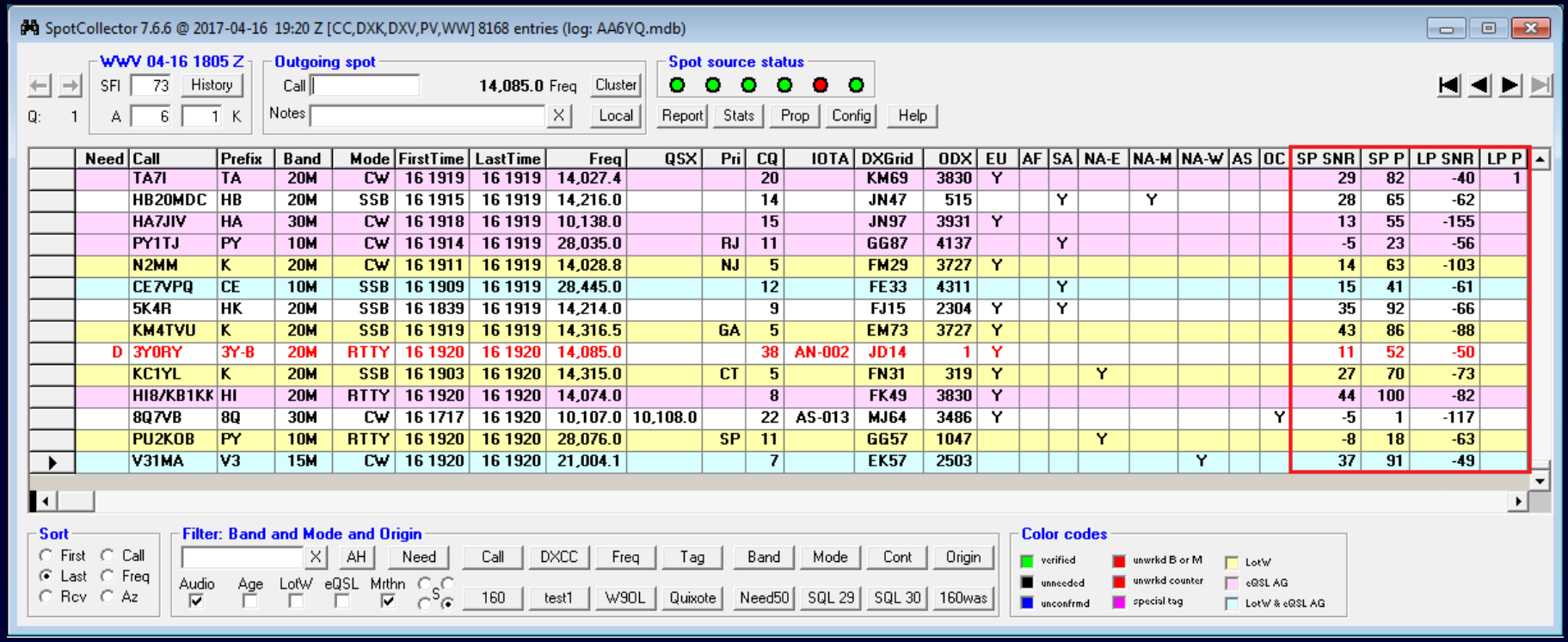

SpotCollector Band Filter
Transceiver Band Only
Enable Start/End & Max Origin DX Filtering
Band
Enable
Start UTC
End UTC
Max origin DX
160m
80m
60m
40m
30m
20m
17m
15m
12m
10m
SS-30
SR+45
SS-60
SR+90
SS-120
SR+120
6m
4m
2m
1.25m
70cm
33cm
23cm
12cm
?
250
None
Top
Low
Tri
Warc
HF
VHF
UHF
Micro
All
Sunrise & Sunset
Sunrise UTC
1047
Sunset UTC
2301
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
PSKAM10
PSKAM31
PSKAM50
MFSK8
MFSK16
FSK31
Chip64
Chip128
ROS
Thor
DominoEX
DominoF
ALE
Olivia
Contestia
RTTYM
Voi
Throb
ThrobX
JT9
JT44
JT4A
JT4B
JT4C
JT4D
JT4E
JT4F
JT4G
FSK441
WSPR
JT6M
JT65
JT65A
JT65B
JT65C
None
All

Tabular View of Active DX

“Selected Bands and Modes”

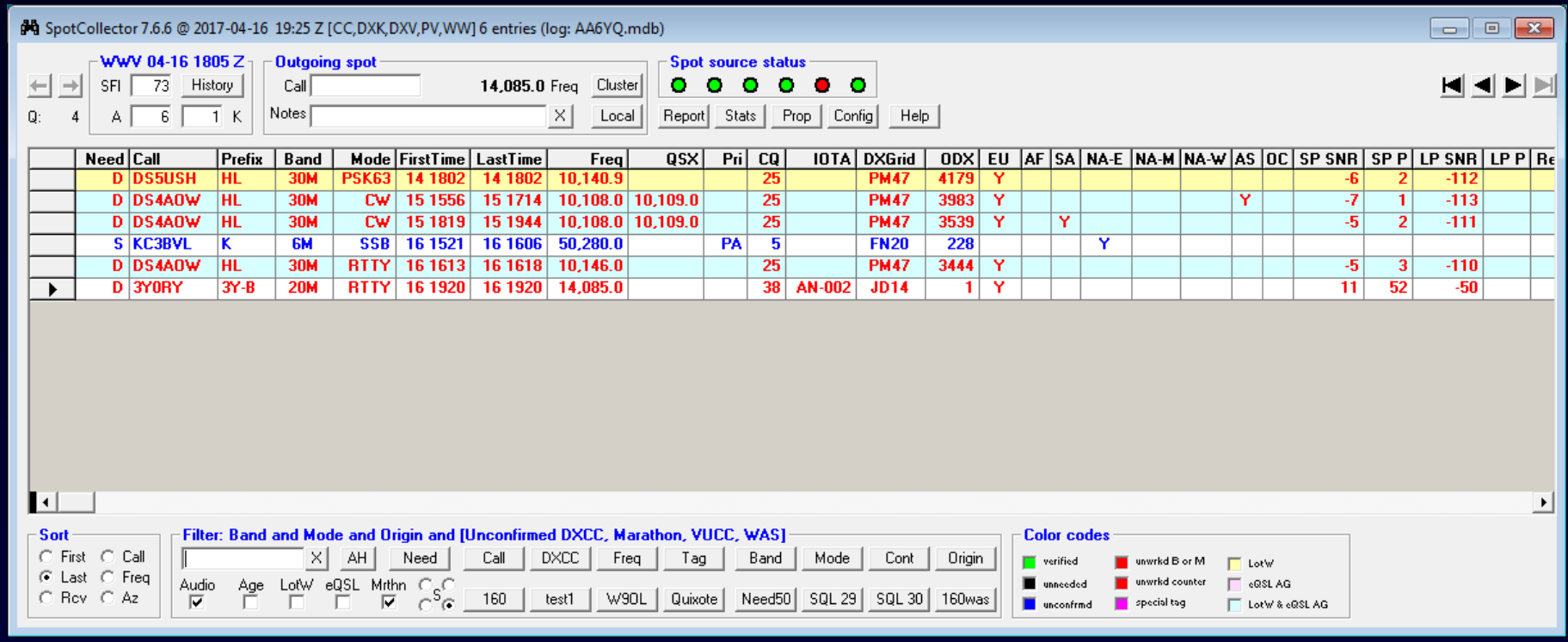


On 80m through 10m, PropView’s VOACAP engine computes

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

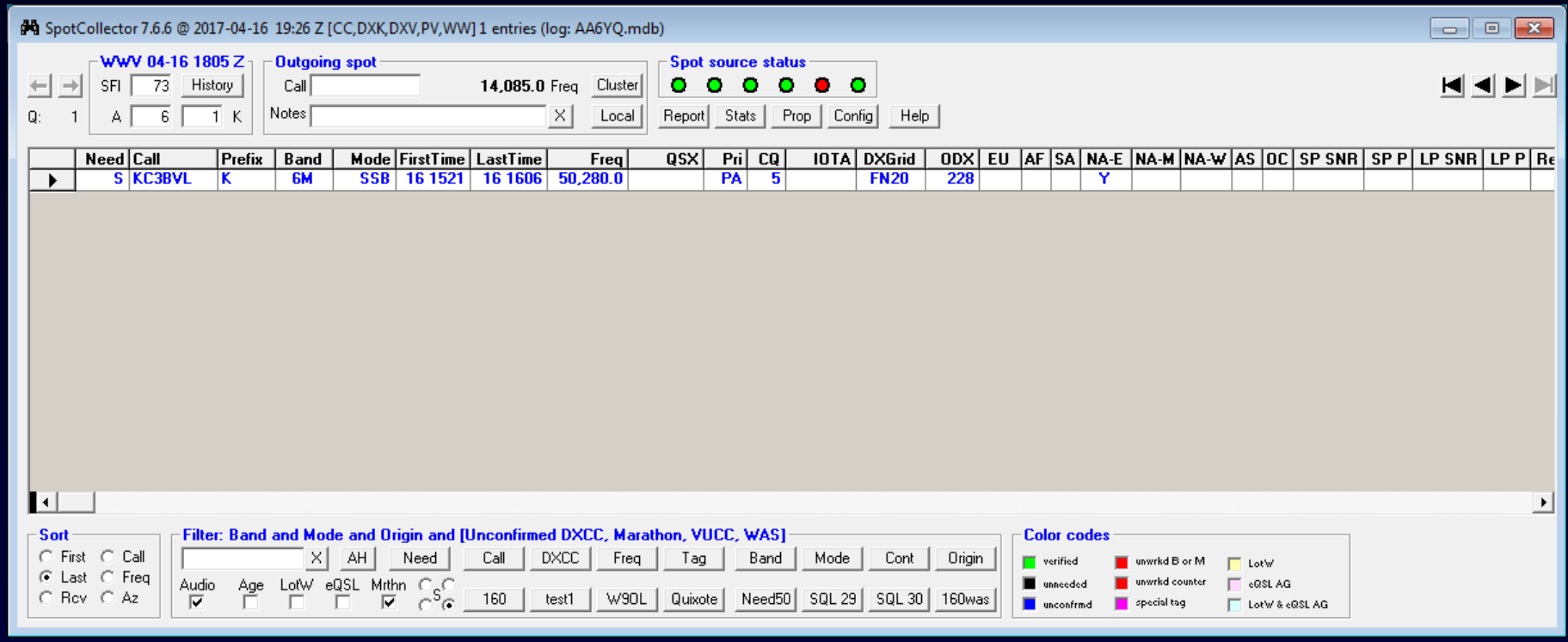
Tabular View of Active DX

"Needed DX on Selected Bands and Modes"



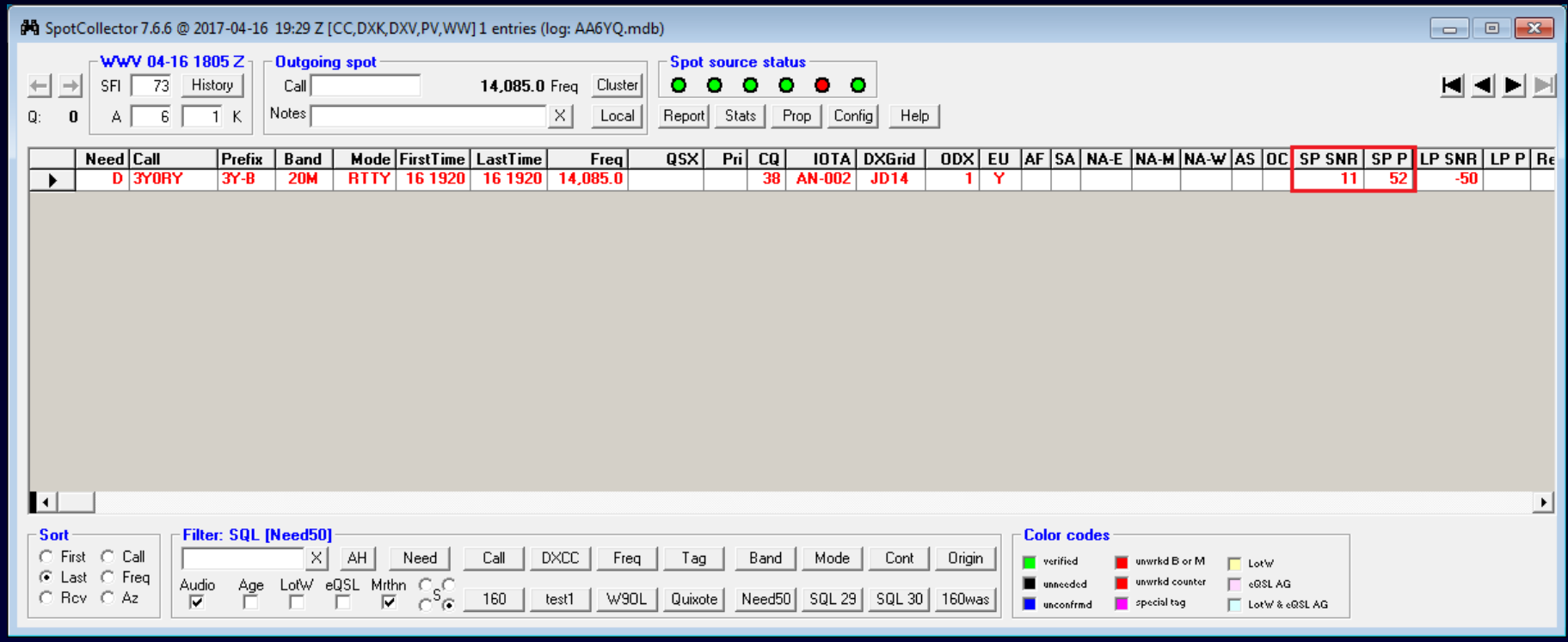
Tabular View of Active DX

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



Tabular View of Active DX

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



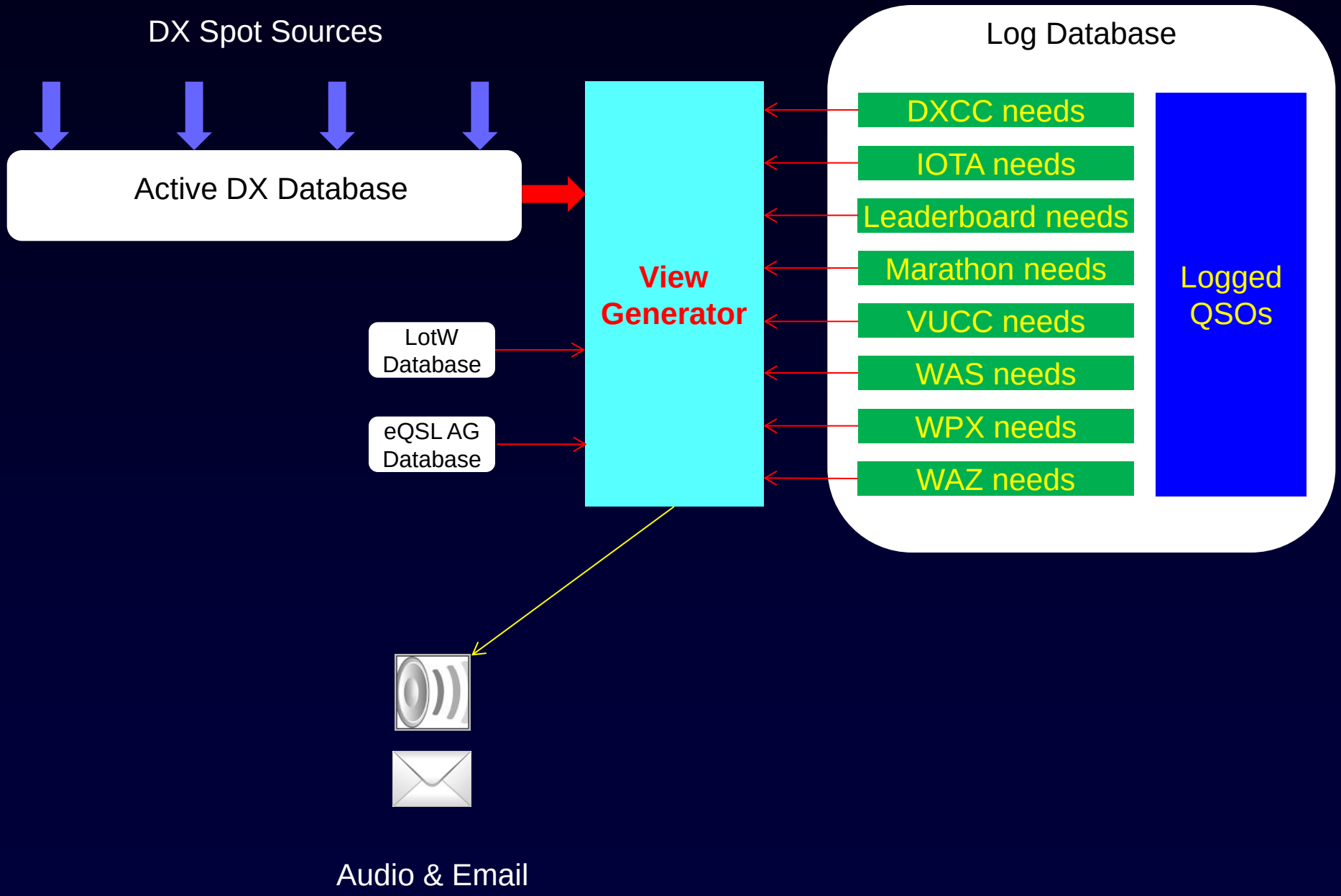
Tabular View of Active DX

in a web browser from anywhere

Tabular View of Active DX

in a web browser from anywhere

Audio and Email Views of Active DX

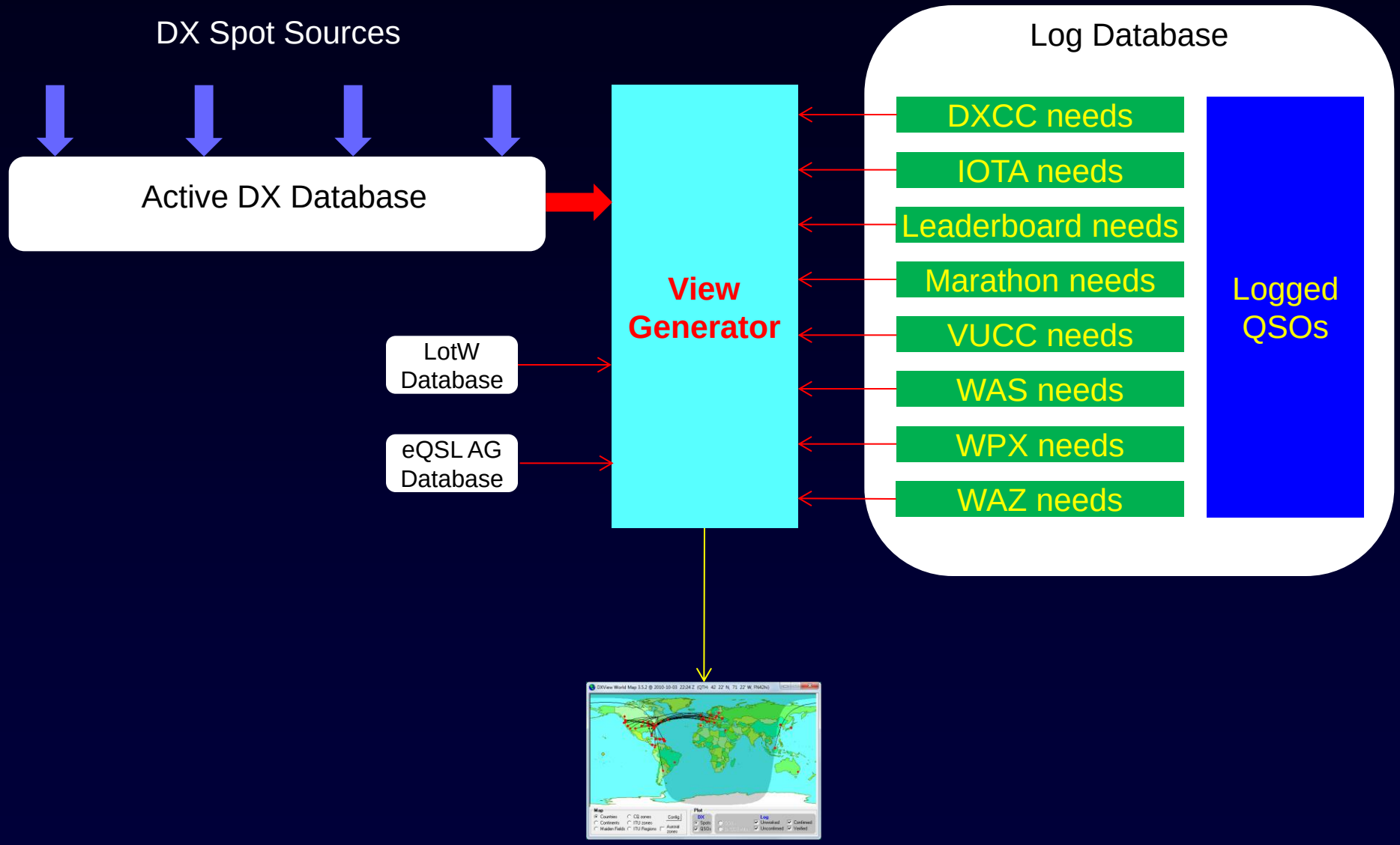


Audio and Email Views of Active DX

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

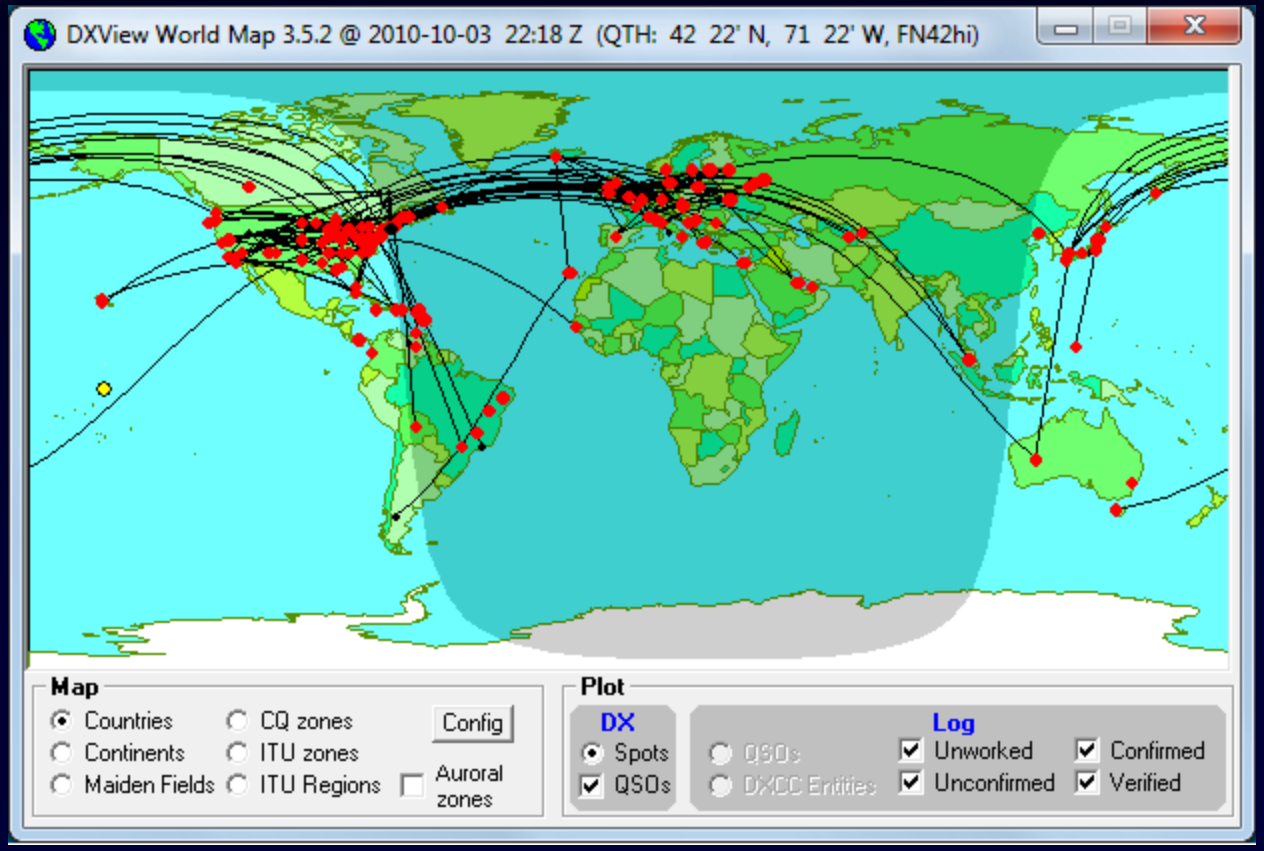
- an audio announcement (callsign, “counter”, band, mode)
- an outgoing email message (which can initiate a text message)

World Map View of Active DX



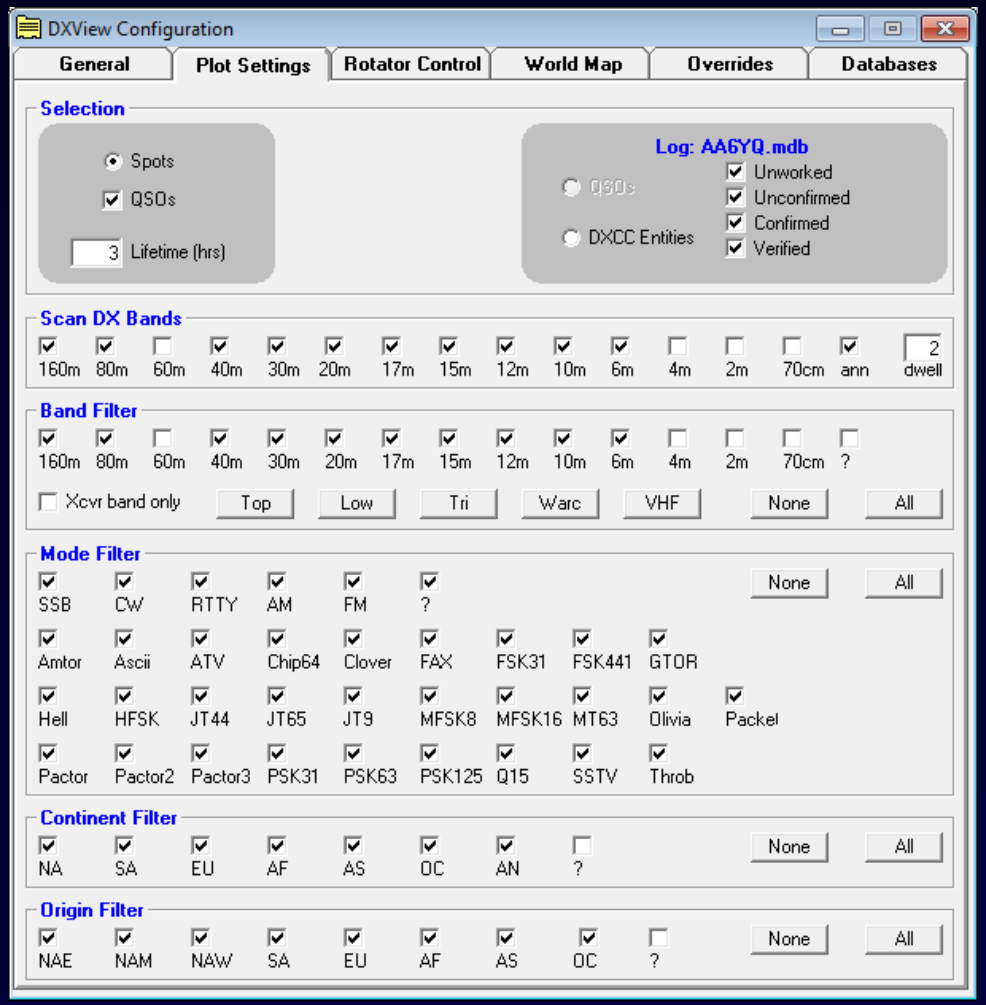
World Map View of Active DX

"Active DX on Selected Bands"



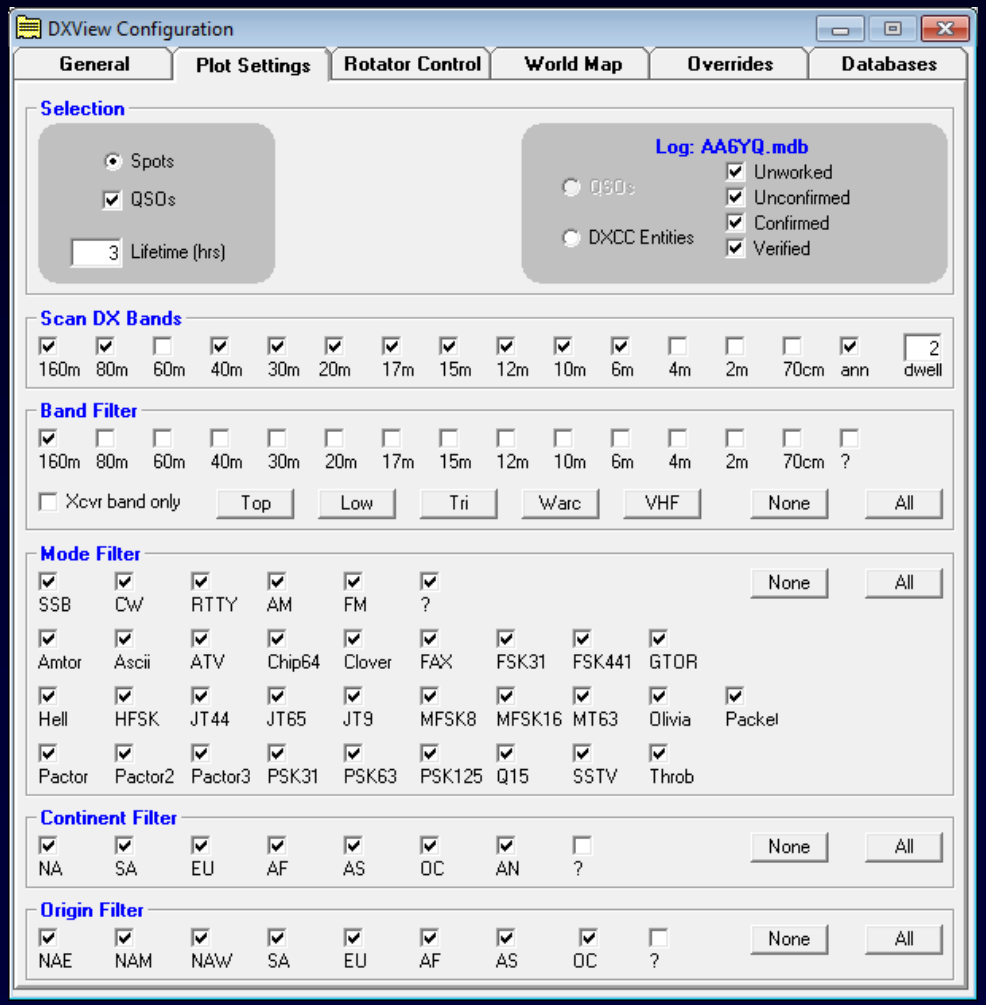
World Map View of Active DX

Controlling the Map View



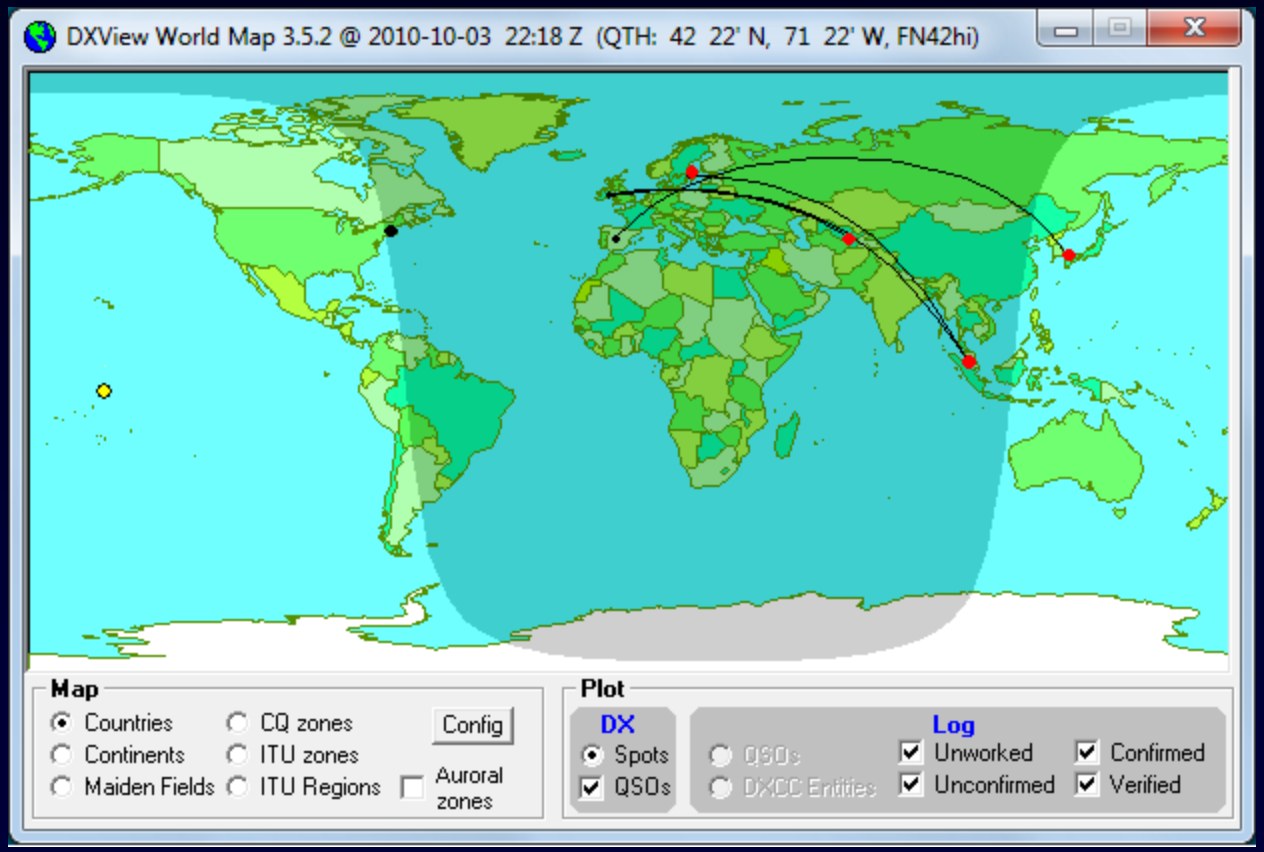
World Map View of Active DX

Controlling the Map View



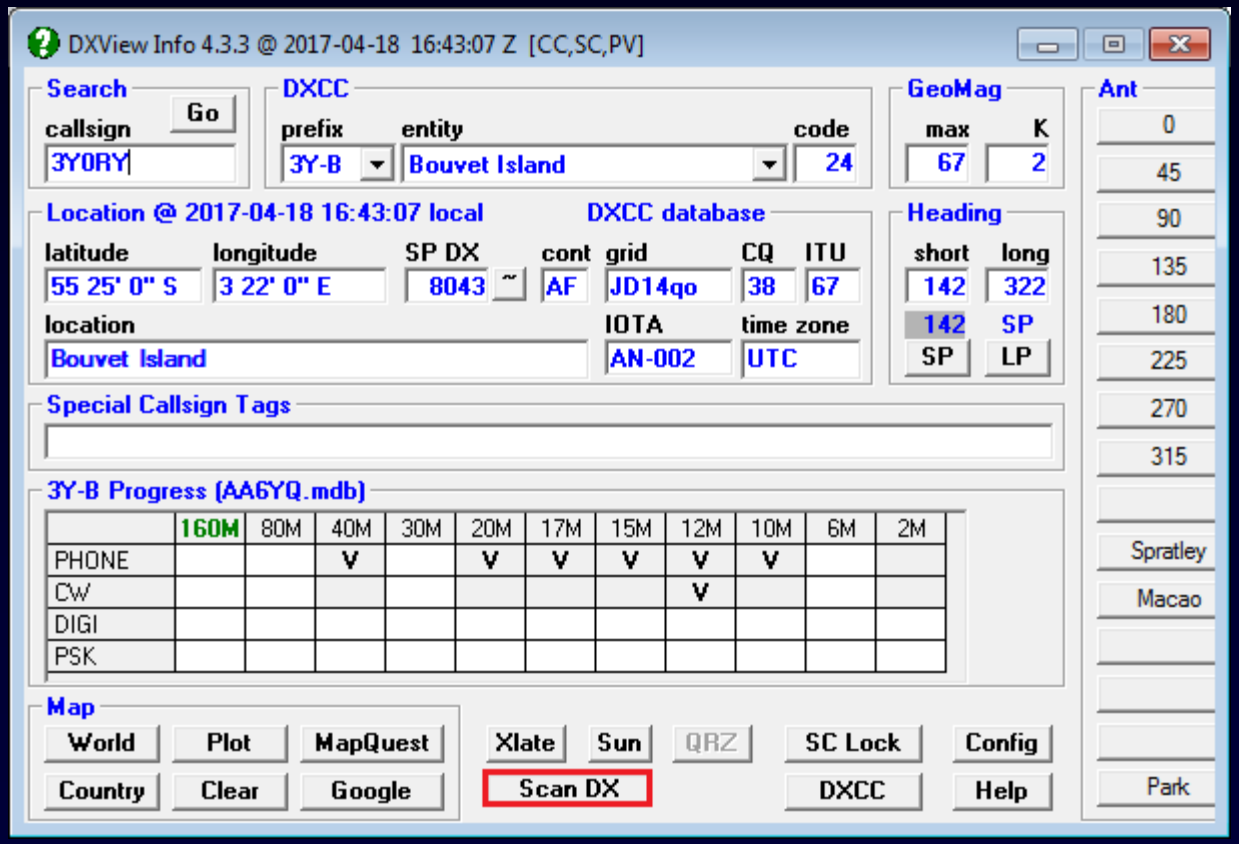
World Map View of Active DX

"160m"



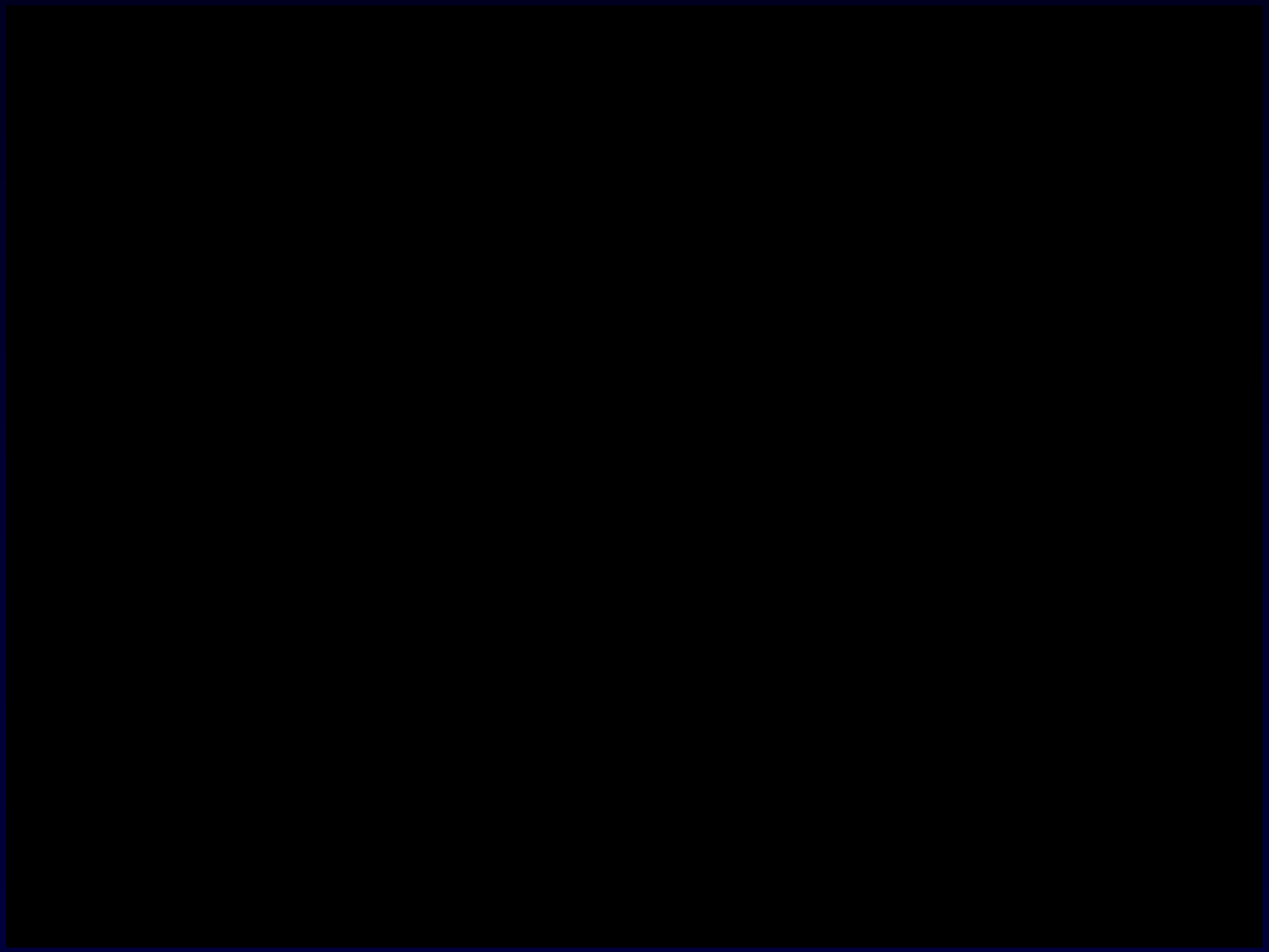
World Map View of Active DX

ScanDX



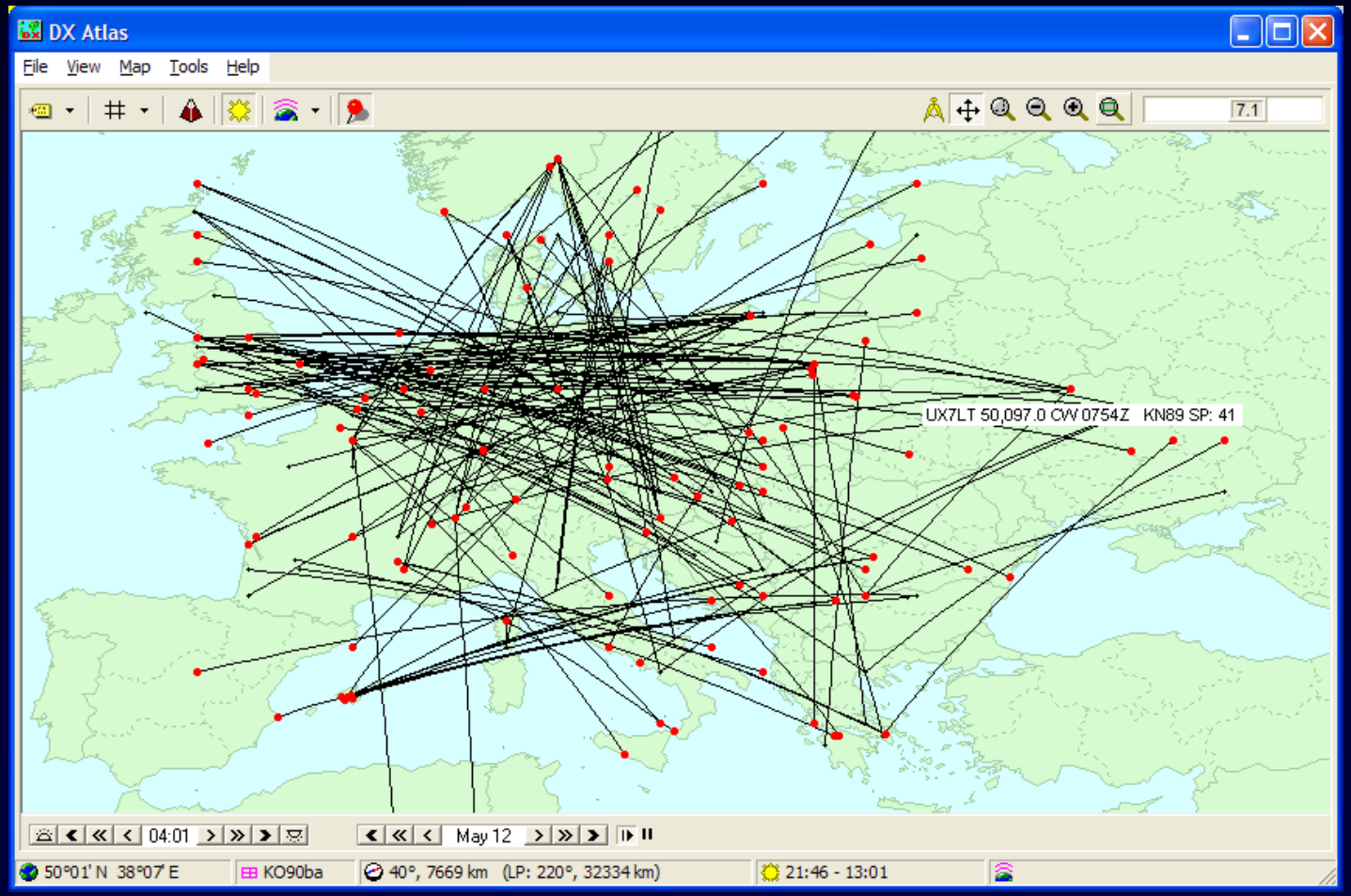
World Map View of Active DX

ScanDX



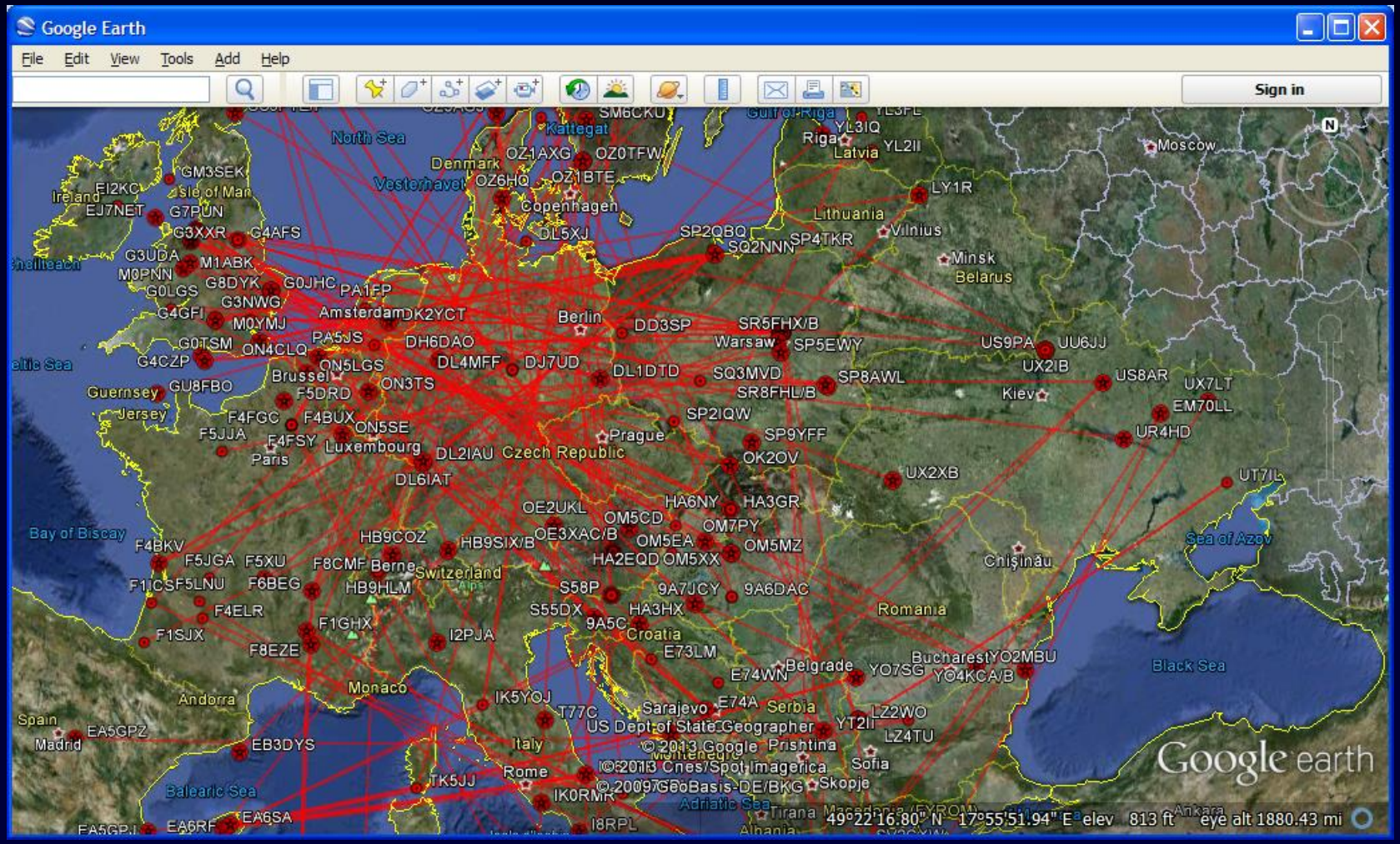
World Map View of Active DX

"6m" on DX Atlas



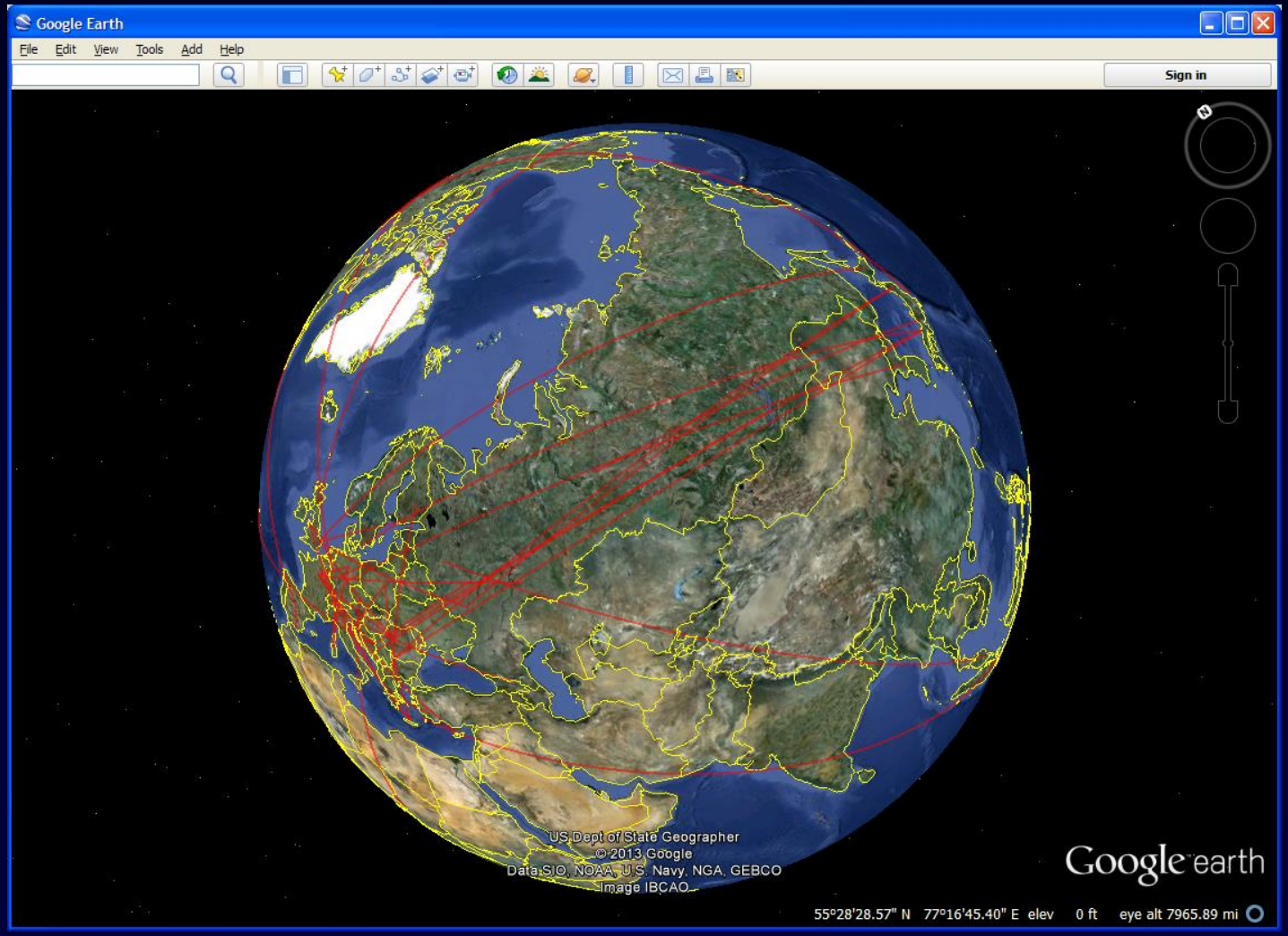
World Map View of Active DX

"6m" on Google Earth

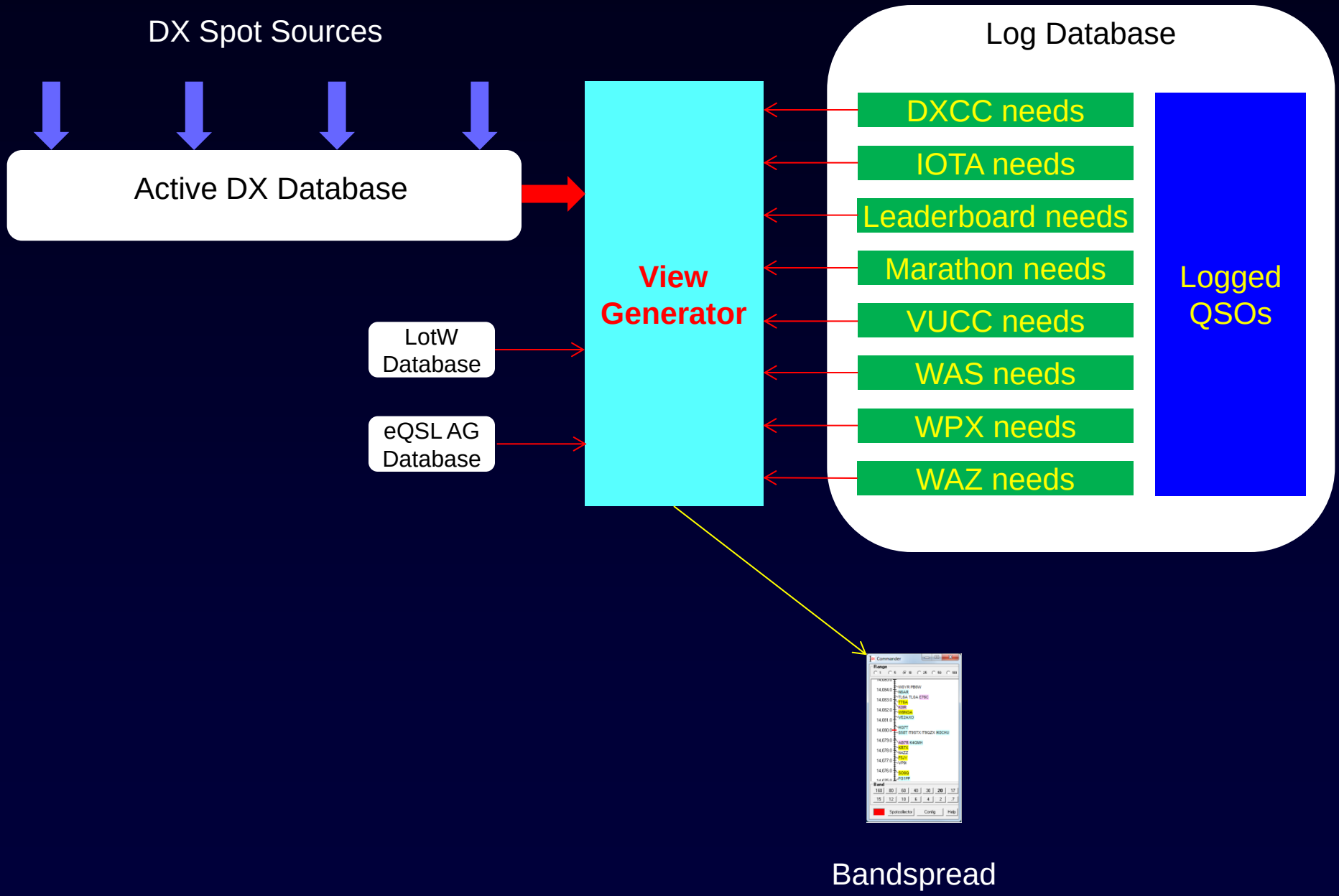


World Map View of Active DX

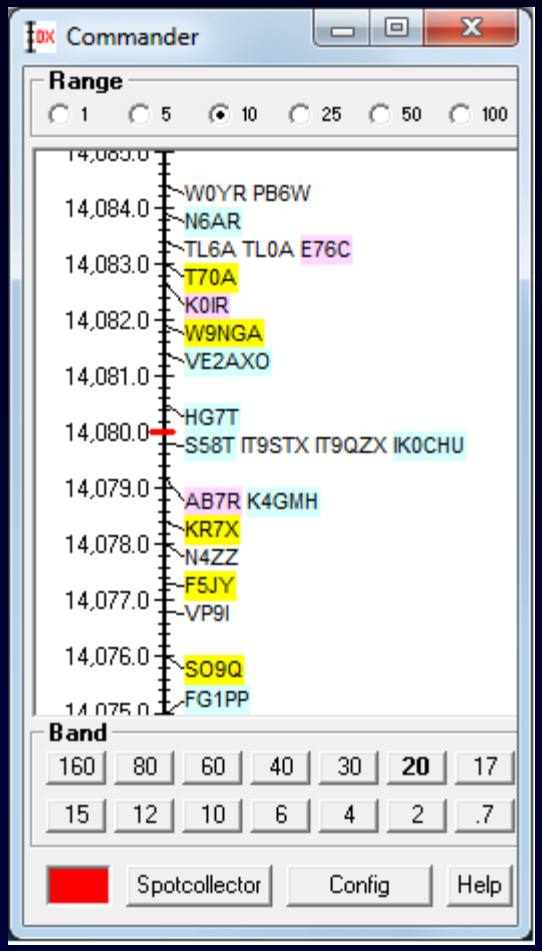
"12m" on Google Earth



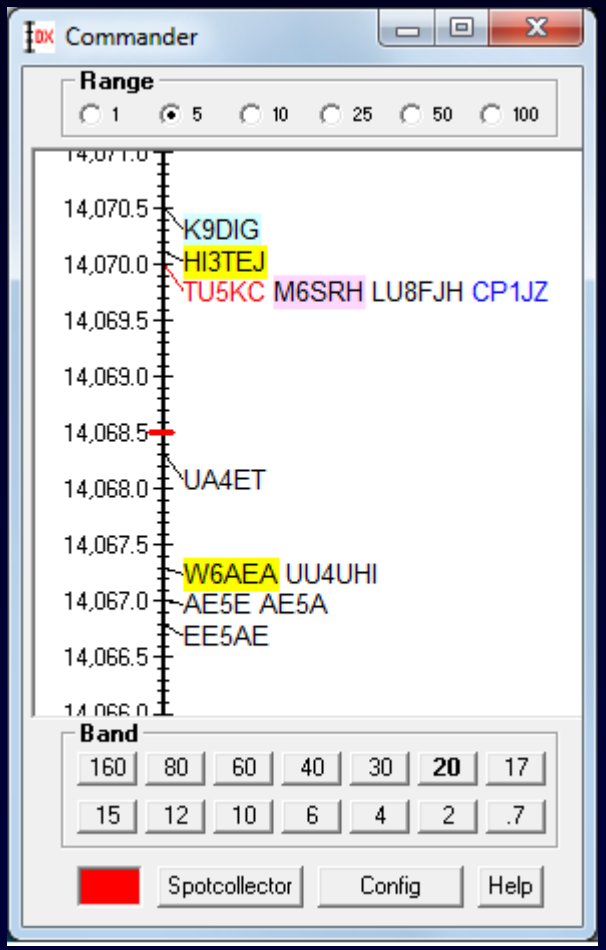
Bandspread View of Active DX



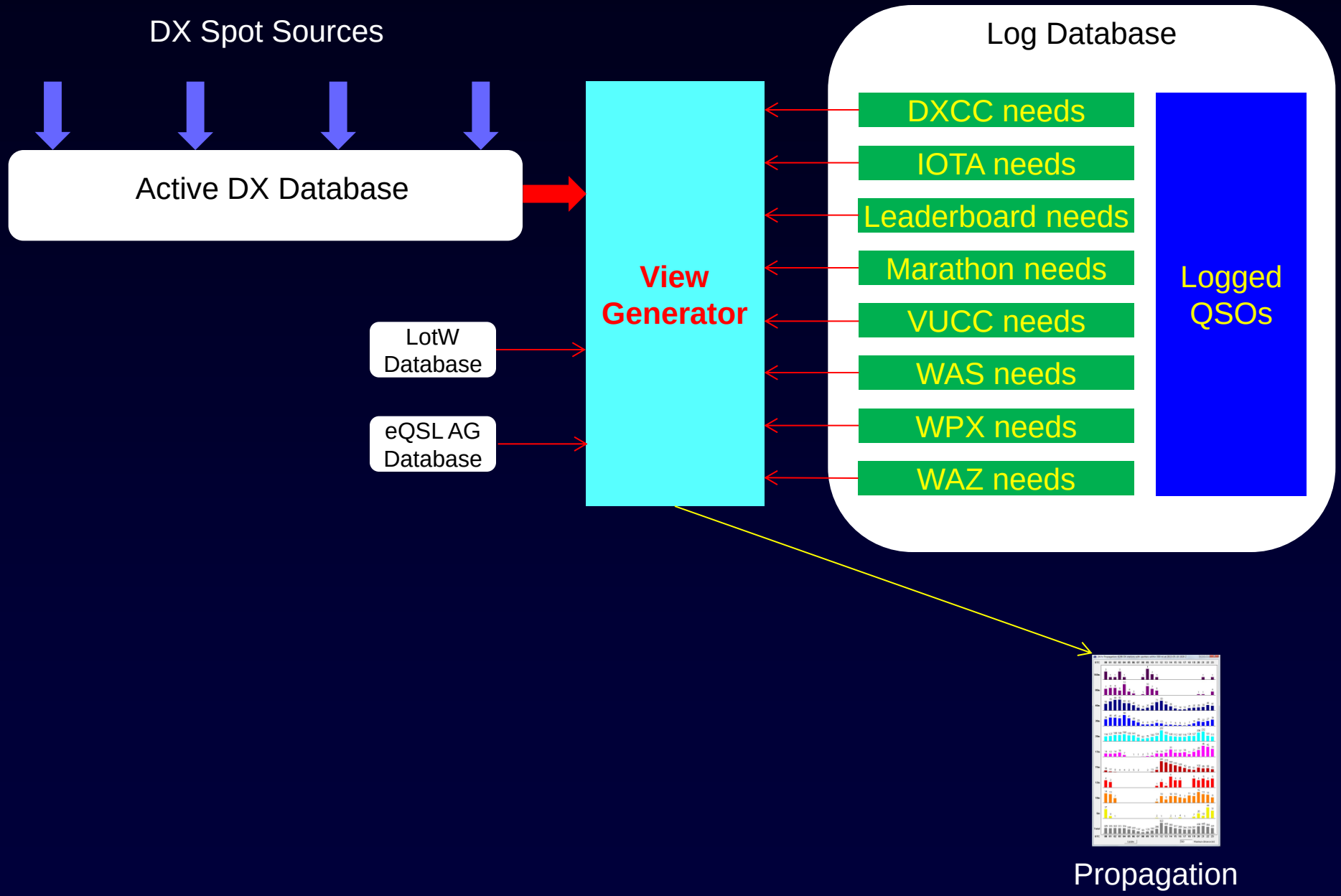
Bandspread View of Active DX



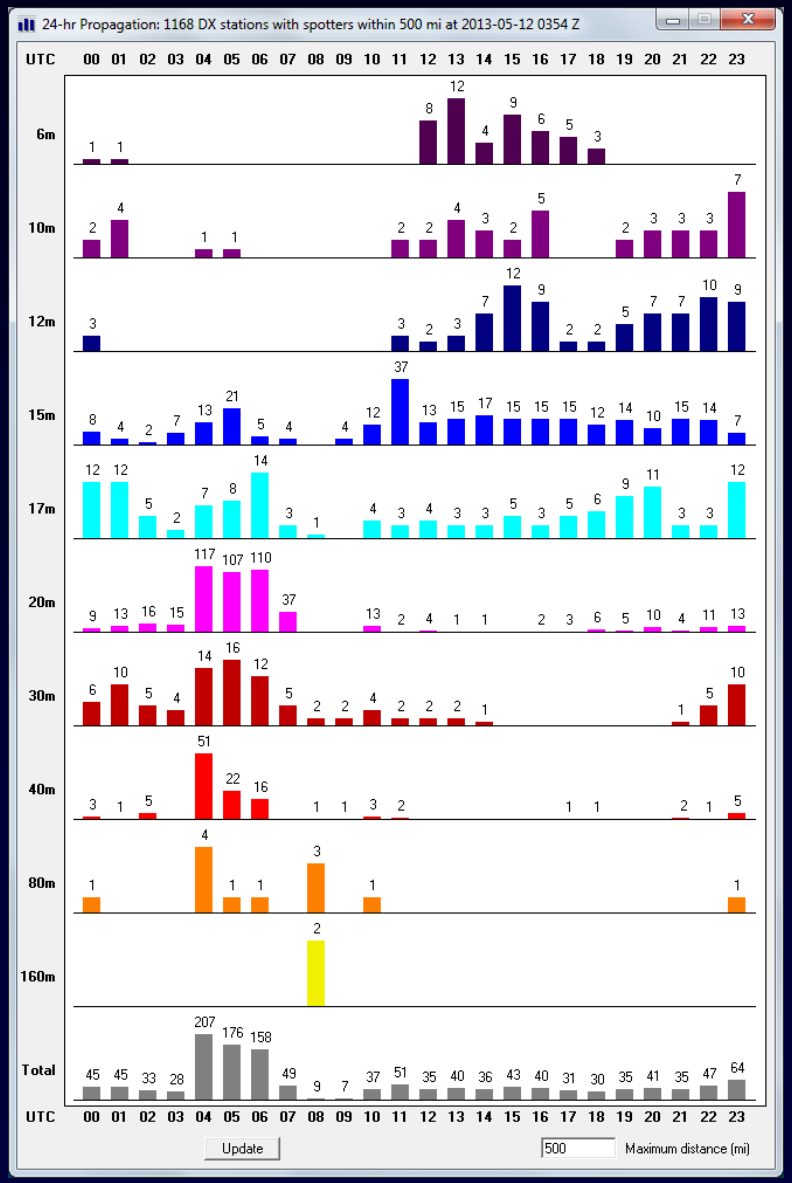
Bandspread View of Active DX



Propagation View of Active DX



Propagation View of Active DX



Multiple Views of Active DX

DX Spot Sources

Active DX Database

LotW Database

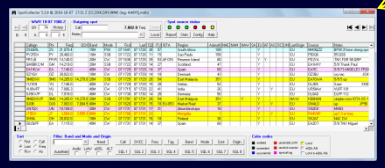
eQSL AG Database

View Generator

Log Database

- DXCC needs
- IOTA needs
- Leaderboard needs
- Marathon needs
- VUCC needs
- WAS needs
- WPX needs
- WAZ needs

Logged QSOs

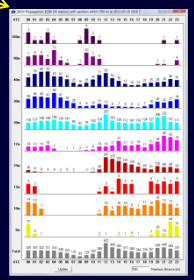


Tabular Display

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
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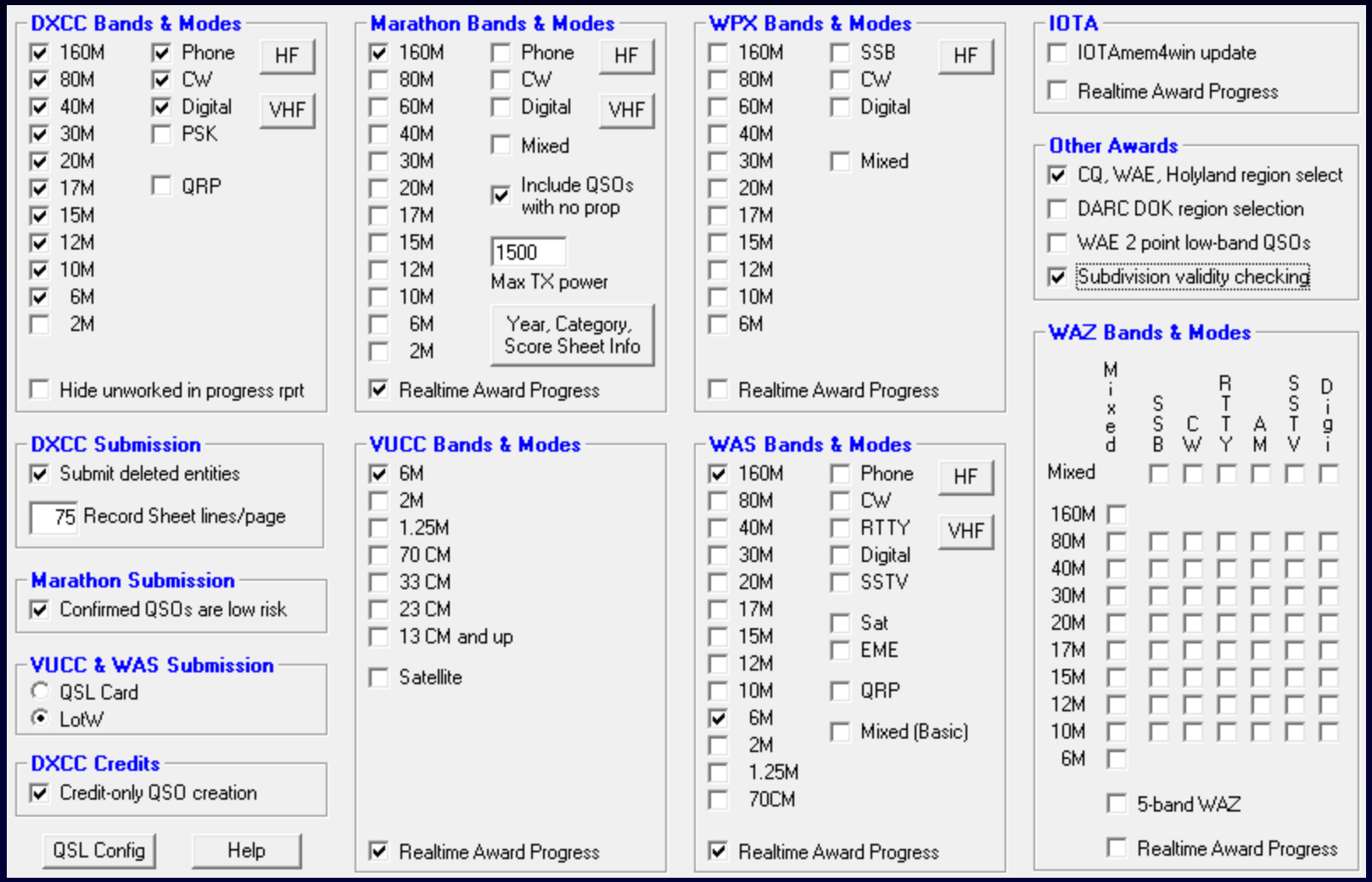
  - Multiple Views of Active DX
- Finding the DX You Need
- Working the DX You Need

Finding and Working Needed DX

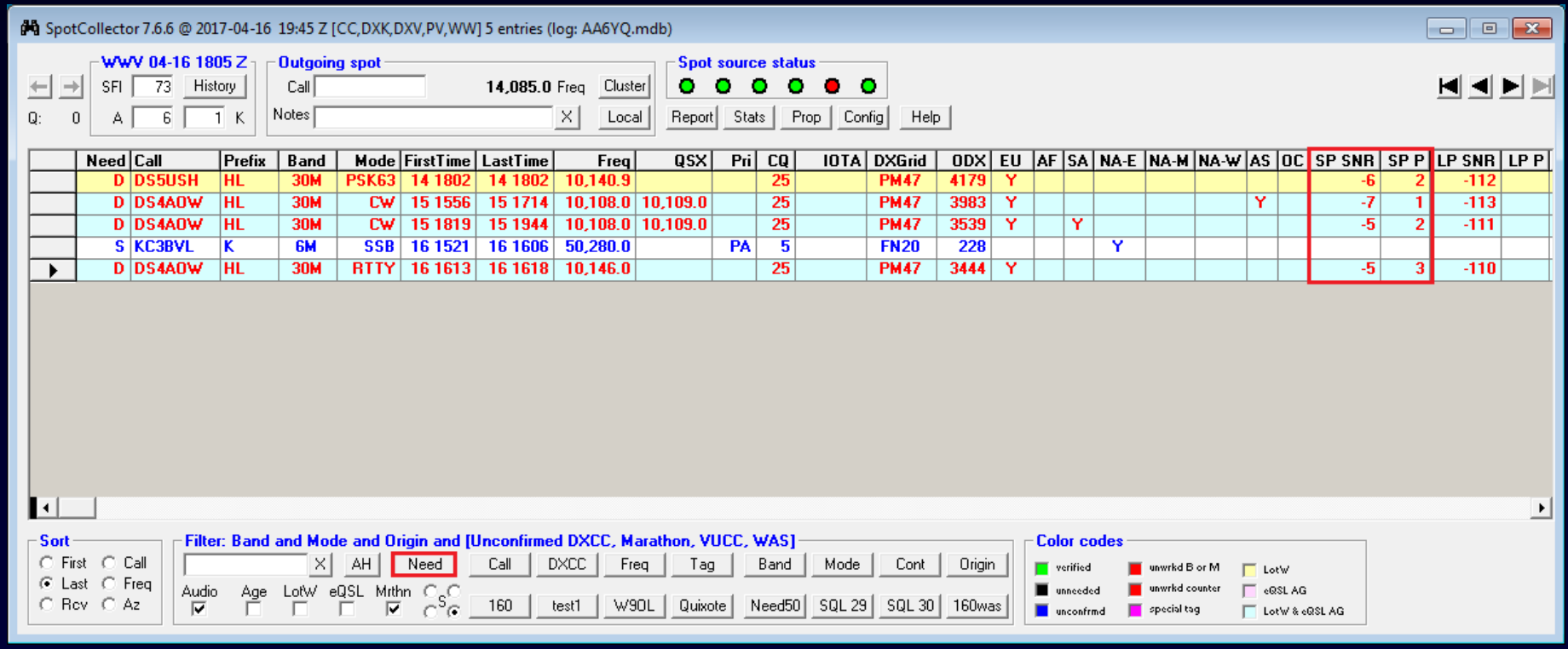
1. What's been QRV that I need?

2. Working Mount Athos

What Are My DXing Objectives?

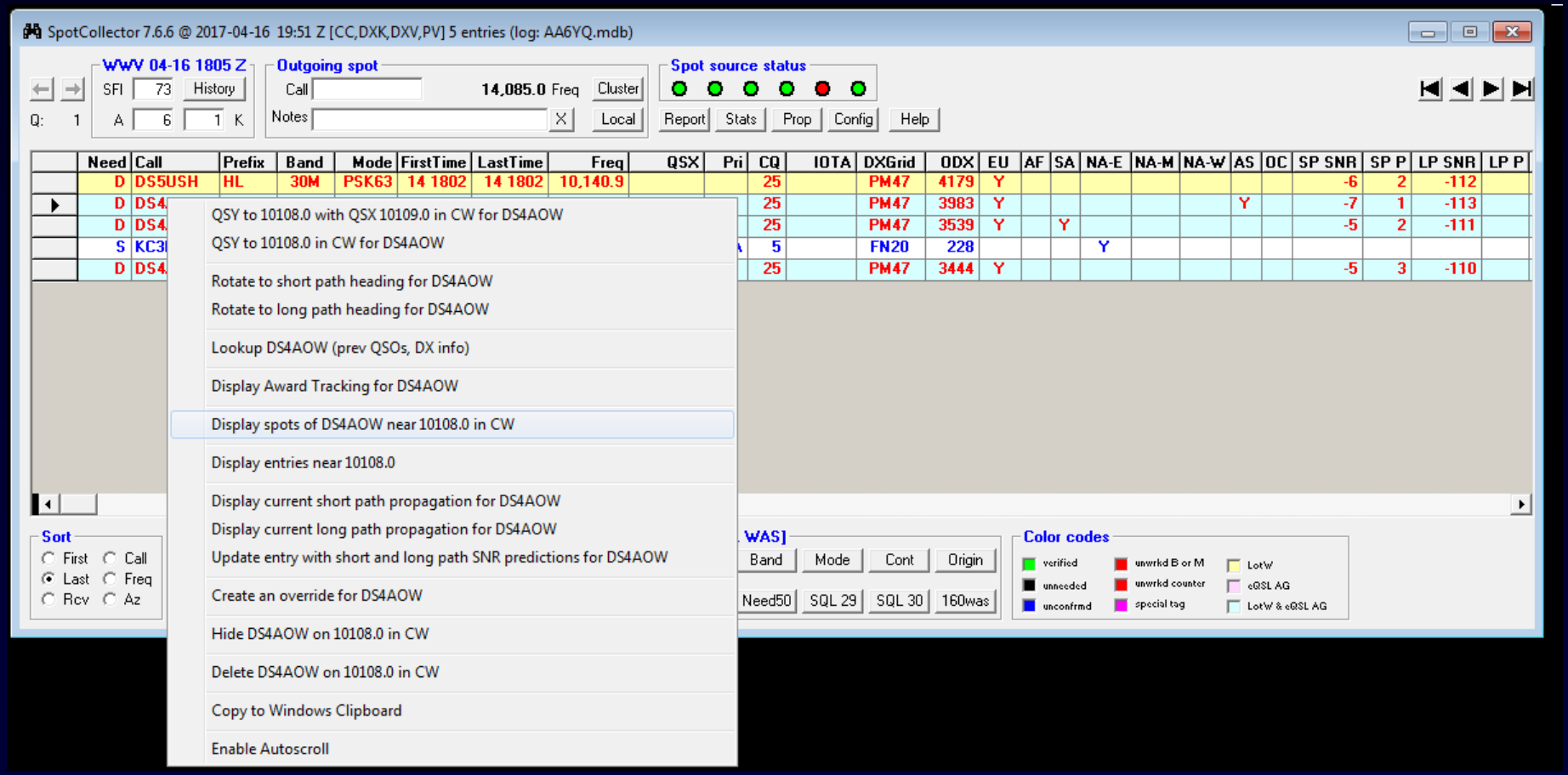


What's Been QRV that I Need?

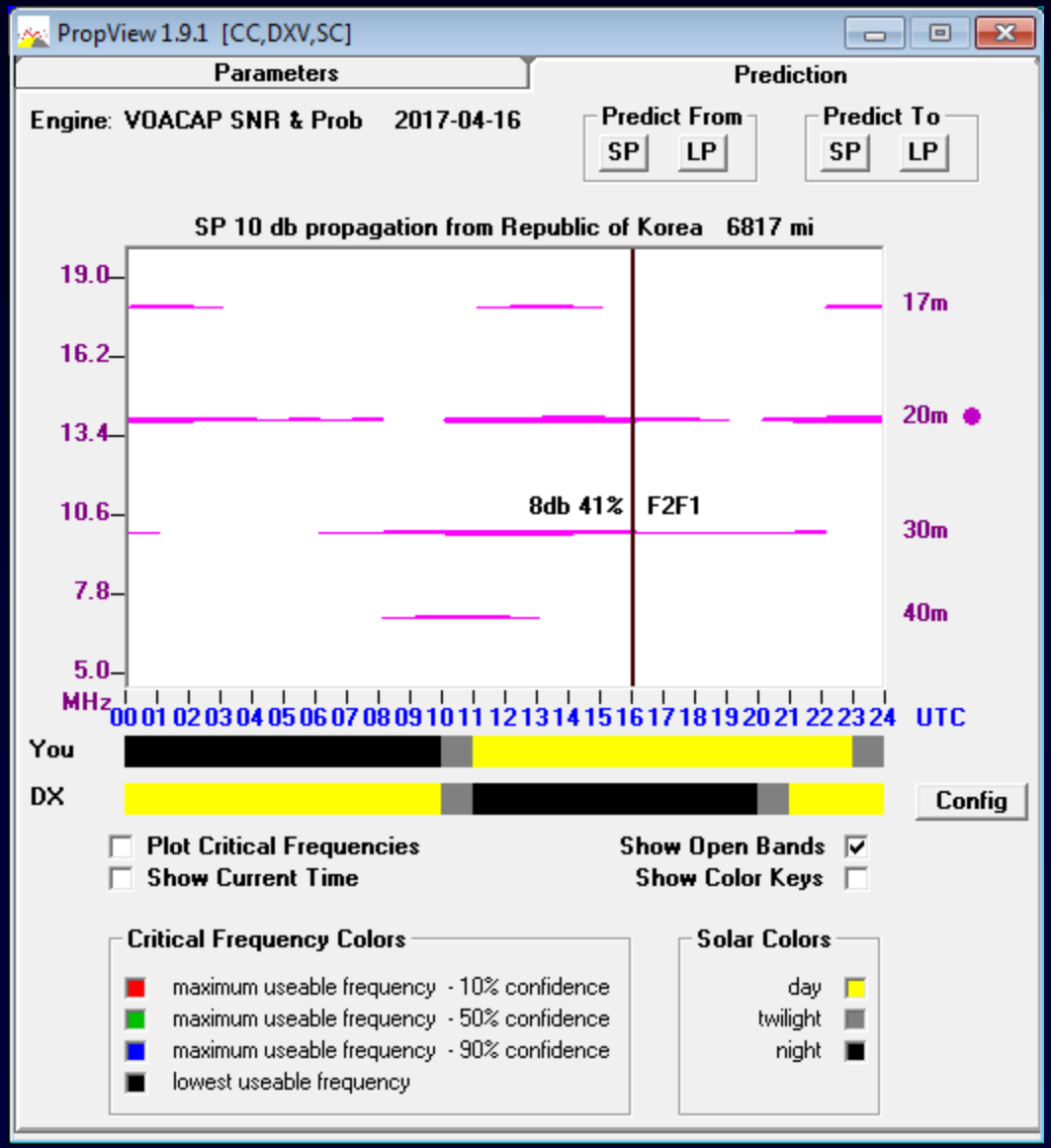


Is HL on 30m a plausible target ?

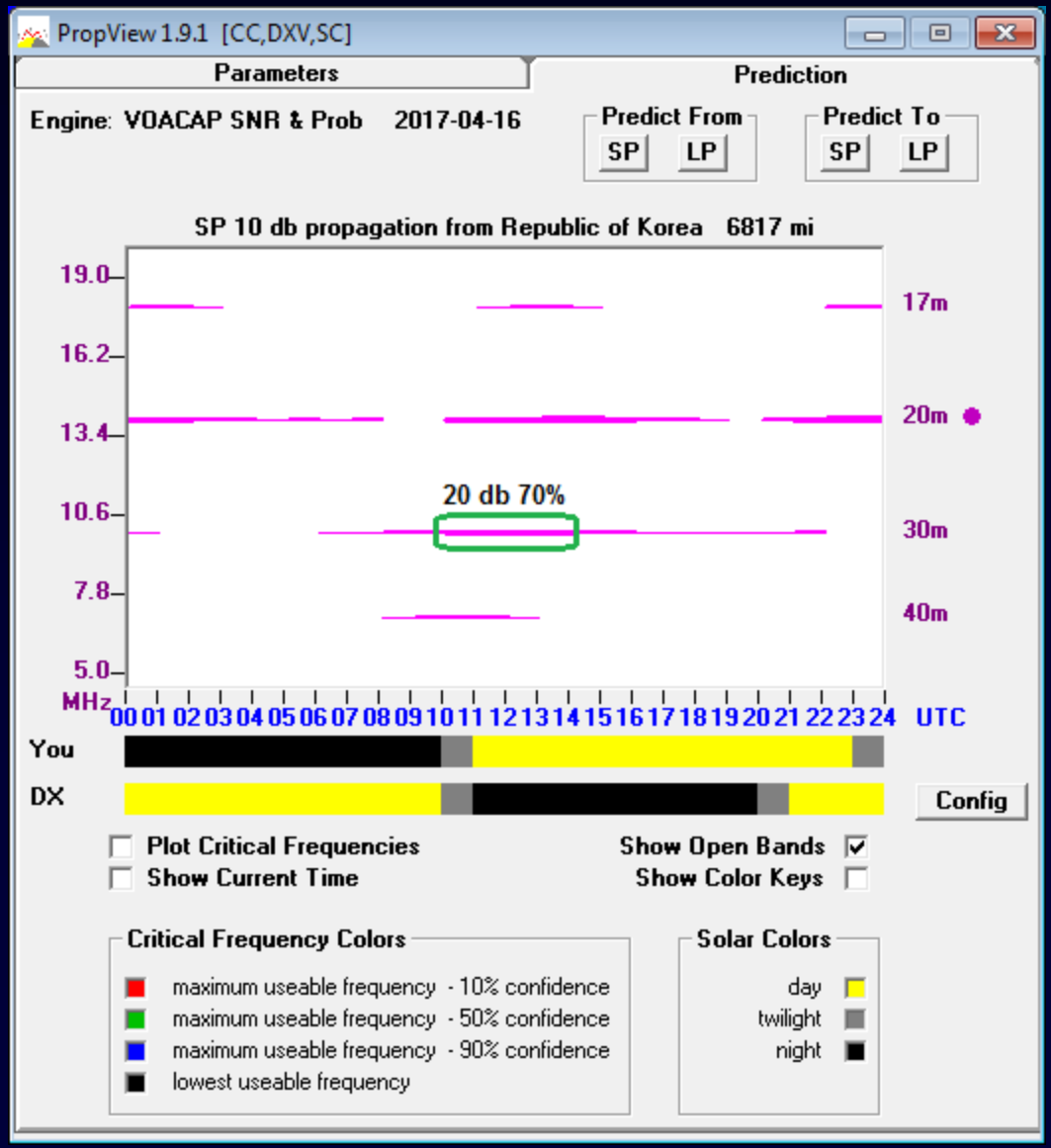
HL on 30m? Check Spots



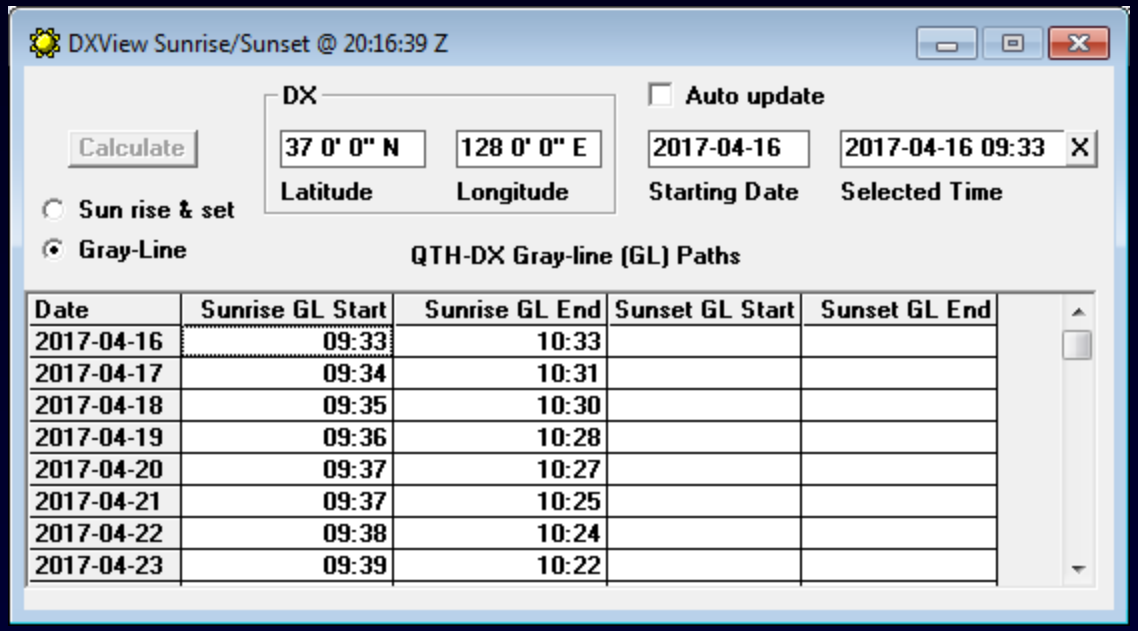
Check Propagation to HL on 30m



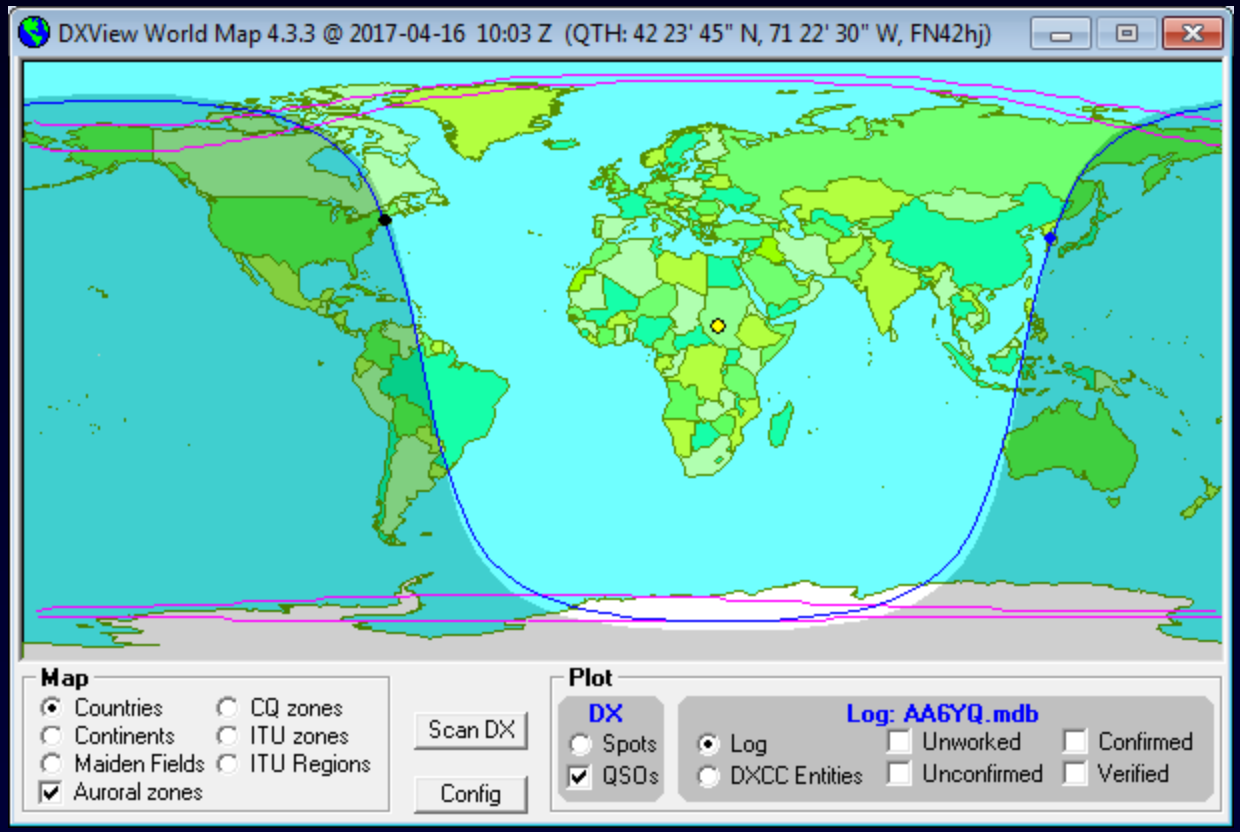
Check Propagation to HL on 30m



Check for Gray-Line Openings to HL



Check for Gray-Line Openings to HL



The Plan:

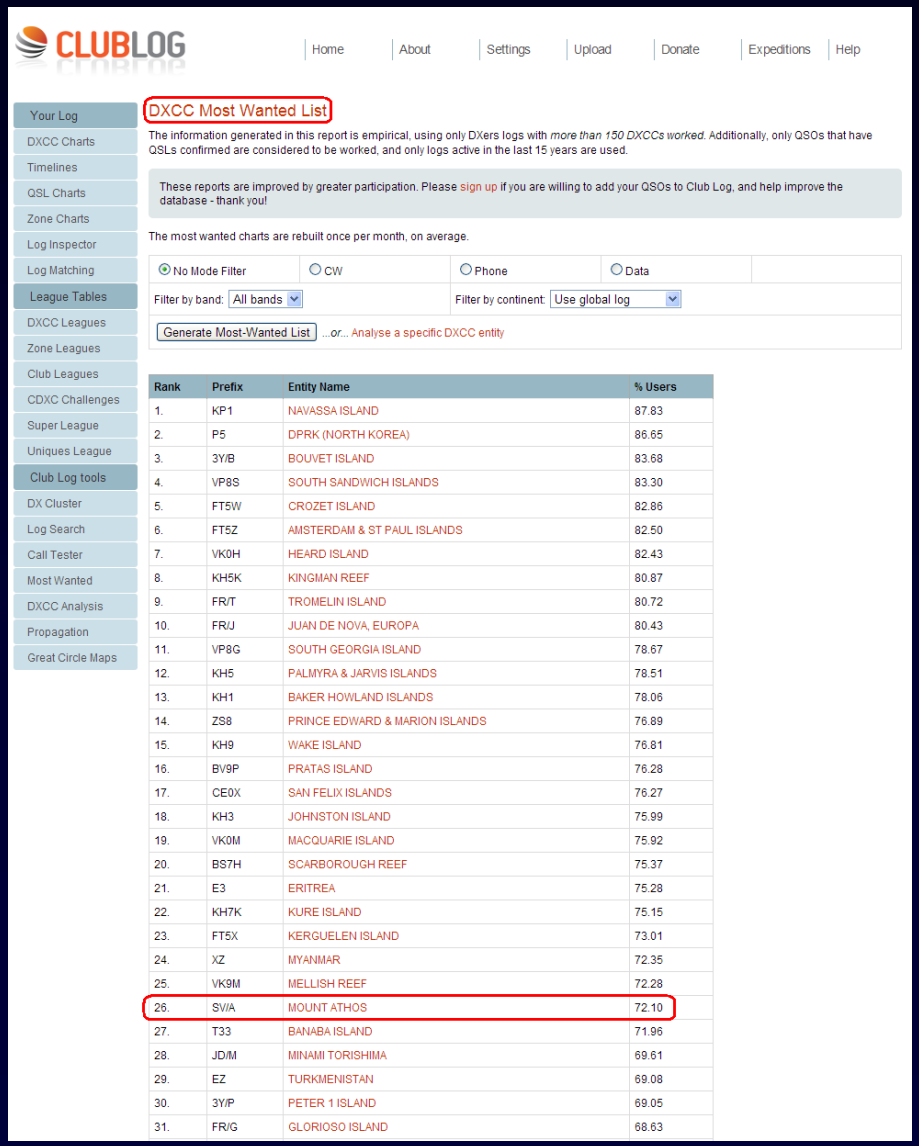
Focus on 30m from 10Z to 14Z (7pm to 11 pm Korean time)

Finding and Working Needed DX

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

Working Mount Athos

2013



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QSL Charts
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DXCC Leagues
Zone Leagues
Club Leagues
CDXC Challenges
Super League
Uniques League
Club Log tools
DX Cluster
Log Search
Call Tester
Most Wanted
DXCC Analysis
Propagation
Great Circle Maps

DXCC Most Wanted List

The information generated in this report is empirical, using only DXers logs with *more than 150 DXCCs worked*. Additionally, only QSOs that have QSLs confirmed are considered to be worked, and only logs active in the last 15 years are used.

These reports are improved by greater participation. Please sign up if you are willing to add your QSOs to Club Log, and help improve the database - thank you!

The most wanted charts are rebuilt once per month, on average.

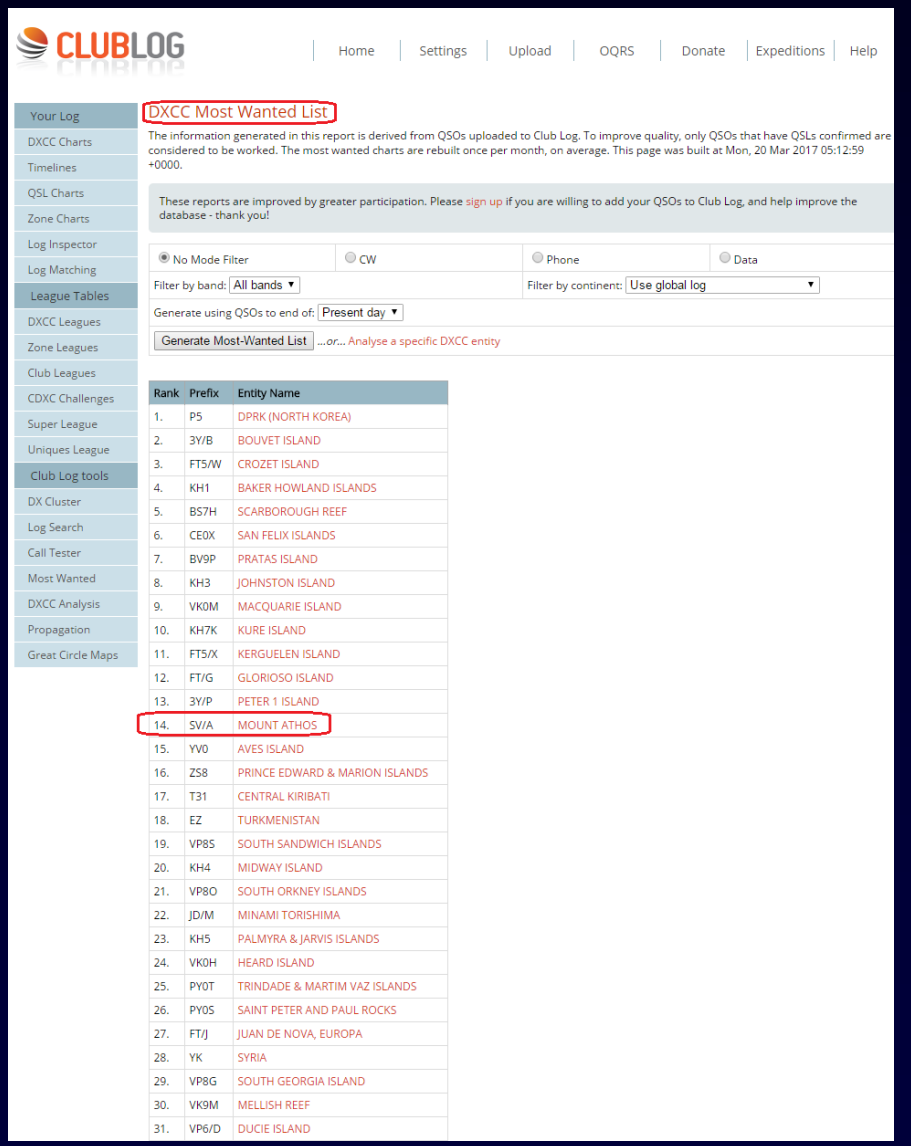
No Mode Filter | CW | Phone | Data

Filter by band: All bands | Filter by continent: Use global log

Generate Most-Wanted List ...or... Analyse a specific DXCC entity

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/J	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.	SV/A	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



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Propagation
Great Circle Maps

DXCC Most Wanted List

The information generated in this report is derived from QSOs uploaded to Club Log. To improve quality, only QSOs that have QSLs confirmed are considered to be worked. The most wanted charts are rebuilt once per month, on average. This page was built at Mon, 20 Mar 2017 05:12:59 +0000.

These reports are improved by greater participation. Please sign up if you are willing to add your QSOs to Club Log, and help improve the database - thank you!

No Mode Filter | CW | Phone | Data

Filter by band: All bands | Filter by continent: Use global log

Generate using QSOs to end of: Present day

Generate Most-Wanted List ...or... Analyse a specific DXCC entity

Rank	Prefix	Entity Name
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
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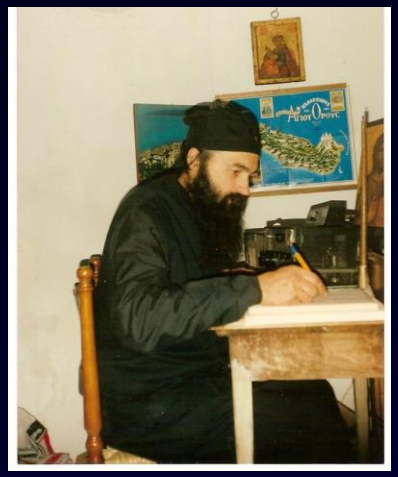
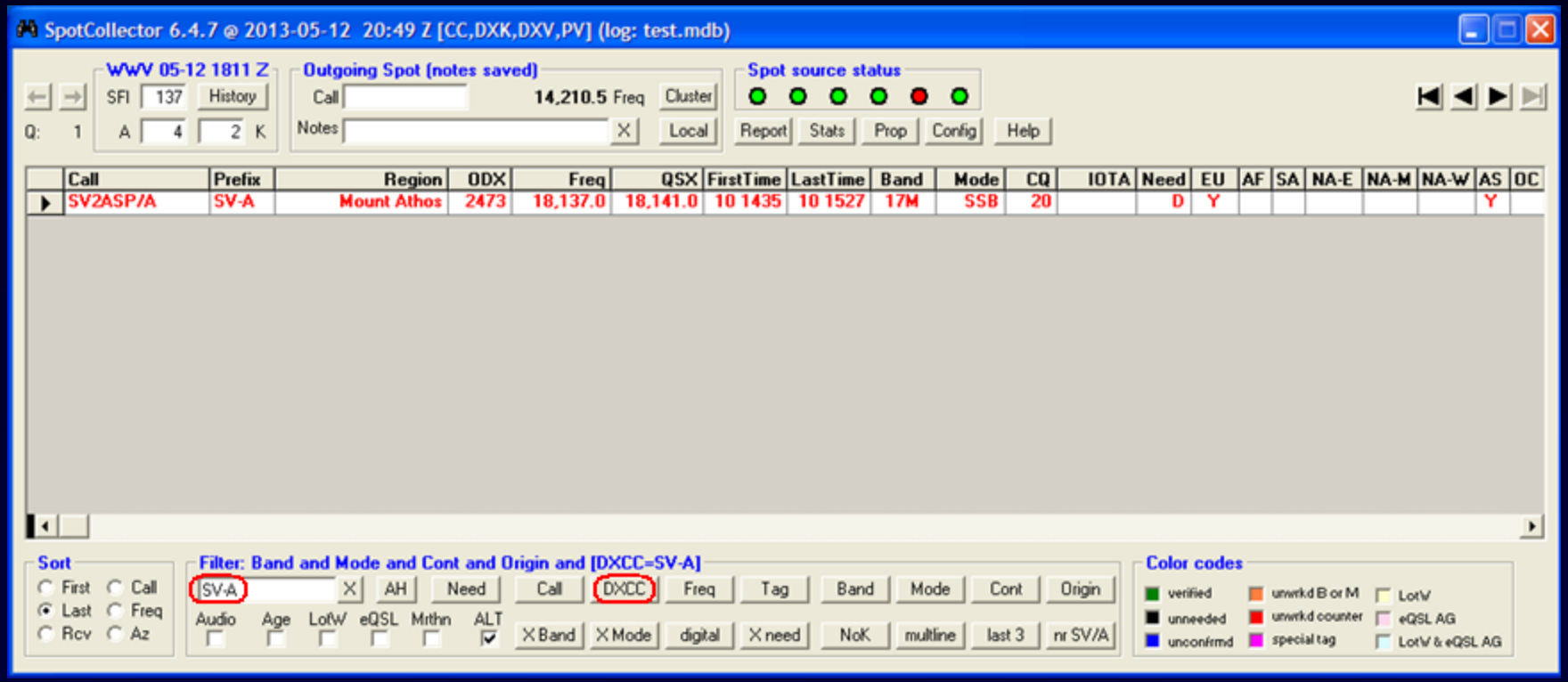
13.	3Y/P	PETER 1 ISLAND
14.	SV/A	MOUNT ATHOS
15.	YV0	AVES ISLAND
16.	ZS8	PRINCE EDWARD & MARION ISLANDS
17.	T31	CENTRAL KIRIBATI
18.	EZ	TURKMENISTAN
19.	VP8S	SOUTH SANDWICH ISLANDS
20.	KH4	MIDWAY ISLAND
21.	VP8O	SOUTH ORKNEY ISLANDS
22.	JD/M	MINAMI TORISHIMA
23.	KH5	PALMYRA & JARVIS ISLANDS
24.	VK0H	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	DUCIE ISLAND

Working Mount Athos: 2013 (SSN = 60)



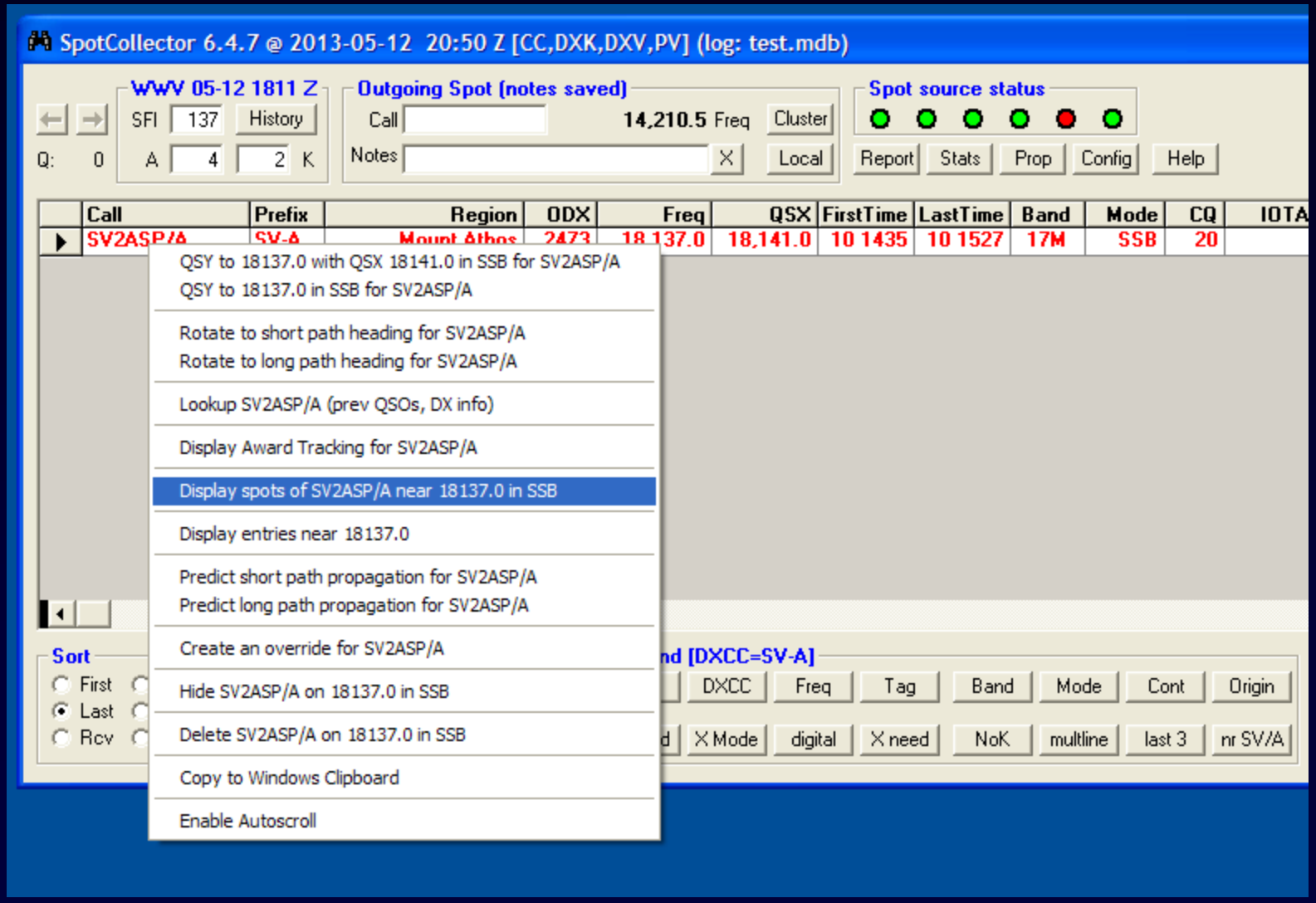
- Monk Apollo, SV2ASP/A
- resident of the Monastery of Docheiariou, with a heavy workload
- works all HF bands in SSB, RTTY, PACTOR, AMTOR, and CW
  - uses a 3-element SteppIR antenna
  - employs 200 hz shift in RTTY

Look for Recent Activity

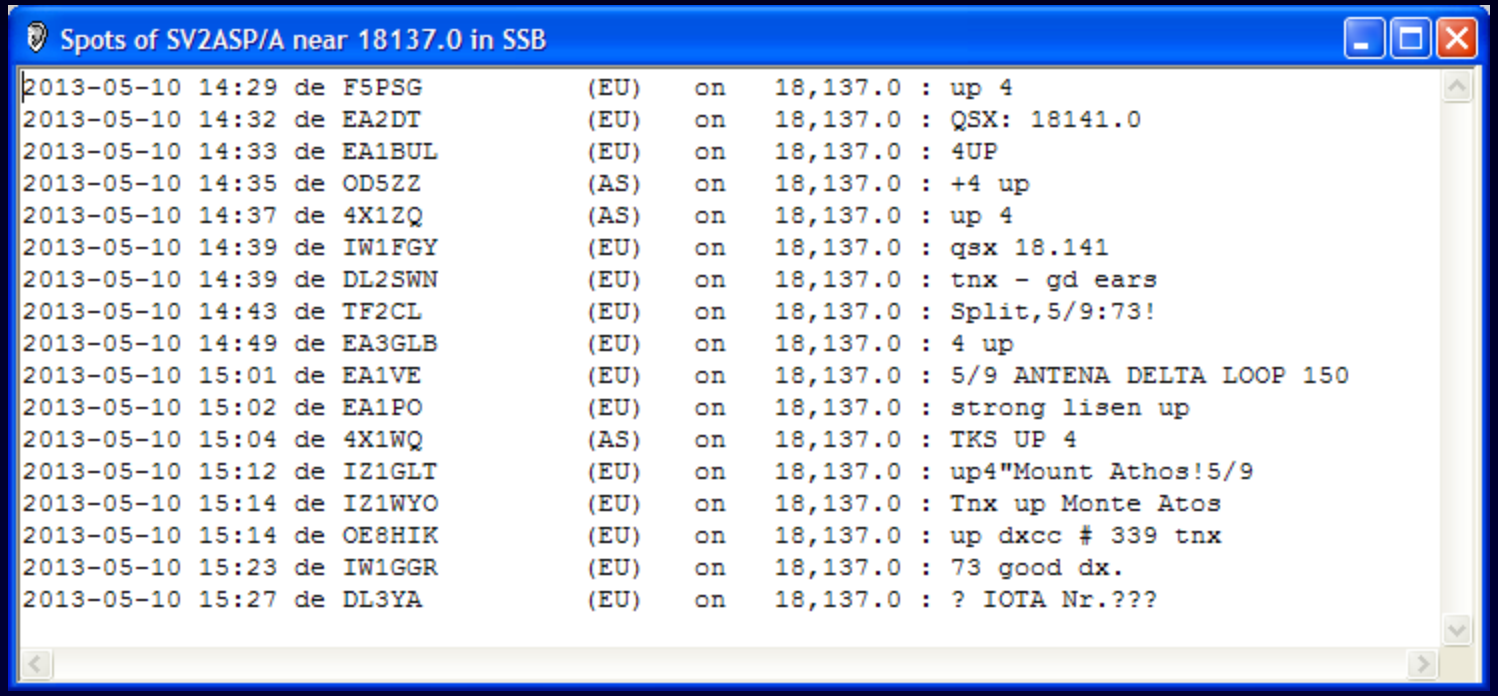


- QRV for an hour on 17 SSB
- Working split
- Spotted from EU and AS

Check Spots

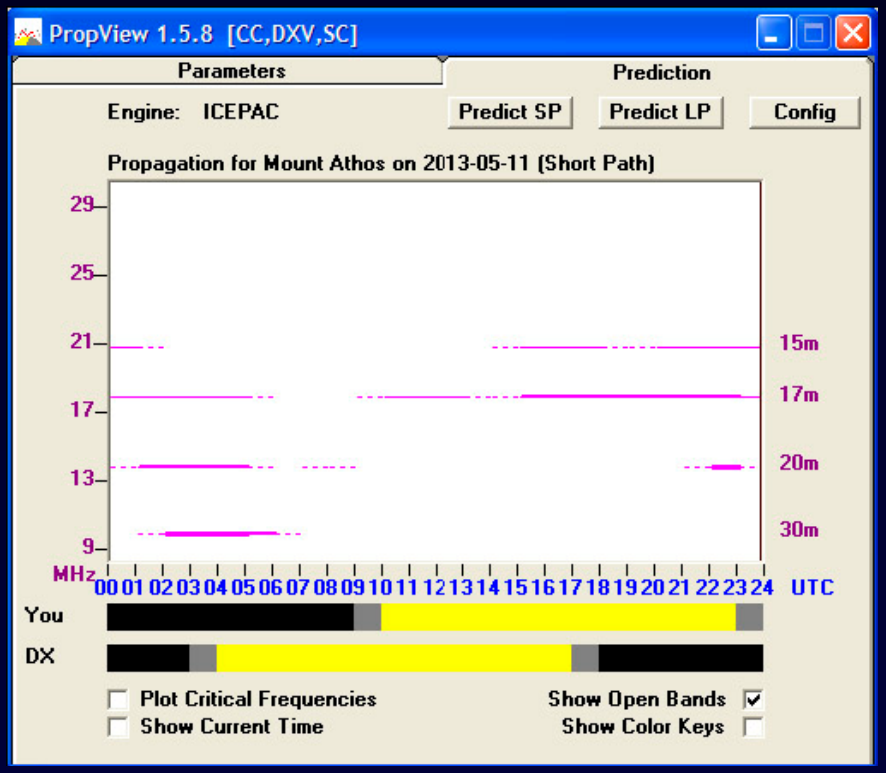

SpotCollector 6.4.7 @ 2013-05-12 20:50 Z [CC,DXK,DXV,PV] (log: test.mdb)
WWV 05-12 1811 Z
SFI 137
History
Q: 0
A 4
2 K
Outgoing Spot (notes saved)
Call
14,210.5 Freq
Cluster
Notes
X
Local
Spot source status
Report
Stats
Prop
Config
Help
Call
Prefix
Region
QSX
FirstTime
LastTime
Band
Mode
CQ
IOTA
SV2ASP/A
SV-A
Mount Athos
2473
18,137.0
18,141.0
10 1435
10 1527
17M
SSB
20
QSY to 18137.0 with QSX 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
nd [DXCC=SV-A]
DXCC
Freq
Tag
Band
Mode
Cont
Origin
X Mode
digital
X need
NoK
multline
last 3
nr SV/A

Check Spots

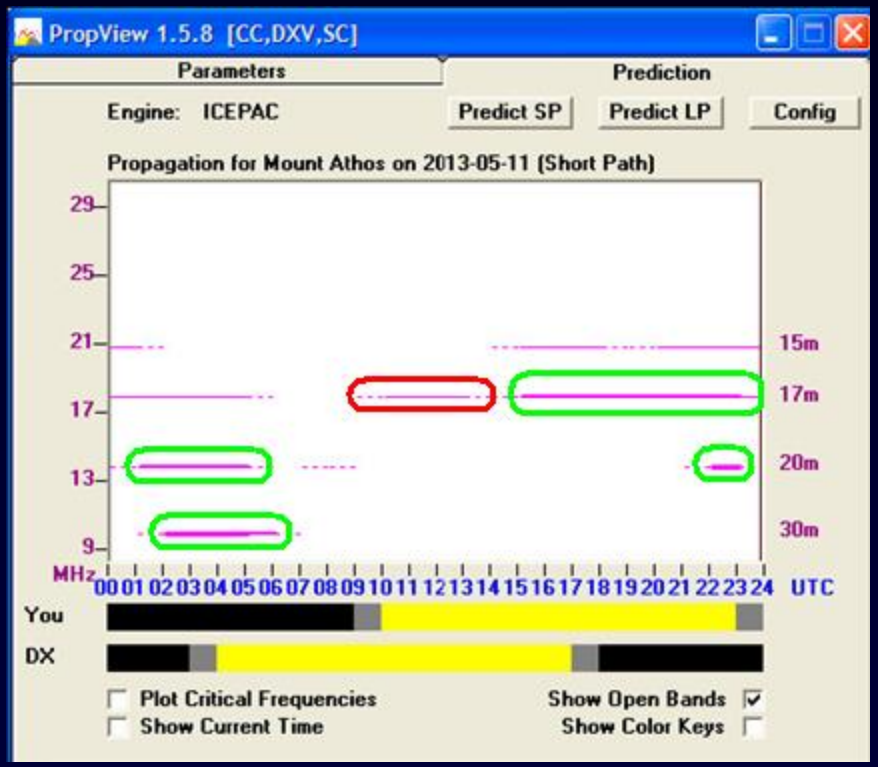


- Consistently “up 4”? slugfest
- EU spotters in DL, EA, F, I, OE, TF
- AS spotters in 4X and OD

Forecast Propagation



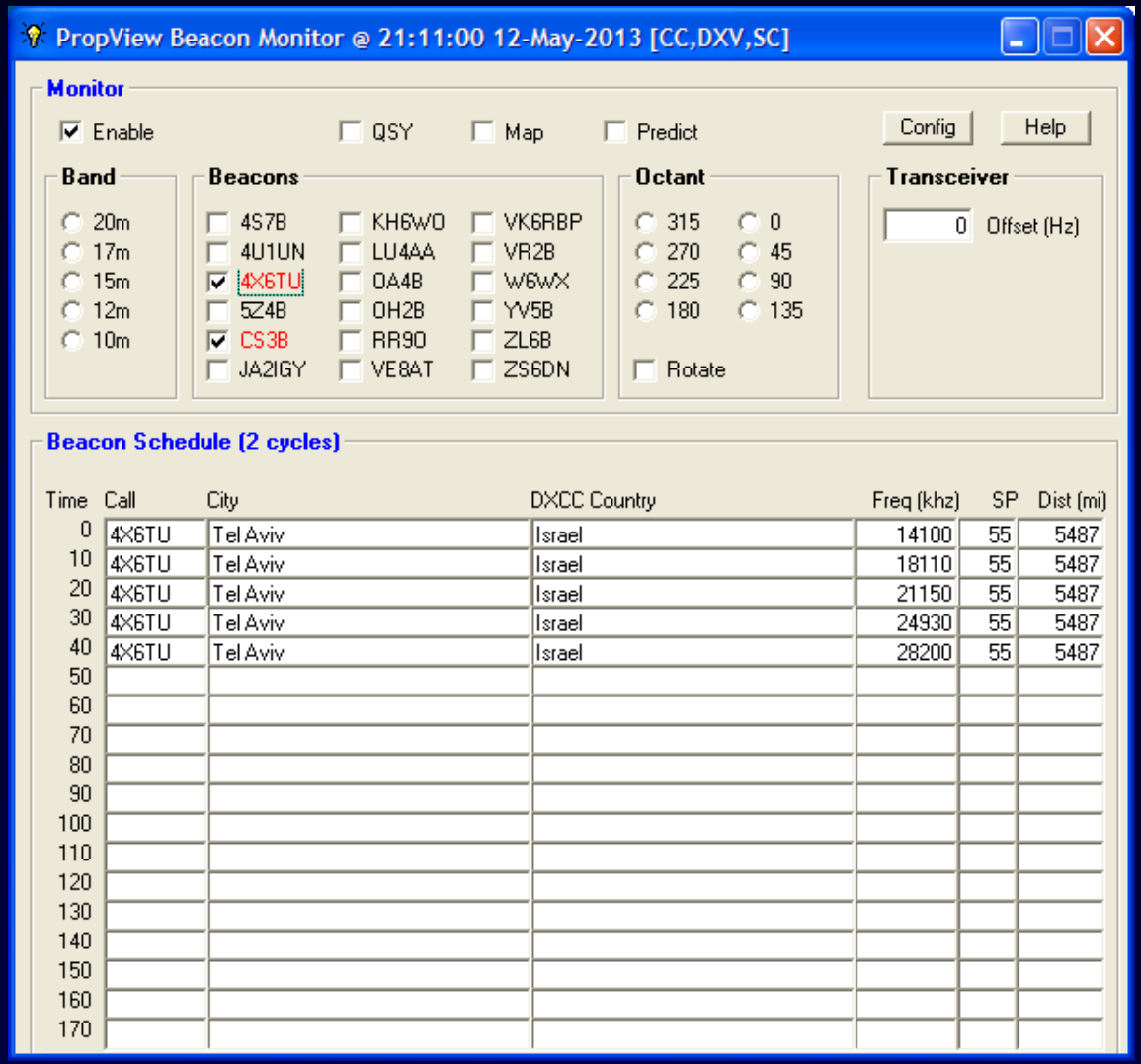
Forecast Propagation



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

Check “Actual” Propagation

No NCDXF Beacons are Close to SV-A

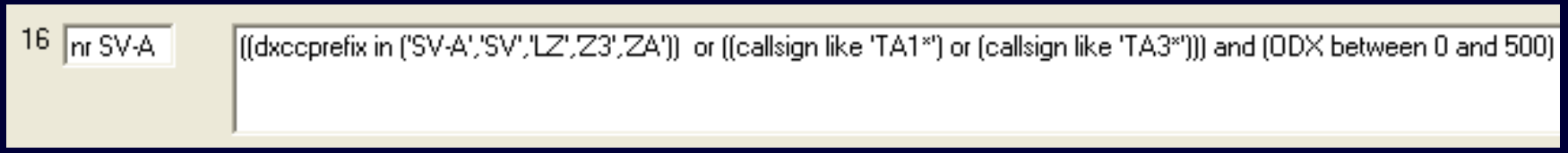


Check “Actual” Propagation

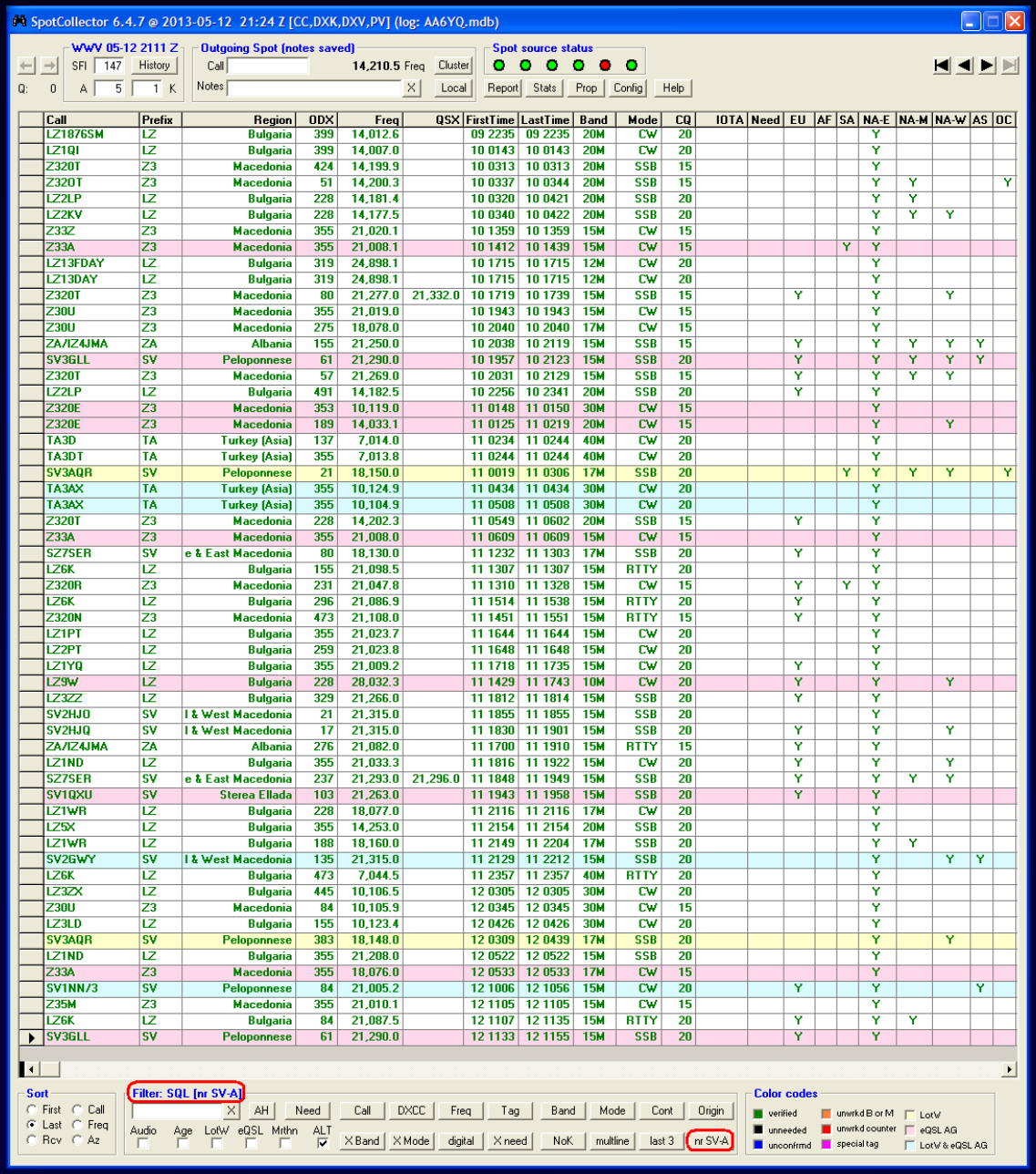
Who Near Me has been Spotting Stations Near SV-A?

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

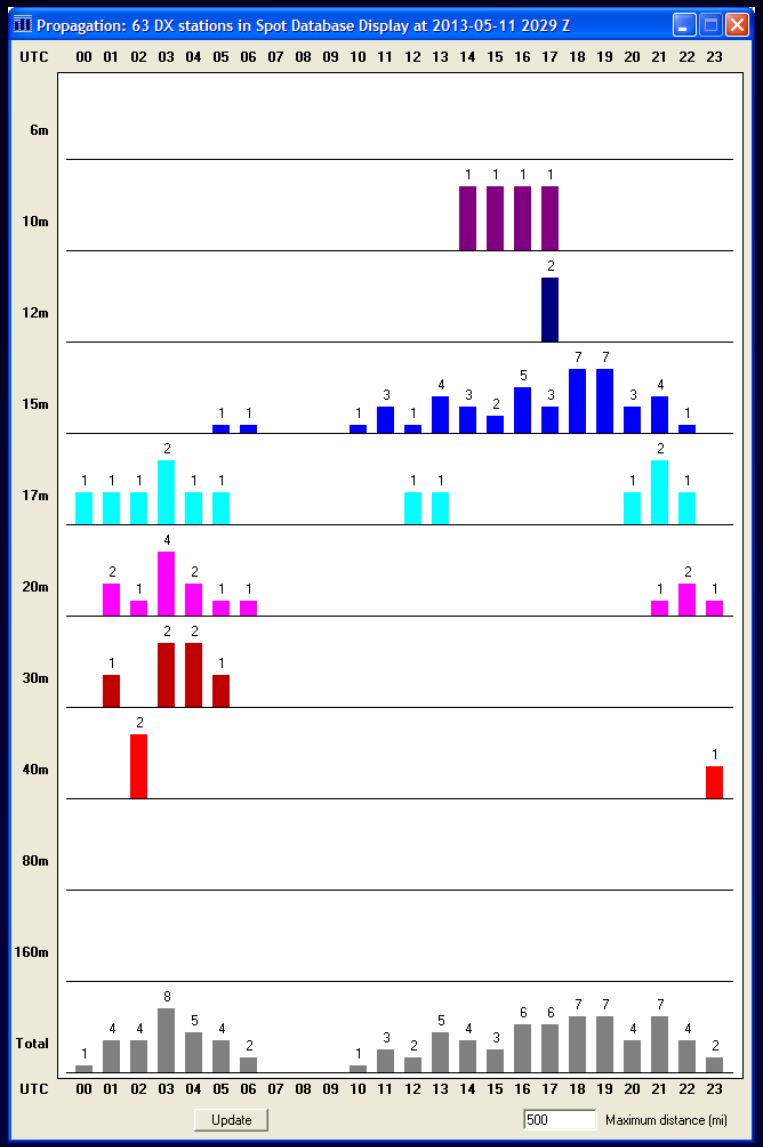
- in SV-A, SV, LZ, Z3, ZA, TA1, or TA3
- spotted by stations less than 500 miles from my QTH



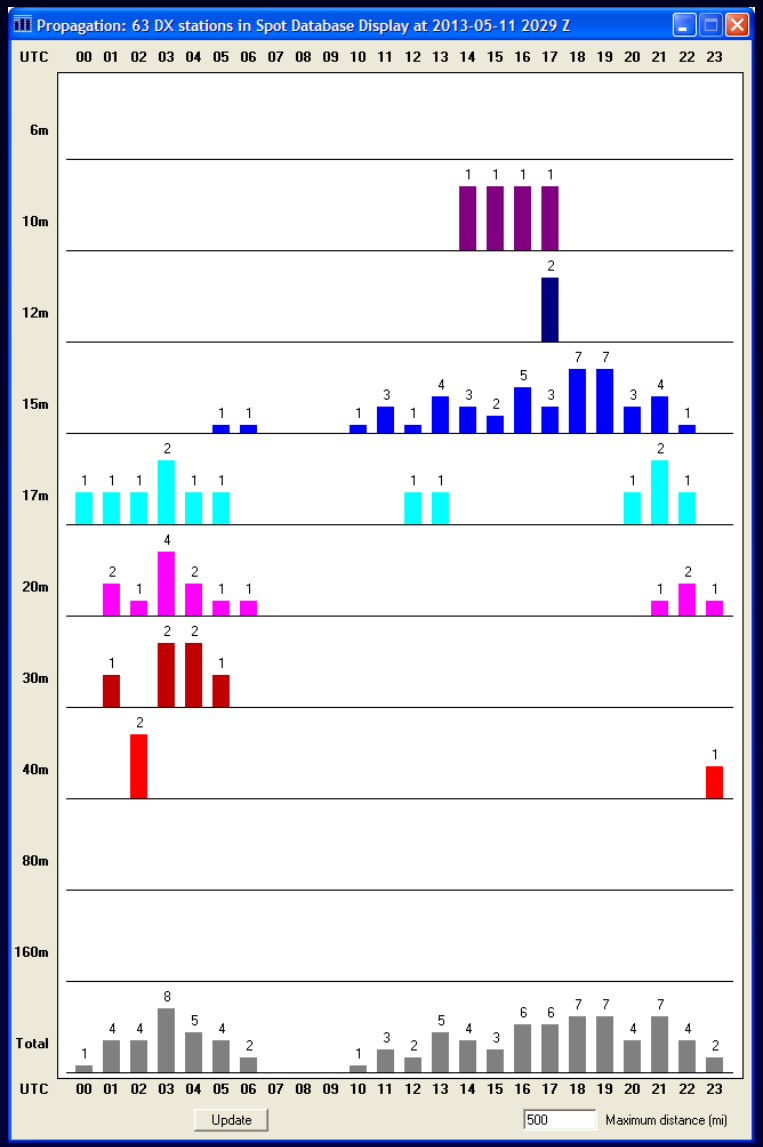
Propagation from “Near Me” to “Near SV-A”

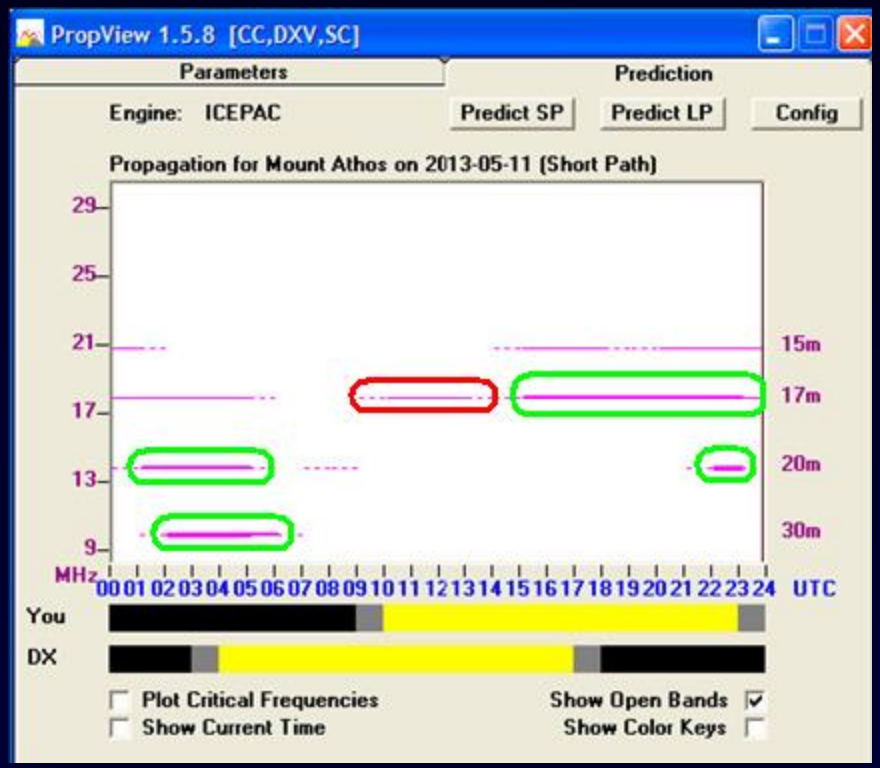


Actual Propagation by Band & Time-of-Day



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

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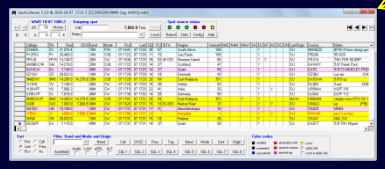
Logged QSOs



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World Map

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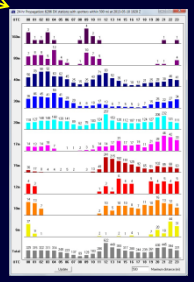

Propagation

Insert an Entry in the Spot Database

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"Local Spot"

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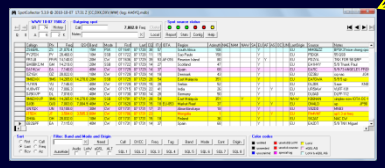

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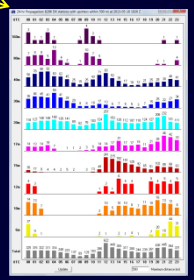
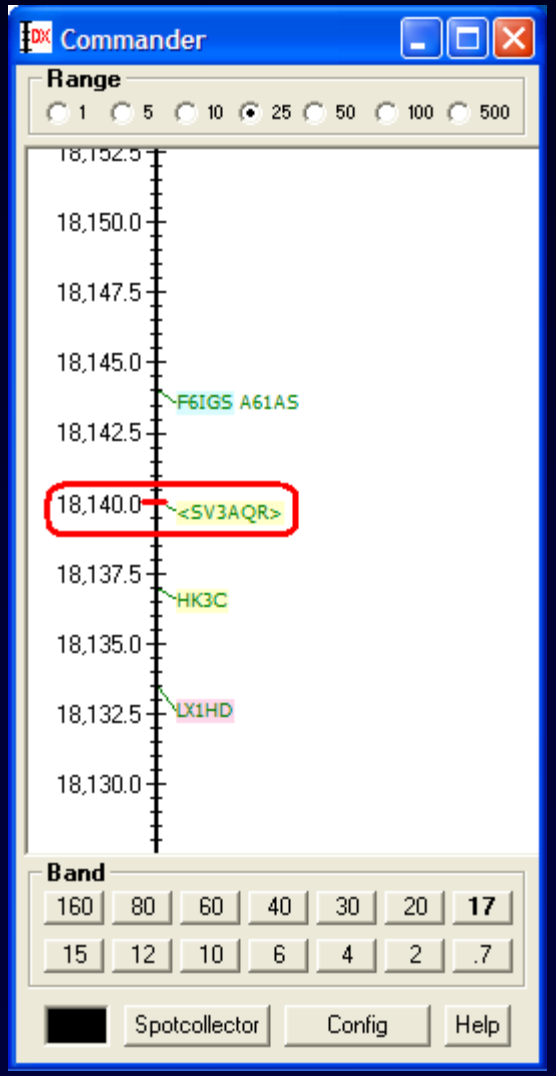


Propagation

Blueprinting the Band

"Locally Spot" Every Station You Identify



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Employ a European DX Cluster

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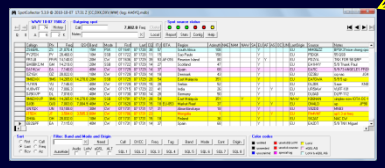

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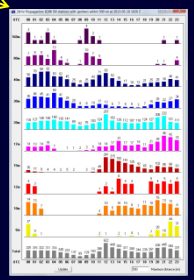

Propagation

Employ a European DX Cluster

DX Spot Sources

EU

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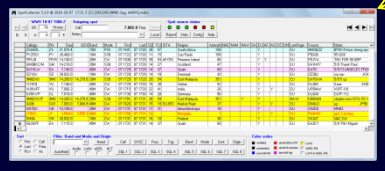
- WAZ needs

Logged QSOs

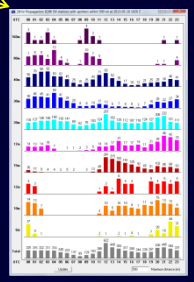


Tabular Display

Audio & Email

World Map

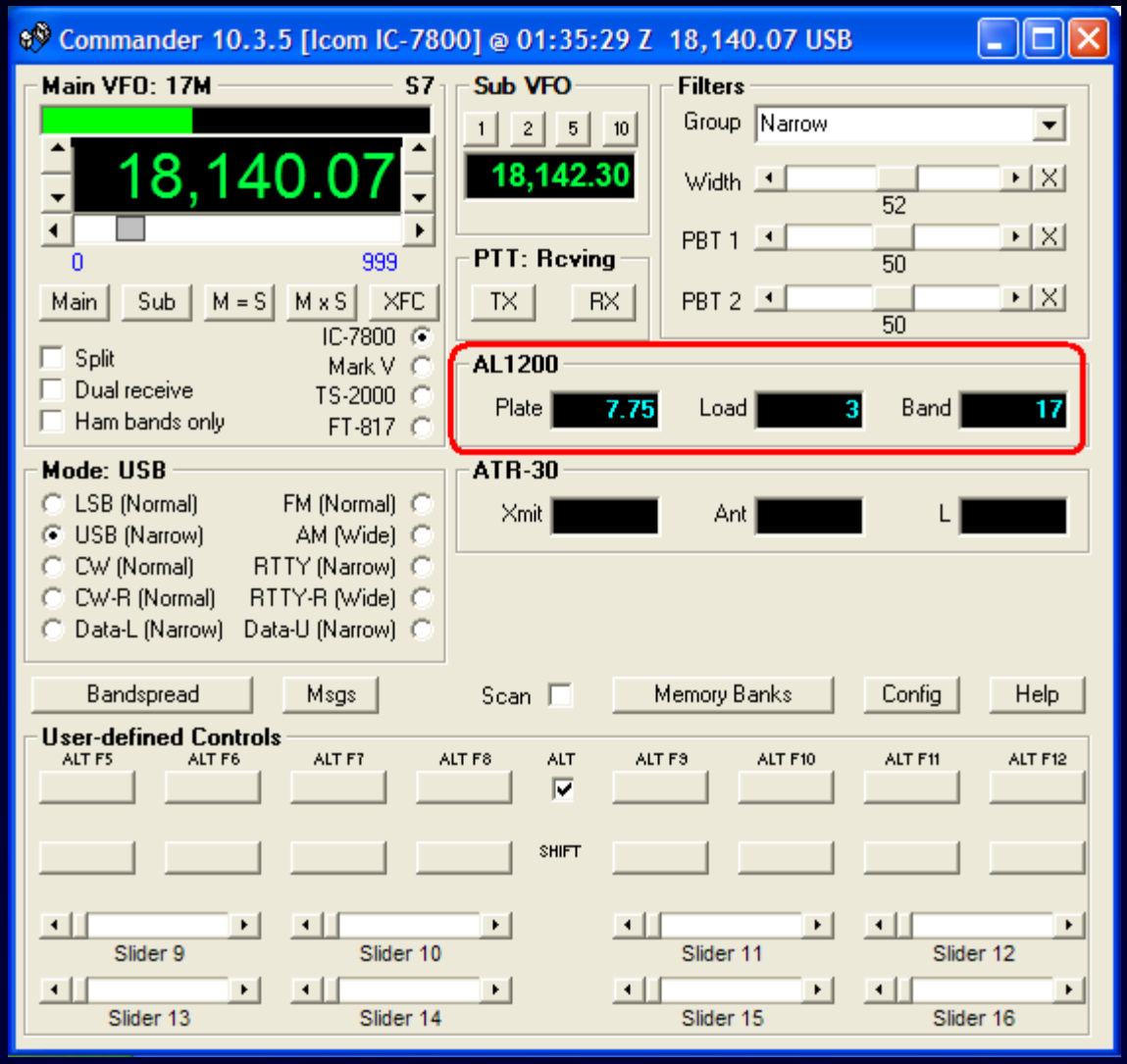
Bandspread



Propagation

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 panadapter to rapidly locate Monk Apollo's listening frequency


Commander 10.3.5 [Icom IC-7800] @ 01:35:29 Z 18,140.07 USB
Main VFO: 17M
S7
18,140.07
0
999
Main
Sub
M = S
M x S
XFC
Split
Dual receive
Ham bands only
IC-7800
Mark V
TS-2000
FT-817
Sub VFO
1
2
5
10
18,142.30
PTT: Rcving
TX
RX
Filters
Group
Narrow
Width
52
PBT 1
50
PBT 2
50
AL1200
Plate
7.75
Load
3
Band
17
ATR-30
Xmit
Ant
L
Mode: USB
LSB (Normal)
USB (Narrow)
CW (Normal)
CW-R (Normal)
Data-L (Narrow)
FM (Normal)
AM (Wide)
RTTY (Narrow)
RTTY-R (Wide)
Data-U (Narrow)
Bandspread
Msgs
Scan
Memory Banks
Config
Help
User-defined Controls
ALT F5
ALT F6
ALT F7
ALT F8
ALT
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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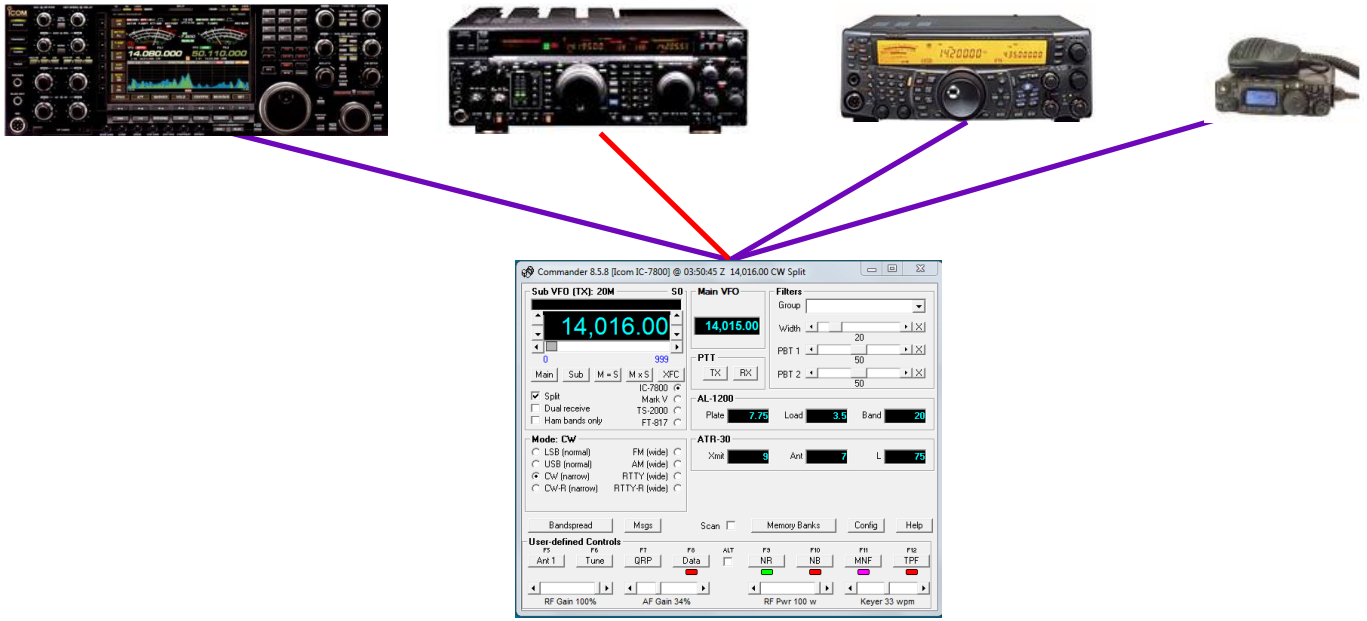
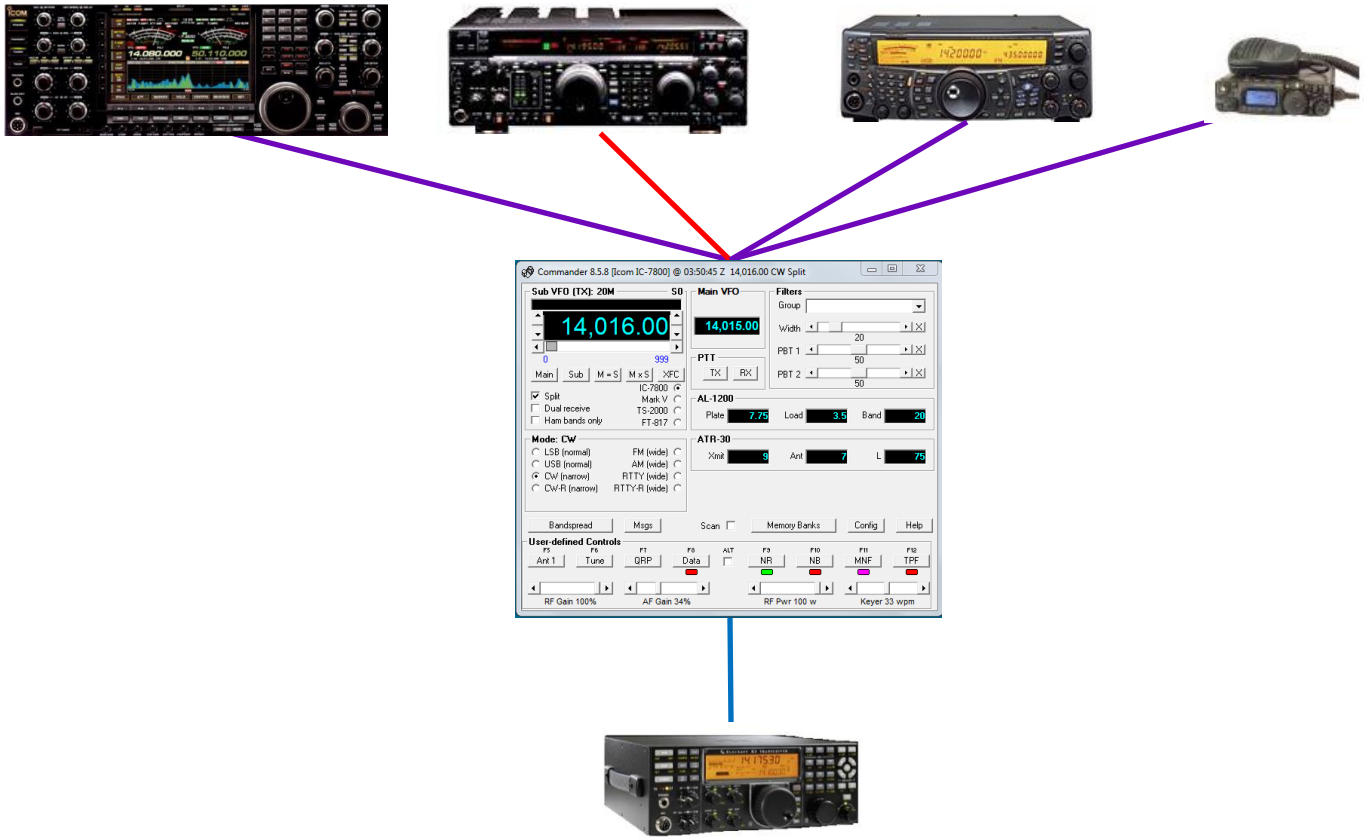
Commander: Multiple Radio Support



Select one of four *primary* radios

- By button click
- Automatically as a function of frequency

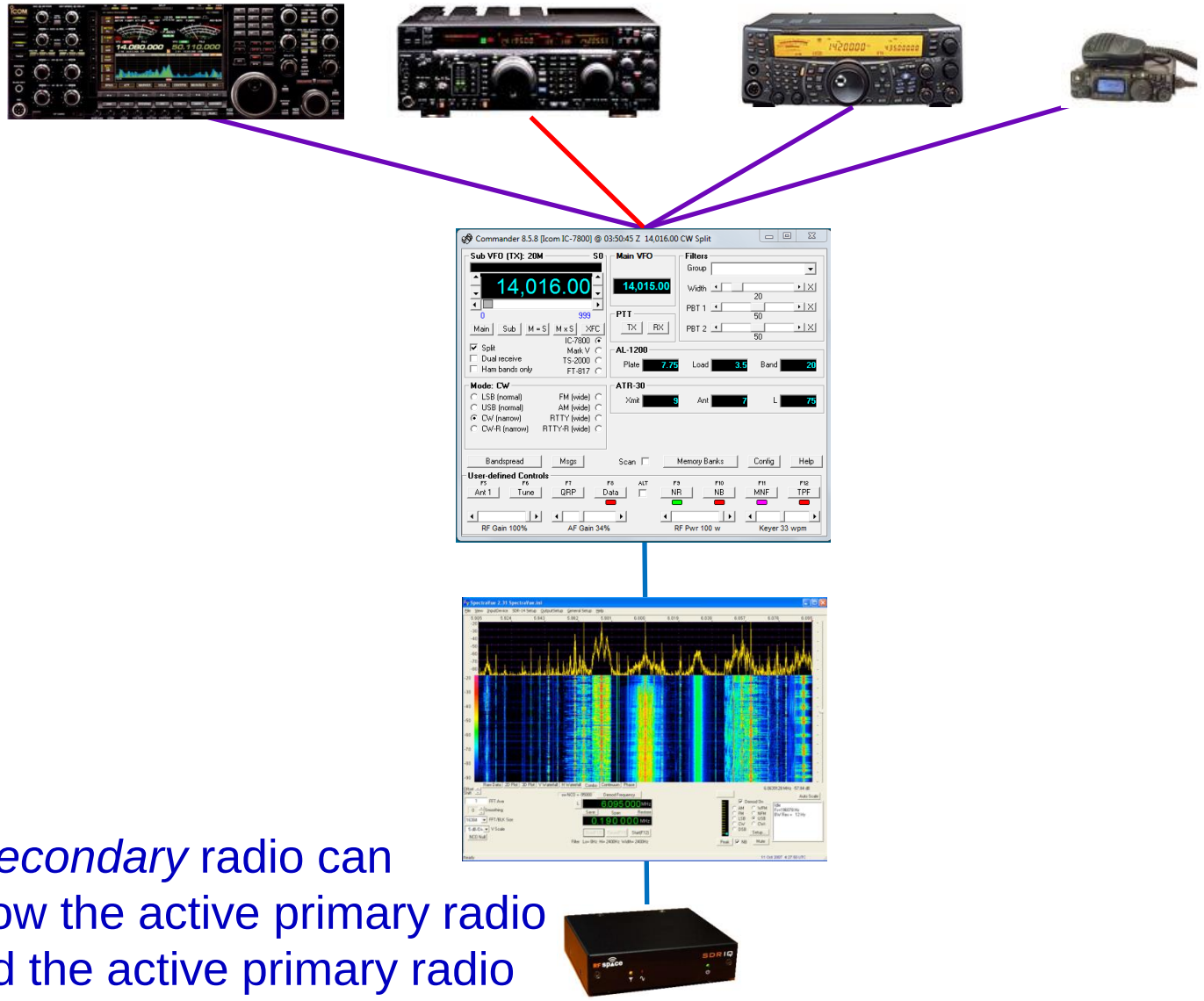
Commander: Multiple Radio Support



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
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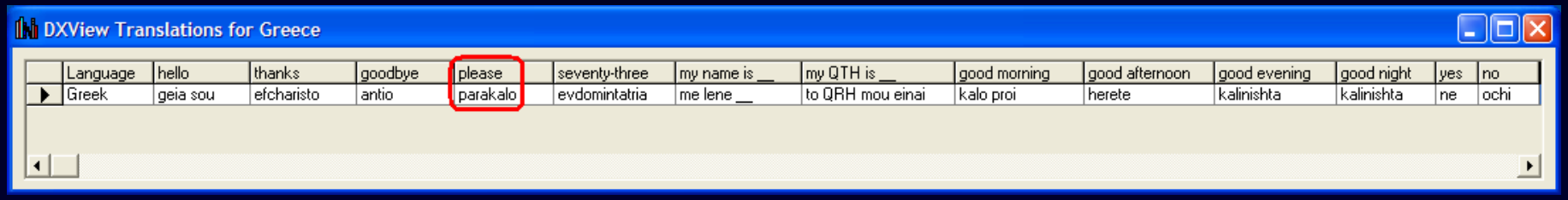
4. Use dual receivers and a panadapter to rapidly locate Monk Apollo’s listening frequency

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

Commander | DXView | DXKeeper | Launcher | Pathfinder | PropView | SpotCollector | WinWarbler

Download

New Users

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, Prosistel, 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, Hollyland, 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 Phone voice keyer
- DX and WWV 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(5), DX Atlas(5)

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

520211

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

www.dxlabsuite.com

Better DXing Through Software