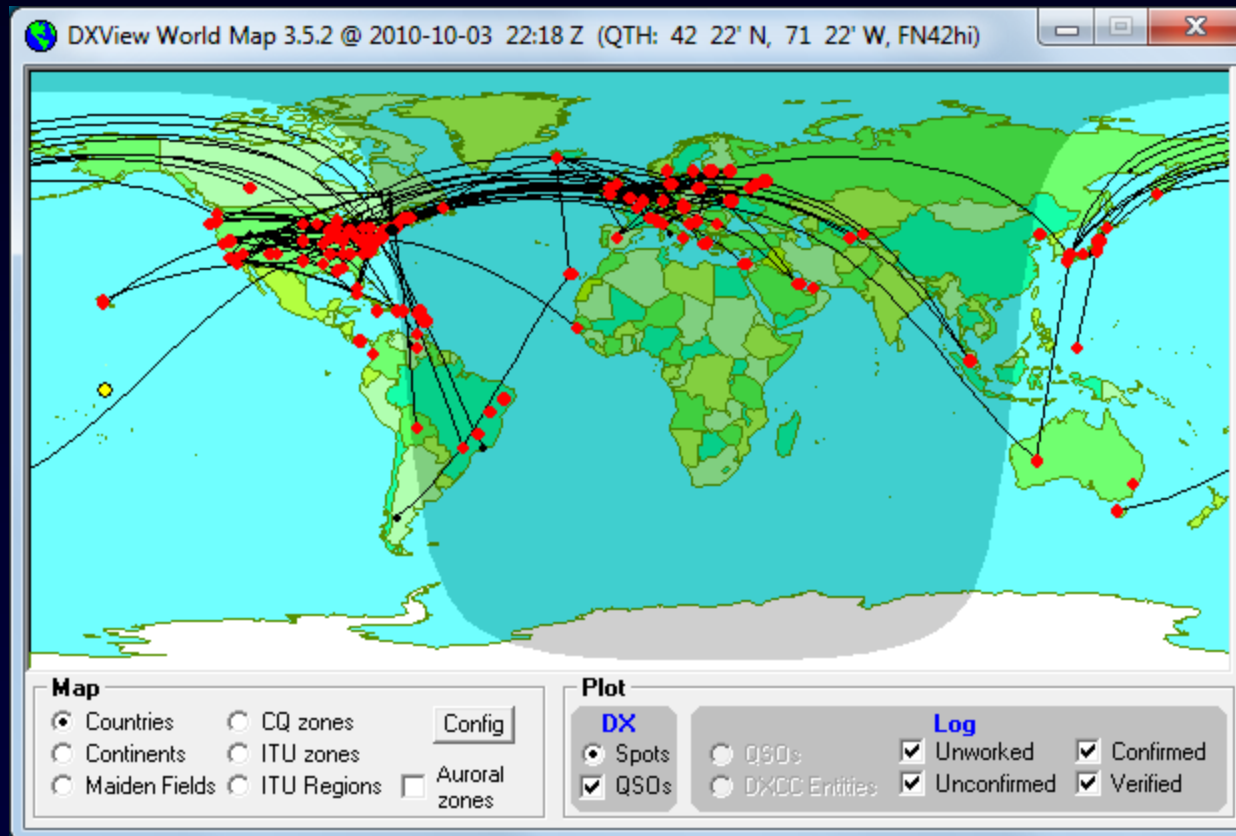


DXing with DXLab

v2.0 2014-09-03



Better DXing Through Software

DXing

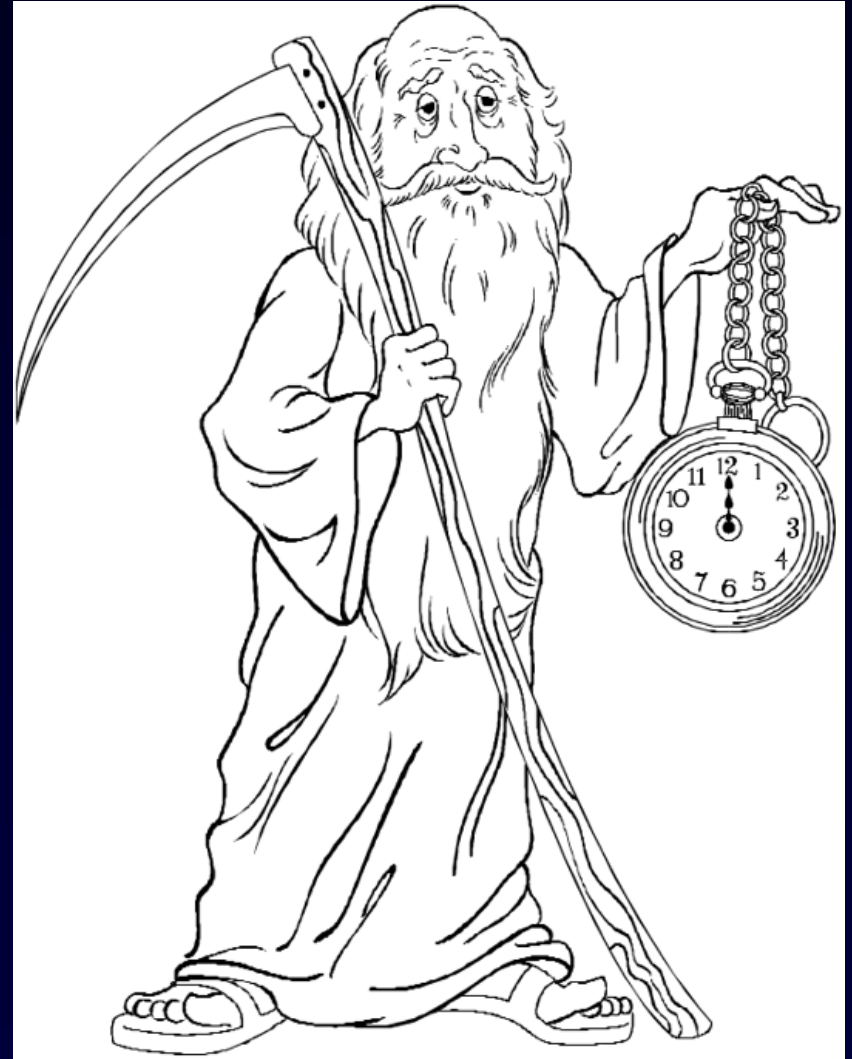
The art and science
of making two-way contacts
with distant amateur radio stations
using phone, CW, or digital modes

“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



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

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 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! | |

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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! | |

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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 | | |

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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

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

AA6YQ cfms a 2X QSO with JT5DX

| Date | Time | Freq | Mode | RST |
|-----------|-------|--------|------|-----|
| 19-Sep-10 | 2323Z | 18.075 | CW | 599 |

AA6YQ cfms 2X QSOs with VQ9LA

| Date | Time | Freq | Mode | RST |
|-----------|-------|--------|------|-----|
| 17-Sep-09 | 1522Z | 18.087 | CW | |
| 21-Feb-10 | 0112Z | 10.117 | CW | 599 |
| 08-Aug-10 | 0144Z | 7.002 | CW | 599 |

AA6YQ cfms 2X QSOs with VQ9LA

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

QSL “Aging”

AA6YQ QSL aging analysis @ 2014-09-04

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

missing VUCC grid-bands:    3

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

missing WAZ zones:         0
missing WAZ zone-bands:    1
missing WAZ zone-modes:    0
missing WAZ zone-band-modes 0

missing WPX prefixes:      0
missing WPX prefix-bands:  3
missing WPX prefix-modes:  0
```

| Call | Band | Mode | QSO Date | DXCC | Grid1 | State | CQ | WPX | QSL Date | Weeks | Need |
|--------|------|------|------------|------|-------|-------|----|-----|------------|-------|------------------------------------|
| LA6SL | 6M | CW | 2001-11-21 | LA | JP50 | | 14 | LA6 | 2001-11-24 | 667 | VUCC, WPX |
| CE4WJK | 6M | SSB | 2011-09-19 | CE | FF45 | | 12 | CE4 | 2011-10-05 | 152 | VUCC, WPX |
| TJ3SN | 6M | CW | 2014-05-10 | TJ | JJ53 | | 36 | TJ3 | 2014-07-09 | 8 | DXCC (entity-band), VUCC, WAZ, WPX |

QSL Automation

- Generates QSL cards and Labels
- Generates Address labels or prints envelopes
- Support for eQSL.cc and ARRL's LotW
 - One-click upload
 - One-click download and update
 - Independent tracking
- Automatic upload to Club Log
- Generates files for
 - BV, QSL Maker, QSL Design and Print
 - Online QSL Request Service (OQRS), Global QSL

Award Tracking

- DXCC* & Challenge
- CQ DX
- CQ DX Marathon
- CQ Field
- Gridsquares
- IOTA
- TOPLIST
- VUCC
- Worked All Continents
- Worked All Europe
- Worked All Prefixes
- Worked All Zones
- Worked All British Areas
- Worked All Canadian Provinces
- Worked All French Departments
- Worked All German 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 Russian Oblasts
- Worked All Russian Districts
- Worked All US States
- Worked All US Counties

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

DXing With DXLab

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Drivers

1. User-driven iterative development

- Open Yahoo group with 4000+ 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, and 8

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

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

the DXLab Suite

Eight free applications that run individually

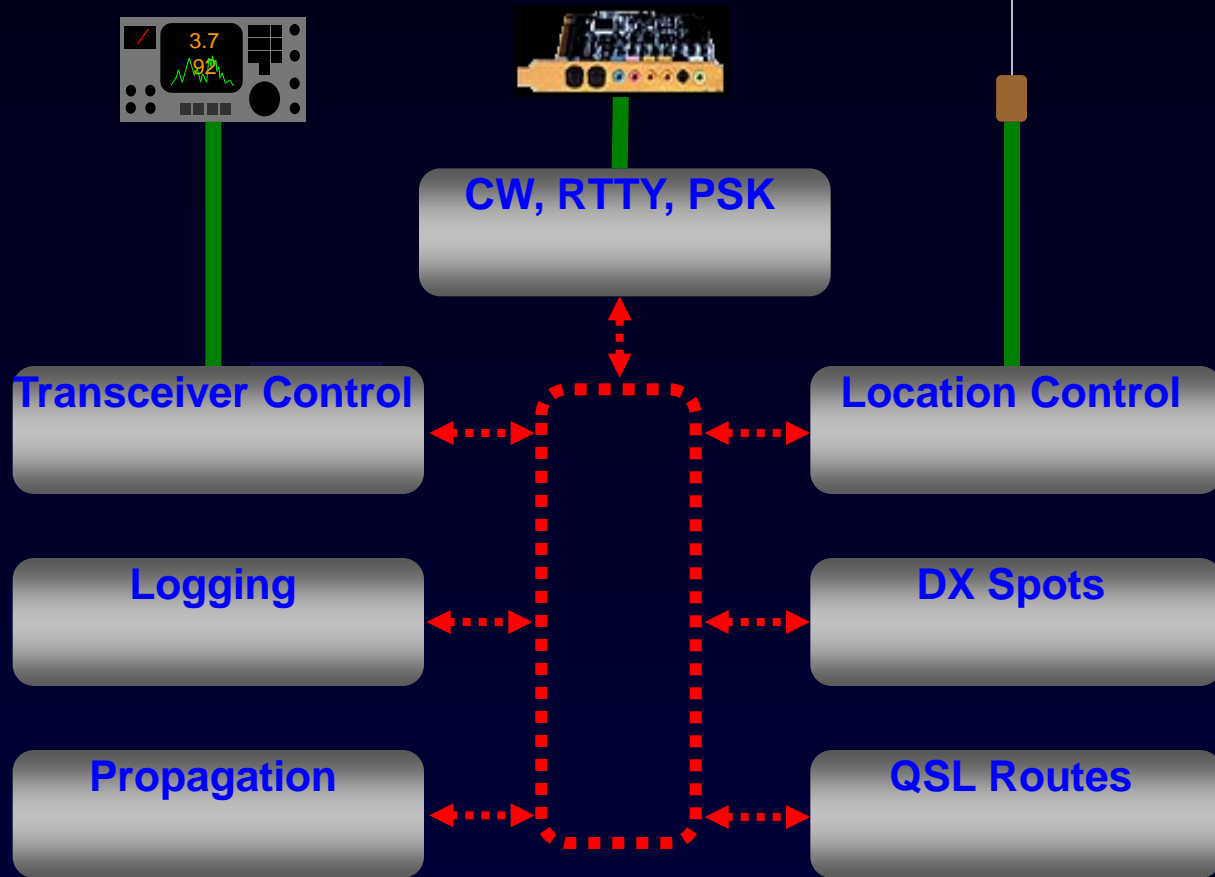
but

when run simultaneously sense each other's presence

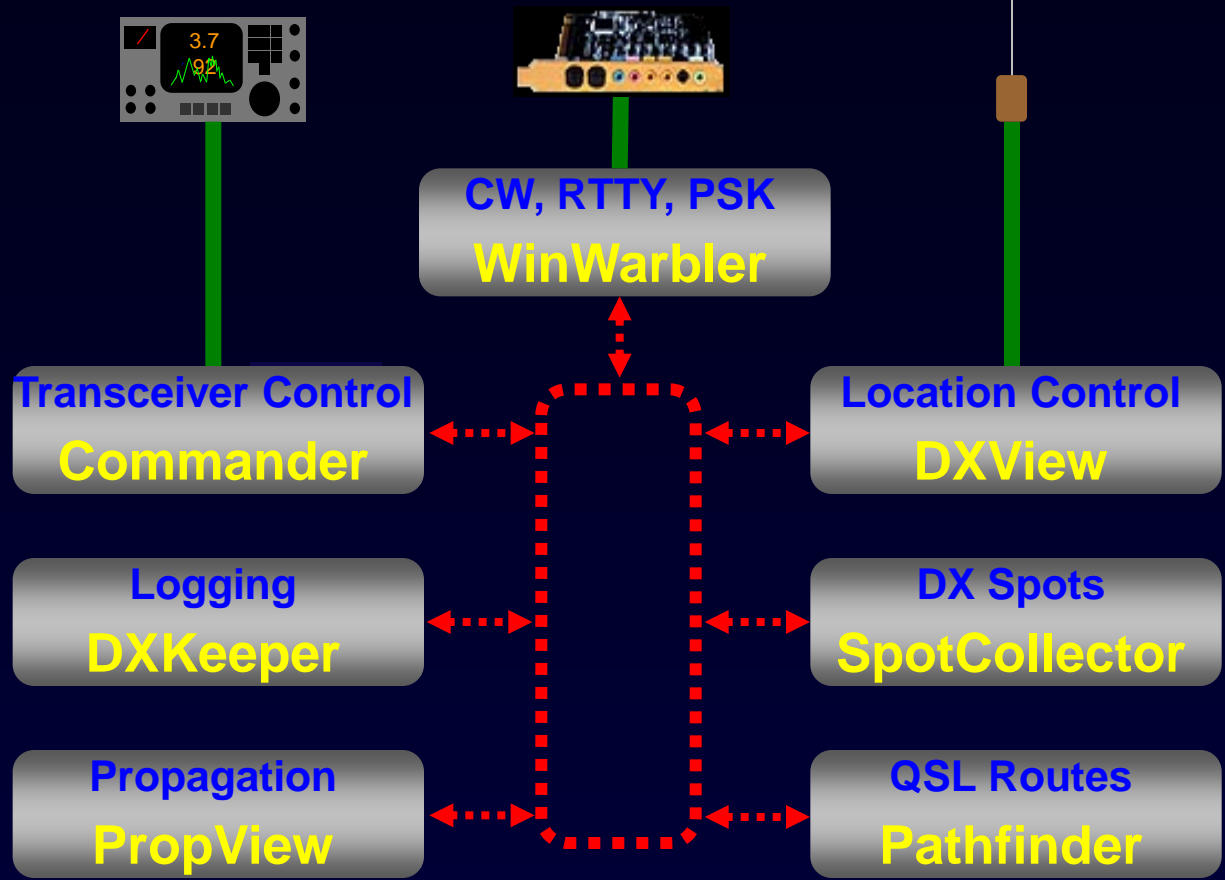
and

interoperate automatically

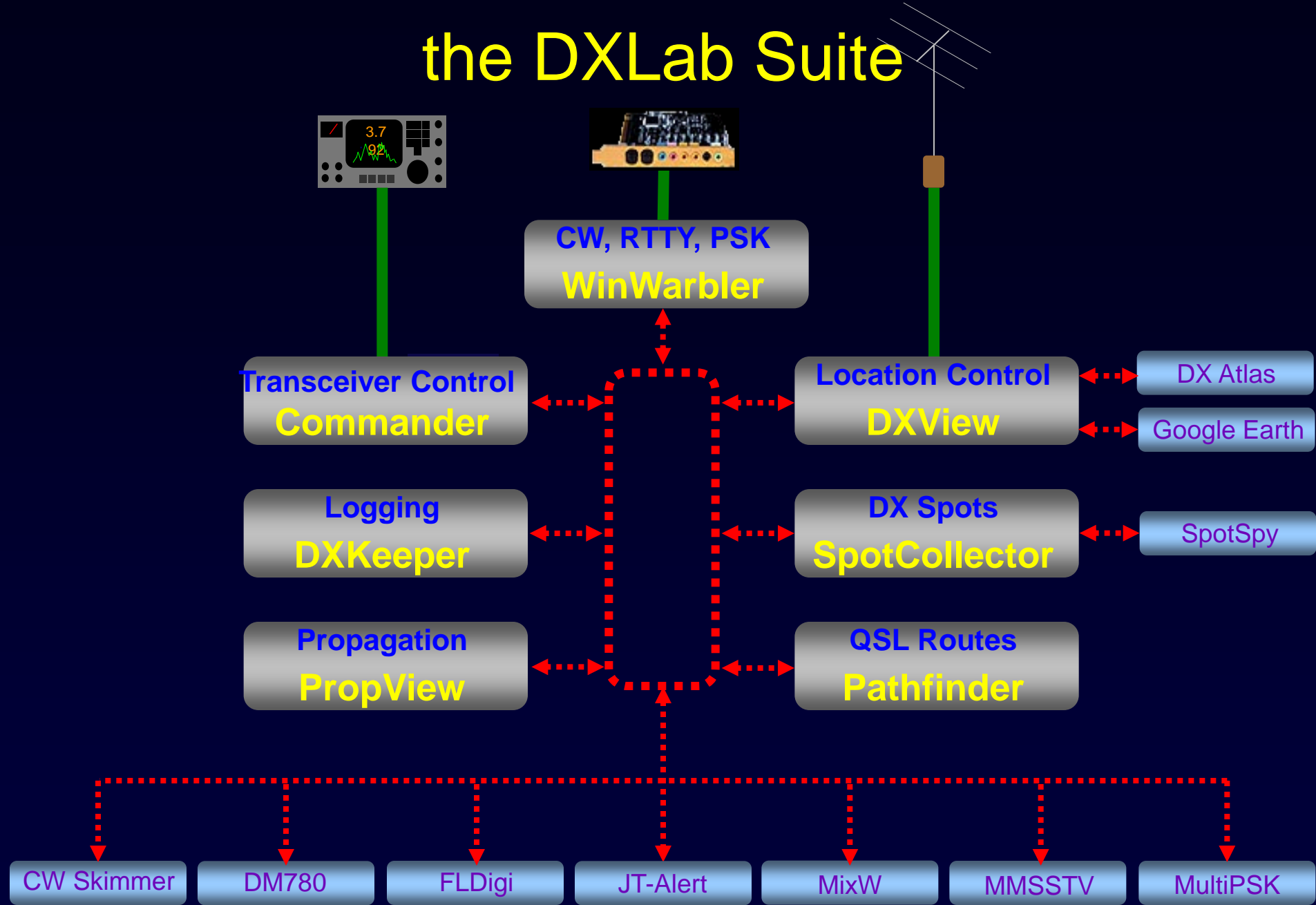
the DXLab Suite



the DXLab Suite



the DXLab Suite



A Suite of DXing Applications

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

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

QSO: Jordan

call: JY4NE name: QTH:
 mode: RTTY via: tx freq: 14.086765 begin: 9/20/2010 18:37
 sent: 599 rcvd: 599 tx band: 20M rx freq: 14.086764 end: 9/20/2010 18:37
 power: 1500 code: 342 DXCC: JY entity: Jordan

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

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

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

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

WVWV 10-04 1806 Z Outgoing spot 14,086.2 Freq Cluster Spot source status

Call: 14,086.2 Freq: Cluster: Local: Report Stas Config Help

| 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-# |

Sort: First Call Last Freq Rcv Az Filter: Band and Mode Need Call DXCC Freq Tag Band Mode Cont Origin AutoHide Audio LotW eQSL ALT SQL1 SQL2 SQL3 SQL4 SQL5 SQL6 SQL7 SQL8 Color codes: verified unworkd E, unneeded unworkd C, unconfmrd special t

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

Map: Countries, CQ zones, Continents, ITU zones, Maiden Fields, ITU Regions, Auroral zones. Plot: DX Spots, QSOs, DXCC Entities. Log: AA6YQ.mdb

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

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

Call: EY7AD 1st S: Name: Rakhim DXCC: EY QTH: 735700 Cont: AS

QSL: Via: DIRECT - I CQ: 17 ITU: 30 GTH: Pri sub: Sec sub: Comment:

Buro: Grid: MN30

LotW: IOTA: Az: Path: S

Xcvr Freq: 14,086.19 Rx: 14,086.19 Tx: 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
 S MSQVAS UV1PAS DE PD1ANB,PD1ANB PSE K...90R2 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 (normal), USB (normal), CW (narrow), CW-R (narrow), FM (wide), AM (wide), RTTY (wide), RTTY-R (wide)

Bandspread Msgs Scan Memory Banks Config Help

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 mgsall F12: mgsall (3)

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

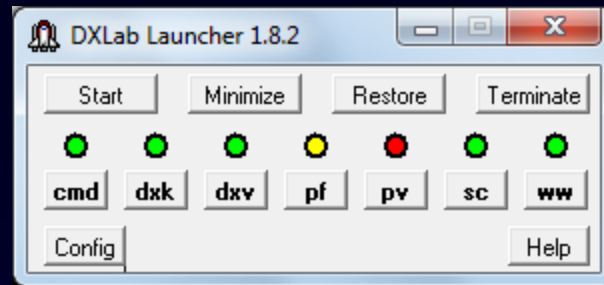
Operating Mode: CW PSK31 Phone PSK63 RTTY PSK125

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

RTTY transmit (soundcard) Freq: 14,084.065 net

Tuning Display: Vert height: 2.0 Horiz zoom: 1 Horiz pan: 14083 14084 14085 14086

Single Point of Control: DXLab Launcher



- Installation
- Upgrade
- Startup
- Shutdown

DXing With DXLab

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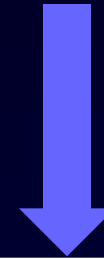
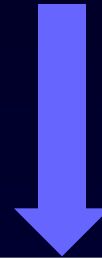
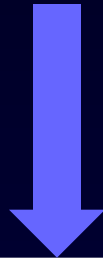
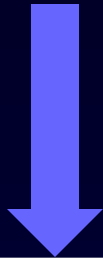
Active DX Database

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

VUCC needs

WAS needs

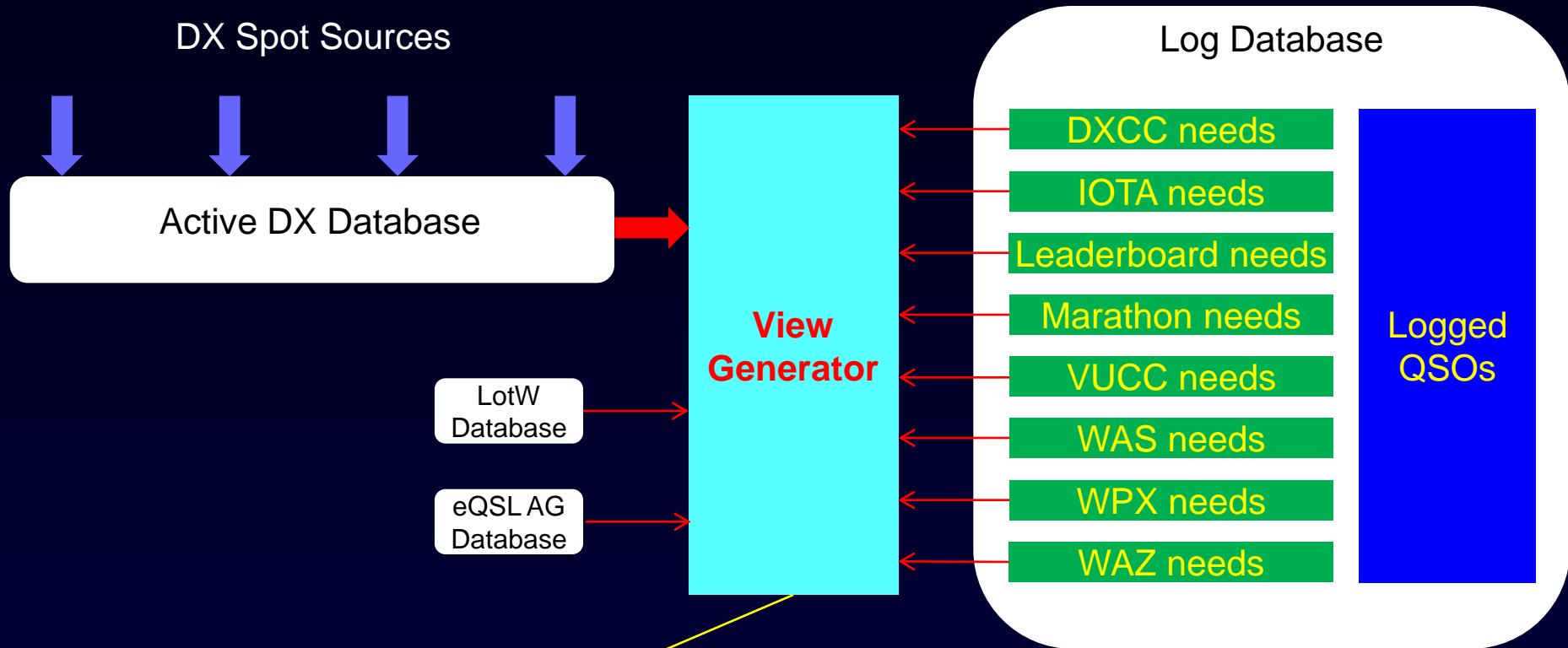
WPX needs

WAZ needs



Logged
QSOs

Tabular View of Active DX



A screenshot of a software window displaying a table of active DX spots. The table has multiple columns, including call signs, frequencies, and other technical details. The data is presented in a grid format with alternating row colors for readability.

| Call | Mode | Freq | Power | Band | Bandwidth | Mode | Bandwidth | Mode | Bandwidth | Mode | Bandwidth | Mode | Bandwidth | Mode | Bandwidth | Mode | Bandwidth | Mode | Bandwidth |
|------|------|------|-------|------|-----------|------|-----------|------|-----------|------|-----------|------|-----------|------|-----------|------|-----------|------|-----------|
| W1AW | SSB | 3700 | 100 | 160m | 3000 | SSB | 3000 | SSB | 3000 | SSB | 3000 | SSB | 3000 | SSB | 3000 | SSB | 3000 | SSB | 3000 |
| W1AW | SSB | 3700 | 100 | 160m | 3000 | SSB | 3000 | SSB | 3000 | SSB | 3000 | SSB | 3000 | SSB | 3000 | SSB | 3000 | SSB | 3000 |
| W1AW | SSB | 3700 | 100 | 160m | 3000 | SSB | 3000 | SSB | 3000 | SSB | 3000 | SSB | 3000 | SSB | 3000 | SSB | 3000 | SSB | 3000 |
| W1AW | SSB | 3700 | 100 | 160m | 3000 | SSB | 3000 | SSB | 3000 | SSB | 3000 | SSB | 3000 | SSB | 3000 | SSB | 3000 | SSB | 3000 |
| W1AW | SSB | 3700 | 100 | 160m | 3000 | SSB | 3000 | SSB | 3000 | SSB | 3000 | SSB | 3000 | SSB | 3000 | SSB | 3000 | SSB | 3000 |

Tabular Display

Tabular View of Active DX

SpotCollector 5.3.9 @ 2010-10-07 17:31 Z [CC,DXK,DXV,WW] (log: AA6YQ.mdb)

WWV 10-07 1506 Z

Outgoing spot: Call: 7,002.0 Freq Cluster

Spot source status: [Green] [Green] [Green] [Red] [Red] [Yellow]

Q: 0 A 6 2 K Notes: X Local Report Stats Config Help

| Call | Prefix | Freq | QsX | Band | Mode | First | Last | CQ | ITU | IOTA | Region | Azimuth | NAE | NAM | NAW | SA | EU | AF | AS | OC | UN | LastOrigin | Source | Notes |
|----------|--------|----------|----------|------|------|---------|---------|----|-----|--------|----------------|---------|-----|-----|-----|----|----|----|----|----|----|------------|--------|------------------------|
| ZS6GRL | ZS | 21,070.4 | | 15M | PSK | 07 1641 | 07 1728 | 38 | 57 | | South Africa | 108 | | | | | Y | | | | | EU | MM0GZZ | BPSK31 nice strong qso |
| PY2FDX | PY | 28,460.0 | | 10M | SSB | 07 1722 | 07 1728 | 11 | 15 | | Sao Paulo | 158 | | | | | Y | | | | | EU | F5DQK | 55 QSB |
| FR1LB | FR-R | 14,140.0 | | 20M | CW | 07 1636 | 07 1729 | 39 | 53 | AF-016 | Reunion Island | 80 | | | | Y | Y | | | | | EU | PD2YA | TNX FOR 58 QRP |
| GM0BKC/M | GM | 14,219.0 | | 20M | SSB | 07 1722 | 07 1729 | 14 | 27 | | Scotland | 47 | | | | Y | | | | | | EU | EA1HVV | 5/9 Thank Paul |
| EA1HLW | EA | 7,140.0 | | 40M | CW | 07 1729 | 07 1729 | 14 | 37 | | Spain | 68 | | | | Y | | | | | | EU | EA7IC | 5/9-73 ANGELES FROM |
| OZ1GX | OZ | 28,022.0 | | 10M | CW | 07 1729 | 07 1729 | 14 | 18 | | Denmark | 43 | | | | Y | | | | | | EU | OZ3BJ | cq nac J04 |
| 9M6DX | 9M6 | 14,265.0 | 14,270.0 | 20M | SSB | 07 1729 | 07 1729 | 28 | 54 | | East Malaysia | 351 | | | | Y | | | | | | EU | EA7GWA | 5/9 5 up |
| YU1KN | YU | 7,146.0 | | 40M | CW | 07 1729 | 07 1729 | 15 | 28 | | Serbia | 52 | | | | Y | | | | | | EU | DL2BK | Sase KNO |
| VU0WFF | VU | 7,006.3 | | 40M | CW | 07 1715 | 07 1729 | 22 | 41 | | India | 26 | | | | Y | | Y | | | | EU | UR5IAW | VUFF-101 |
| DJ5KX/P | DL | 7,018.0 | | 40M | CW | 07 1730 | 07 1730 | 14 | 28 | | Germany | 50 | | | | Y | | | | | | EU | DL0AD | DLFF-112 |
| 9M6DX/P | 9M6 | 14,265.0 | 14,270.0 | 20M | SSB | 07 1701 | 07 1731 | 28 | 54 | | East Malaysia | 351 | | | Y | Y | | | | | | NA-W | KB6NAN | simplex now IOTA OC-1 |
| OJ0B | OJ0 | 7,003.0 | 7,004.9 | 40M | CW | 07 1620 | 07 1731 | 15 | 18 | EU-053 | Market Reef | 37 | | | | Y | | Y | | | | EU | ON4LO | up JP90 |
| UN7QX | UN | 10,108.0 | | 30M | CW | 07 1731 | 07 1731 | 17 | 31 | | Alma-Atinskaya | 18 | | | | Y | | | | | | EU | S52DD | MN83 |
| JT5DX | JT | 3,504.0 | 3,505.3 | 80M | CW | 07 1706 | 07 1731 | 23 | | | Mongolia | 1 | | | | Y | | Y | | | | EU | PA4VHF | up 1.3 sni freq |
| DH8A | OH | 28,032.0 | | 10M | CW | 07 1731 | 07 1731 | 15 | 18 | | Finland | 36 | | | | Y | | | | | | EU | SK2AT | NAC CW |
| EB2GPF | EA | 7,115.0 | | 40M | CW | 07 1731 | 07 1731 | 14 | 37 | | Spain | 68 | | | | Y | | | | | | EU | EA2DT | 5/9 TNX Miguel |

Sort: First Call Last Freq Rev Az

Filter: Band and Mode and Origin

AutoHide Audio LotW eQSL ALT

SQL 1 SQL 2 SQL 3 SQL 4 SQL 5 SQL 6 SQL 7 SQL 8

Color codes: verified unvrkd B or M LotW unneeded unvrkd counter eQSL AG unconfmrd special tag LotW & eQSL AG

Font color indicates "needed" DX stations

Background color indicates LotW and eQSL participation

Tabular View of Active DX

“Needed DX Only”

SpotCollector 5.3.9 @ 2010-10-07 17:33 Z [CC,DXK,DXV,WW] (log: AA6YQ.mdb)

WWV 10-07 1506 Z

Outgoing spot: Call: 7,002.0 Freq Cluster

Spot source status: [Green] [Green] [Green] [Red] [Red] [Yellow]

| Callsign | Pfx | Freq | QSX | Band | Mode | First | Last | CQ | ITU | IOTA | Region | Azimuth | NAE | NAM | NAW | SA | EU | AF | AS | OC | UN | LastOrigin | Source | Notes |
|----------|-----|----------|----------|------|------|---------|---------|----|-----|--------|--------------------|---------|-----|-----|-----|----|----|----|----|----|----|------------|---------|-------------------------|
| KH2/N2NL | KH2 | 1,817.5 | | 160M | CW | 07 1123 | 07 1128 | 27 | 64 | OC-026 | Guam and Mariana I | 321 | Y | Y | | | | | Y | | | NA-E | K3TW/74 | 579 on 80m dipole in FL |
| XU7ACY | XU | 1,815.0 | | 160M | CW | 07 1054 | 07 1149 | 26 | 49 | | Cambodia | 4 | Y | | | | | | Y | | | AS | XU7TZG | cq |
| VK8VF/B | VK | 50,310.0 | | 6M | FM | 07 1200 | 07 1200 | 29 | 55 | | Northern Territory | 308 | | | | | | | Y | | | AS | JE6AZU | 539 |
| BT4EXPQ | BY | 1,815.0 | | 160M | CW | 07 1227 | 07 1227 | 24 | 44 | | Shang Hai | 349 | | | | | | | Y | | | AS | UA0BA | |
| VK8MS | VK | 50,110.0 | | 6M | SSB | 07 1228 | 07 1228 | 29 | 55 | | Northern Territory | 308 | | | | | | | Y | | | AS | JE6AZU | 59 IN PM51 P |
| BU2AQ | BV | 1,822.6 | | 160M | CW | 07 1317 | 07 1317 | 24 | 44 | | Taiwan | 346 | | | Y | | | | | | | NA-W | N6VR/7 | cq, now 559 |
| JT5DX | JT | 3,504.1 | | 80M | CW | 07 1330 | 07 1353 | 23 | | | Mongolia | 1 | | | Y | | | | Y | | | NA-W | N6ZN | 459 n. ca |
| 9M6XRQ/P | 9M6 | 10,107.3 | | 30M | CW | 07 1449 | 07 1449 | 28 | 54 | | East Malaysia | 351 | | | | | Y | | | | | EU | DL4NY | OC133 Tks John & Stev |
| 9M6DX/P | 9M6 | 10,104.0 | 10,105.0 | 30M | CW | 07 1450 | 07 1450 | 28 | 54 | | East Malaysia | 351 | | | | | Y | | | | | EU | RA7A | UP |
| V85TL | V8 | 3,504.0 | | 80M | CW | 07 1516 | 07 1516 | 28 | 54 | | Brunei | 351 | | | | | Y | | | | | EU | SM5CRV | cq |
| V85TL | V8 | 10,107.4 | | 30M | CW | 07 1524 | 07 1524 | 28 | 54 | | Brunei | 351 | | | Y | | | | | | | NA-W | KD7H | now hr clg CQ |
| V85TL | V8 | 10,103.1 | | 30M | CW | 07 1528 | 07 1602 | 28 | 54 | | Brunei | 351 | | | Y | | Y | | | | | EU | SP9CDA | Tnx |
| 9M6XRQ/P | 9M6 | 10,104.0 | 10,107.0 | 30M | CW | 07 1415 | 07 1720 | 28 | 54 | | East Malaysia | 351 | Y | Y | | | Y | Y | | | | EU | LZ2NP | up |
| JT5DX | JT | 3,504.0 | 3,505.3 | 80M | CW | 07 1706 | 07 1731 | 23 | | | Mongolia | 1 | | | | | Y | | Y | | | EU | PA4VHF | up1.3 sri freq |

Sort: First Call Last Freq Rcv Az

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

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

Font color indicates “needed” DX stations

Background color indicates LotW and eQSL participation

Tabular View of Active DX

“Needed and spotted from NA-E”

SpotCollector 5.3.9 @ 2010-10-07 17:34 Z [CC,DXK,DXV,WW] (log: AA6YQ.mdb)

WWV 10-07 1506 Z

Outgoing spot: Call: 7,002.0 Freq Cluster

Spot source status: [Green] [Green] [Green] [Red] [Red] [Yellow]

Q: 0 A 6 2 K

| Callsign | Pfx | Freq | QSO | Band | Mode | First | Last | CQ | ITU | IDTA | Region | Azimuth | NAE | NAM | NAW | SA | EU | AF | AS | OC | UN | LastOrigin | Source | Notes |
|----------|-----|---------|-----|------|------|---------|---------|----|-----|--------|--------------------|---------|-----|-----|-----|----|----|----|----|----|----|------------|--------|--------------------------|
| KH2/N2NL | KH2 | 1,817.5 | | 160M | CW | 07 1123 | 07 1128 | 27 | 64 | DC-026 | Guam and Mariana I | 321 | Y | Y | | | | | Y | | | NA-E | K3TW/4 | 579 on 80m dipole in FL. |
| XU7ACY | XU | 1,815.0 | | 160M | CW | 07 1054 | 07 1149 | 26 | 49 | | Cambodia | 4 | Y | | | | | | Y | | | AS | XU7TZG | cq |

Sort: First Call Last Freq Rcv Az

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

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

Font color indicates “needed” DX stations

Background color indicates LotW and eQSL participation

Tabular View of Active DX

in a web browser from anywhere

SpotCollector DX Spots

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 | II22 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 | GF15 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]

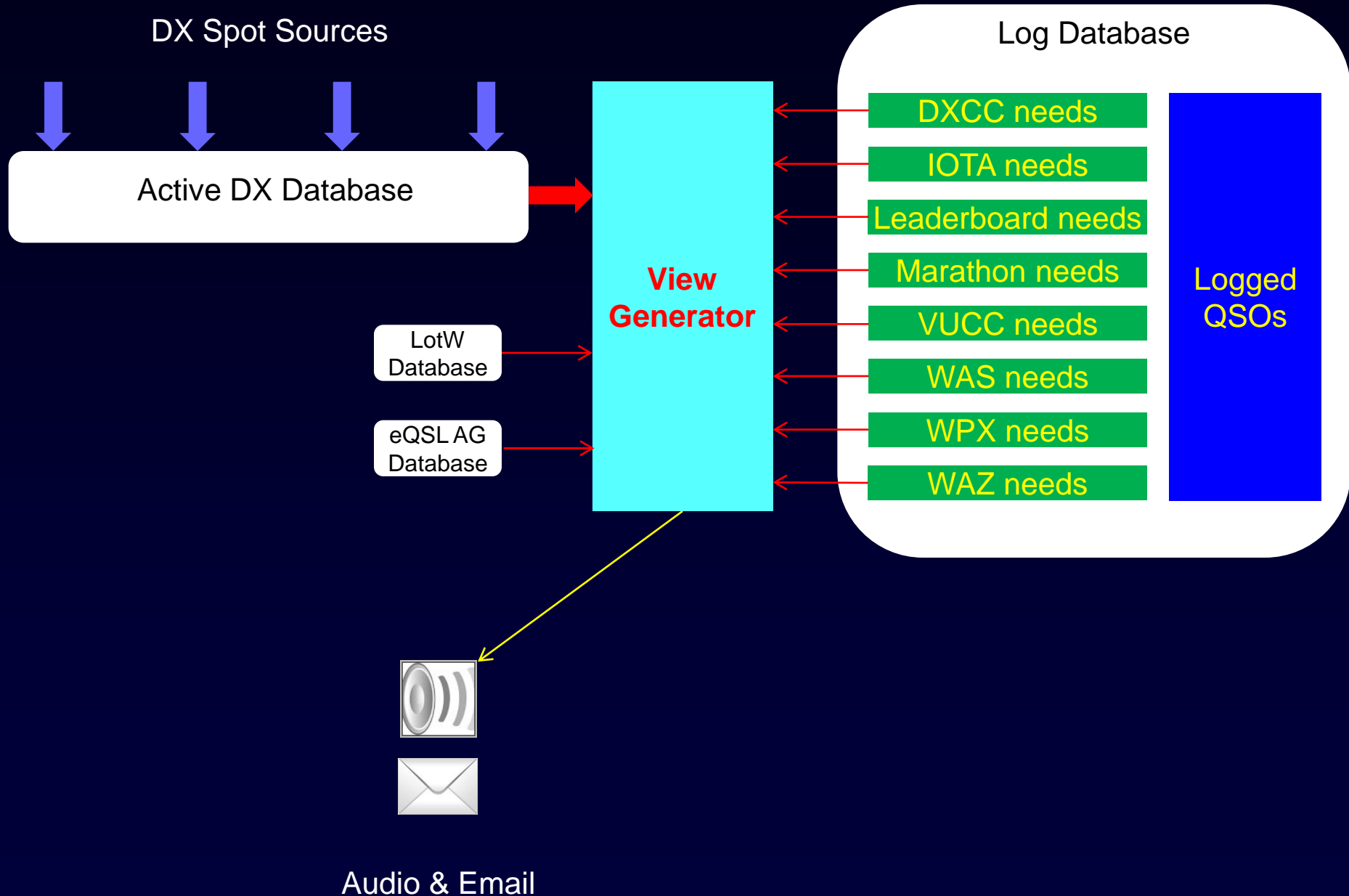
X Need Call DXCC Freq Tag Band Mode Cont Orig SQL Config

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

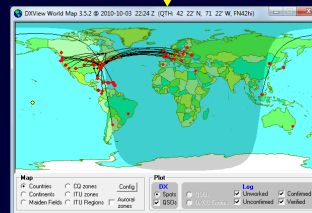
VUCC needs

WAS needs

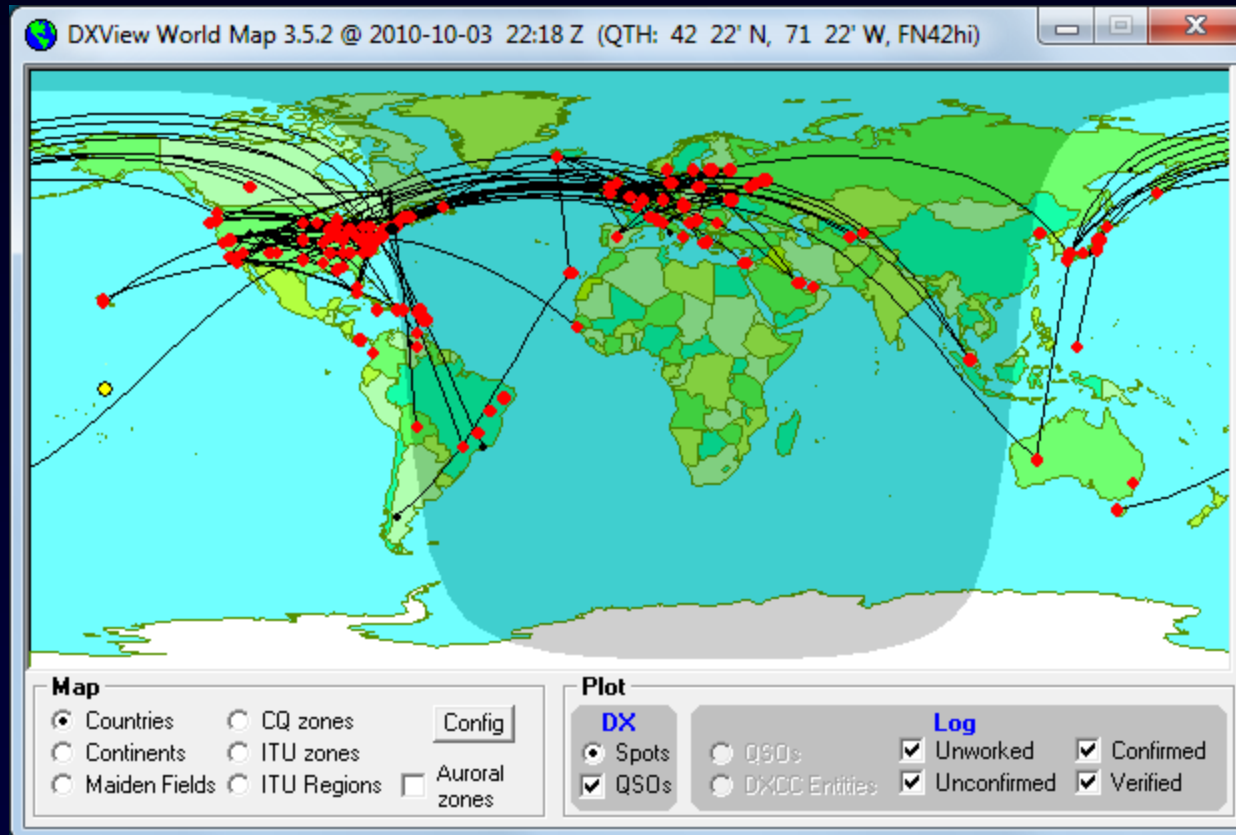
WPX needs

WAZ needs

Logged
QSOs



World Map View of Active DX



World Map View of Active DX

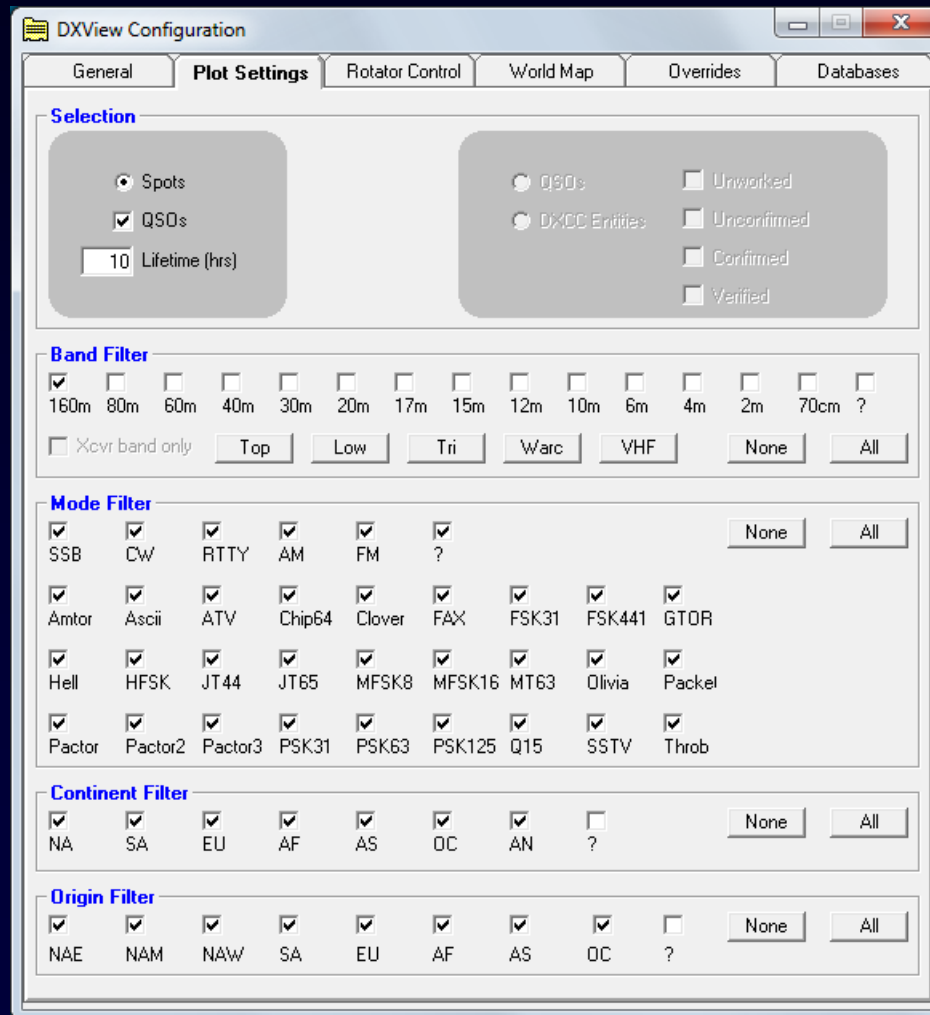
Controlling the Map View

The screenshot shows the 'DXView Configuration' window with the 'Plot Settings' tab selected. The window is divided into several sections for configuring the map view:

- Selection:** Includes radio buttons for 'Spots' (selected) and 'QSOs', a checked checkbox for 'QSOs', and a text box for 'Lifetime (hrs)' set to '10'. On the right, there are radio buttons for 'QSOs' and 'DXCC Entities', and checkboxes for 'Unworked', 'Unconfirmed', 'Confirmed', and 'Verified'.
- Band Filter:** A row of checkboxes for bands: 160m, 80m, 60m, 40m, 30m, 20m, 17m, 15m, 12m, 10m, 6m, 4m, 2m, 70cm, and ?. Below this are buttons for 'Xcvr band only', 'Top', 'Low', 'Tri', 'Warc', 'VHF', 'None', and 'All'.
- Mode Filter:** A grid of checkboxes for various modes: SSB, CW, RTTY, AM, FM, and ?. Below this are buttons for 'None' and 'All'. Other modes listed include Amtor, Ascii, ATV, Chip64, Clover, FAX, FSK31, FSK441, GTOR, Hell, HFSK, JT44, JT65, MFSK8, MFSK16, MT63, Olivia, Packet, Pactor, Pactor2, Pactor3, PSK31, PSK63, PSK125, Q15, SSTV, and Throb.
- Continent Filter:** A row of checkboxes for continents: NA, SA, EU, AF, AS, OC, AN, and ?. Below this are buttons for 'None' and 'All'.
- Origin Filter:** A row of checkboxes for origins: NAE, NAM, NAW, SA, EU, AF, AS, OC, and ?. Below this are buttons for 'None' and 'All'.

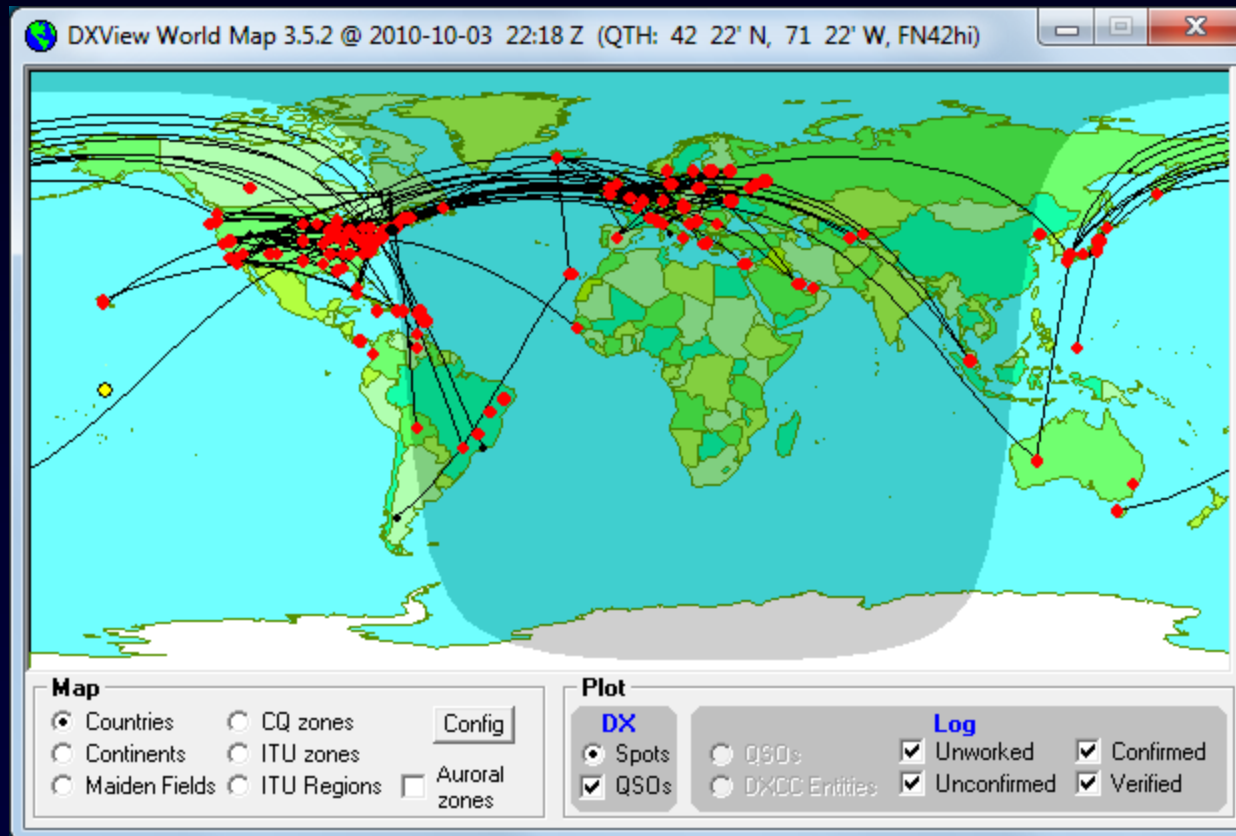
World Map View of Active DX

Controlling the Map View



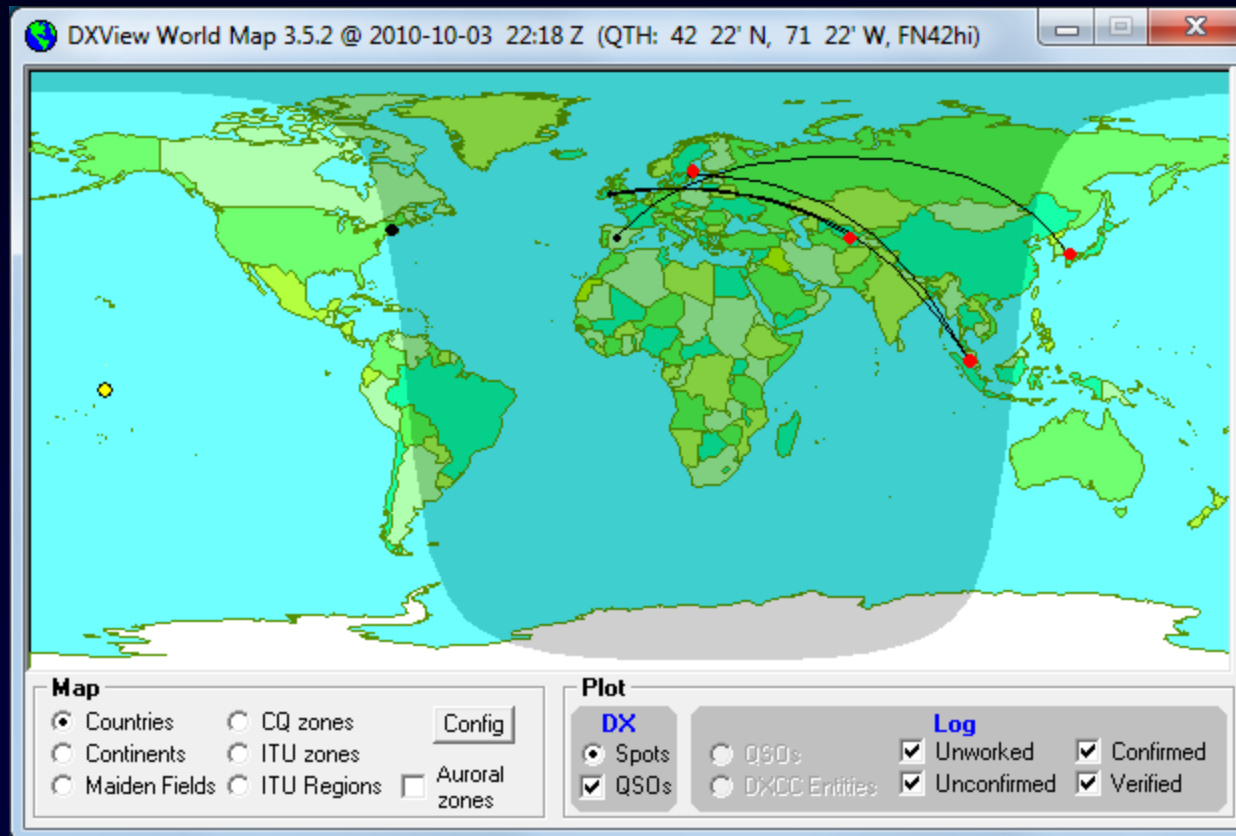
World Map View of Active DX

“all active DX”



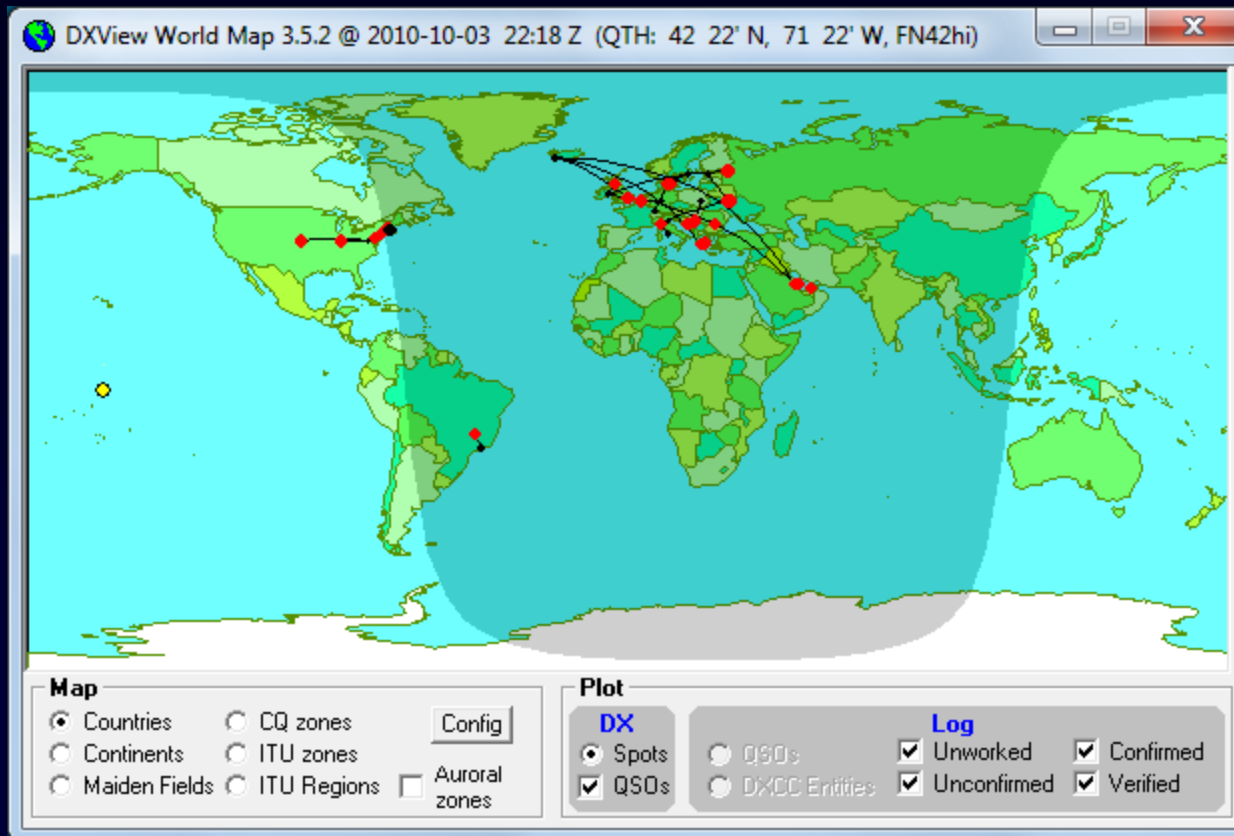
World Map View of Active DX

“160m”



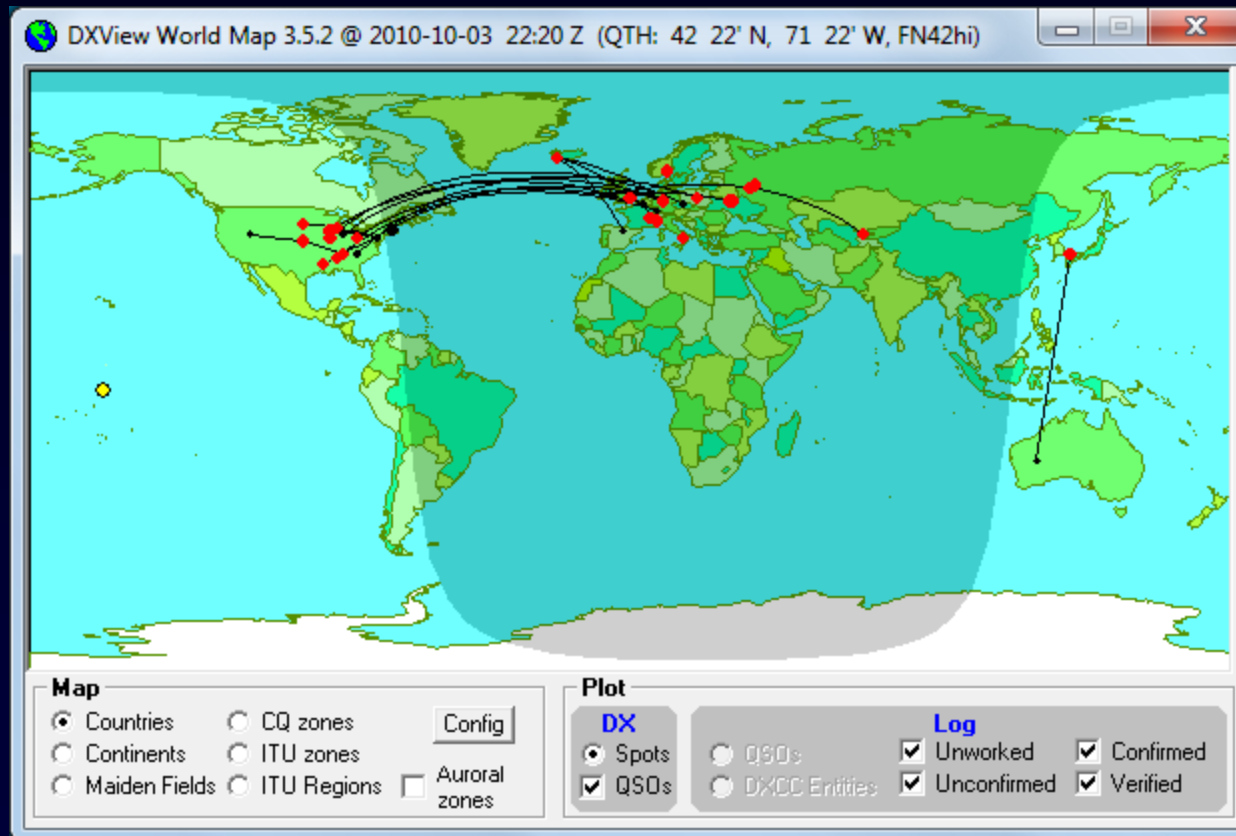
World Map View of Active DX

“80m”



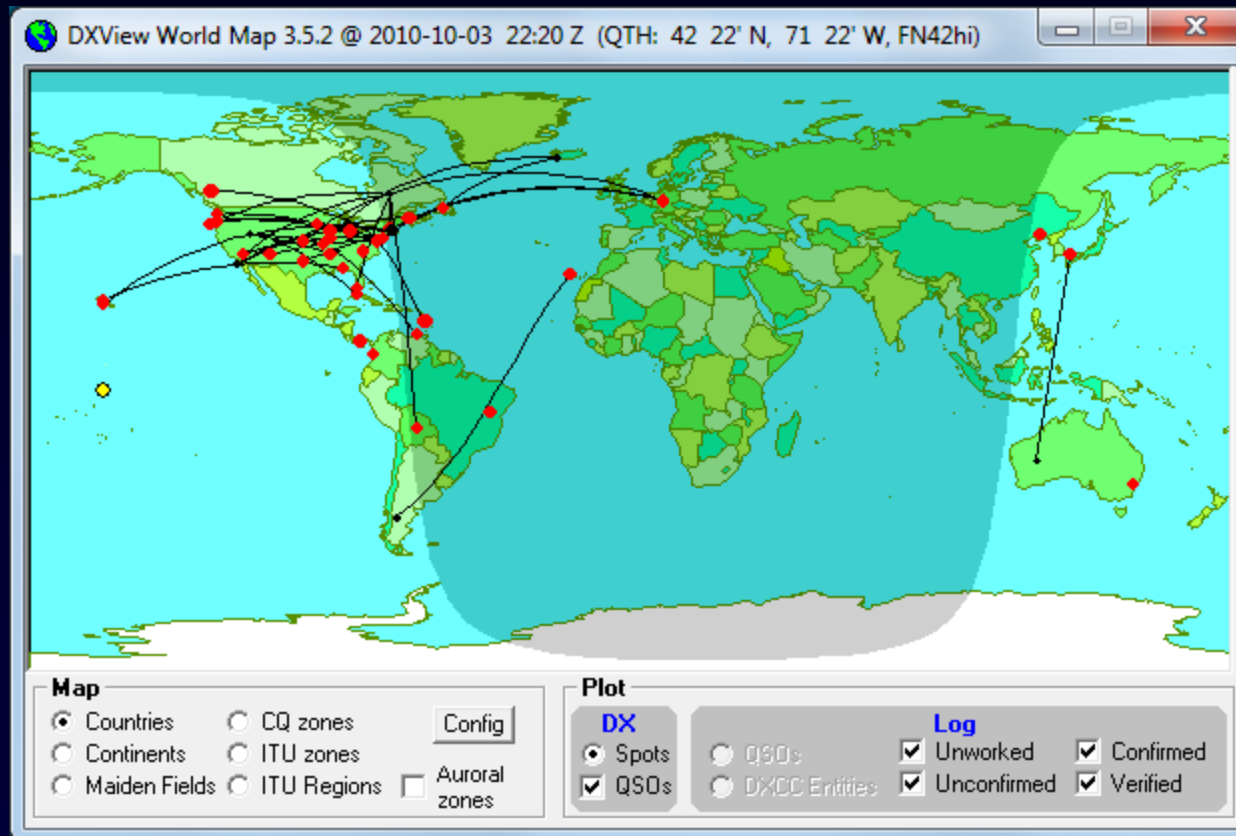
World Map View of Active DX

“40m”



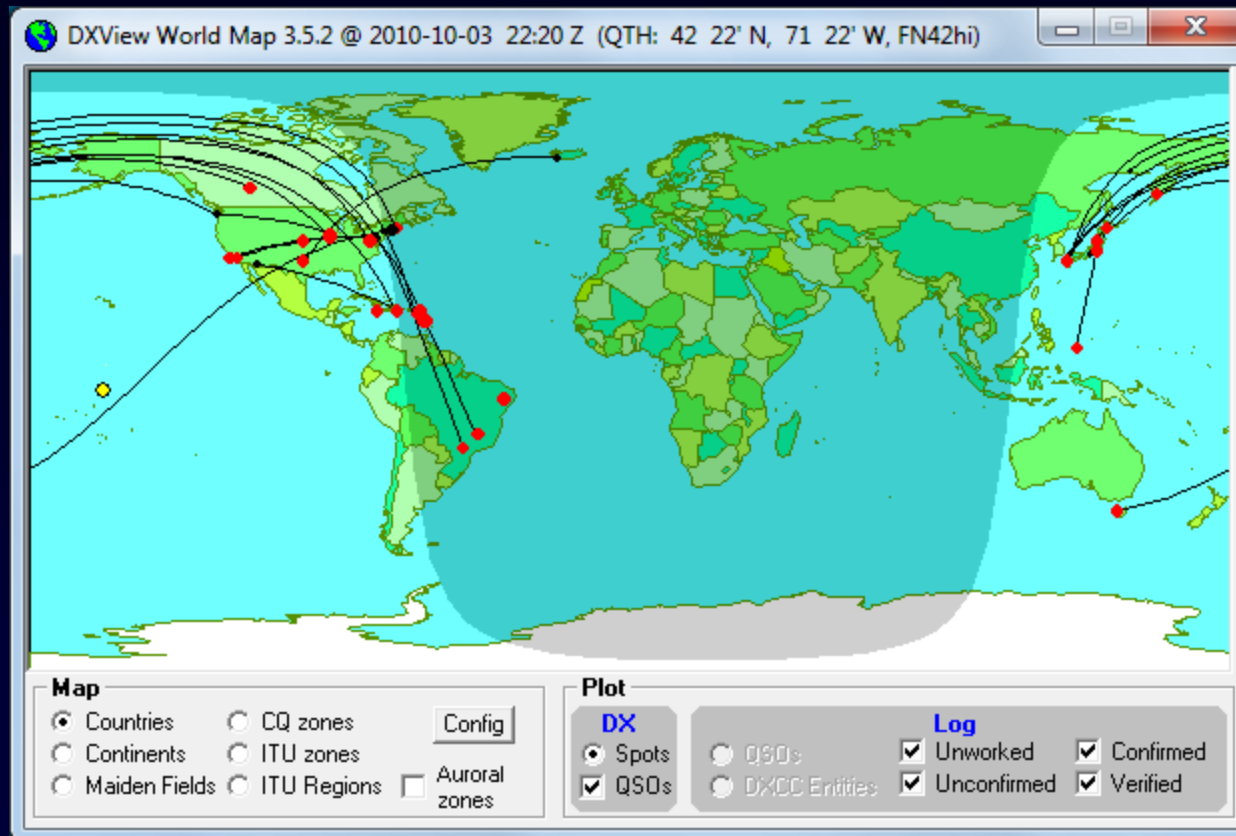
World Map View of Active DX

“20m”



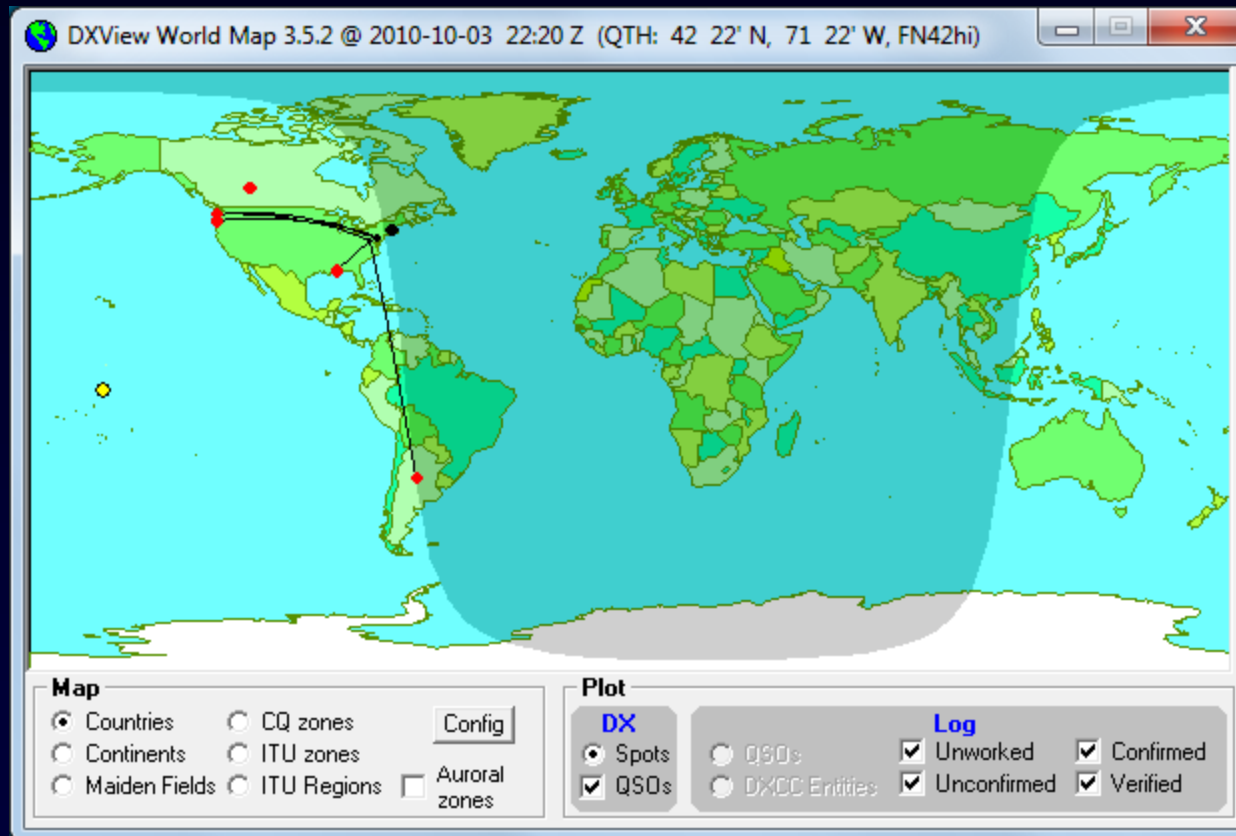
World Map View of Active DX

“17m”



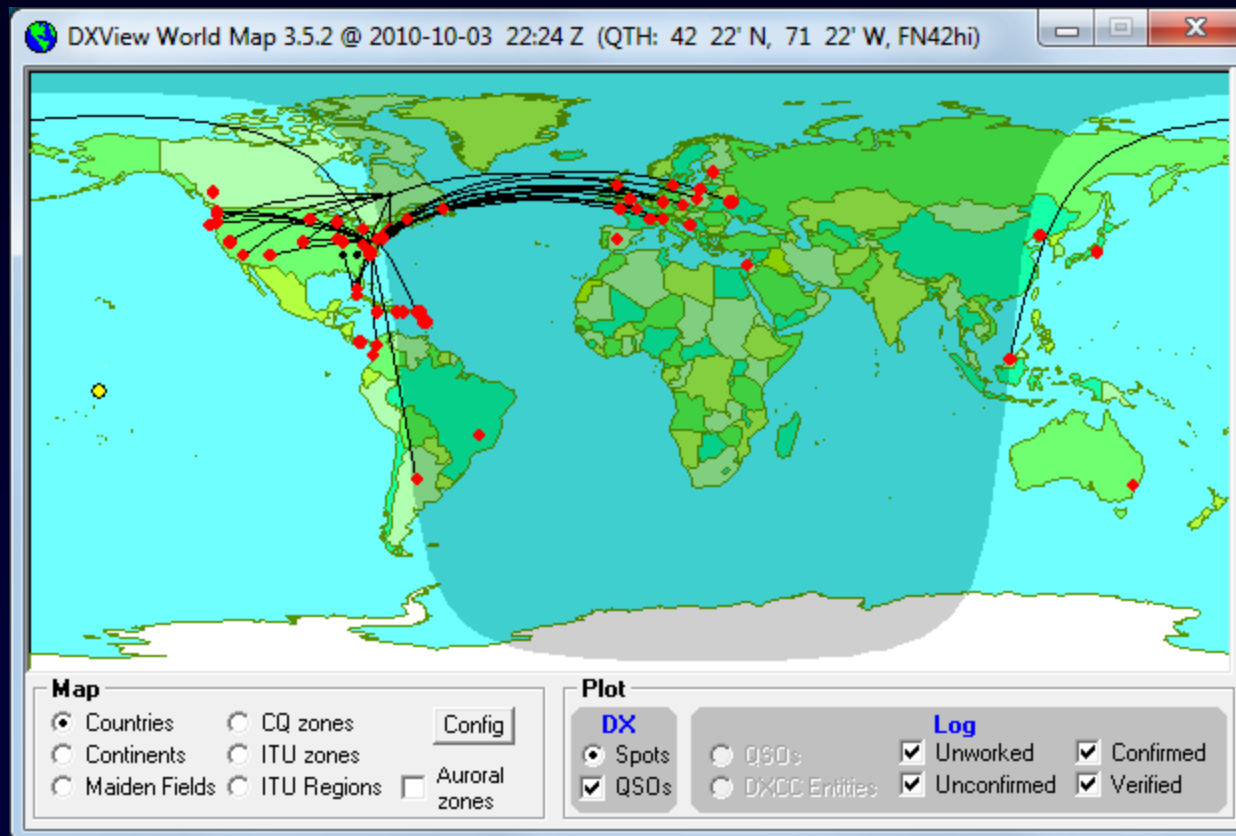
World Map View of Active DX

“15m”



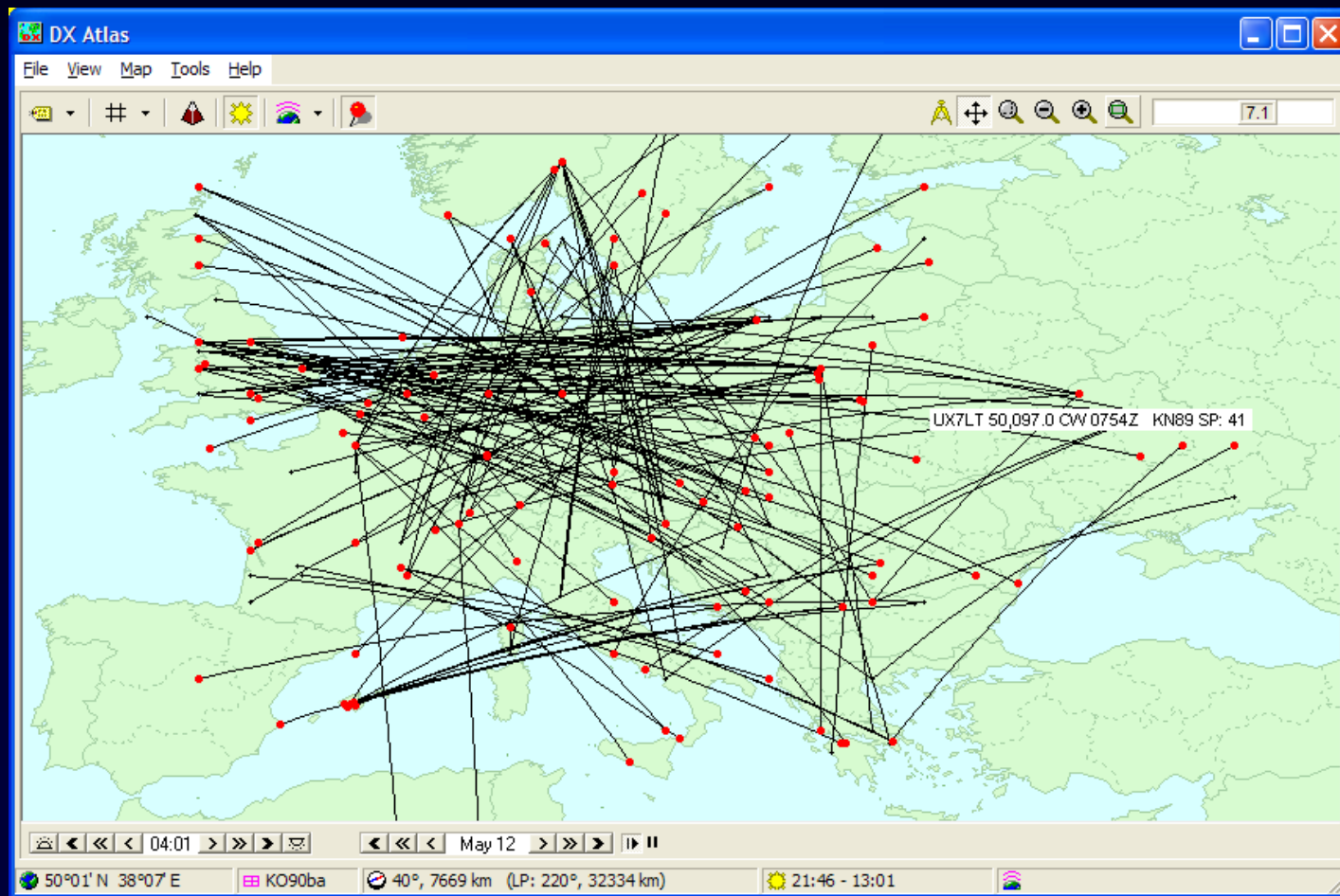
World Map View of Active DX

“spotted by a station in NA-E”



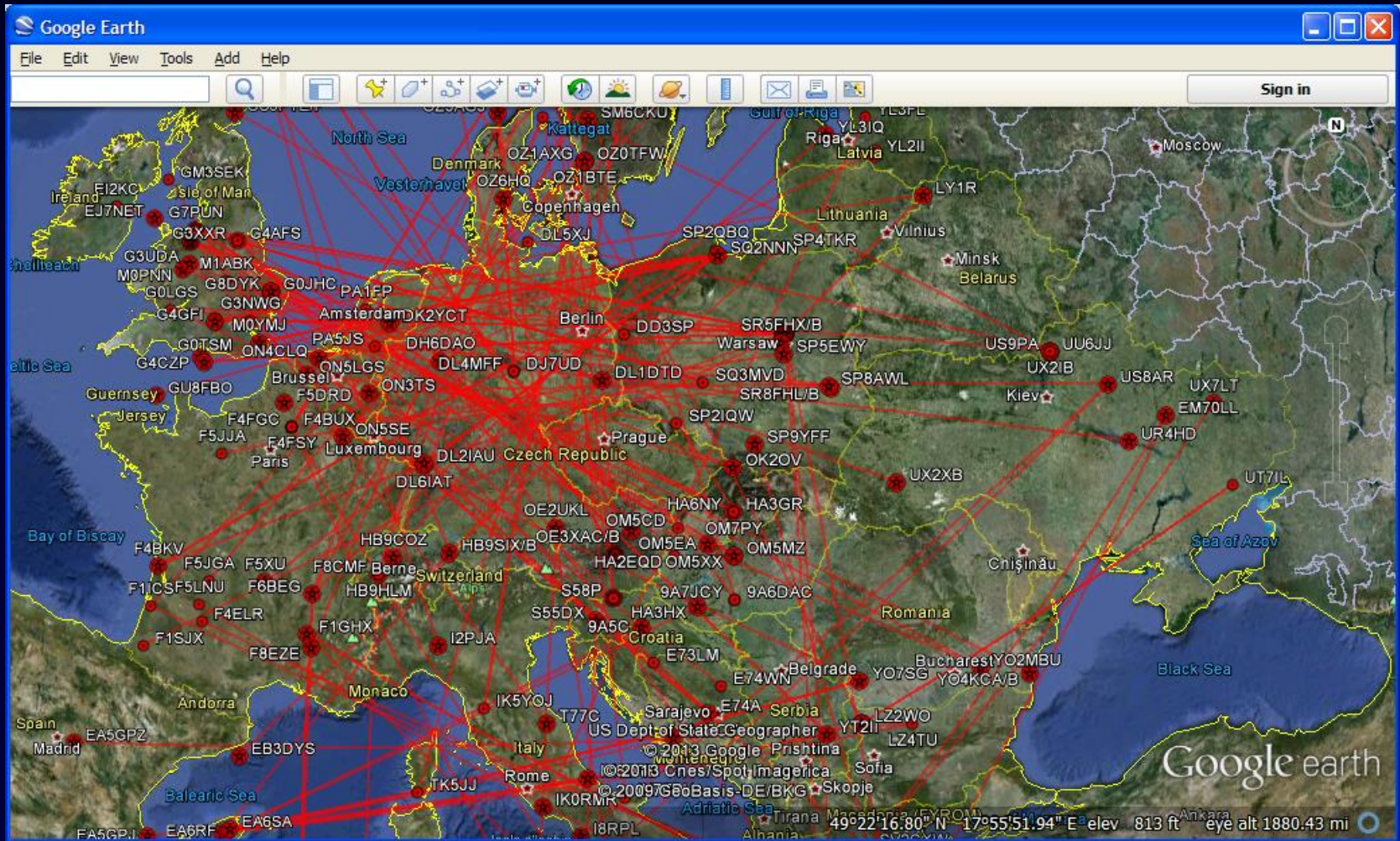
World Map View of Active DX

“6m” on DX Atlas



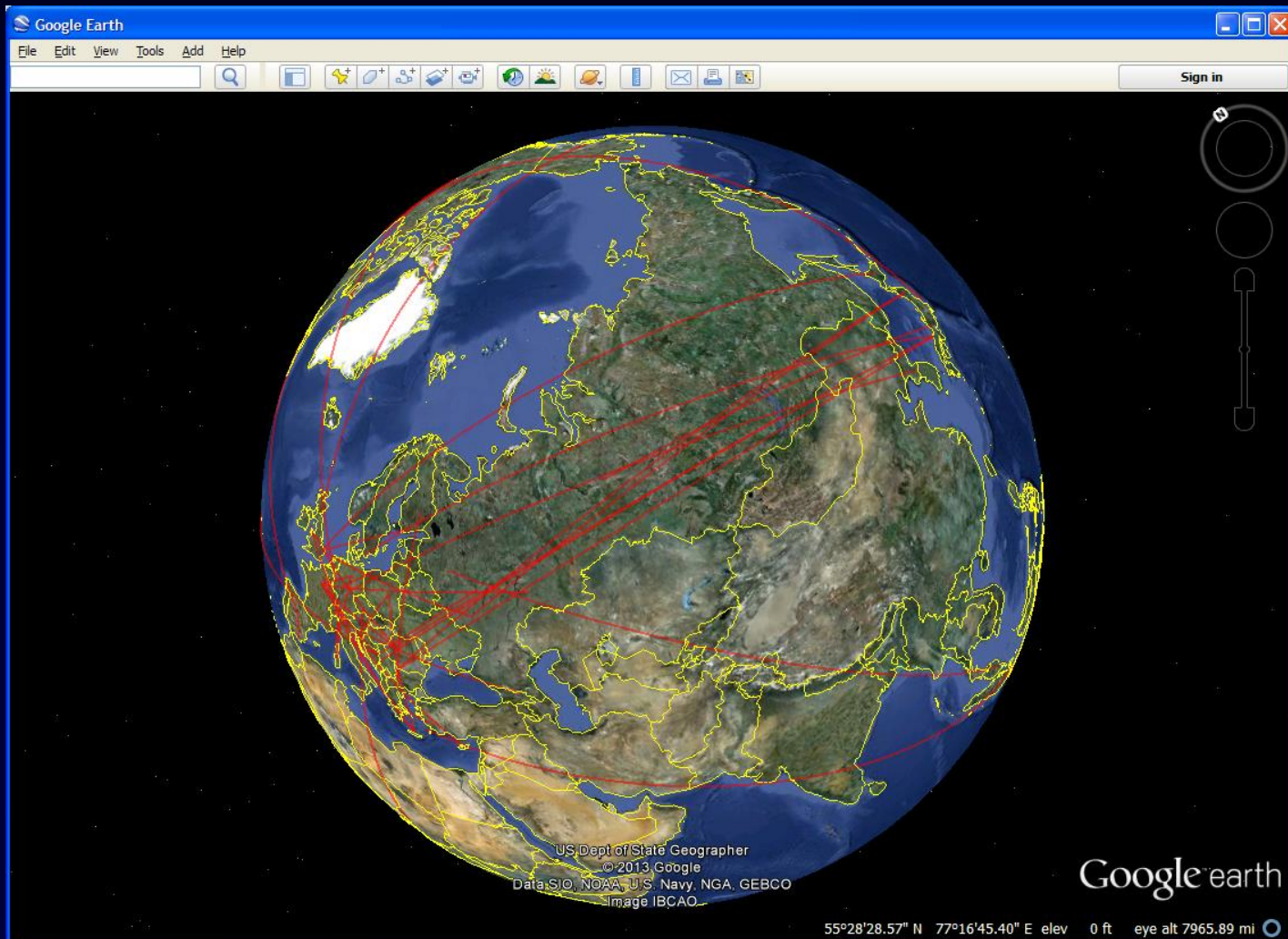
World Map View of Active DX

“6m” on Google Earth

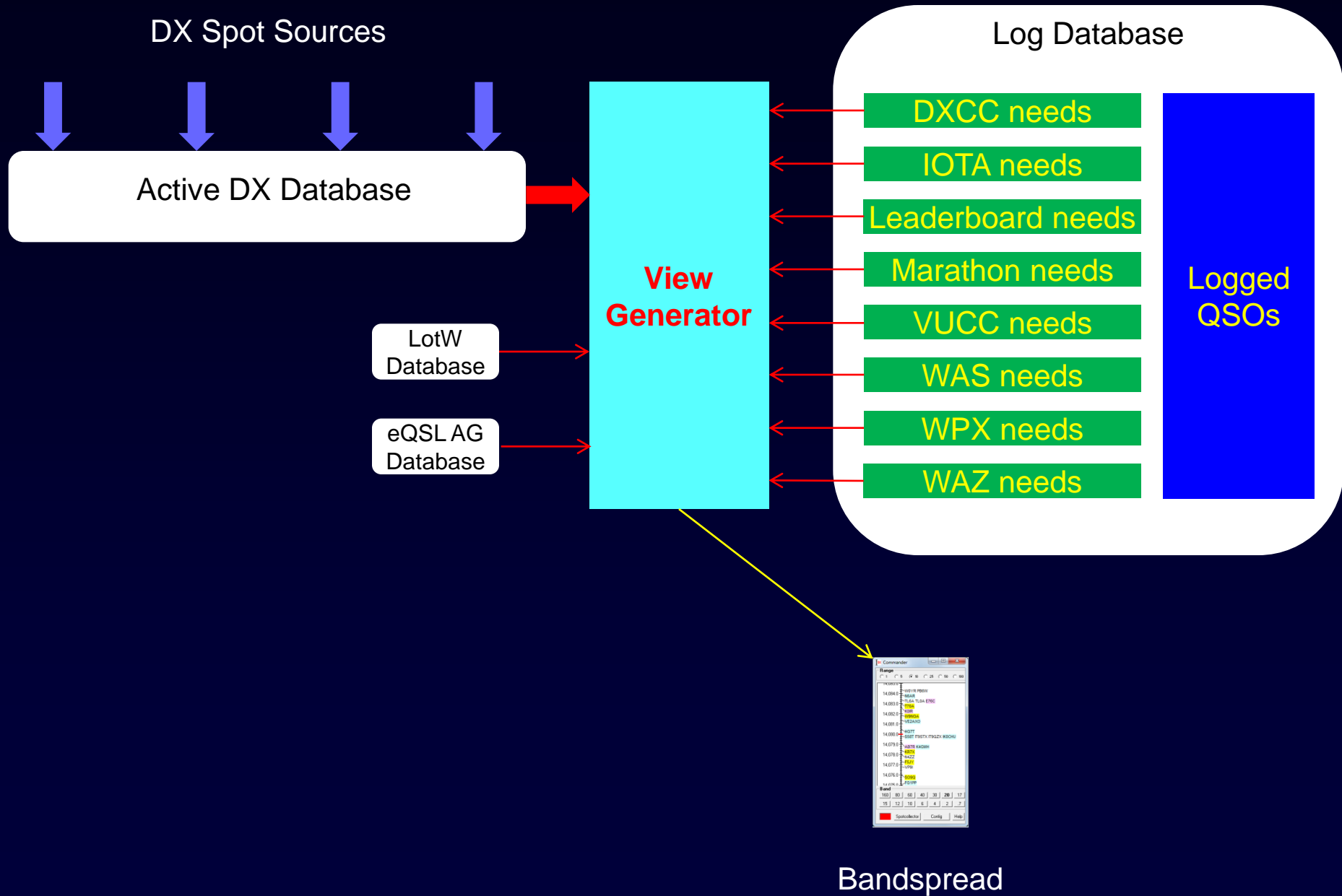


World Map View of Active DX

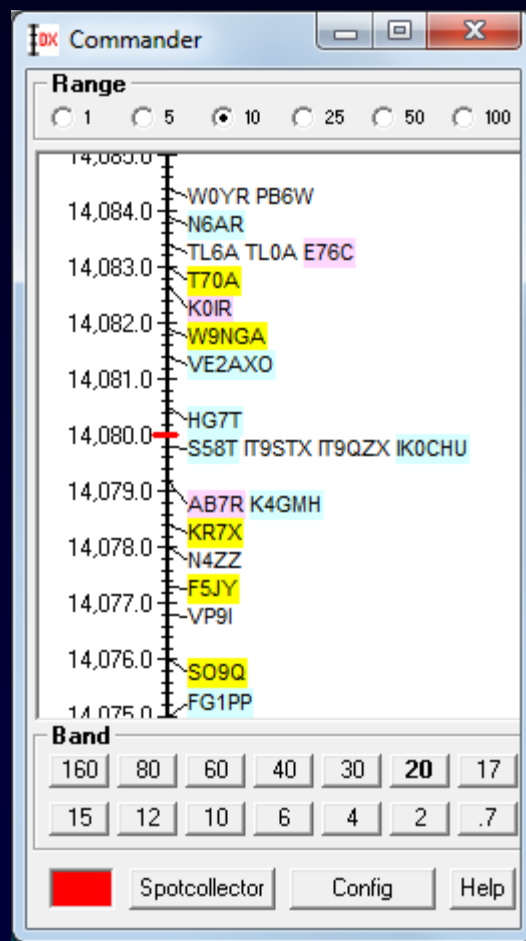
“12m” on Google Earth



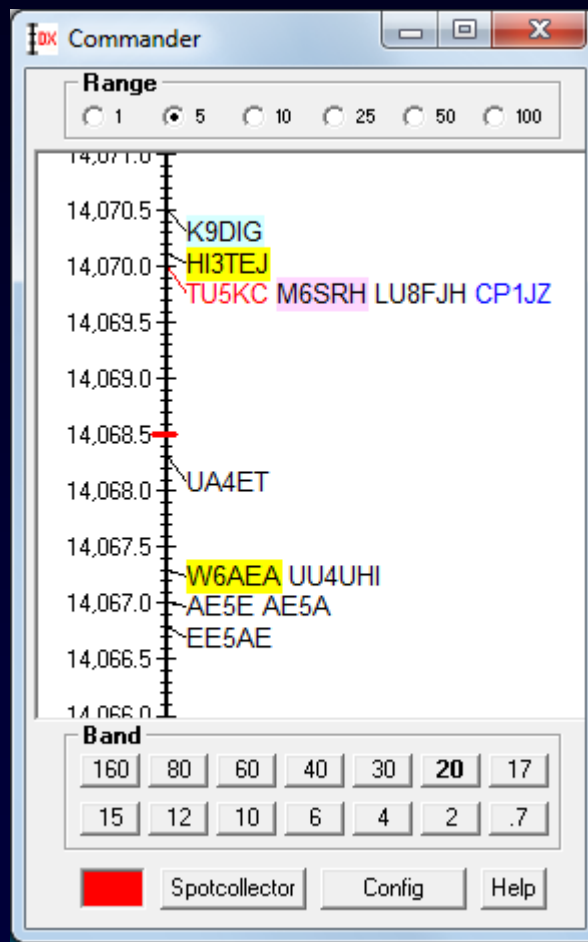
Bandspread View of Active DX



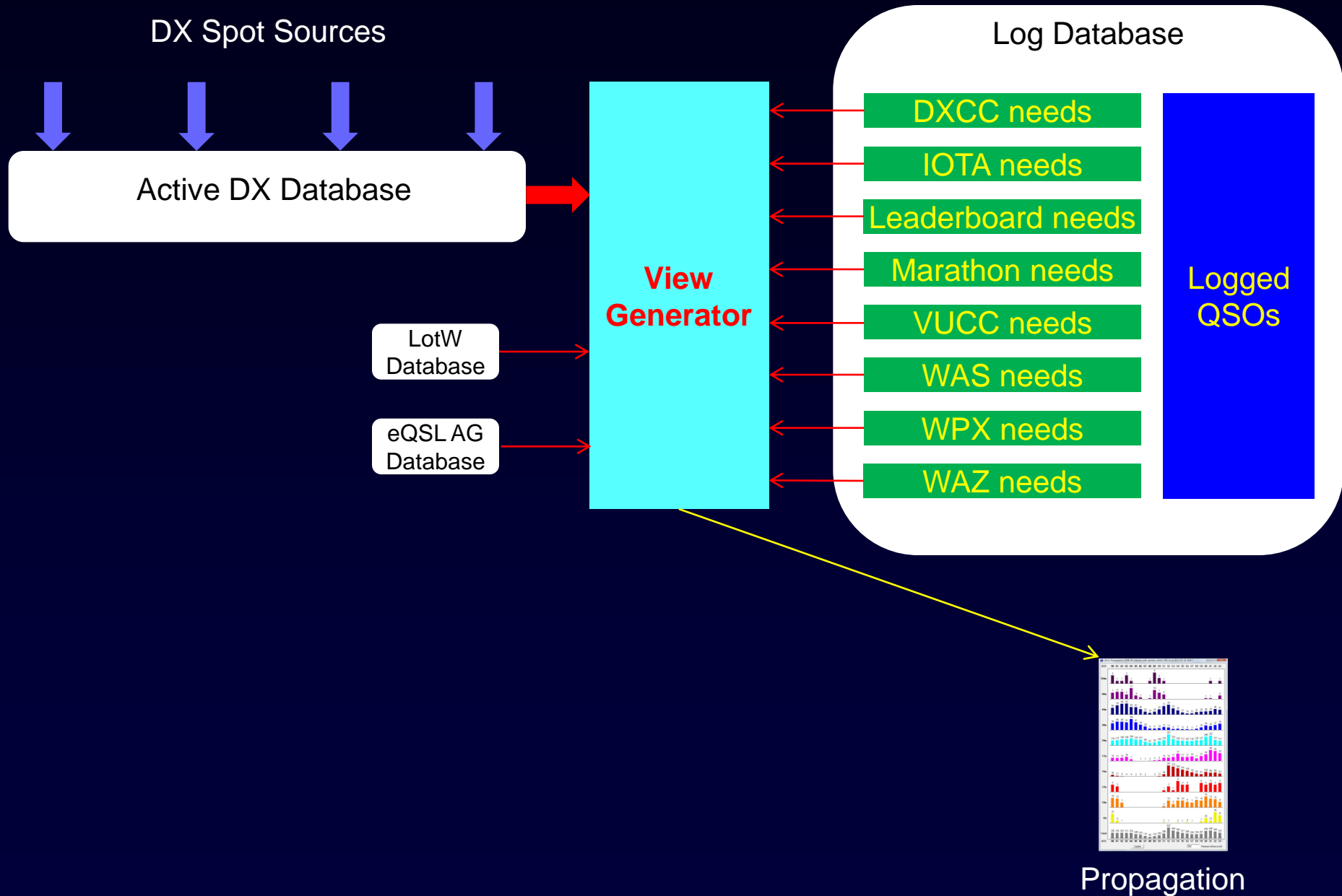
Bandspread View of Active DX



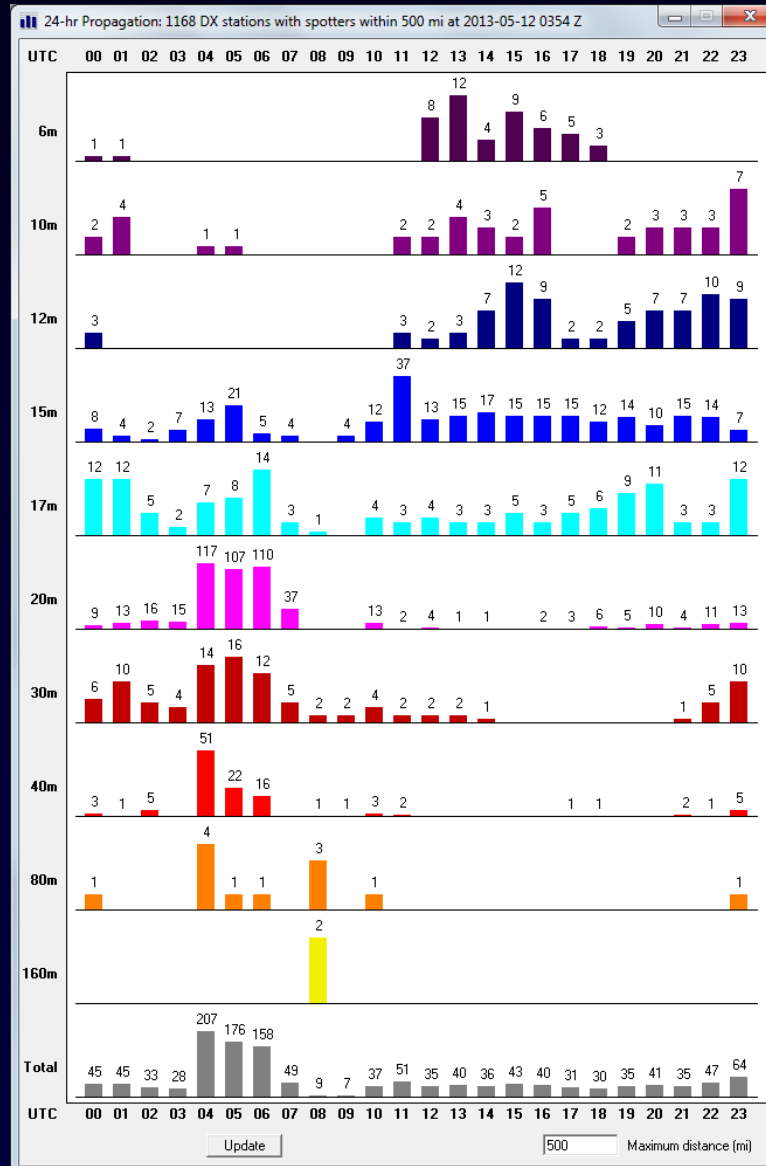
Bandspread View of Active DX



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

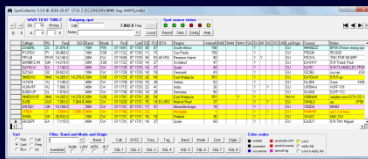
WPX needs

WAZ needs

Logged
QSOs

LotW
Database

eQSLAG
Database



Tabular Display



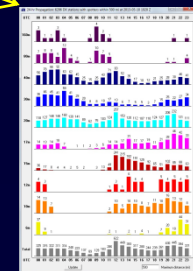
Audio & Email



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 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"/> Mixed | |
| <input type="checkbox"/> 30M | | |
| <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 | <input type="text" value="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 checked="" type="checkbox"/> 6M | | |

Realtime Award Progress

WAZ Bands & Modes

| | | | | | |
|-------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| | M | S | R | S | D |
| | i | | | | |
| | x | | | | |
| | e | | | | |
| | d | | | | |
| Mixed | <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 checked="" type="checkbox"/> | | | | |

5-band WAZ

Realtime Award Progress

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 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

IOTA

IOTA mem4win update

Realtime Award Progress

What's Been QRV that I Need?

SpotCollector 6.4.7 @ 2013-05-13 02:19 Z [CC,DXK,DXV,PV] (log: AA6YQ.mdb)

WWV 05-13 0000 Z Outgoing Spot (notes saved) Spot source status

SFI 147 History Call 18,140.1 Freq Cluster

Q: 0 A 5 1 K Notes Local Report Stats Prop Config Help

| Call | Prefix | Region | ODX | Freq | QSOX | FirstTime | LastTime | Band | Mode | CQ | IOTA | Need | EU | AF | SA | NA-E | NA-M | NA-W | AS | OC |
|----------|--------|------------------|-------|----------|------|-----------|----------|------|------|----|--------|------|----|----|----|------|------|------|----|----|
| ZD8VHF/B | ZD8 | Ascension Island | 364 | 50,032.7 | | 10 2007 | 10 2101 | 6M | CW | 36 | AF-003 | D | Y | | | Y | | | | |
| CX2TQ | CX | Rocha | 364 | 50,115.0 | | 11 2041 | 11 2041 | 6M | SSB | 13 | | D | | | | Y | | | | |
| CX9AU | CX | Montevideo | 399 | 50,110.0 | | 11 2045 | 11 2045 | 6M | CW | 13 | | D | | | | Y | | | | |
| CX2TQ | CX | Rocha | 399 | 50,110.0 | | 11 2046 | 11 2048 | 6M | SSB | 13 | | D | | | | Y | | | | |
| CX9AU | CX | Montevideo | 185 | 50,098.0 | | 11 2050 | 11 2118 | 6M | CW | 13 | | D | | | | Y | | Y | Y | |
| HL2MTK | HL | South Korea | 355 | 10,103.0 | | 12 1028 | 12 1028 | 30M | CW | 25 | | D | | | | Y | | | | |
| HL2MTK | HL | South Korea | 355 | 10,106.0 | | 12 1025 | 12 1029 | 30M | CW | 25 | | D | | | Y | | | | | |
| 9M2AX | 9M2 | West Malaysia | 10701 | 1,831.5 | | 12 1142 | 12 1142 | 160M | CW | 28 | | D | | | | | | | | Y |
| DS5TRE | HL | South Korea | 2569 | 10,112.0 | | 12 1147 | 12 1147 | 30M | CW | 25 | | D | | | | | | | Y | |

Sort: First Call Last Freq Rcv Az

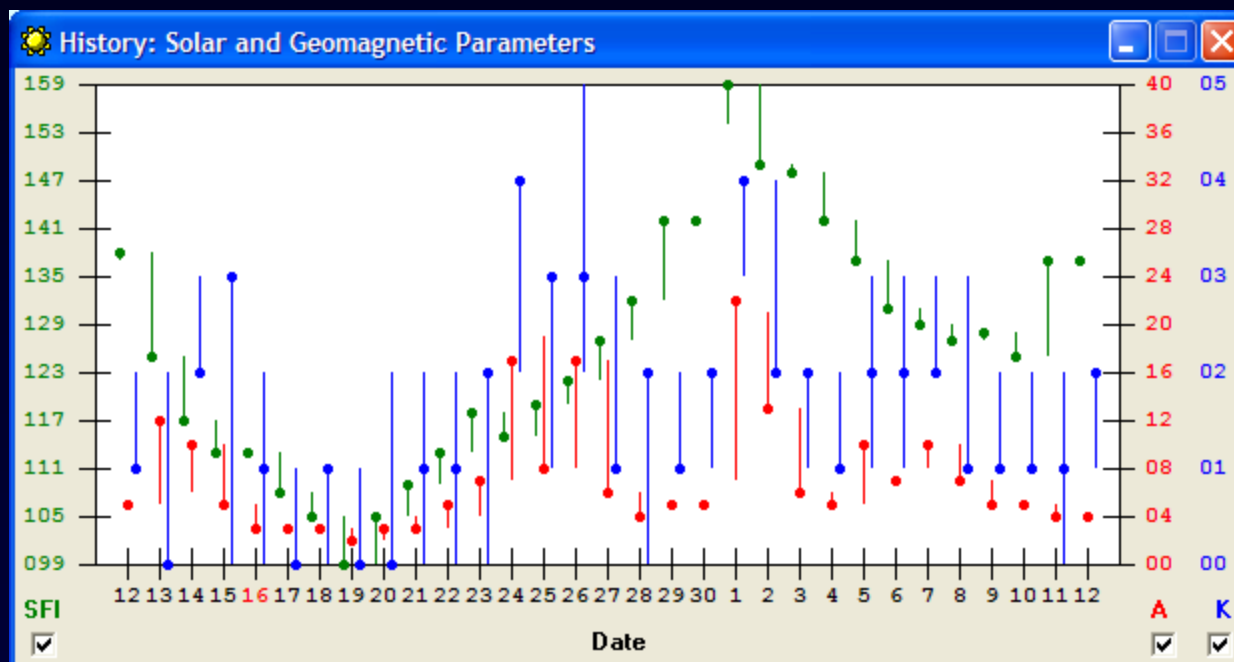
Filter: Band and Mode and Cont and Origin and [entity-band unworked or unconfirmed, or entity-mode unworked or unconfirmed]

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

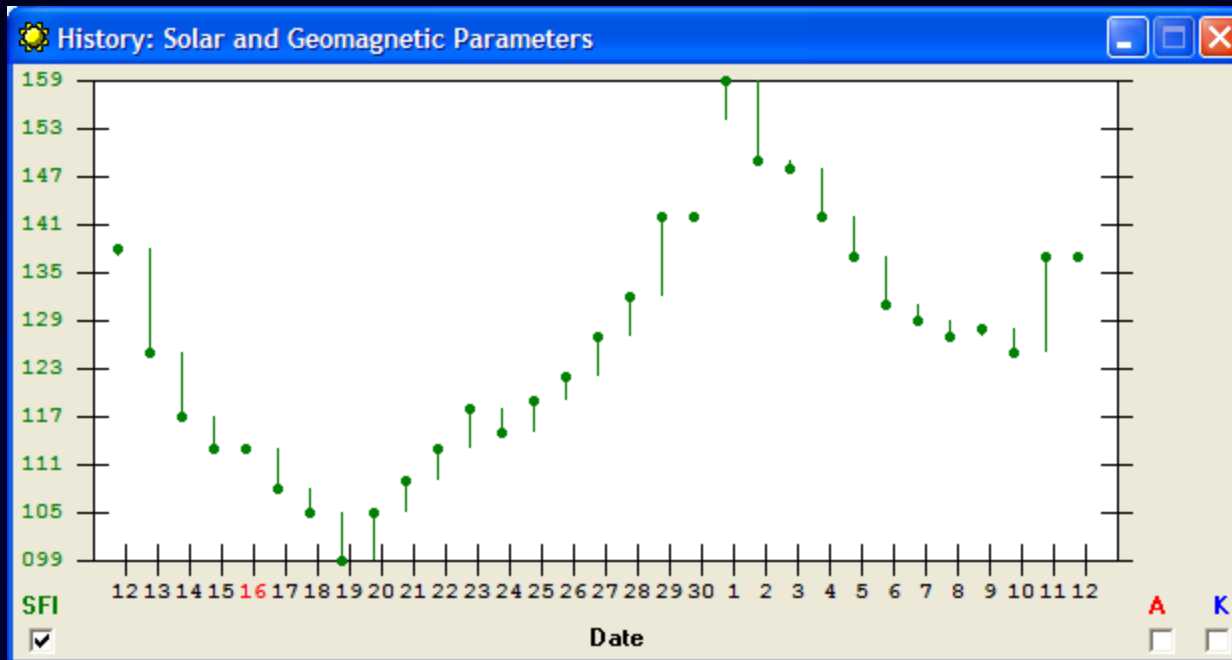
CX on 6m ?

Is HL on 30m a plausible target ?

Check the Solar & Geomagnetic Indices



Isolate the Solar Flux Index



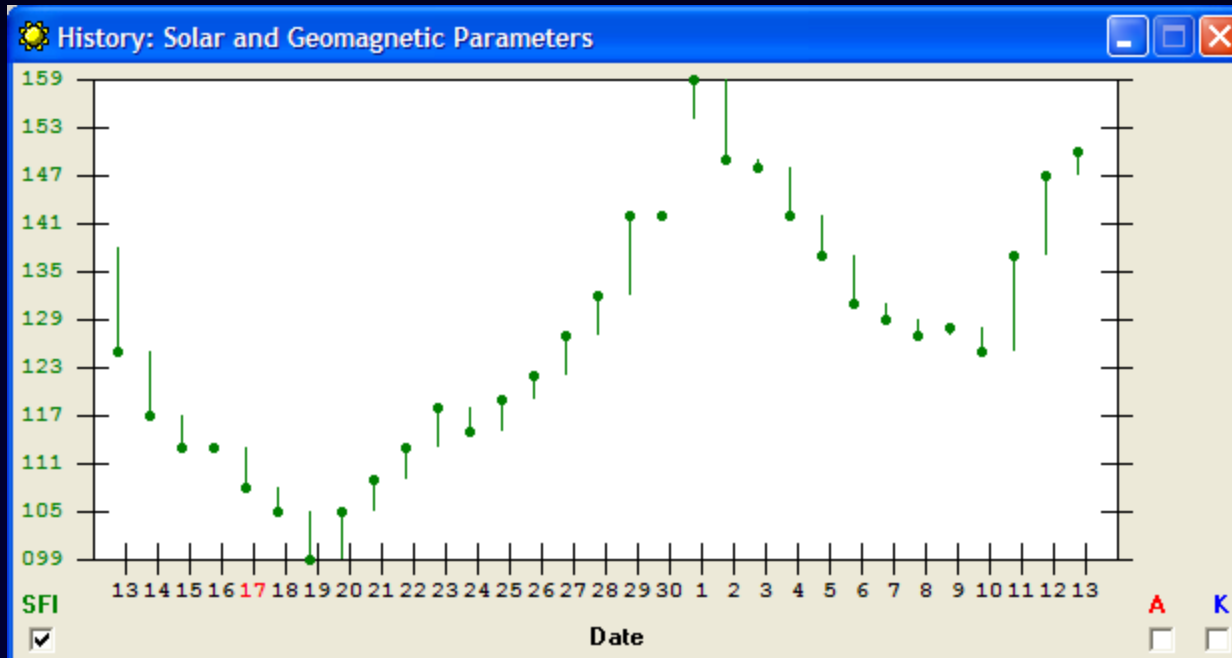
- High-band conditions improving

CX on 6m: the Plan

1. Monitor 6m activity on the World Map
2. Listen for CX stations on 6m DX frequencies around 2030Z

Two Days Before Dayton Departure...

SFI Looking Good!



Monitoring 6m

DXView Configuration

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

Selection

Spots
 QSOs
Lifetime (hrs)

QSOs
 DXCC Entities

Unworked
 Unconfirmed
 Confirmed
 Verified

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 MFSK8 MFSK16 MT63 Olivia Packet

Pactor Pactor2 Pactor3 PSK31 PSK63 PSK125 Q15 SSTV Throb

Continent Filter

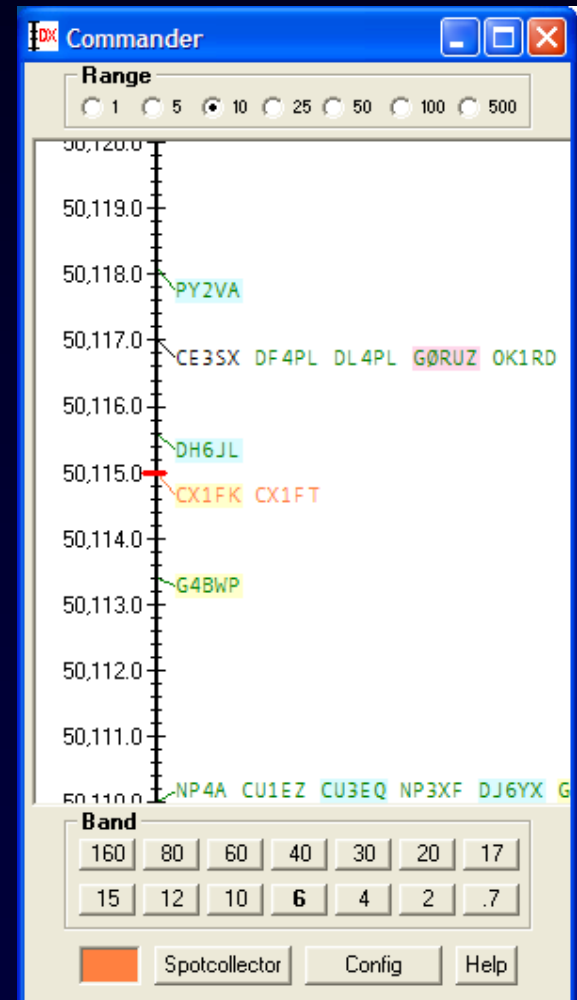
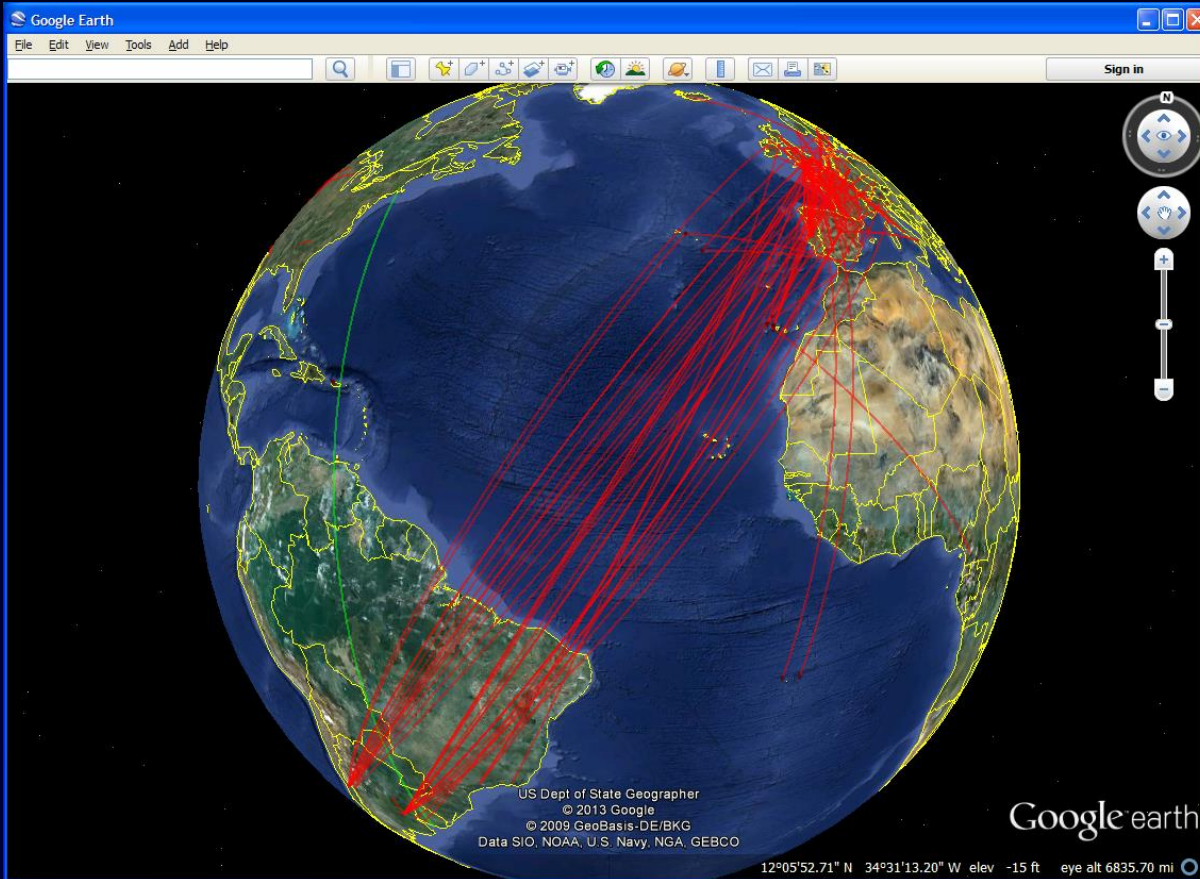
NA SA EU AF AS OC AN ?

Origin Filter

NAE NAM NAW SA EU AF AS OC ?

Monitoring 6m

Get ready!



HL on 30m? Check Spots

SpotCollector 6.4.7 @ 2013-05-13 02:16 Z [CC,DXK,DXV,PV] (log: AA6YQ.mdb)

WWW 05-13 0000 Z Outgoing Spot (notes saved) Spot source status

SFI 147 History Call 18,140.1 Freq Cluster ● ● ● ● ● ●

Q: 0 A 5 1 K Notes X Local Report Stats Prop Config Help

| Call | Prefix | Region | ODX | Freq | QSX | FirstTime | LastTime | Band | Mode | CQ | IOTA | Need | EU |
|----------|--------|------------------|-----|----------|-----|-----------|----------|------|------|----|--------|------|----|
| ZD8VHF/B | ZD8 | Ascension Island | 364 | 50,032.7 | | 10 2007 | 10 2101 | 6M | CW | 36 | AF-003 | D | Y |
| CX2TQ | CX | Rocha | 364 | 50,115.0 | | 11 2041 | 11 2041 | 6M | SSB | 13 | | D | |
| CX9AU | CX | Montevideo | 399 | 50,110.0 | | 11 2045 | 11 2045 | 6M | CW | 13 | | D | |
| CX2TQ | CX | Rocha | 399 | 50,110.0 | | 11 2046 | 11 2048 | 6M | SSB | 13 | | D | |
| CX9AU | CX | Montevideo | 185 | 50,098.0 | | 11 2050 | 11 2118 | 6M | CW | 13 | | D | |
| HL2MTK | | | | 10,103.0 | | 12 1028 | 12 1028 | 30M | CW | 25 | | D | |
| HL2MTK | | | | 10,106.0 | | 12 1025 | 12 1029 | 30M | CW | 25 | | D | |
| 9M2AX | | | | 10,831.5 | | 12 1142 | 12 1142 | 160M | CW | 28 | | D | |
| DS5TRE | | | | 10,112.0 | | 12 1147 | 12 1147 | 30M | CW | 25 | | D | |

Sort: First Call Last Freq Rcv Az

Color codes: ■ verified ■ unneeded ■ unconfirmd

and [entity-band unworked or unconfirmed, or entity-mode unworked c

Call DXCC Freq Tag Band Mode Cont Origin

band X Mode digital X need NoK multiline last 3 nr SV-A

Context menu for HL2MTK:

- QSY to 10103.0 in CW for HL2MTK
- Rotate to short path heading for HL2MTK
- Rotate to long path heading for HL2MTK
- Lookup HL2MTK (prev QSOs, DX info)
- Display Award Tracking for HL2MTK
- Display spots of HL2MTK near 10103.0 in CW
- Display entries near 10103.0
- Predict short path propagation for HL2MTK
- Predict long path propagation for HL2MTK
- Create an override for HL2MTK
- Hide HL2MTK on 10103.0 in CW
- Delete HL2MTK on 10103.0 in CW
- Copy to Windows Clipboard
- Enable Autoscroll

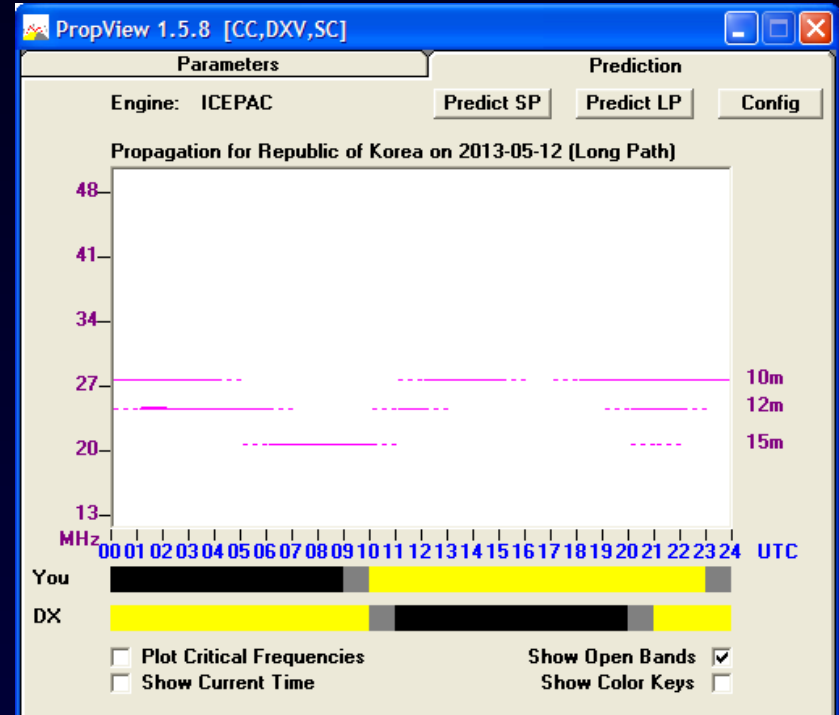
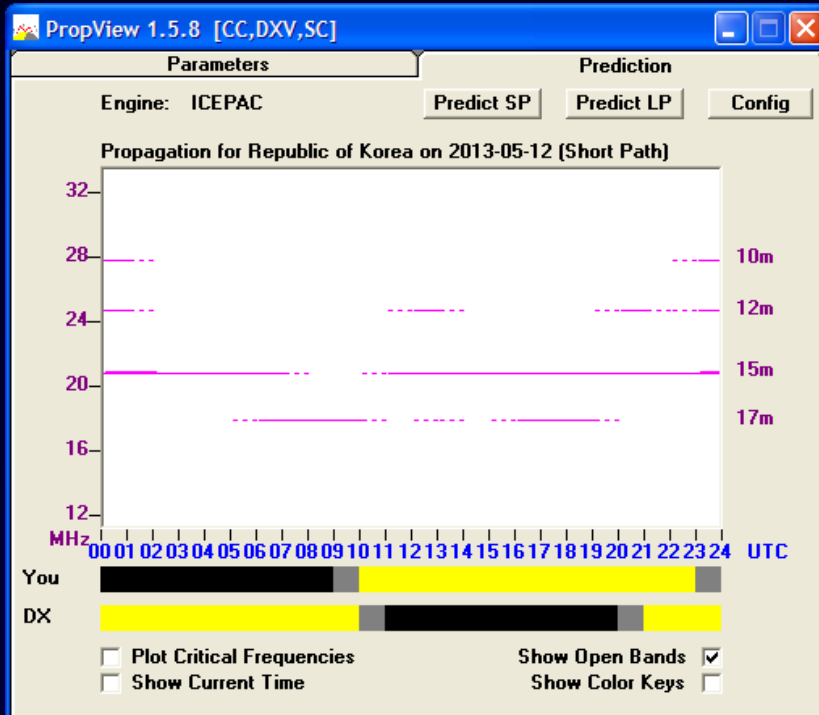
30m HL Spots

```
Spots of HL2MTK near 10103.0 in CW
2013-05-12 10:28 de W3LPL      (NA-E) on 10,103.0 : Heard in WA
```

```
Spots of HL2MTK near 10106.0 in CW
2013-05-12 10:25 de W3LPL      (NA-E) on 10,106.0 : Heard in UT
2013-05-12 10:29 de HK1MW      (SA)    on 10,106.0 : Coping you on Northern Colombia
```

```
Spots of DS5TRE near 10112.0 in CW
2013-05-12 11:47 de W6UC      (NA-W) on 10,112.0 : gone in 60 seconds
```

Check Propagation to HL on 30m



No forecast openings
No periods of common darkness
No way!

Finding and Working Needed DX

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

Working Mount Athos

 [Home](#) [About](#) [Settings](#) [Upload](#) [Donate](#) [Expeditions](#) [Help](#)

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.

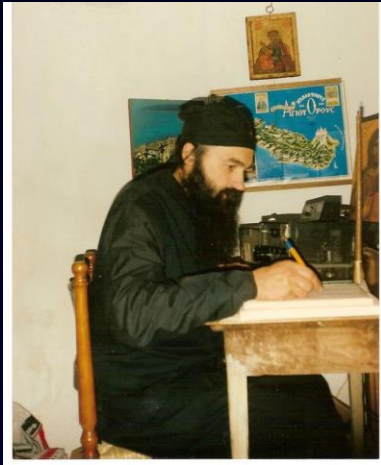
No Mode Filter CW Phone Data

Filter by band: Filter by continent:

[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 | 83.88 |
| 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. | Z88 | 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 |

Working Mount Athos



- 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

Mount Athos - Greece Monk Apollo
Docheiariou monastery GR-63087
Mount Athos Greece - Europe

SV2ASP/A

ITU:28 WAZ:20 *KPZC MKA*

To Radio *NΦUN* QSL via

| Day | Month | Year | UTC | MHz | 2 Way | RST | Remarks |
|-----------|-----------|-----------|-------------|-----------|------------|------------|-----------|
| <i>13</i> | <i>11</i> | <i>11</i> | <i>1412</i> | <i>28</i> | <i>SSB</i> | <i>590</i> | <i>CF</i> |

TKS / PSE QSL UNSLD print 73 de

After a 39-year chase !

Look for Recent Activity

SpotCollector 6.4.7 @ 2013-05-12 20:49 Z [CC,DXK,DXV,PV] (log: test.mdb)

WWV 05-12 1811 Z

SFI 137 History

Q: 1 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 | QSX | FirstTime | LastTime | Band | Mode | CQ | IOTA | Need | EU | AF | SA | NA-E | NA-M | NA-W | AS | OC |
|----------|--------|-------------|------|----------|----------|-----------|----------|------|------|----|------|------|----|----|----|------|------|------|----|----|
| SV2ASP/A | SV-A | Mount Athos | 2473 | 18,137.0 | 18,141.0 | 10 1435 | 10 1527 | 17M | SSB | 20 | | D | Y | | | | | | | Y |

Sort: First Call Last Freq Rcv Az

Filter: Band and Mode and Cont and Origin and [DXCC=SV-A]

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

Audio Age Lo/W eQSL Mithn ALT X Band X Mode digital X need NoK multiline last 3 nr SV/A

Color codes:

- verified
- unneeded
- unconfirmd
- unwrkd B or M
- unwrkd counter
- special tag
- LotV
- eQSL AG
- LotV & eQSL AG

- 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 Outgoing Spot (notes saved) Spot source status

← → SFI 137 History Call 14,210.5 Freq Cluster ● ● ● ● ● ●

Q: 0 A 4 2 K Notes X Local Report Stats Prop Config Help

| Call | Prefix | Region | ODX | Freq | 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

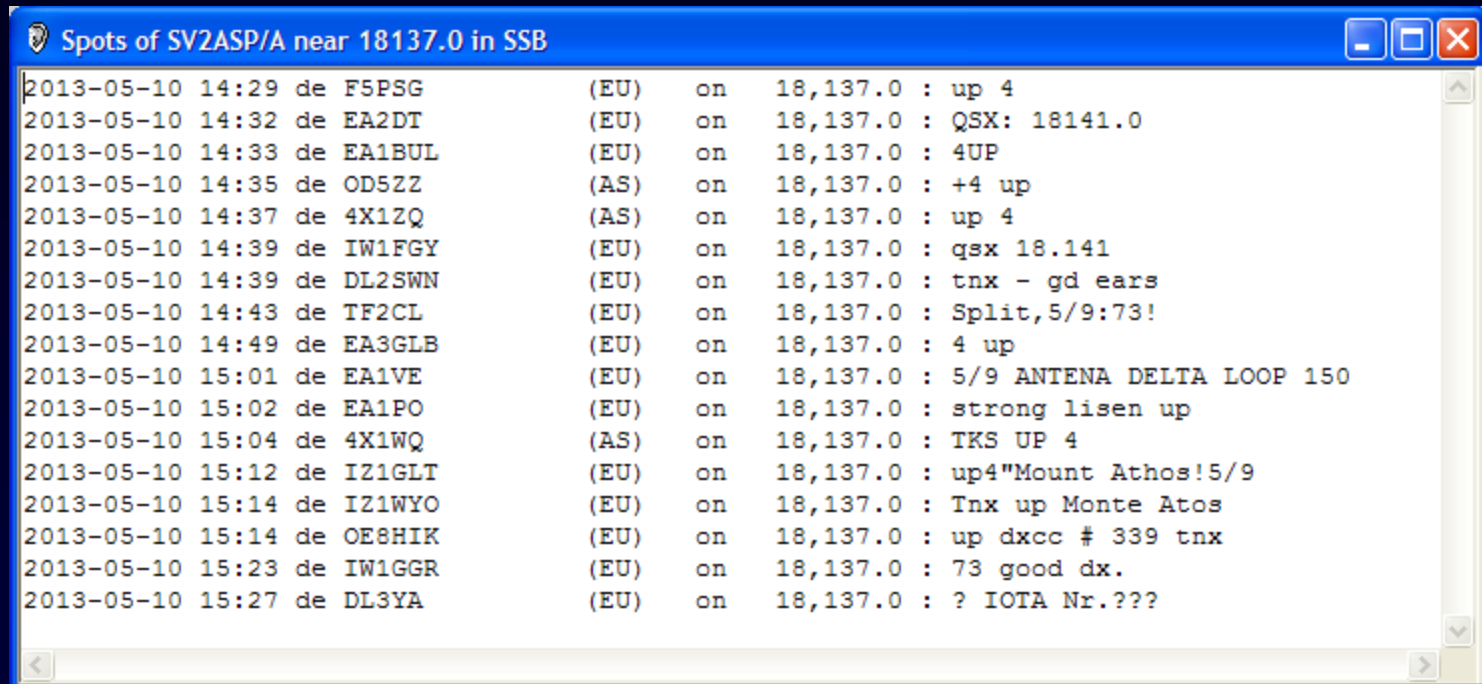
Enable Autoscroll

Sort
 First Last
 Last Rcv

DXCC Freq Tag Band Mode Cont Origin

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

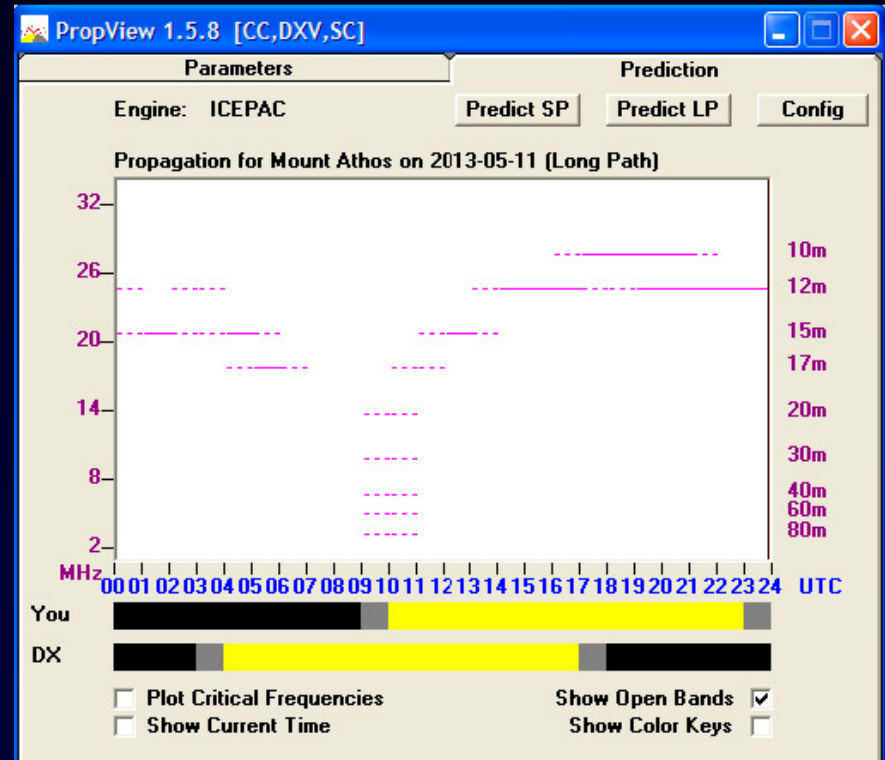
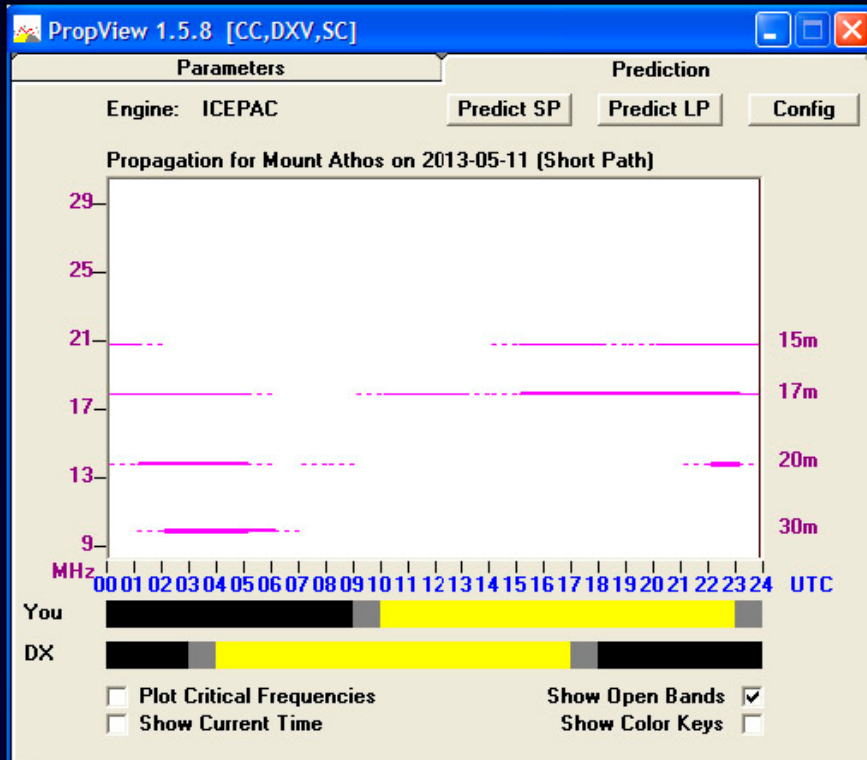
Check Spots



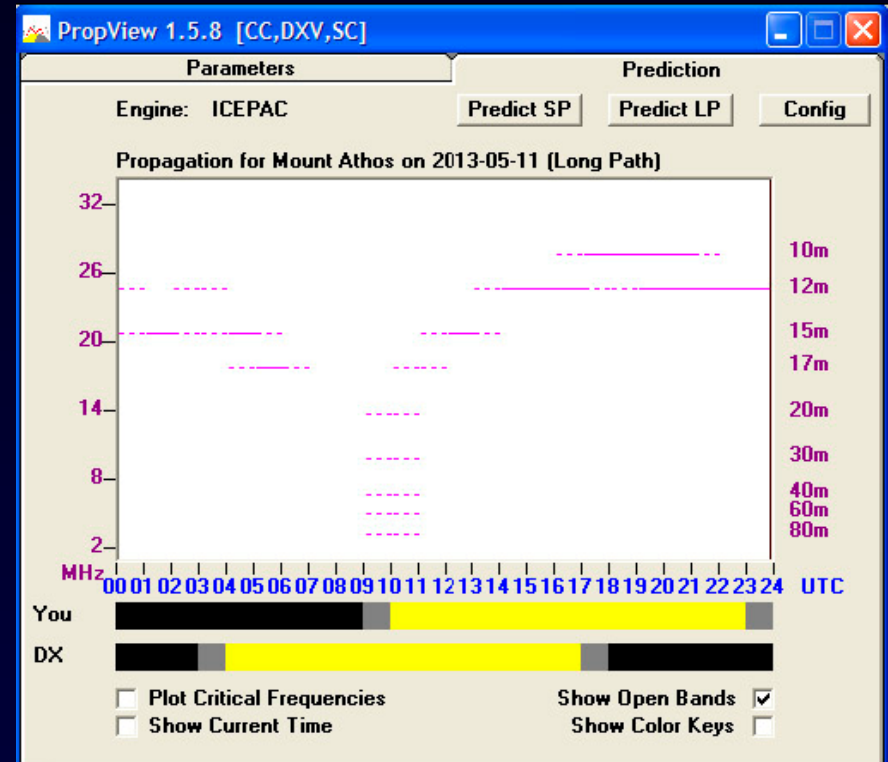
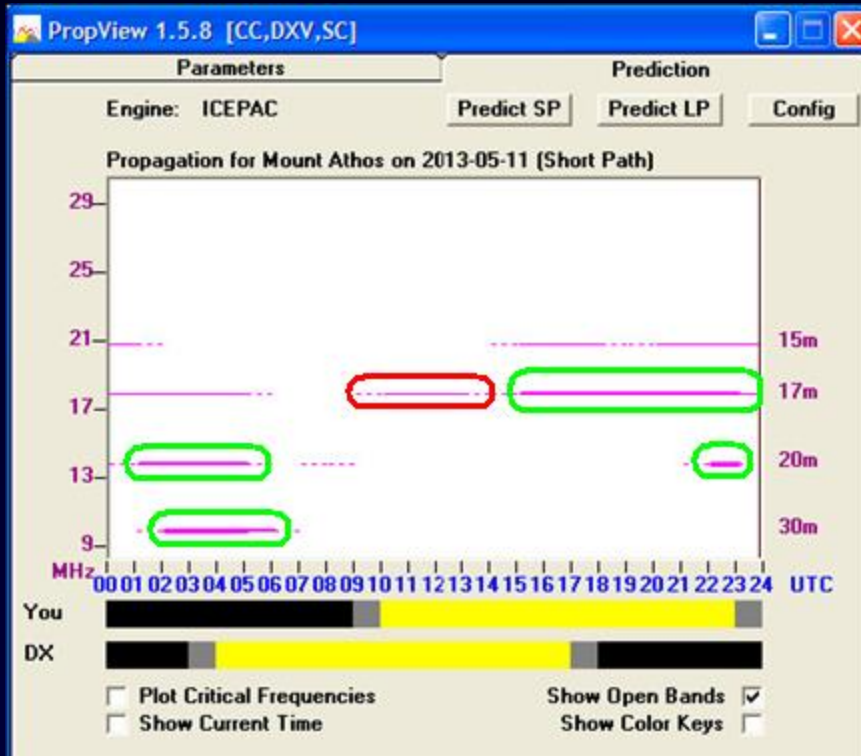
| Date | Time | Call Sign | Region | Status | Frequency | Message |
|------------|-------|-----------|--------|--------|-----------|-----------------------------|
| 2013-05-10 | 14:29 | de F5PSG | (EU) | on | 18,137.0 | : up 4 |
| 2013-05-10 | 14:32 | de EA2DT | (EU) | on | 18,137.0 | : QSX: 18141.0 |
| 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 Short- & Long-path Propagation



Forecast Short- & Long-path 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

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 nr SV-A ((dxccprefix in ('SV-A','SV','LZ','Z3','ZA')) or ((callsign like 'TA1*') or (callsign like 'TA3*'))) and (ODX between 0 and 500)
```

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) 14,210.5 Freq Cluster Spot source status

Q: 0 A: 5 T: 1 K: 1 Notes: Local Report Stats Prop Config Help

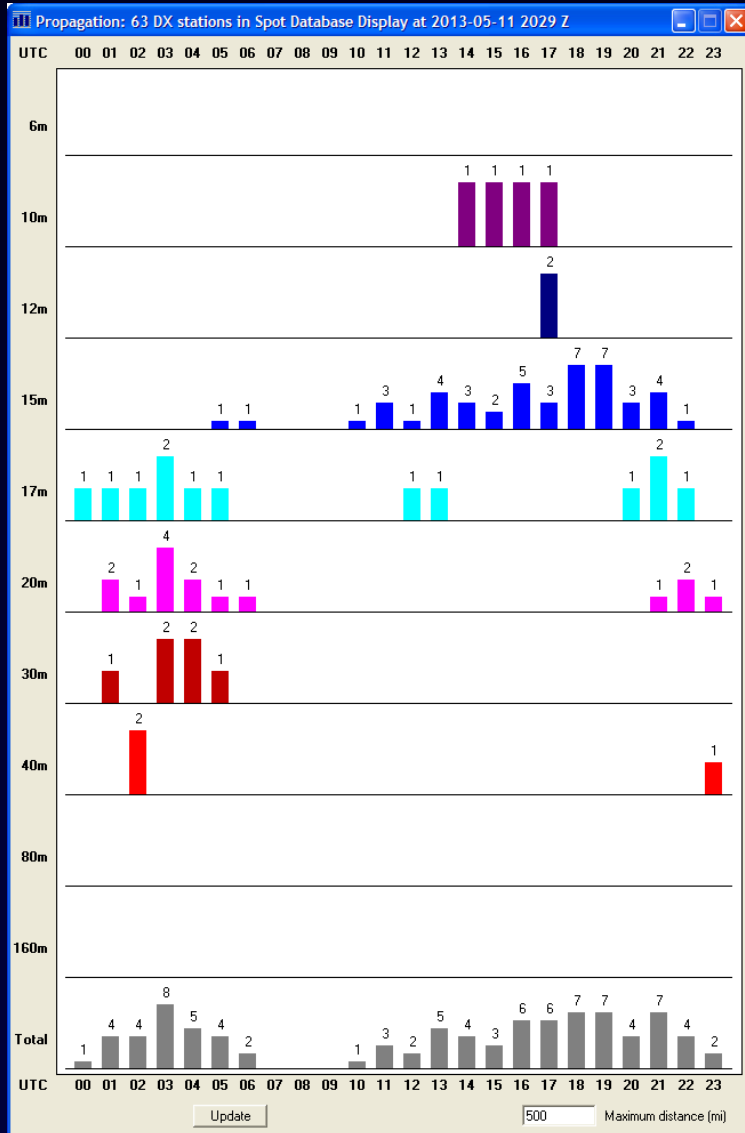
| Call | Prefix | Region | ODX | Freq | QSQ | FirstTime | LastTime | Band | Mode | CQ | IOTA | Need | EU | AF | SA | NA-E | NA-M | NA-W | AS | OC | |
|-----------|--------|--------------------|-----|----------|----------|-----------|----------|------|------|----|------|------|----|----|----|------|------|------|----|----|---|
| 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 | Y |
| SV36LL | SV | Peloponnese | 61 | 21.290.0 | | 10 1957 | 10 2123 | 15M | SSB | 20 | | Y | | | | Y | Y | Y | Y | Y | Y |
| Z320T | Z3 | Macedonia | 57 | 21.269.0 | | 10 2031 | 10 2129 | 15M | SSB | 15 | | Y | | | | 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 | | | | | |
| SV3AQR | 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 | | | | | |
| SZ75ER | 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 | 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 | | | | | |
| SV2HJQ | 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 | | | |
| SZ75ER | SV | e & East Macedonia | 237 | 21.293.0 | 21,296.0 | 11 1848 | 11 1949 | 15M | SSB | 20 | | Y | | | | Y | Y | Y | Y | | |
| SV1QKU | 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 | 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 | | | | | |
| SV3AQR | 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: Filter: SQL (nr SV-A)

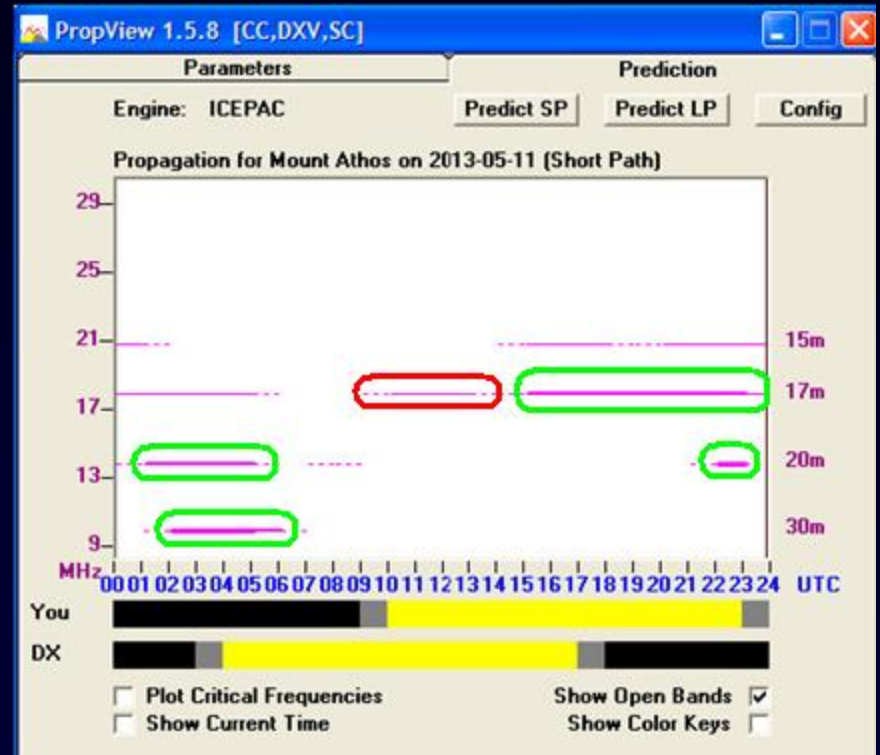
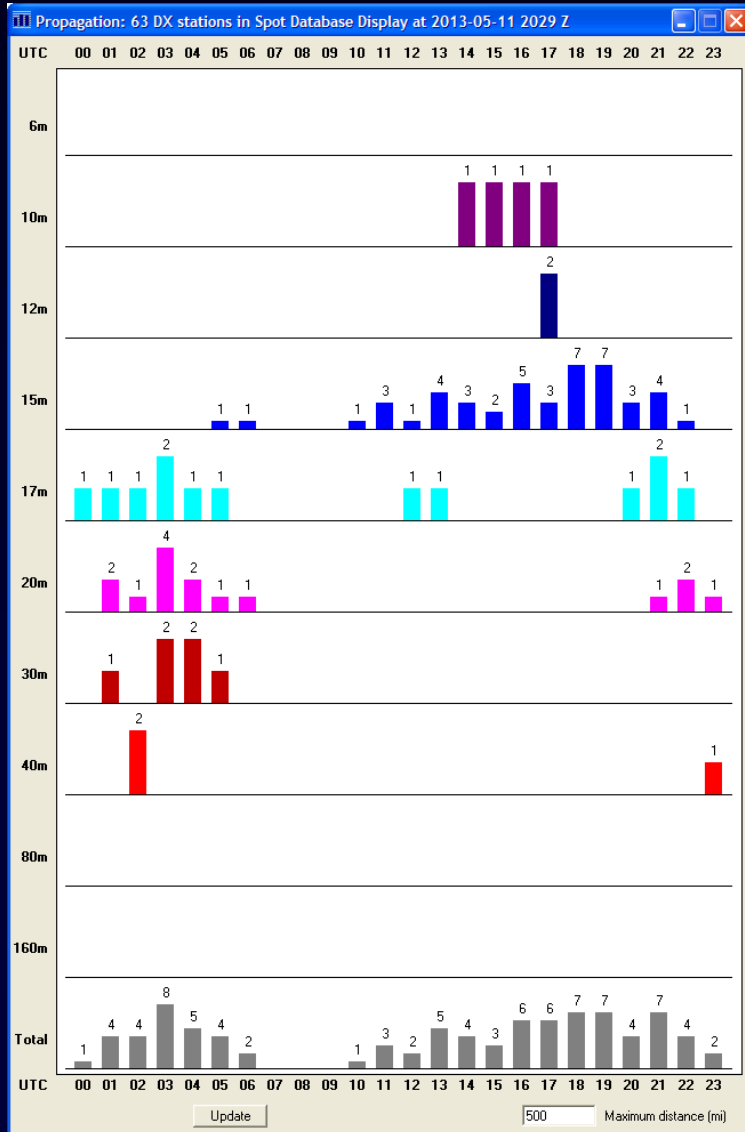
Color codes: verified unreq'd B or M LoW unneeded unreq'd counter eQSL AG unconfirmd special tag LoW & eQSL AG

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

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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

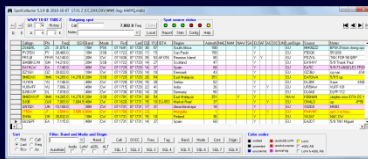
WPX needs

WAZ needs

Logged
QSOs

LotW
Database

eQSLAG
Database



Tabular Display



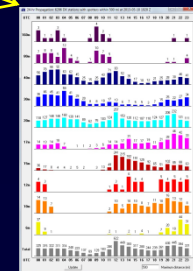
Audio & Email



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

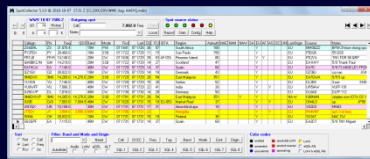
VUCC needs

WAS needs

WPX needs

WAZ needs

Logged QSOs



Tabular Display



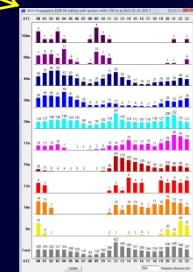
Audio & Email



World Map



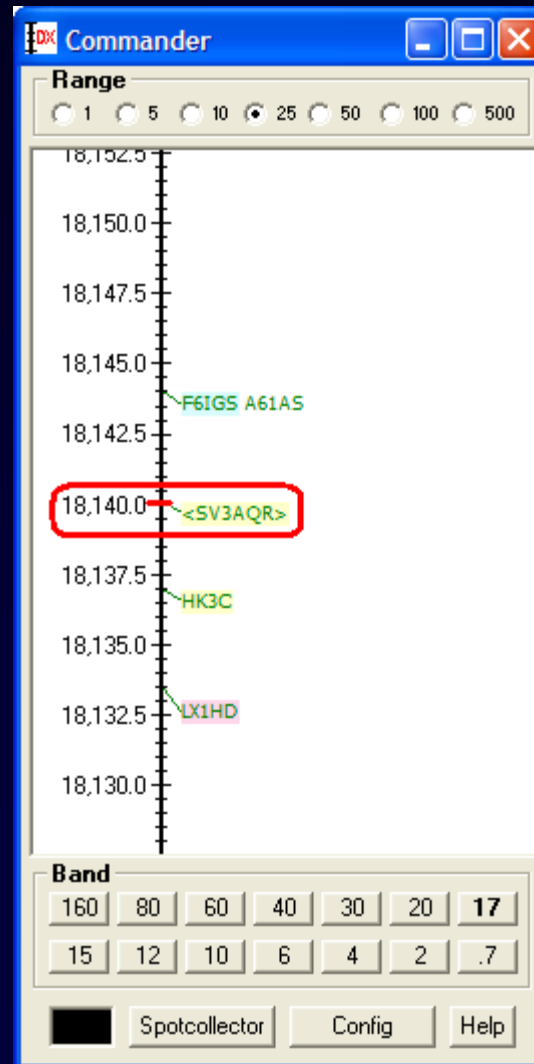
Bandspread



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

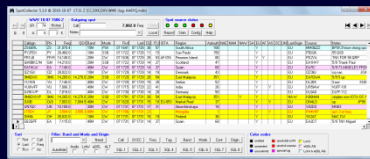
WPX needs

WAZ needs

Logged
QSOs

LotW
Database

eQSLAG
Database



Tabular Display



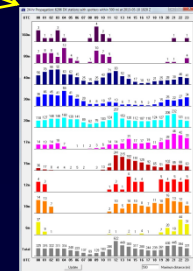
Audio & Email



World Map

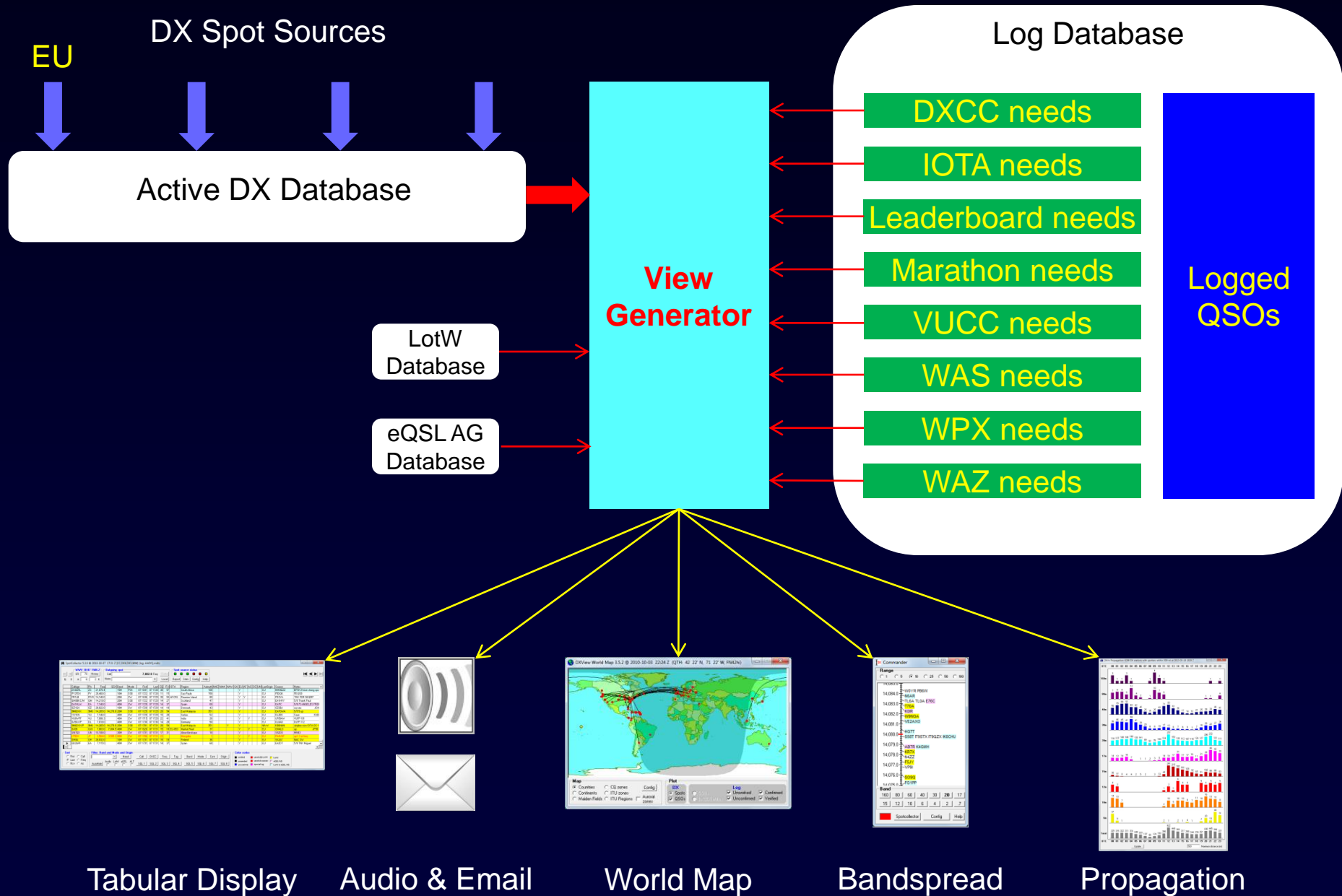


Bandspread



Propagation

Employ a European DX Cluster



SV2ASP/A: the Plan

1. Watch 18120 – 18150 daily at 1400Z with antenna on SV-A
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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

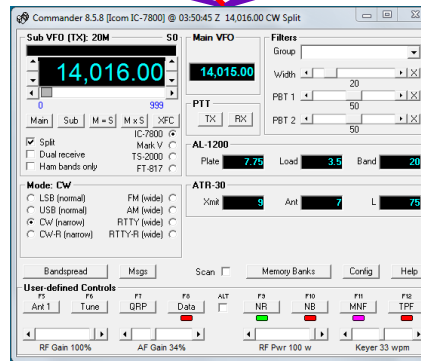
User-defined Controls

| | | | | | | | | |
|----------|-----------|-----------|-----------|---|-----------|-----------|-----------|---------|
| 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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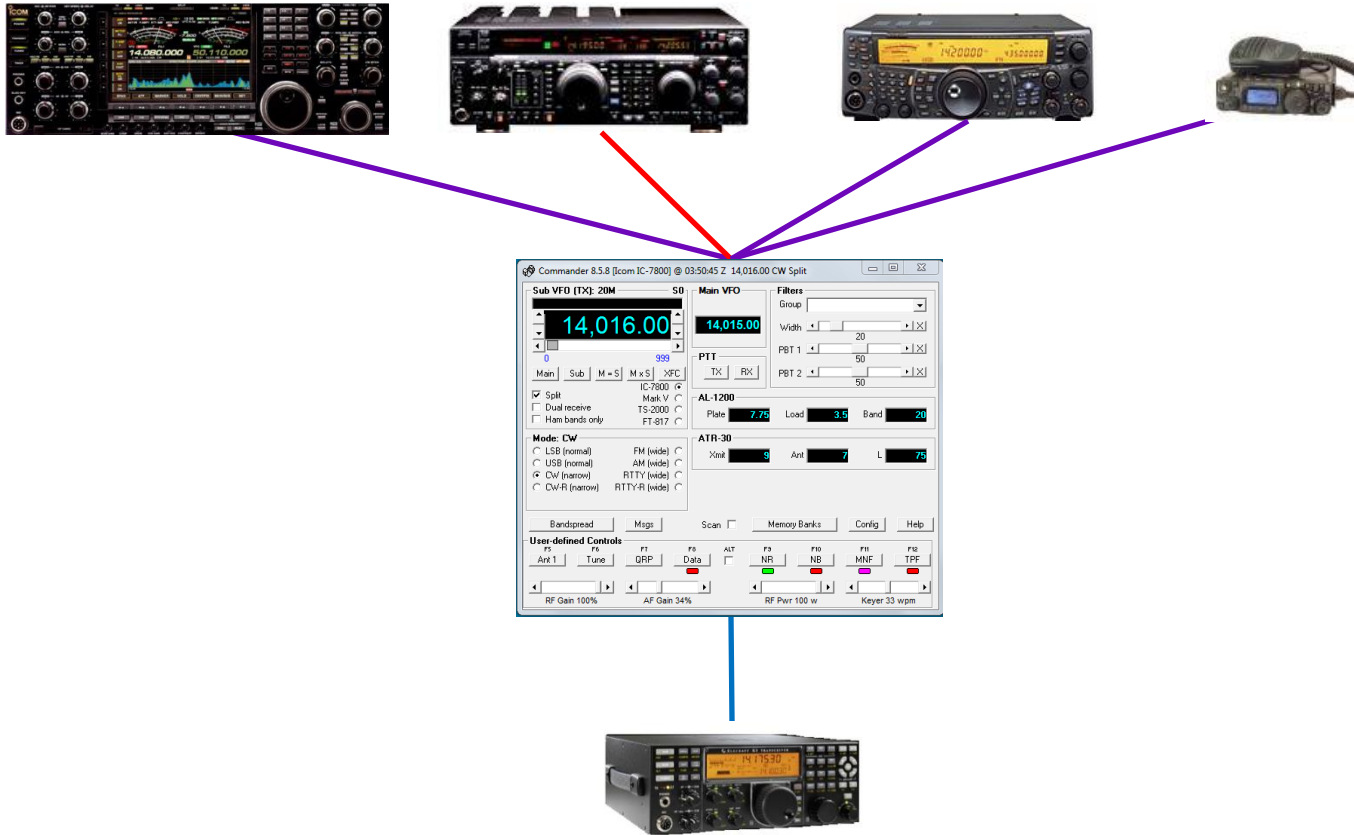
Commander: Multiple Radio Support



Select one of four *primary* radios

- By button click
- Automatically as a function of frequency

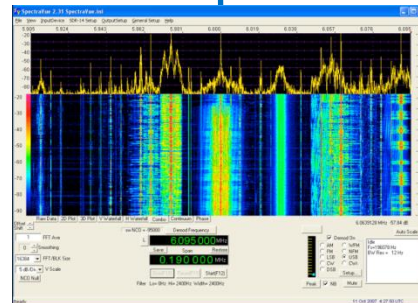
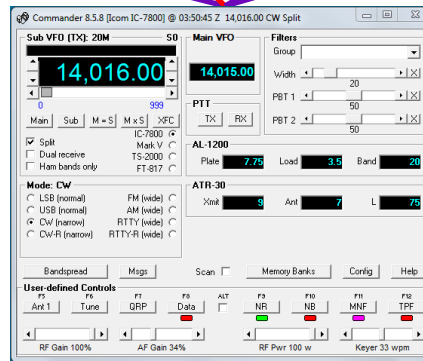
Commander: Multiple Radio Support



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

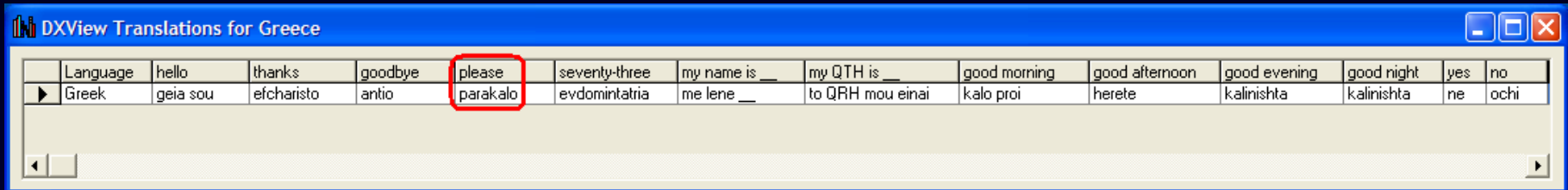
1. Watch 18120 – 18150 daily at 1400Z with antenna on SV-A
 - “Blueprint” the band with local spots
2. Employ a European DX Cluster as a Spot Source
3. Rapidly QSY when SV2ASP/A is spotted
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 - Double-click to QSY and set split
 - Amplifier and/or Tuner settings
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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 |

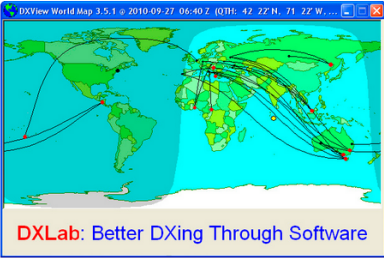
In a phone pileup, call

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

DXLab Overview



DXLab: Better DXing Through Software

Overview | Xcvr_Control | DX_Info | Logging | Digimodes | QSL_Info | DX_Spots | Propagation | Management | Documentation | Download

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, Elecraft, FlexRadio, 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, Prosisel, 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, JCC, Maidenhead Fields & Squares, Marathon, RDA, SRR, TopList, VUCC, USA-CA, WAB, WAC, WAE, WAJA, WAJP, WAJUC, WAS, WAZ, WJPX, 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 engine, with optional dual receive using a TNC
- [CW](#) (generation only) and [Phone](#) 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(\$)

4 2 3 1 3 1

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SpotCollector640update.exe Cancelled
ADIF Modes and Subm...htm

Show all downloads...

DXLab Overview

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- [Rotator control](#) - AlfaS, M2, N...
- [Solar terminator display](#) - shows grey line and specified date and
- [Prefix, Region, IOTA, and square lookup and display](#)
- [Language translation](#) - amateur radio languages used
- [World map display](#) - band opening, terminator, DX spots, openings, and
- [Callbook lookup](#) - Buck, RAC, or QRZ CDROMs, Ham Online, or QRZ both free and
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423 131

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

SpotCollector646Update.exe Cancelled | ADIF Modes and Subm...htm | Show all downloads...

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 | | | | 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, Continents, 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 - I 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 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 .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