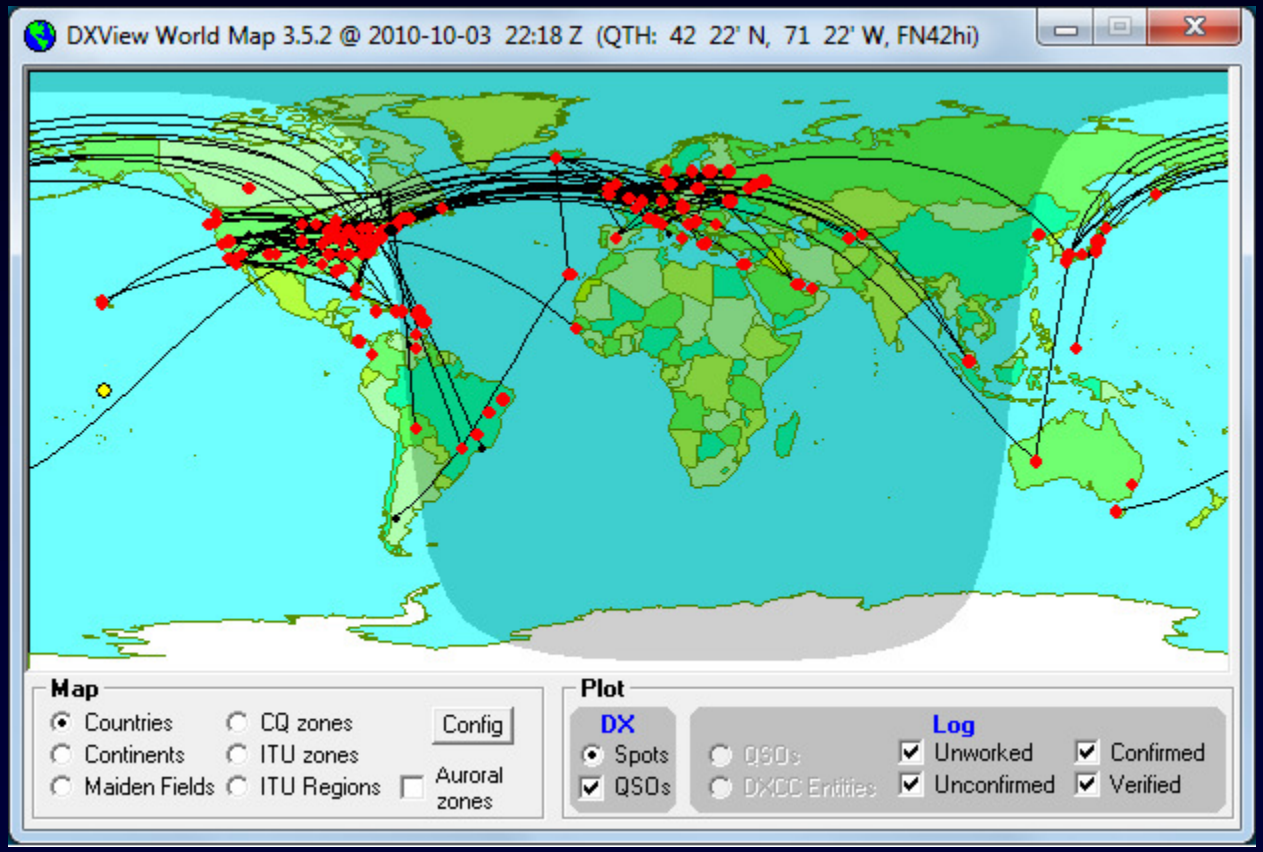
the DXLab Suite

2012-03-19 v1.4



Better DXing Through Software

the DXLab Suite

Eight free applications that run individually

but

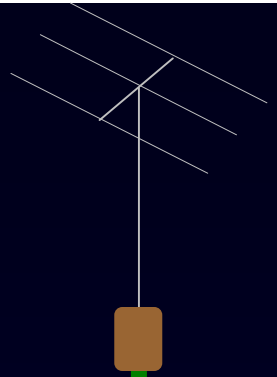
when run simultaneously sense each other's presence

and

interoperate automatically

Better DXing Through Software

Original Architecture: Monolithic



DXLab

Transceiver Control

Logging

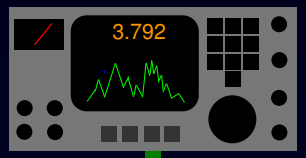
Propagation

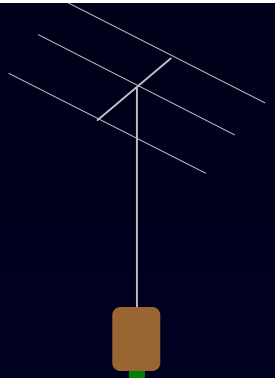
Location Control

DX Spot Collection

QSL Routes

Re-architecture (2000): Modular





PSK & RTTY

Transceiver Control

Location Control

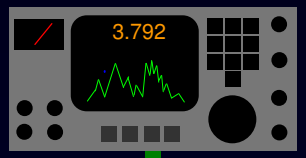
Logging

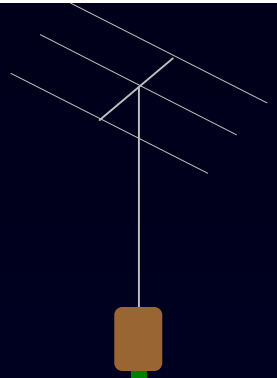
DX Spot Collection

Propagation

QSL Routes

the DXLab Suite





WinWarbler

Commander

DXView

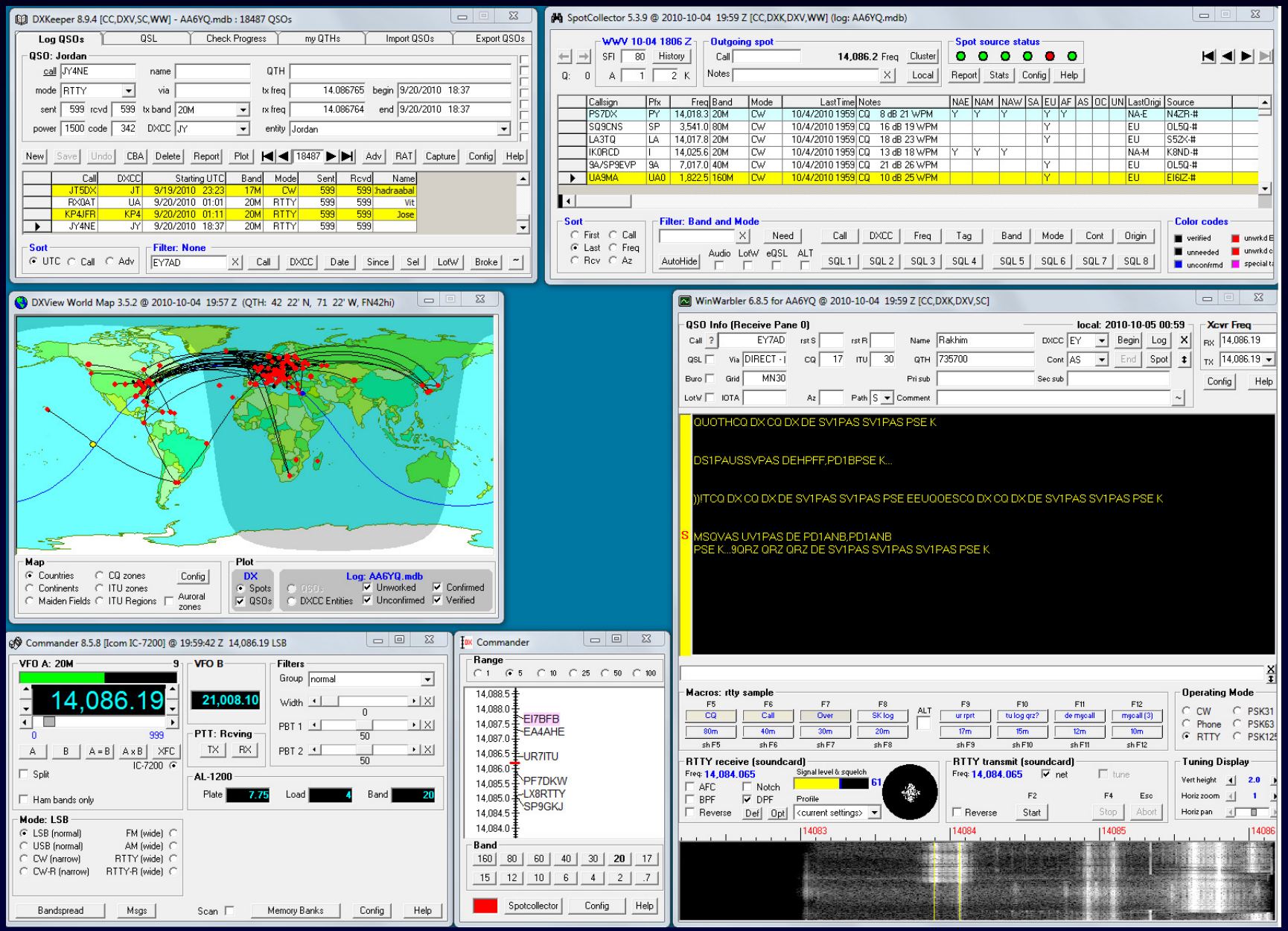
DXKeeper

SpotCollector

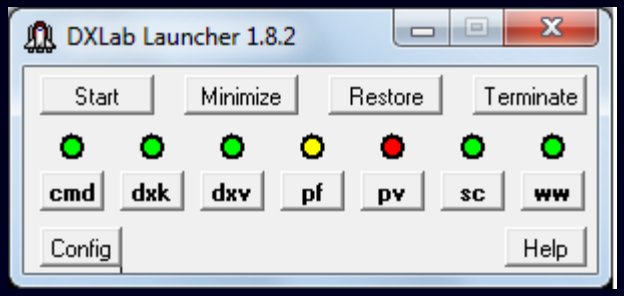
PropView

Pathfinder

A Suite of Interoperating DXing Applications



Single Point of Control: DXLab Launcher

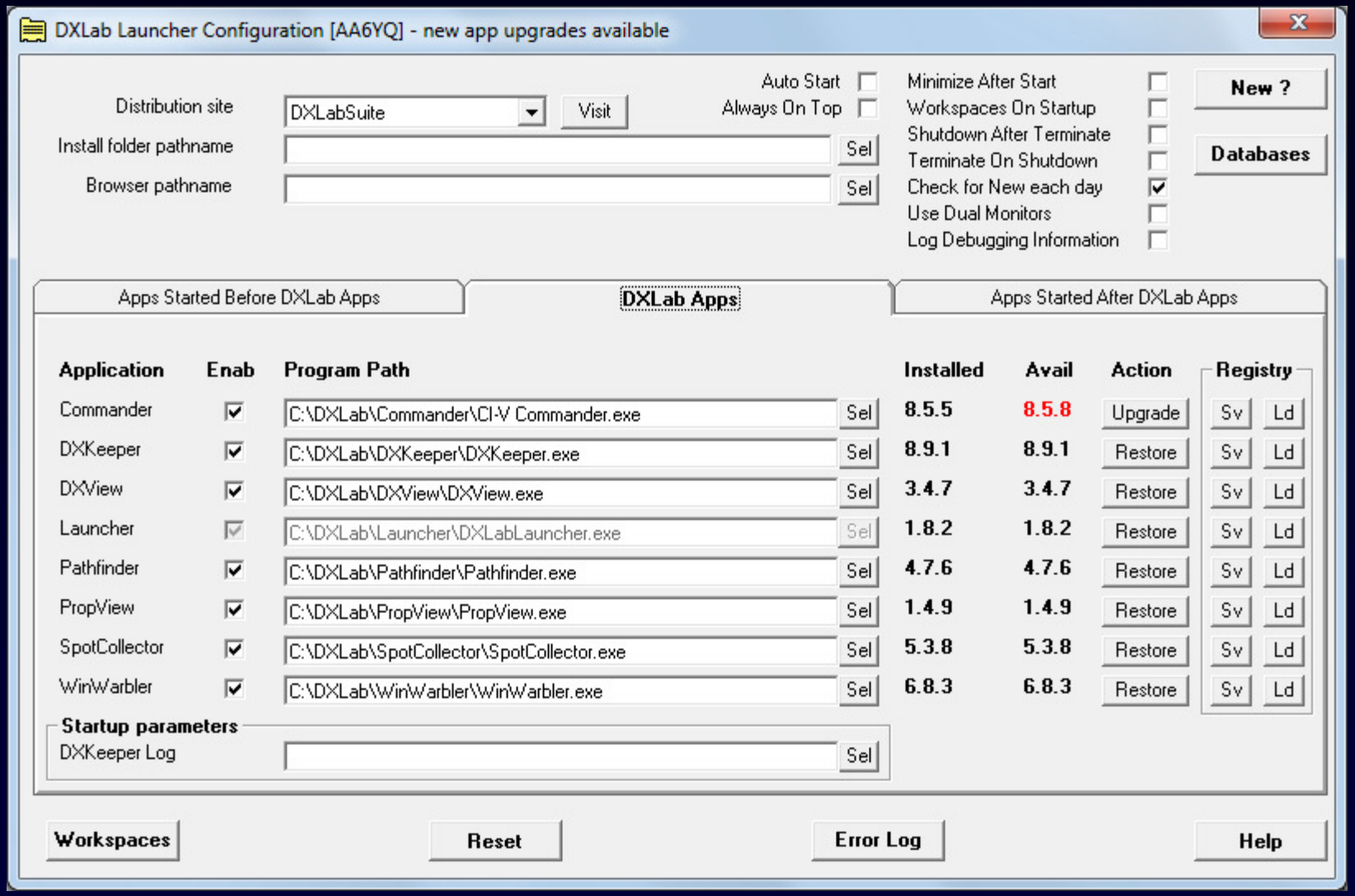


Development Drivers

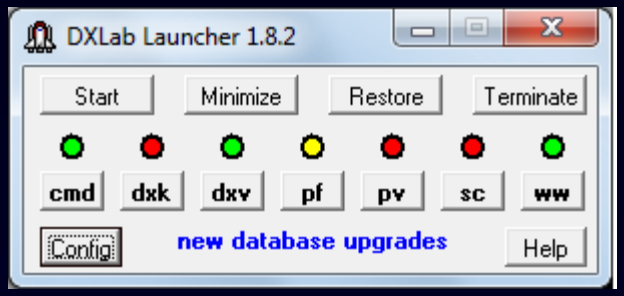
1. User-driven iterative development
   - Open Yahoo group with ~3700 participants
   - Defect repairs get highest priority; goal is < 24 hours
   - Public enhancement lists
   - Closed source, one developer
   - Frequent releases
     - Full releases for first-time installation
     - Incremental updates for defect repairs and enhancements
     - Automated installation and updates
2. Easy to Use AND Powerful

Automated Installation and Updates: Apps

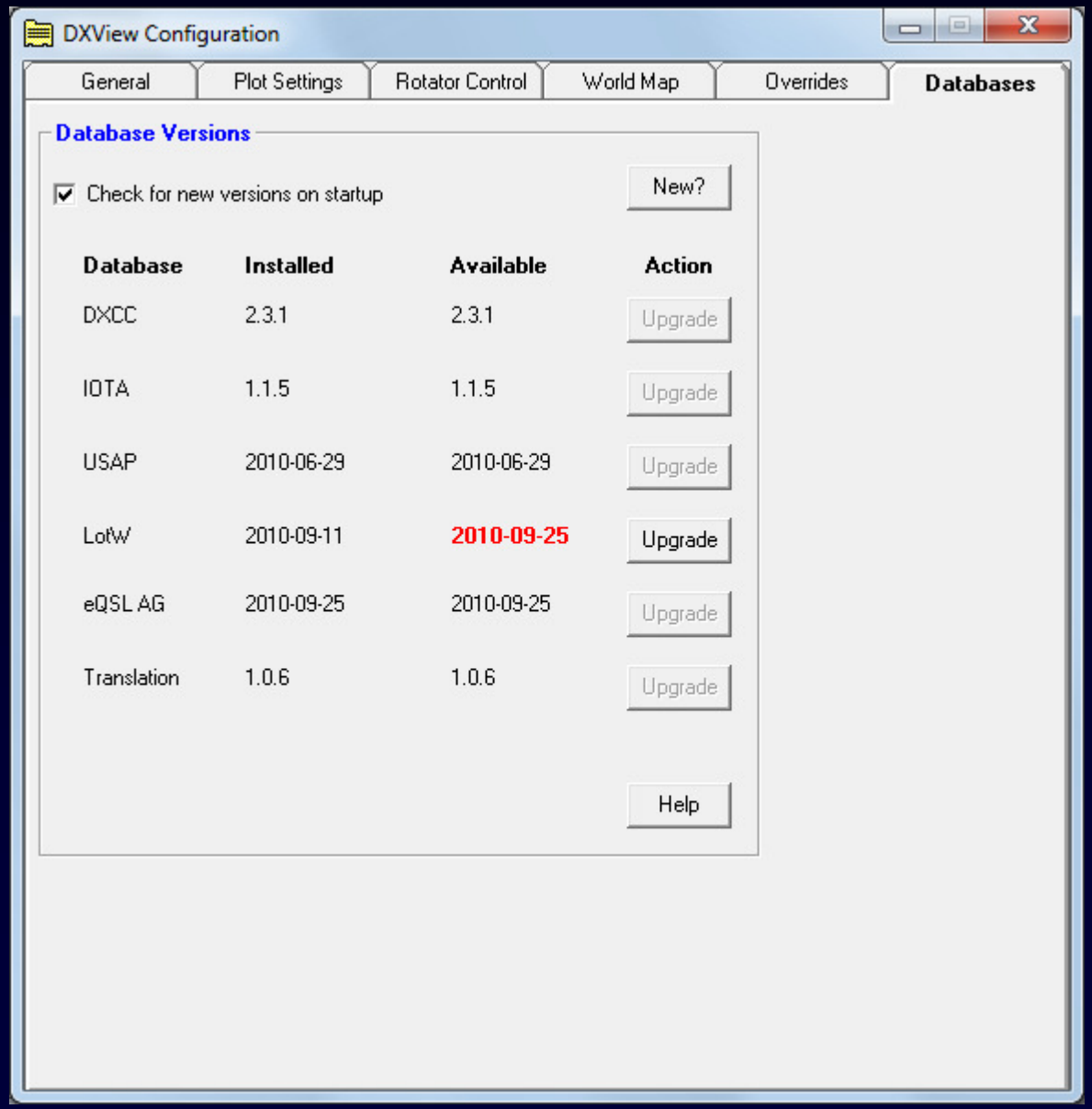
Automated Installation and Updates: Apps



Automated Installation and Updates: Databases



Automated Installation and Updates: Databases

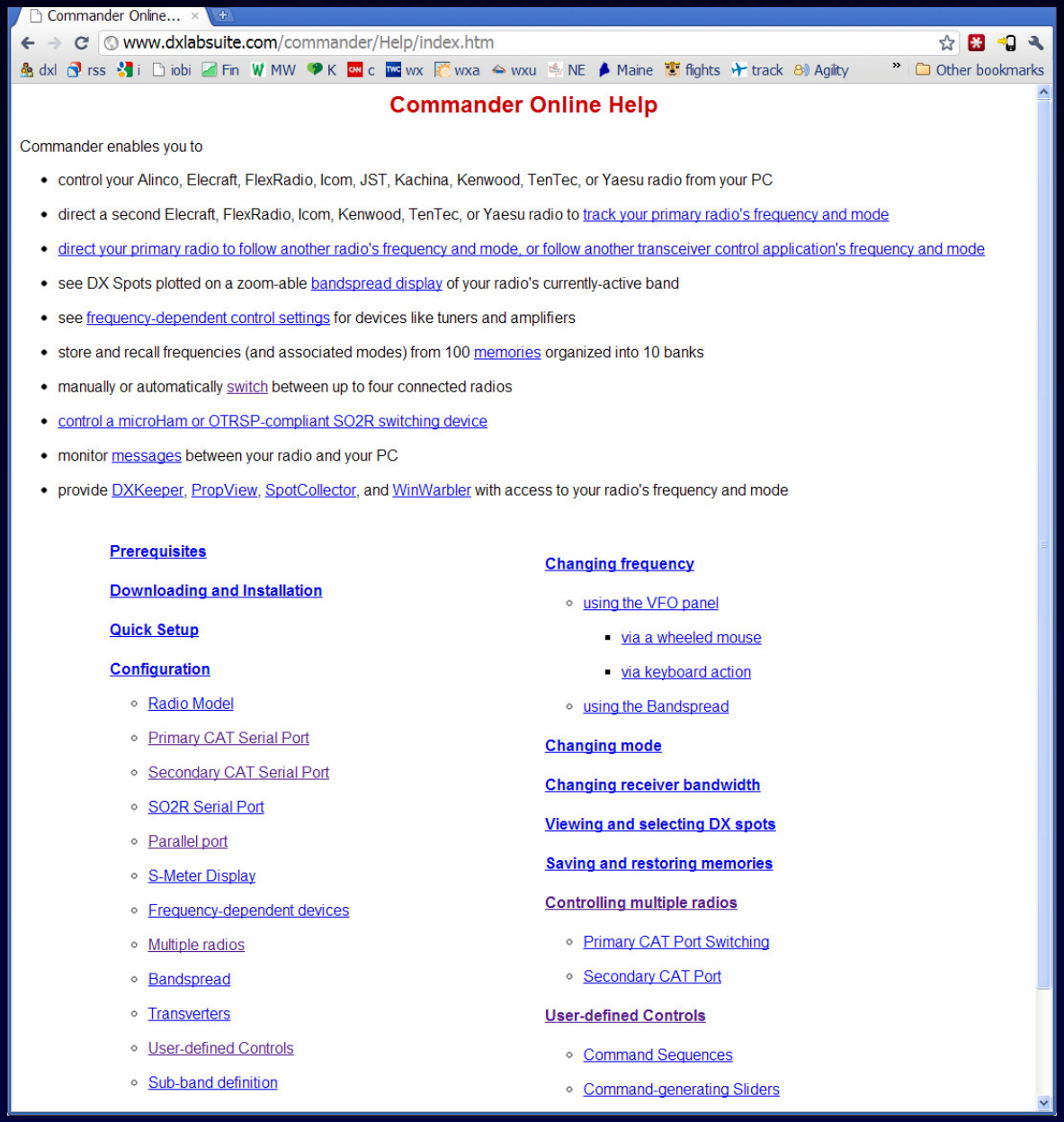


Development Drivers

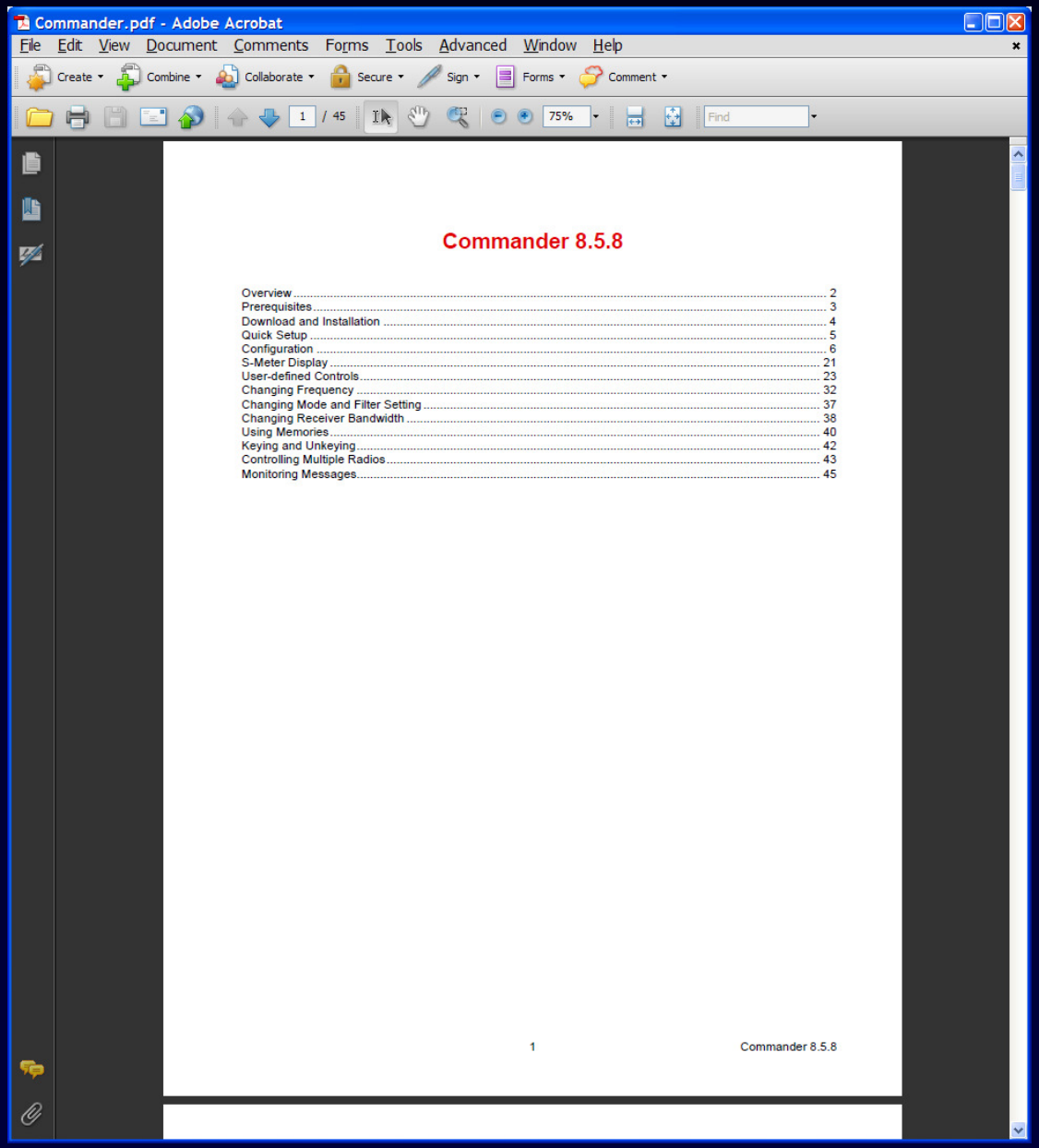
1. User-driven iterative development

2. Easy to Use AND Powerful
   - No menus
   - Graphical Controls with popup explanations
   - Online and PDF reference documentation
   - Online step-by-step explanations (Wiki)
   - User feedback from frequent releases
     - Improves usability
     - Improves documentation

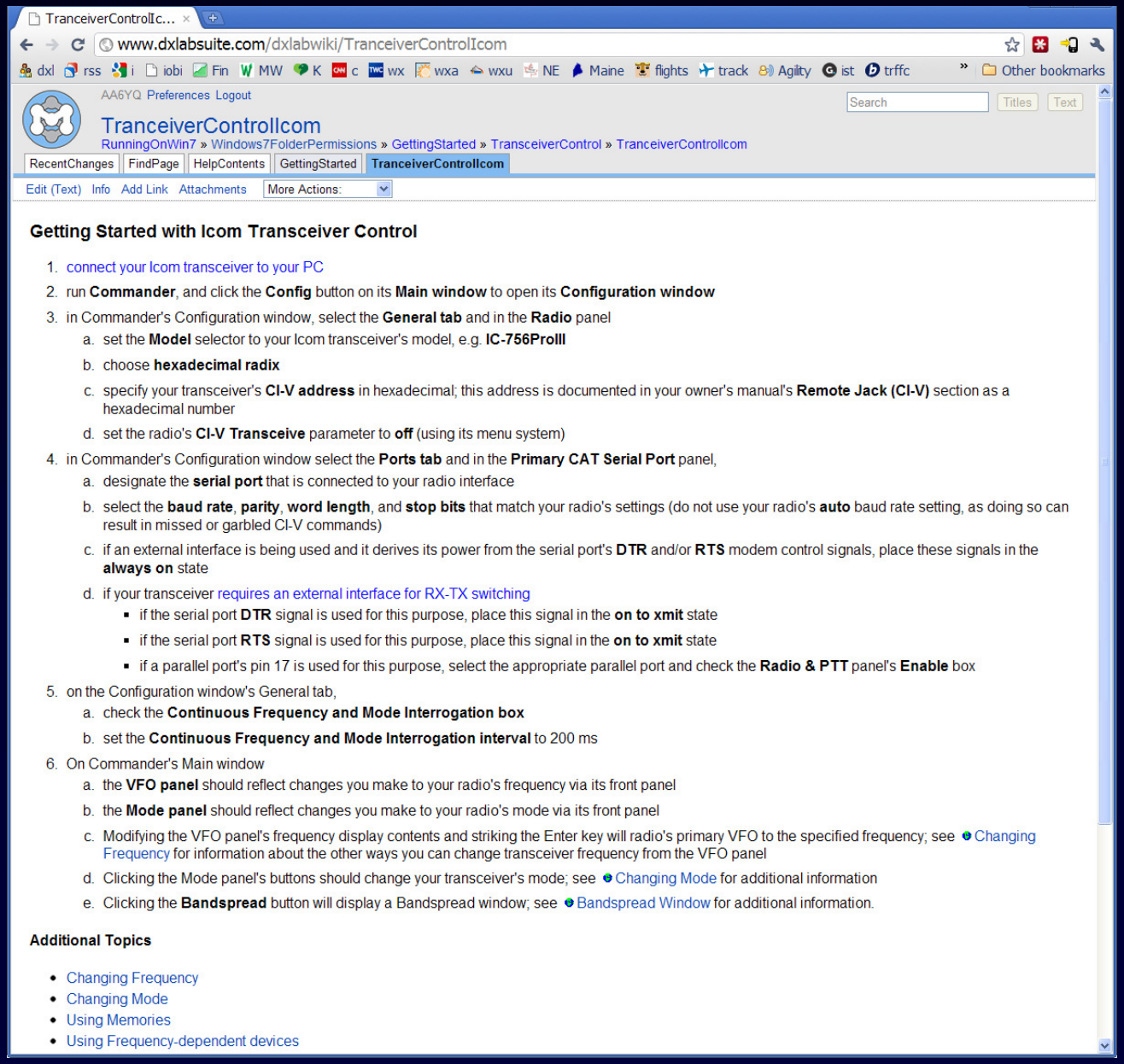
Documentation: Online Reference



Documentation: PDF Reference



Documentation: Step-by-Step



TranceiverControlIc...

www.dxlabsuite.com/dxlabwiki/TranceiverControlIcom

dxl rss i iobi Fin MW K c wx wxa wxu NE Maine flights track Agility ist trffc Other bookmarks

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RecentChanges FindPage HelpContents GettingStarted TranceiverControlIcom

Edit (Text) Info Add Link Attachments More Actions:

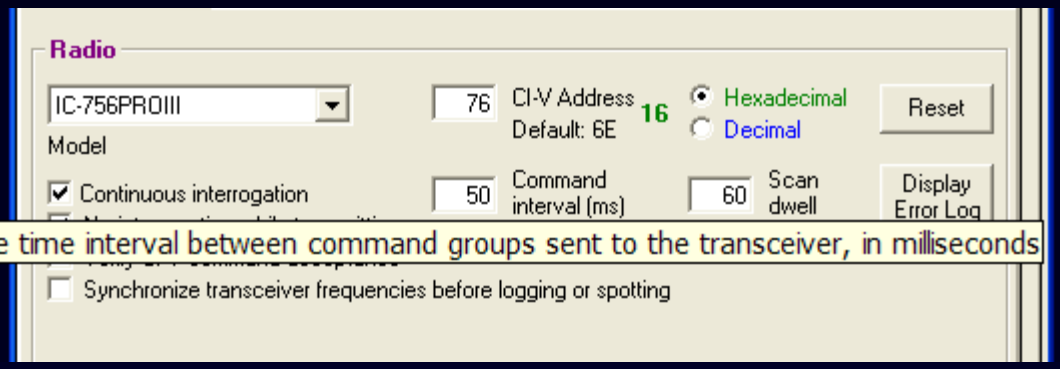
Getting Started with Icom Transceiver Control

1. connect your Icom transceiver to your PC
2. run **Commander**, and click the **Config** button on its **Main window** to open its **Configuration window**
3. in Commander's Configuration window, select the **General tab** and in the **Radio** panel
   a. set the **Model** selector to your Icom transceiver's model, e.g. **IC-756ProIII**
   b. choose **hexadecimal radix**
   c. specify your transceiver's **CI-V address** in hexadecimal; this address is documented in your owner's manual's **Remote Jack (CI-V)** section as a hexadecimal number
   d. set the radio's **CI-V Transceive** parameter to **off** (using its menu system)
4. in Commander's Configuration window select the **Ports tab** and in the **Primary CAT Serial Port** panel,
   a. designate the **serial port** that is connected to your radio interface
   b. select the **baud rate**, **parity**, **word length**, and **stop bits** that match your radio's settings (do not use your radio's **auto** baud rate setting, as doing so can result in missed or garbled CI-V commands)
   c. if an external interface is being used and it derives its power from the serial port's **DTR** and/or **RTS** modem control signals, place these signals in the **always on** state
   d. if your transceiver requires an external interface for RX-TX switching
      - if the serial port **DTR** signal is used for this purpose, place this signal in the **on to xmit** state
      - if the serial port **RTS** signal is used for this purpose, place this signal in the **on to xmit** state
      - if a parallel port's pin 17 is used for this purpose, select the appropriate parallel port and check the **Radio & PTT** panel's **Enable** box
5. on the Configuration window's General tab,
   a. check the **Continuous Frequency and Mode Interrogation box**
   b. set the **Continuous Frequency and Mode Interrogation interval** to 200 ms
6. On Commander's Main window
   a. the **VFO panel** should reflect changes you make to your radio's frequency via its front panel
   b. the **Mode panel** should reflect changes you make to your radio's mode via its front panel
   c. Modifying the VFO panel's frequency display contents and striking the Enter key will radio's primary VFO to the specified frequency; see Changing Frequency for information about the other ways you can change transceiver frequency from the VFO panel
   d. Clicking the Mode panel's buttons should change your transceiver's mode; see Changing Mode for additional information
   e. Clicking the **Bandspread** button will display a Bandspread window; see Bandspread Window for additional information.

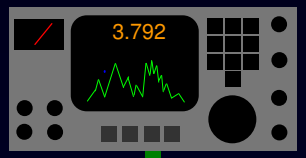
Additional Topics

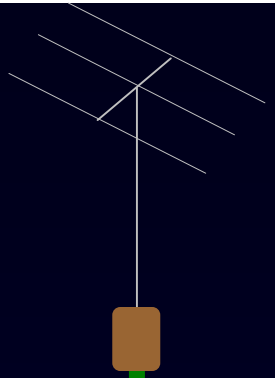
- Changing Frequency
- Changing Mode
- Using Memories
- Using Frequency-dependent devices

Documentation: Explanatory Popups



the DXLab Suite





WinWarbler

Commander

DXView

DXKeeper

SpotCollector

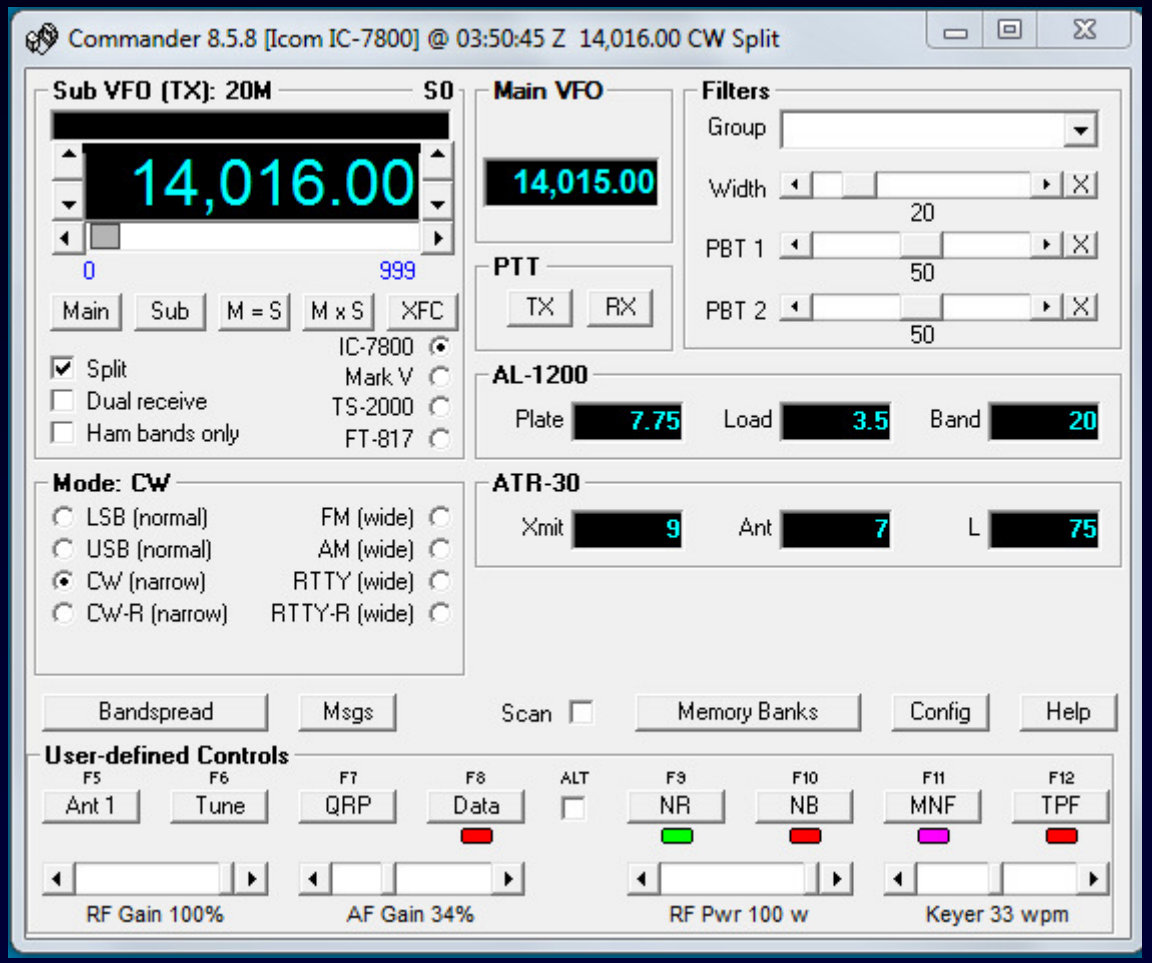
PropView

Pathfinder

Commander: Transceiver Control

- Controls and displays
  - Frequency & Mode
  - Receiver bandwidth
  - Split & Dual Receive
  - Other CAT-accessible settings via user-defined controls
  - Transverters on 6m, 4m, 2m, 70cm
- Manages frequency-dependent devices
  - Displays settings for Tuners and Amplifiers
  - Supports automatic Antenna and Transceiver switching
- Switches among 4 primary radios
- Secondary CAT Port
  - Frequency and mode tracking by an independent radio
  - SDR-based panadaptors (SpectraVue, CW Skimmer, BobCAT)

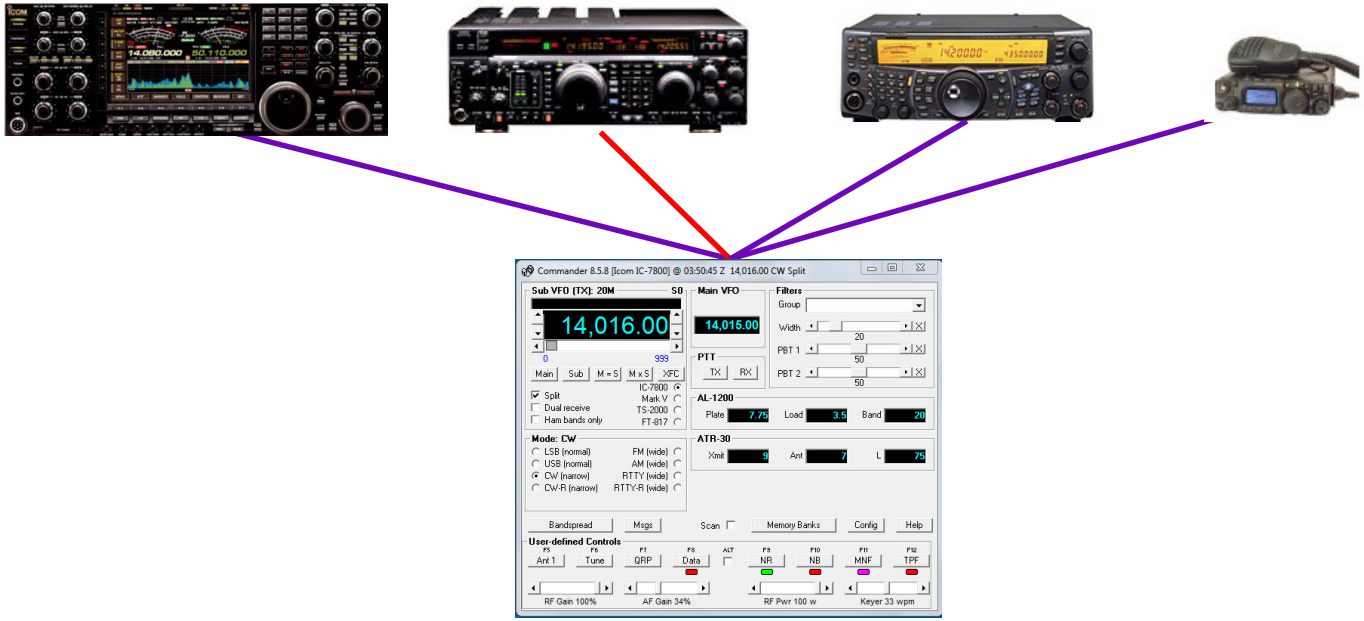
Commander: Transceiver Control



Commander: Transceiver Control

- Controls and displays
  - Frequency & Mode
  - Receiver bandwidth
  - Split & Dual Receive
  - Other CAT-accessible settings (standard and user-defined controls)
  - Transverters on 6m, 4m, 2m, 70cm
- Manages frequency-dependent devices
  - Displays settings for Tuners and Amplifiers
  - Supports automatic Antenna and Transceiver switching
- Switches among 4 primary radios
- Secondary CAT Port
  - Frequency and mode tracking by an independent radio
  - SDR-based panadaptors (SpectraVue, CW Skimmer, BobCAT)

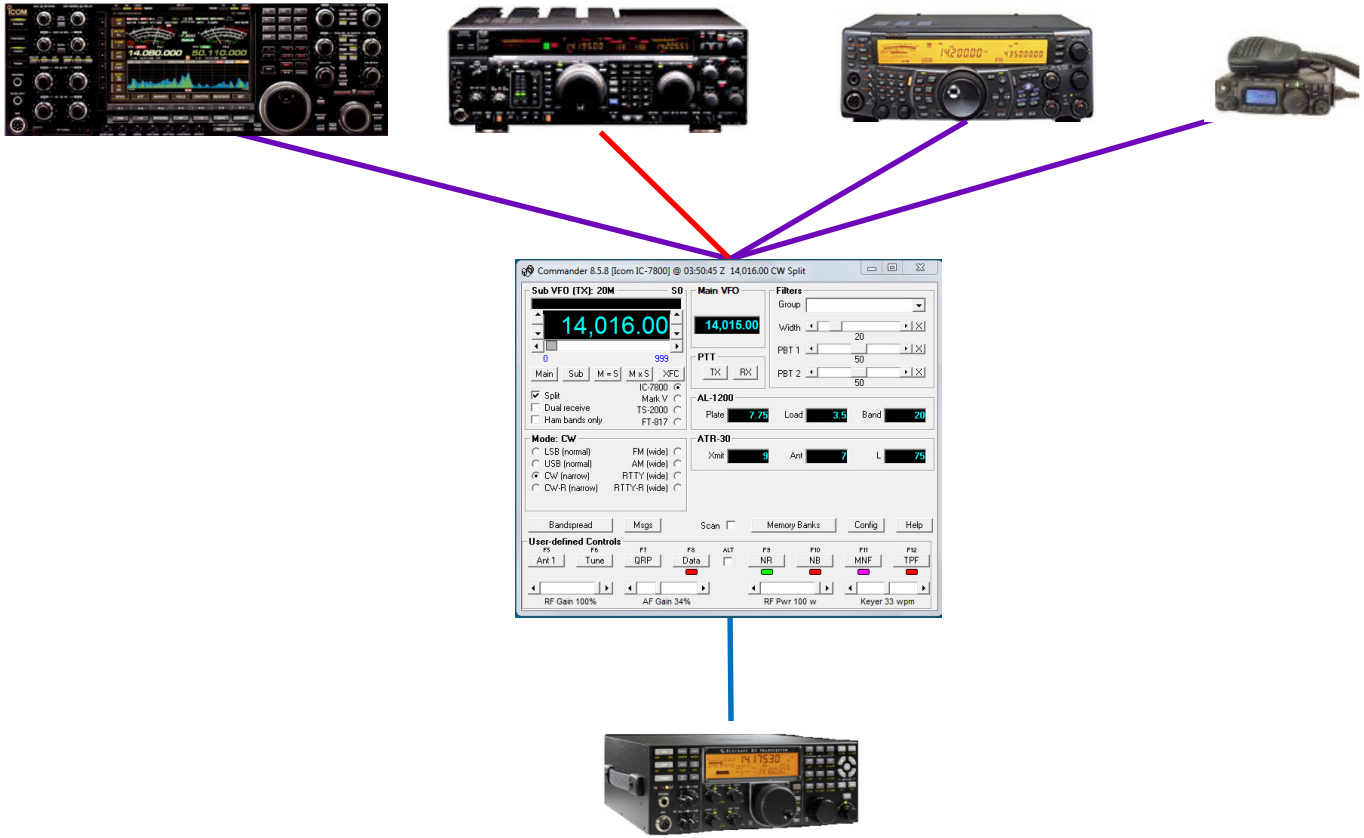
Commander: Multiple Radio Support



Select one of four *primary* radios

- By button click
- Automatically as a function of frequency

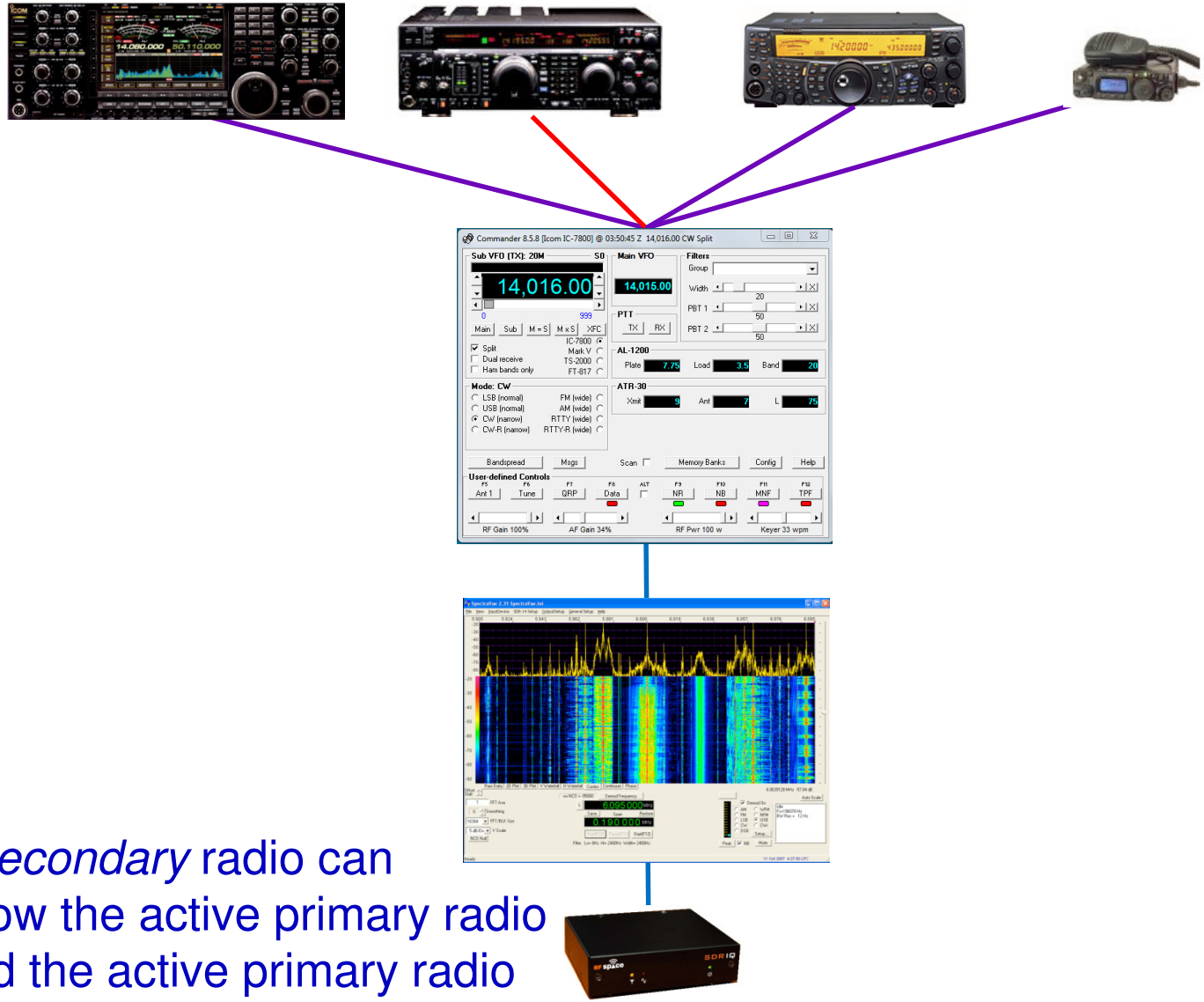
Commander: Multiple Radio Support



The *Secondary* radio can

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

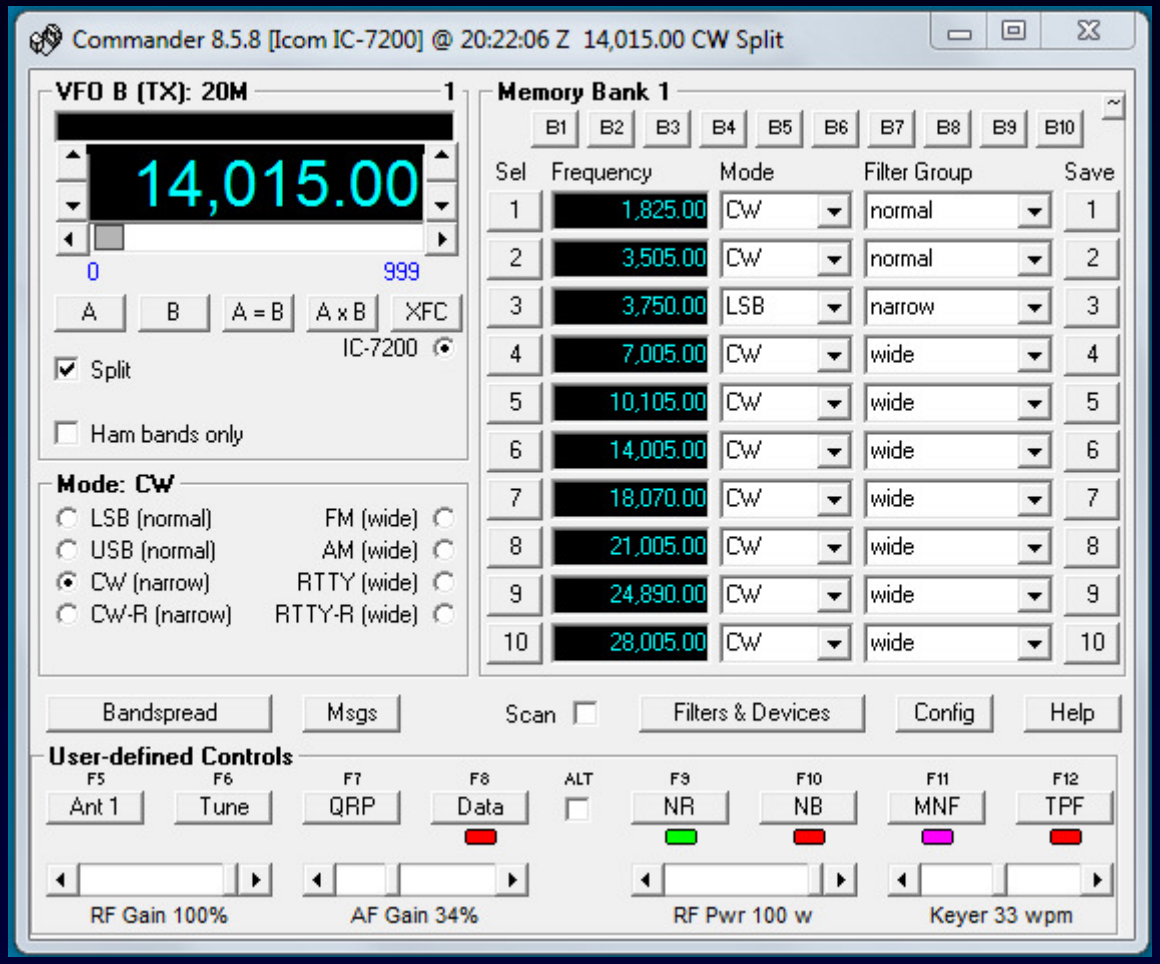
Commander: Multiple Radio Support



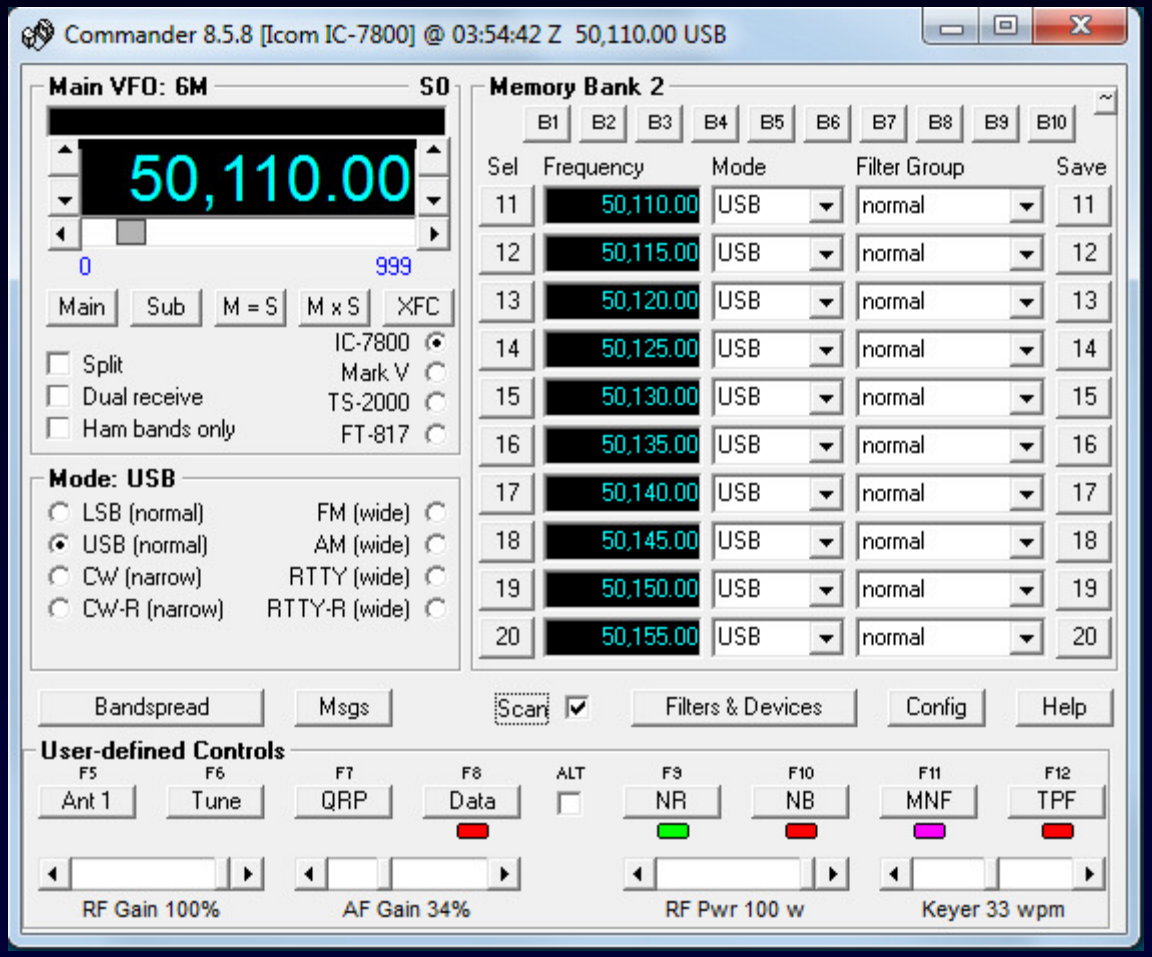
The *Secondary* radio can

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

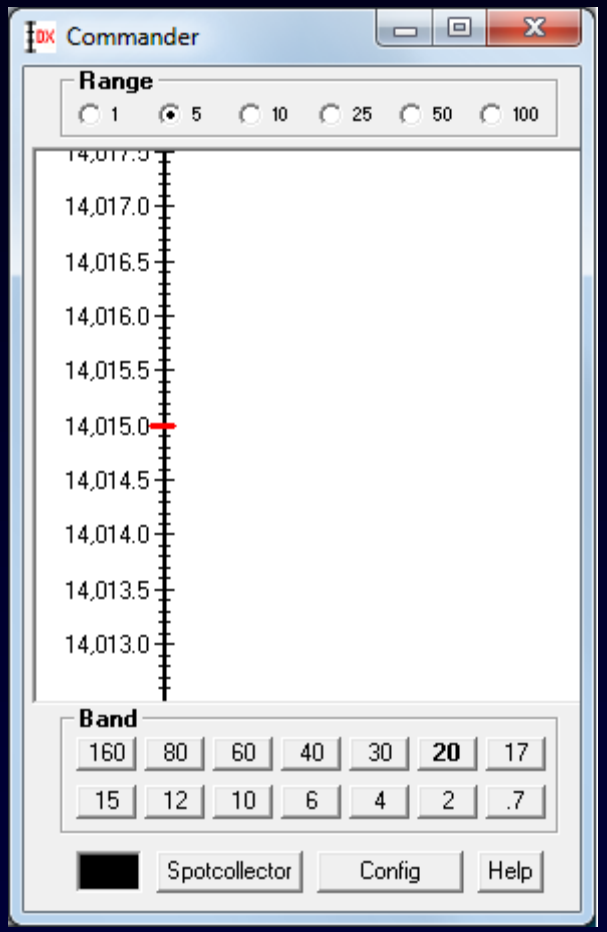
Commander Memories: 10 Banks of 10



Commander Memories: Scanning



Commander: Bandspread



Commander: More Than 100 Radios Supported

Hardware

- Alinco
- DZ
- Elecraft
- Icom
- JRC
- Kachina
- Kenwood
- TenTec
- Yaesu

SDR Consoles

- BobCAT
- CWSkimmer
- PowerSDR
- SpectraVue
- SDR-Radio

SDR

- FlexRadio
- HPSDR Mercury
- Microtelecom Perseus
- RFSpace SDR-IQ, SDR-14
- SoftRock
- SRL QuickSilver QS1R

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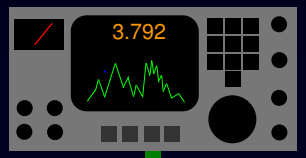
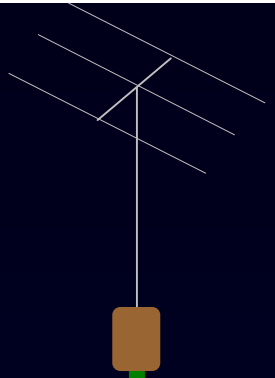




WinWarbler

Commander

DXView

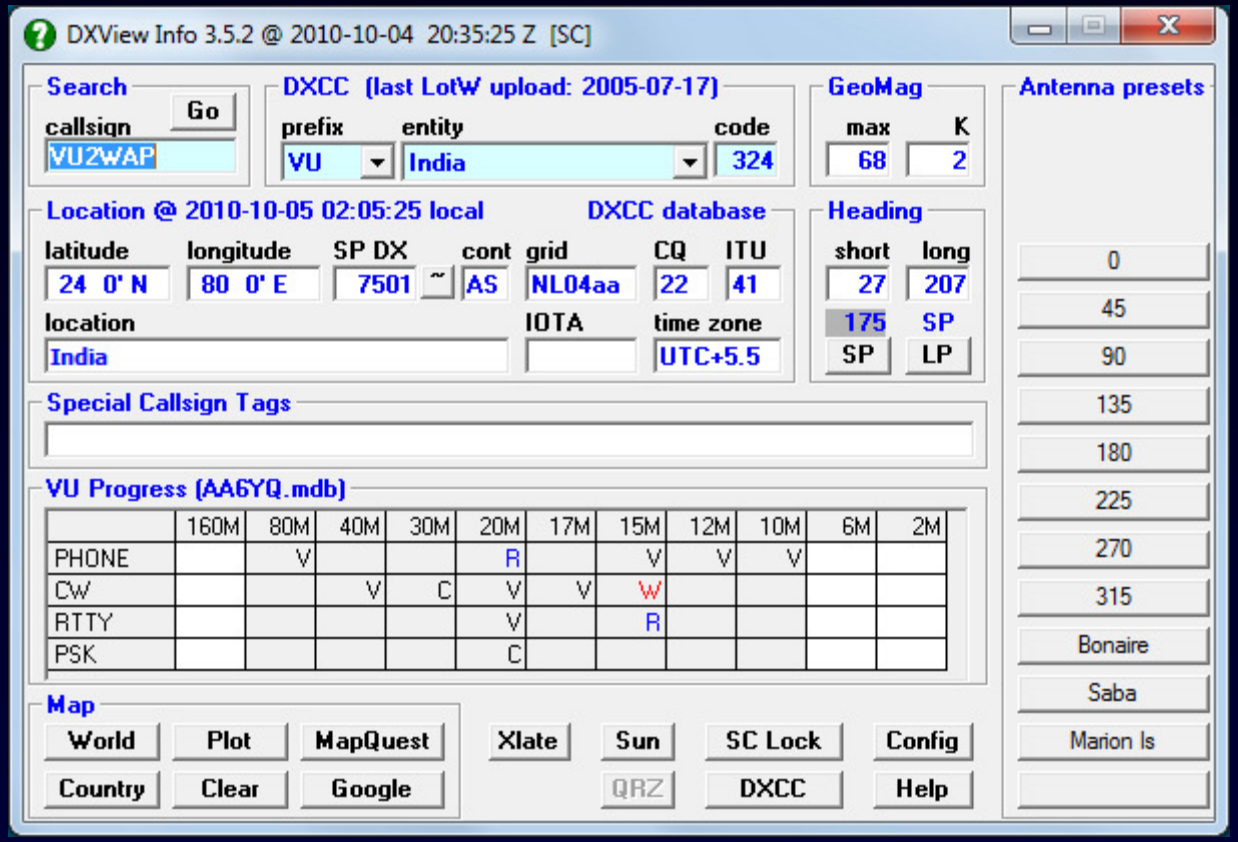
DXKeeper

SpotCollector

PropView

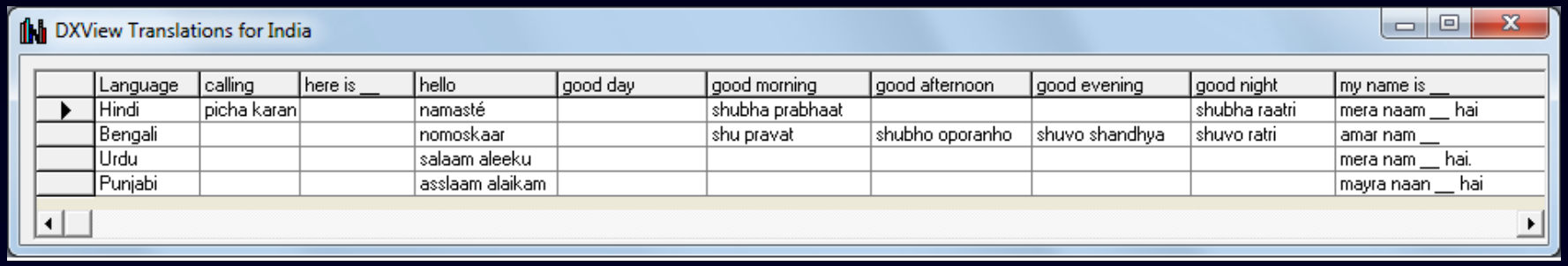
Pathfinder

DXView Information



- by Callsign
- by Prefix
- by IOTA tag
- by Grid
- by Latitude/Longitude

DXView Information: Phrase Translation

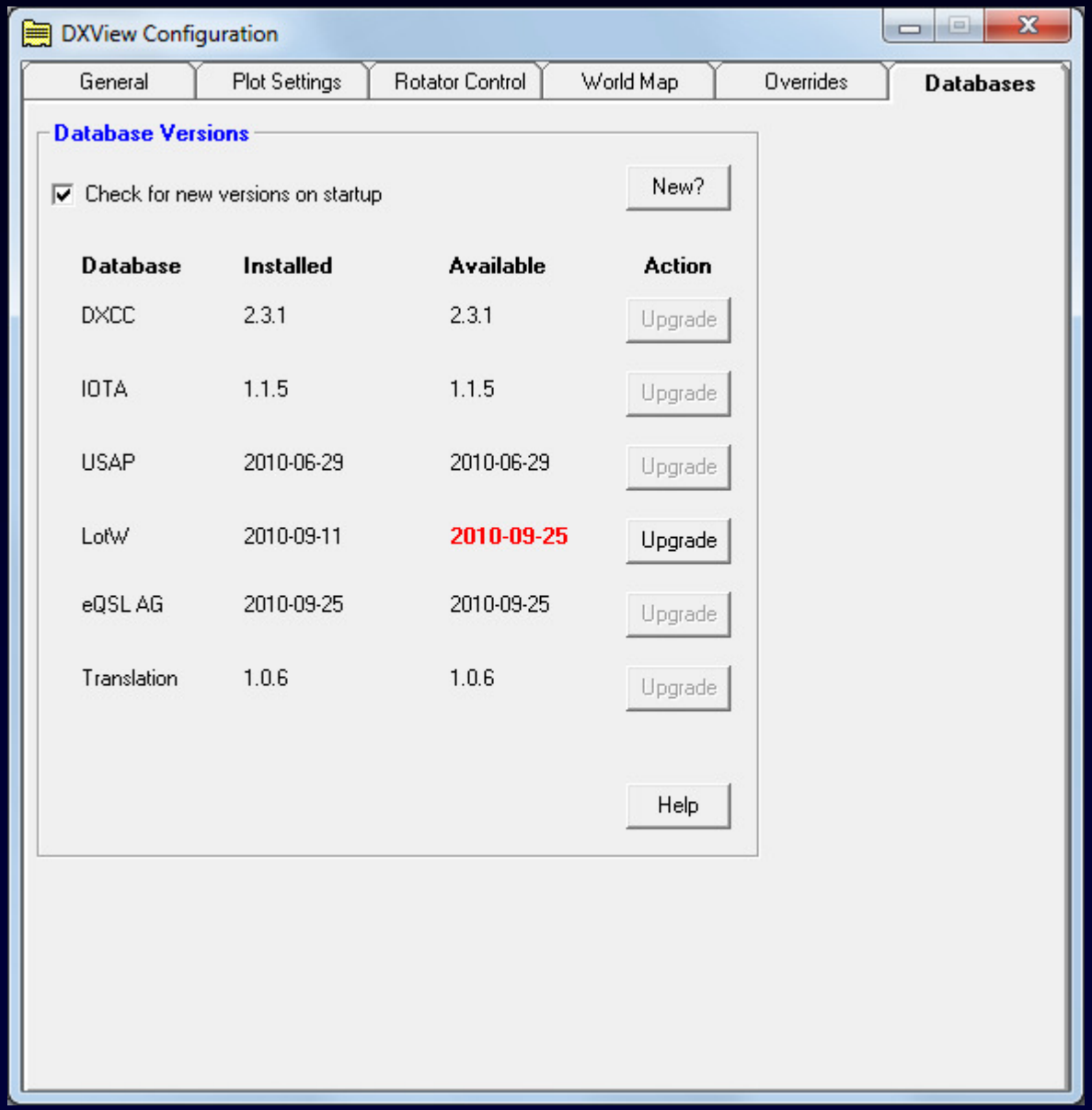


Language	calling	here is __	hello	good day	good morning	good afternoon	good evening	good night	my name is __
Hindi	picha karan		namasté		shubha prabhaat			shubha raatri	mera naam __ hai
Bengali			nomoskaar		shu pravat	shubho oporanho	shuvo shandhya	shuvo ratri	amar nam __
Urdu			salaam aleeku						mera nam __ hai.
Punjabi			asslaam alaikam						mayra naan __ hai

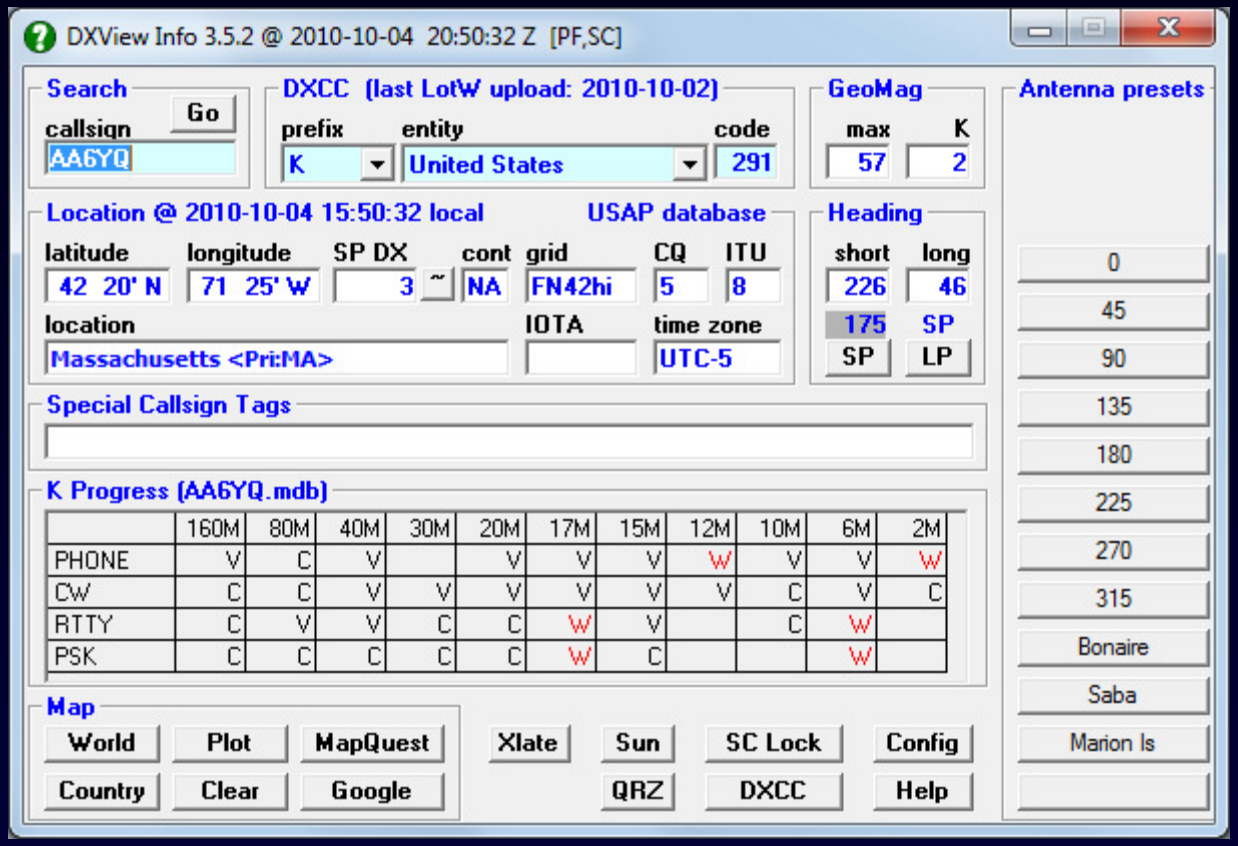
Language selection by DXCC entity

- 70 languages
- 50 phrases

DXView Databases

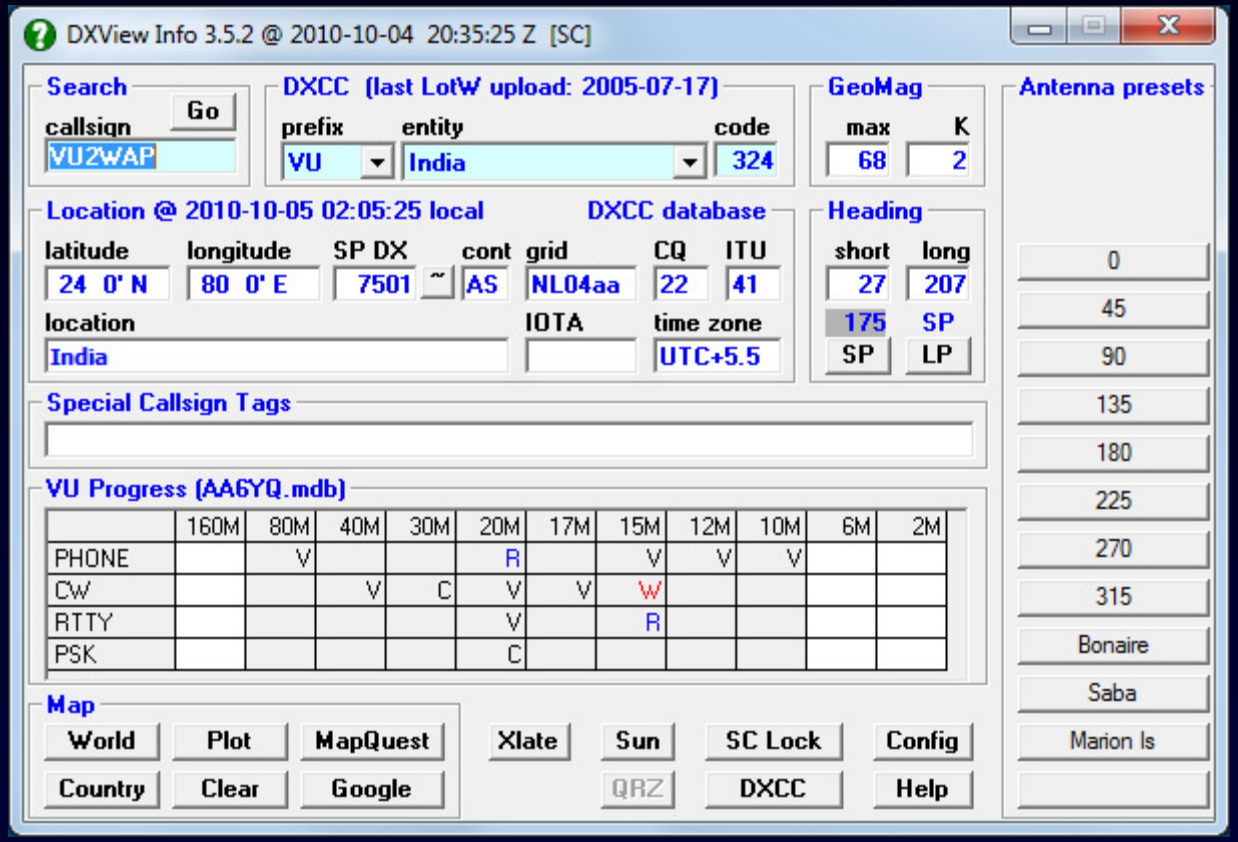


DXView Information: USAP Database



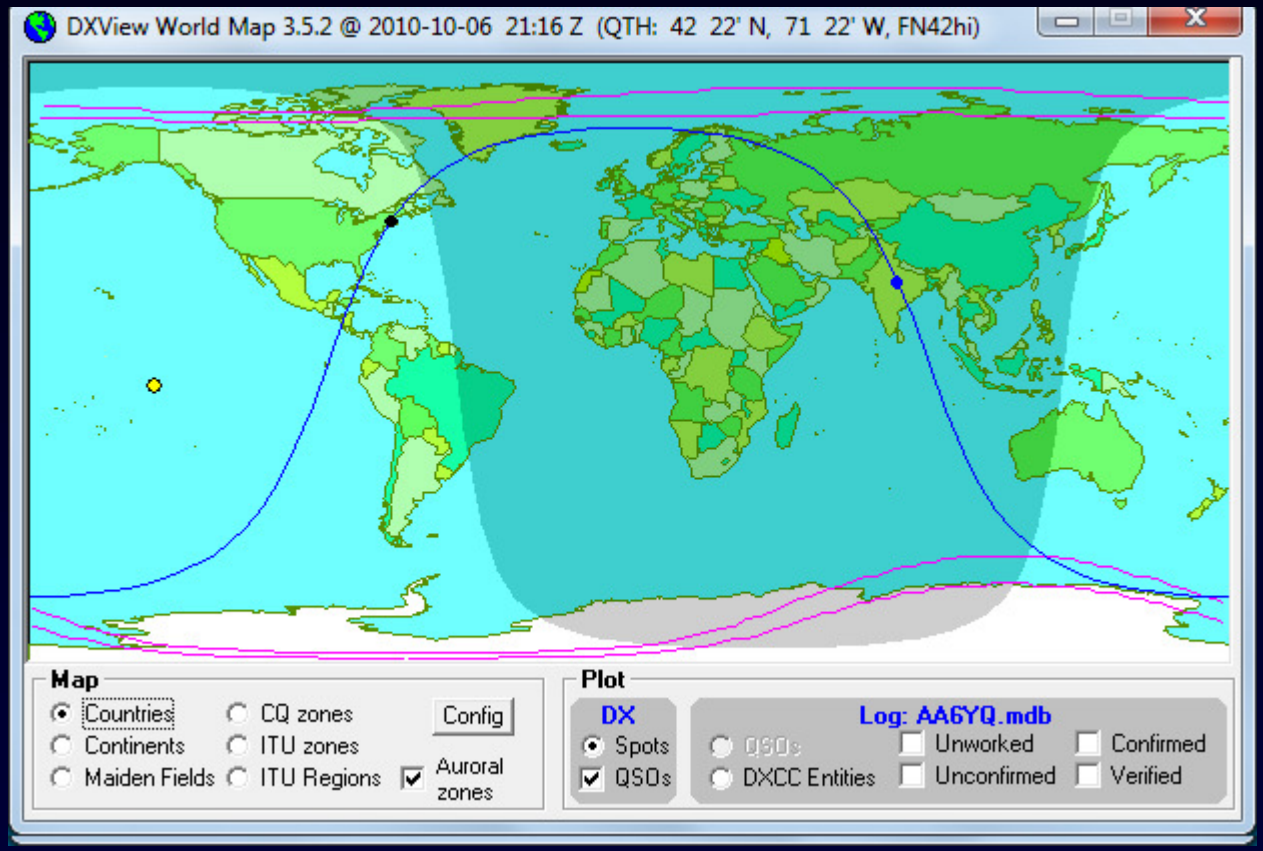
- by Callsign
- by Prefix
- by IOTA tag
- by Grid
- by Latitude/Longitude

DXView Rotator Control



- AlfaSpid
- ARSWIN
- Heath
- Hygain
- LP-Rotor
- M2
- N1MM
- Prosistel
- SARtek
- TIC
- TrackBox
- Yaesu

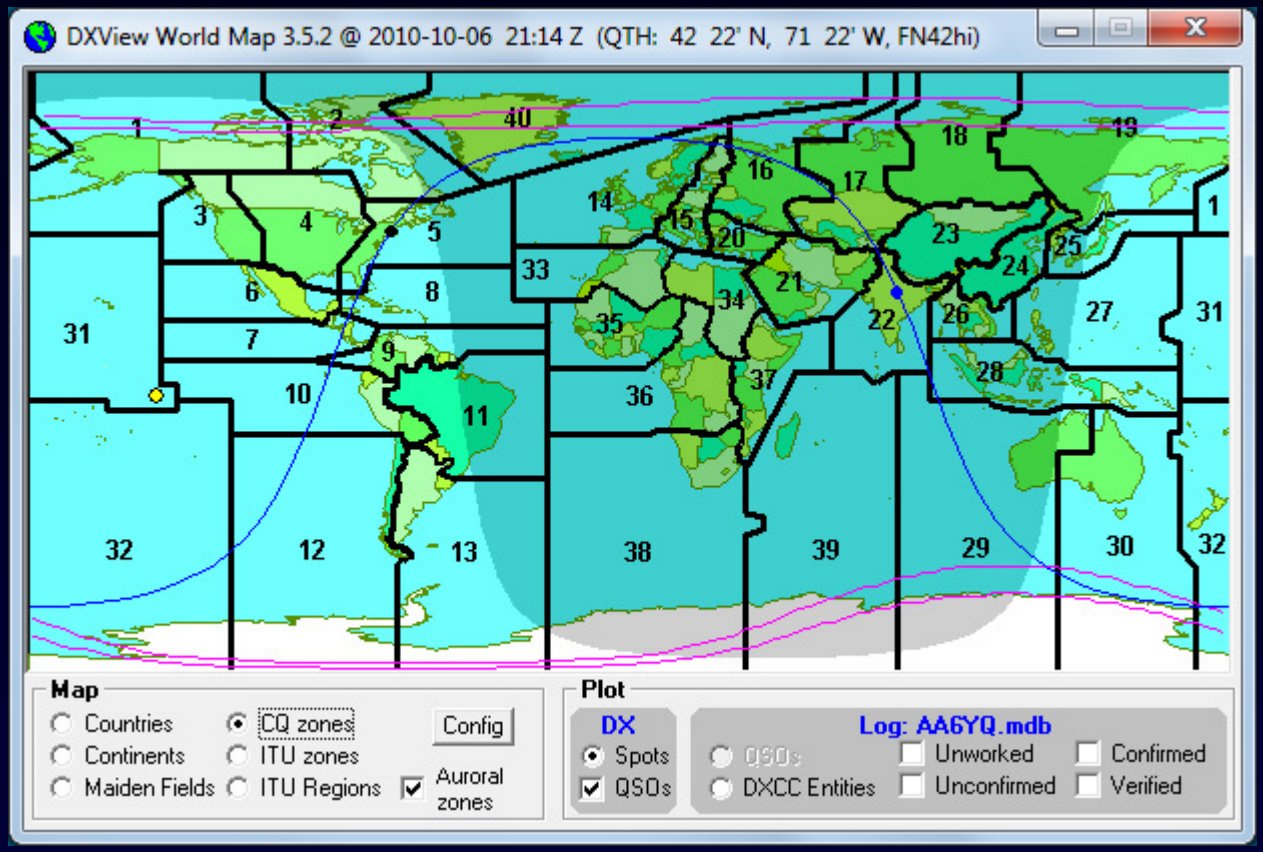
DXView: World Map Display



- Beam heading
- Solar terminator
- Auroral Zone Boundaries

- Point & Click
  - Antenna Rotation
  - Propagation Prediction

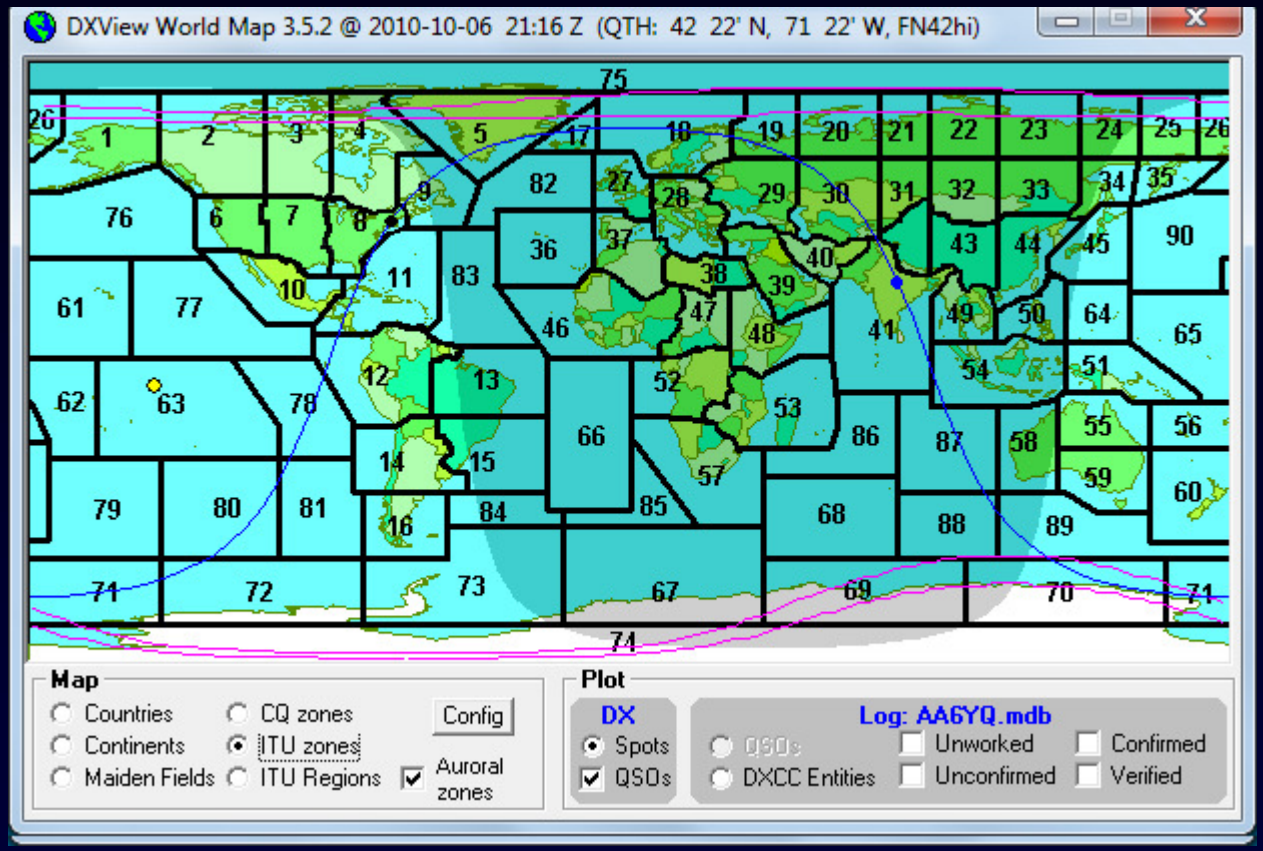
DXView: CQ Zone Overlay



- Beam heading
- Solar terminator
- Auroral Zone Boundaries

- Point & Click
  - Antenna Rotation
  - Propagation Prediction

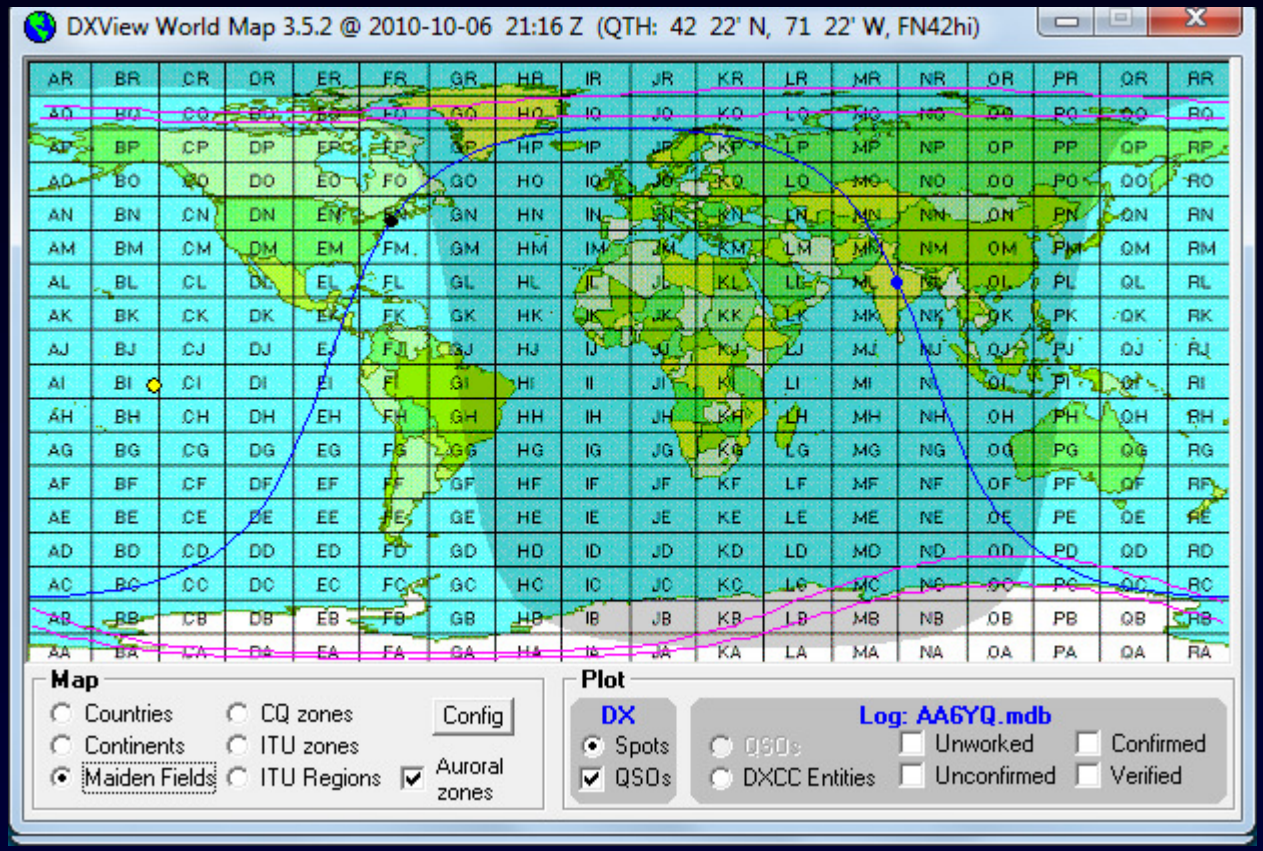
DXView: ITU Zone Overlay



- Beam heading
- Solar terminator
- Auroral Zone Boundaries

- Point & Click
  - Antenna Rotation
  - Propagation Prediction

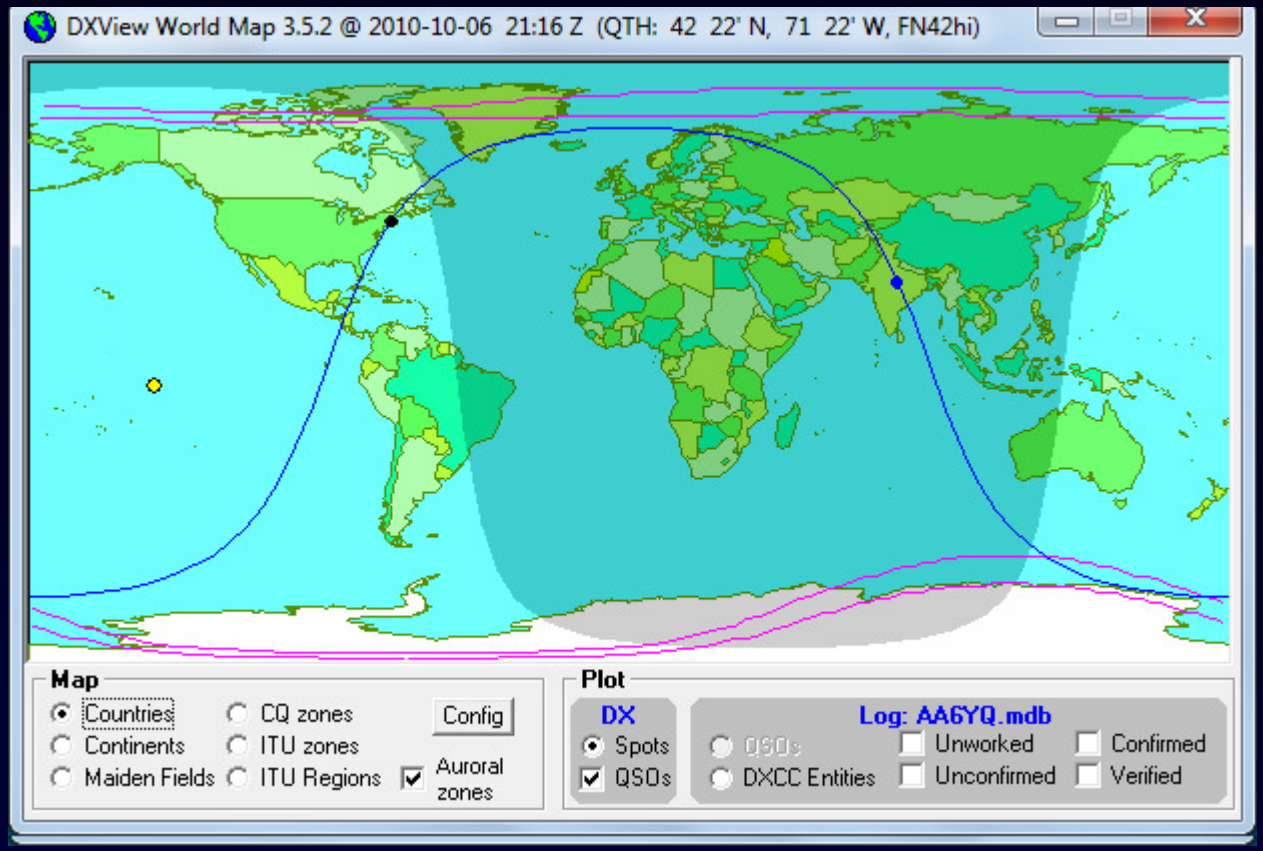
DXView: Maidenhead Field Overlay



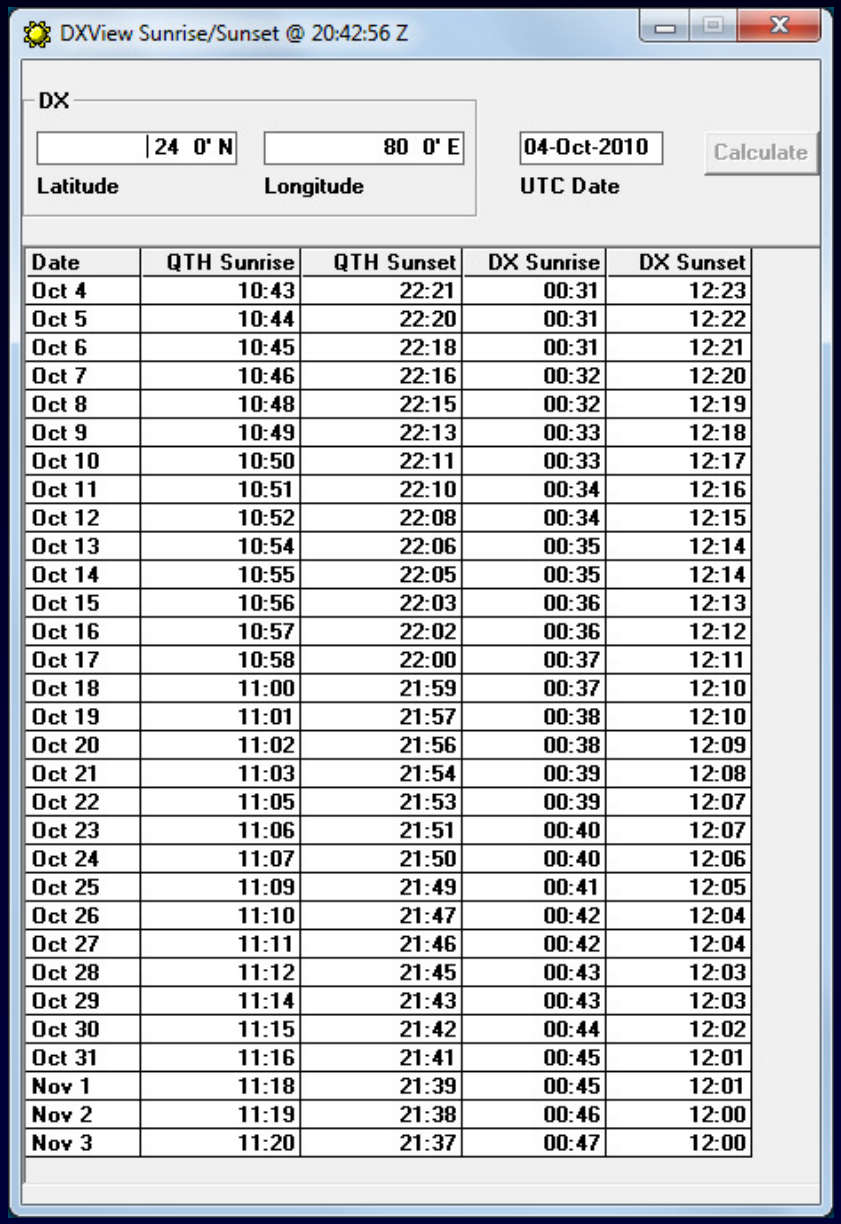
- Beam heading
- Solar terminator
- Auroral Zone Boundaries

- Point & Click
  - Antenna Rotation
  - Propagation Prediction

DXView: Solar Terminator

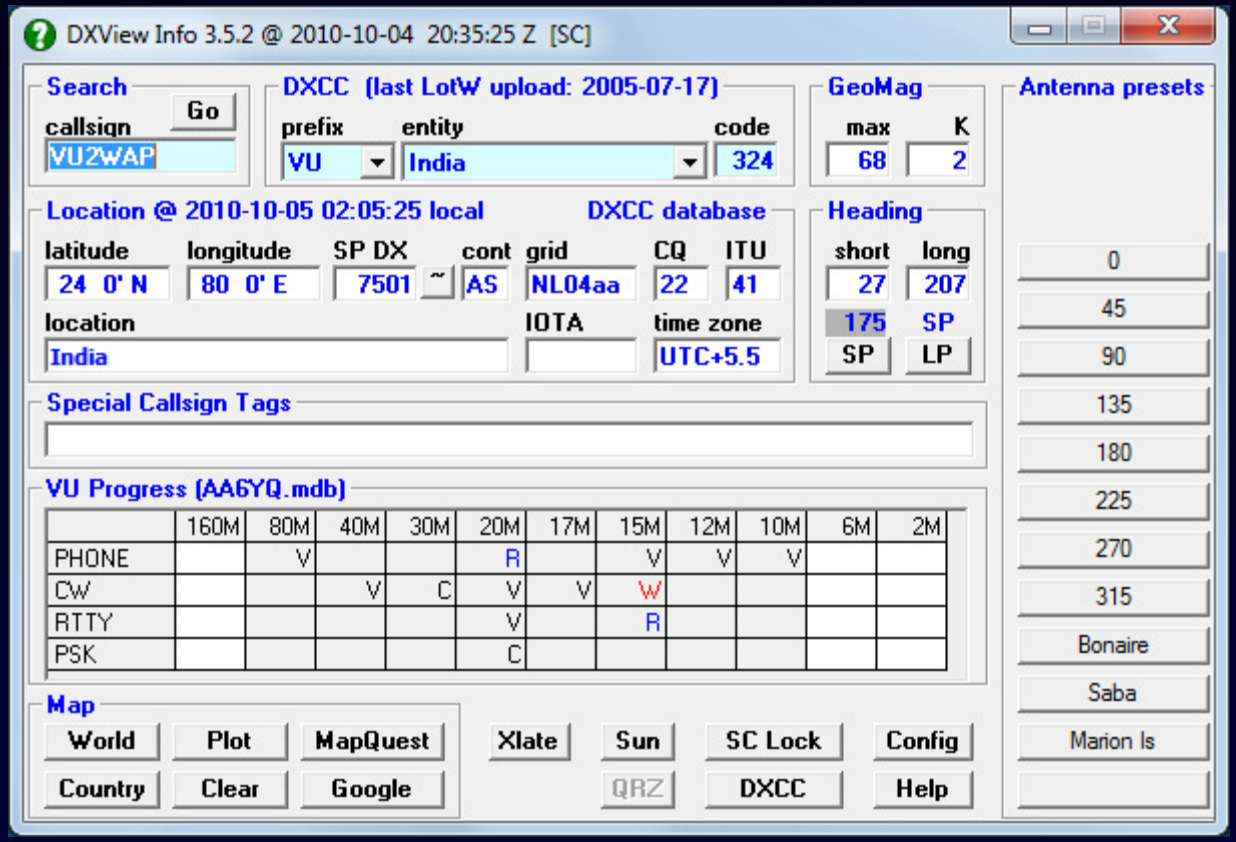


DXView Sunrise/Sunset Times



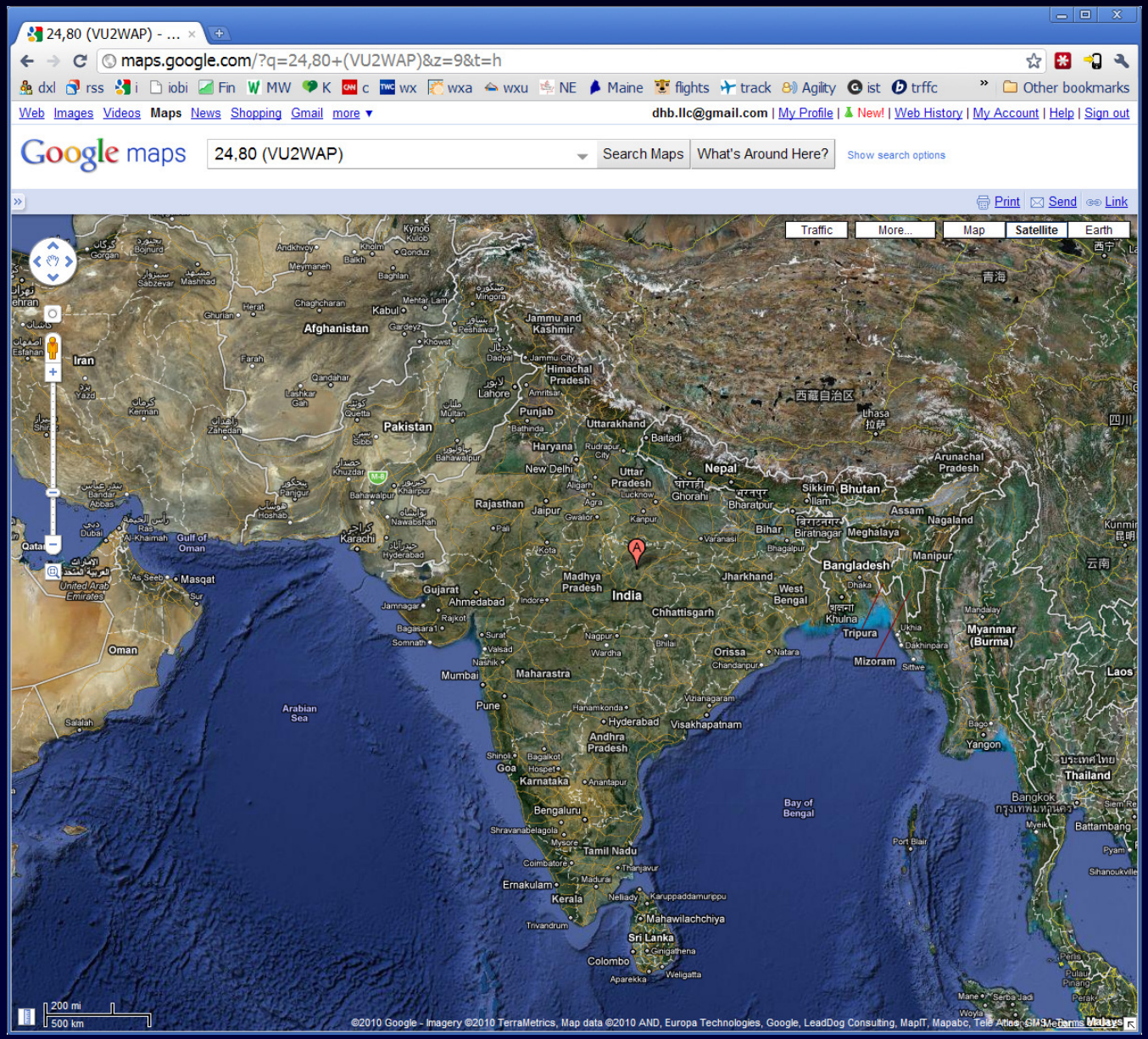
Date	QTH Sunrise	QTH Sunset	DX Sunrise	DX Sunset
Oct 4	10:43	22:21	00:31	12:23
Oct 5	10:44	22:20	00:31	12:22
Oct 6	10:45	22:18	00:31	12:21
Oct 7	10:46	22:16	00:32	12:20
Oct 8	10:48	22:15	00:32	12:19
Oct 9	10:49	22:13	00:33	12:18
Oct 10	10:50	22:11	00:33	12:17
Oct 11	10:51	22:10	00:34	12:16
Oct 12	10:52	22:08	00:34	12:15
Oct 13	10:54	22:06	00:35	12:14
Oct 14	10:55	22:05	00:35	12:14
Oct 15	10:56	22:03	00:36	12:13
Oct 16	10:57	22:02	00:36	12:12
Oct 17	10:58	22:00	00:37	12:11
Oct 18	11:00	21:59	00:37	12:10
Oct 19	11:01	21:57	00:38	12:10
Oct 20	11:02	21:56	00:38	12:09
Oct 21	11:03	21:54	00:39	12:08
Oct 22	11:05	21:53	00:39	12:07
Oct 23	11:06	21:51	00:40	12:07
Oct 24	11:07	21:50	00:40	12:06
Oct 25	11:09	21:49	00:41	12:05
Oct 26	11:10	21:47	00:42	12:04
Oct 27	11:11	21:46	00:42	12:04
Oct 28	11:12	21:45	00:43	12:03
Oct 29	11:14	21:43	00:43	12:03
Oct 30	11:15	21:42	00:44	12:02
Oct 31	11:16	21:41	00:45	12:01
Nov 1	11:18	21:39	00:45	12:01
Nov 2	11:19	21:38	00:46	12:00
Nov 3	11:20	21:37	00:47	12:00

DXView: Country Maps

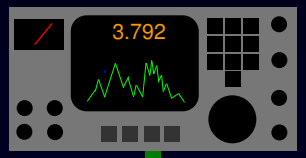


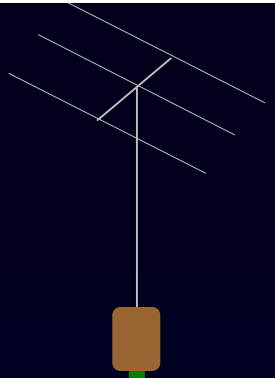
DXView: Country Maps

DXView: Google Maps



the DXLab Suite





WinWarbler

Commander

DXView

DXKeeper

SpotCollector

PropView

Pathfinder

DXKeeper

- Logging
- QSLing
- Award Tracking
- Multiple QTHs per log
- Import QSOs from file
- Export QSOs to file

DXKeeper

- Logging
- QSLing
- Award Tracking
- Multiple QTHs per log
- Import QSOs from file
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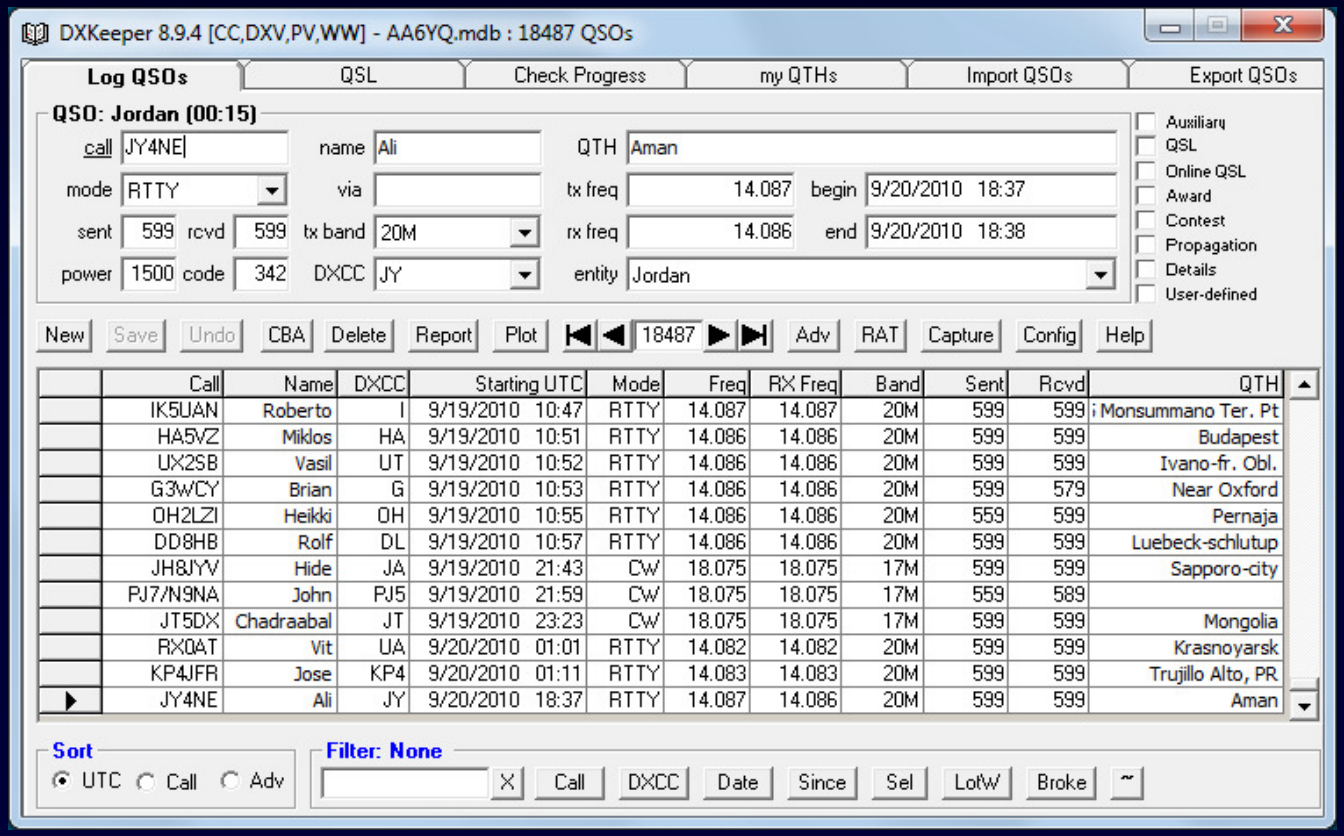
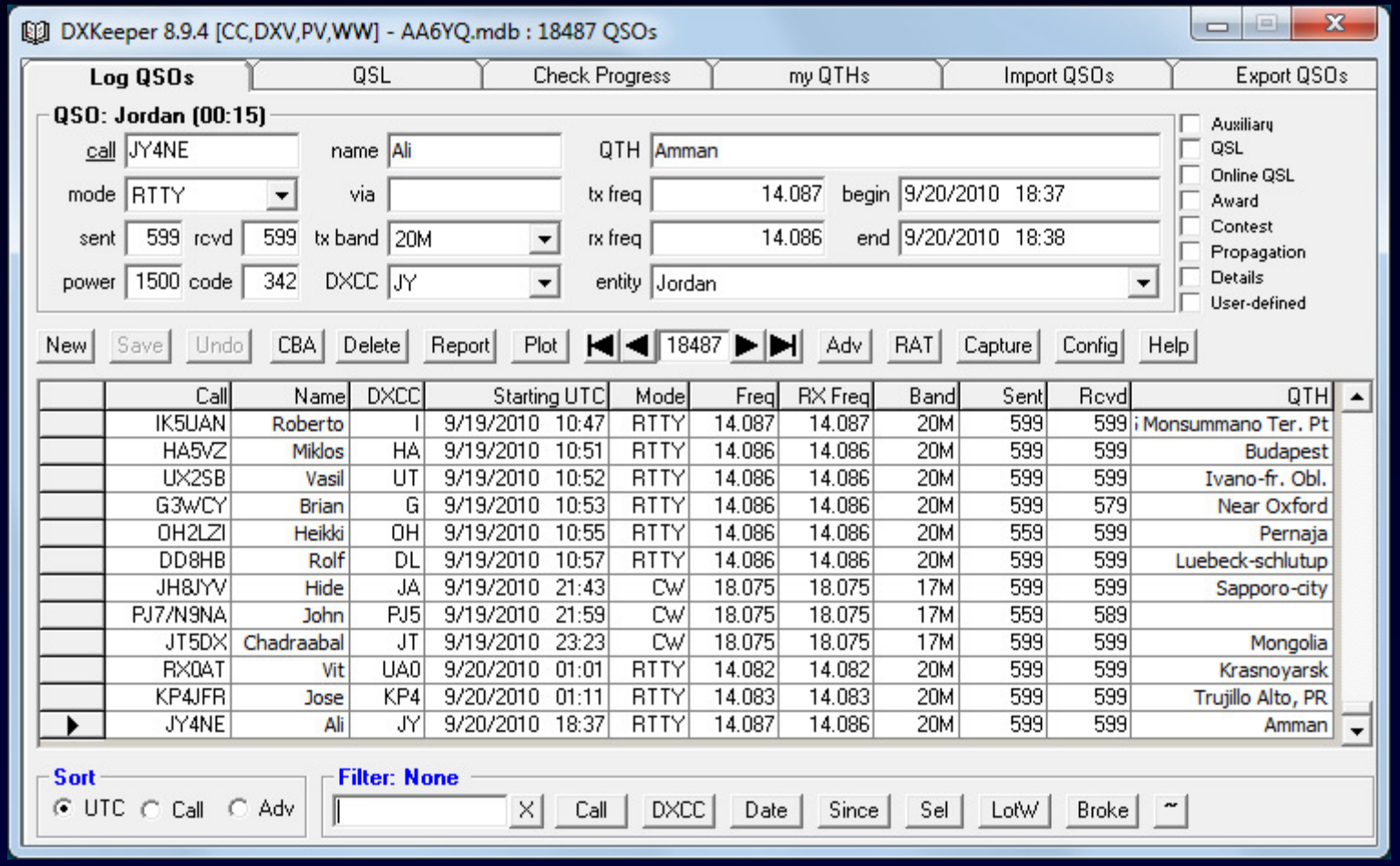


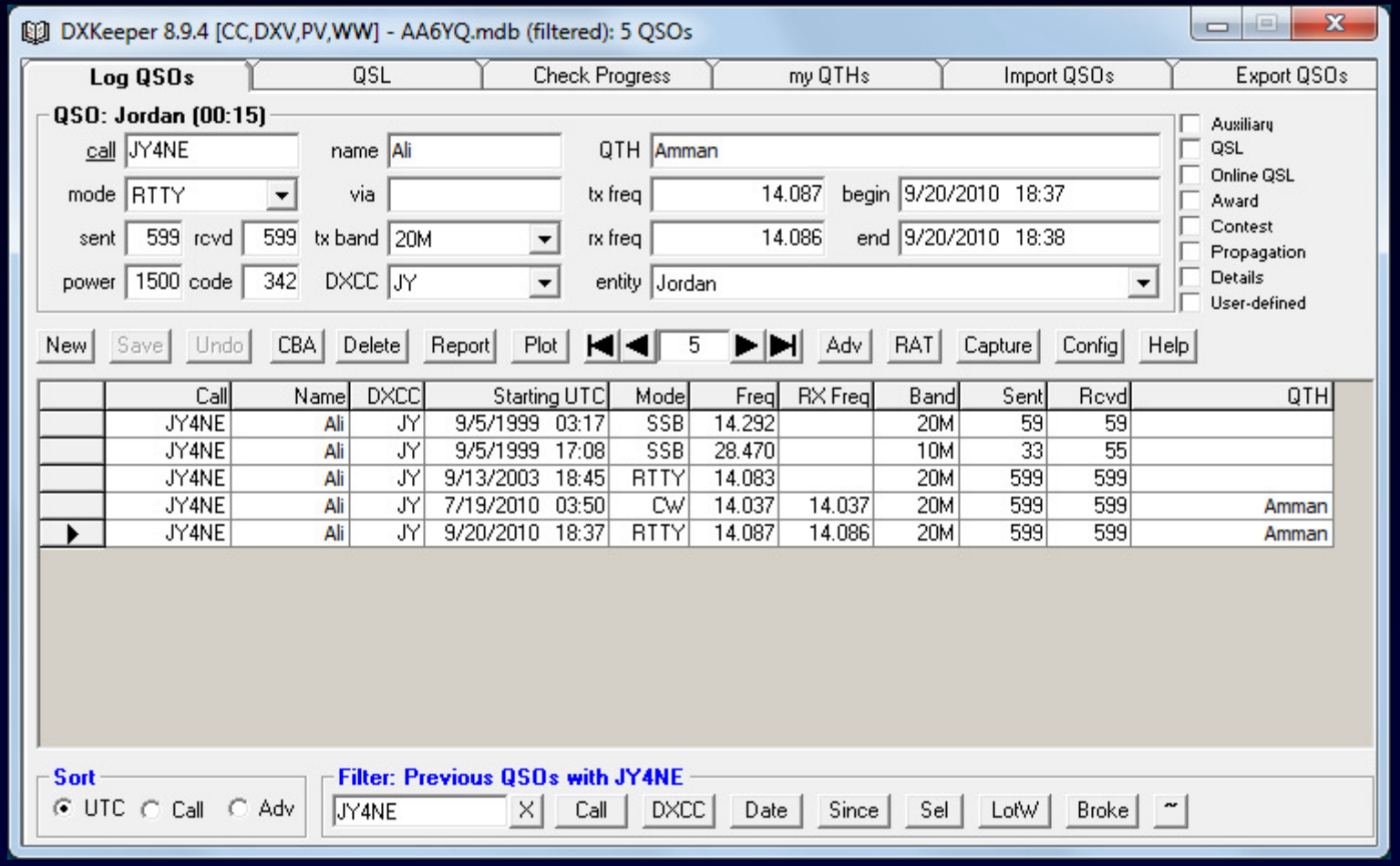
DXKeeper: Logging

- Comprehensive log database
- Powerful QSO searching, sorting, and editing
- Capture window optimized for operating
- Callbook access

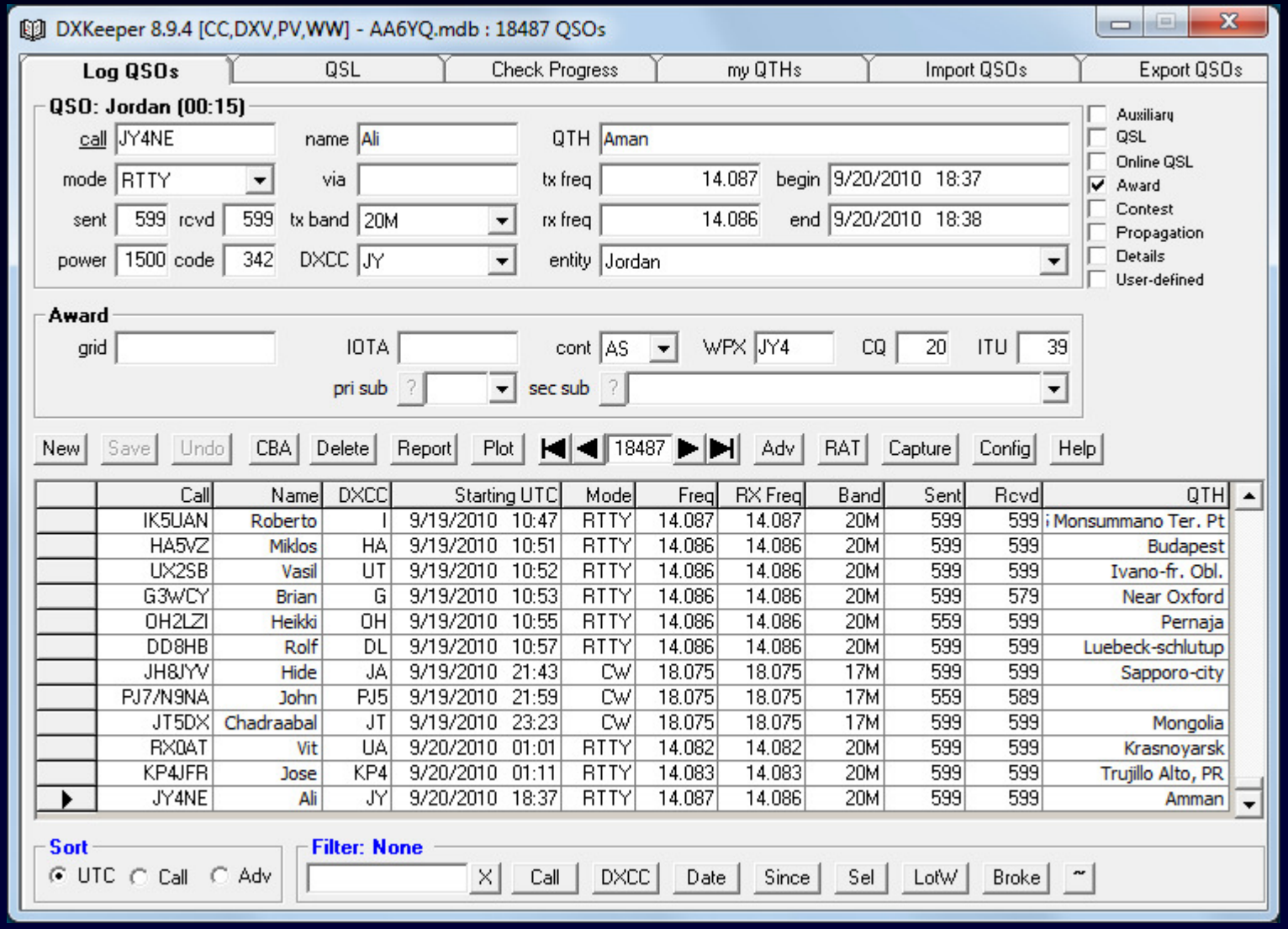
DXKeeper Main Window



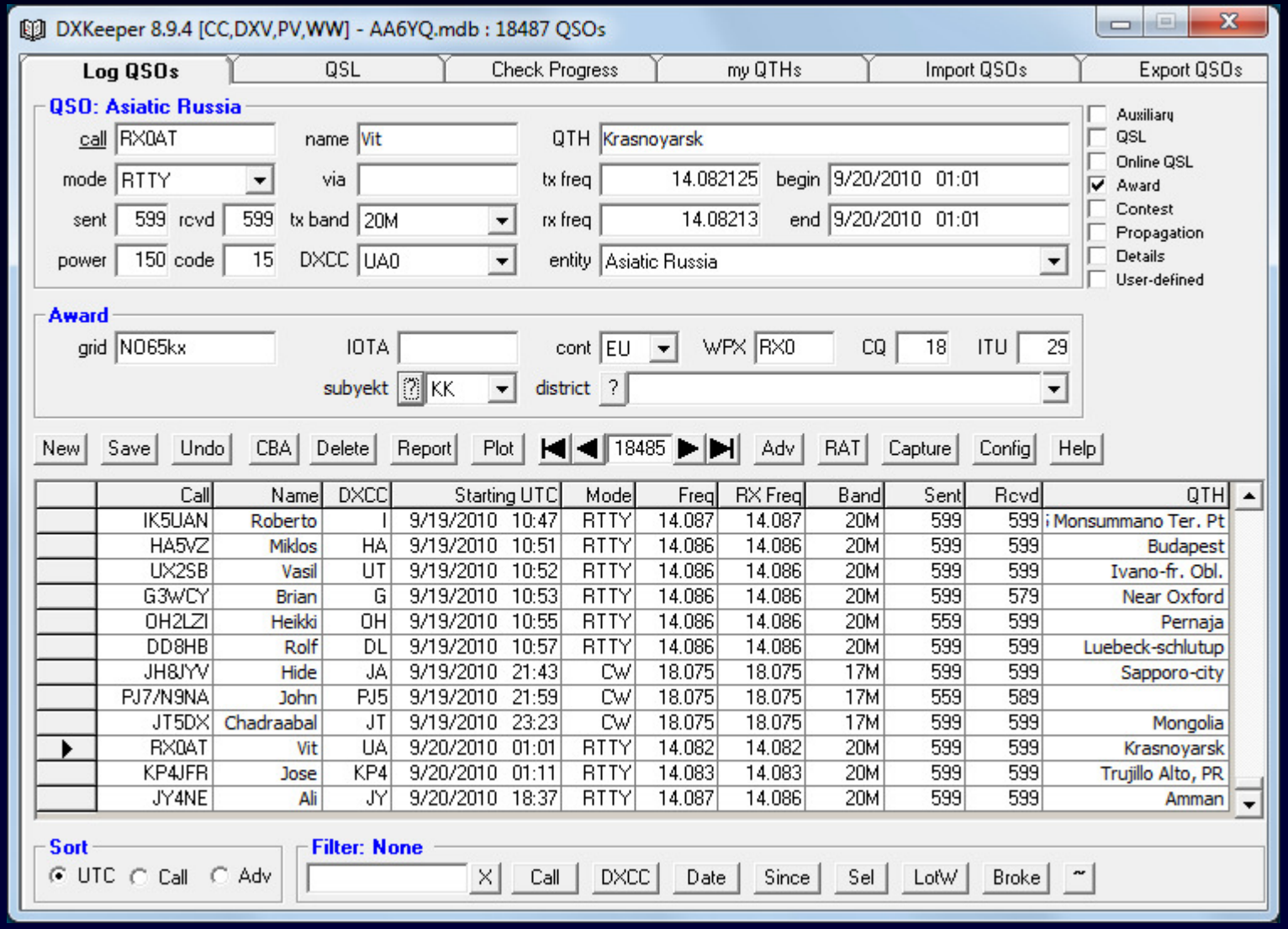
DXKeeper Main Window: Previous QSOs



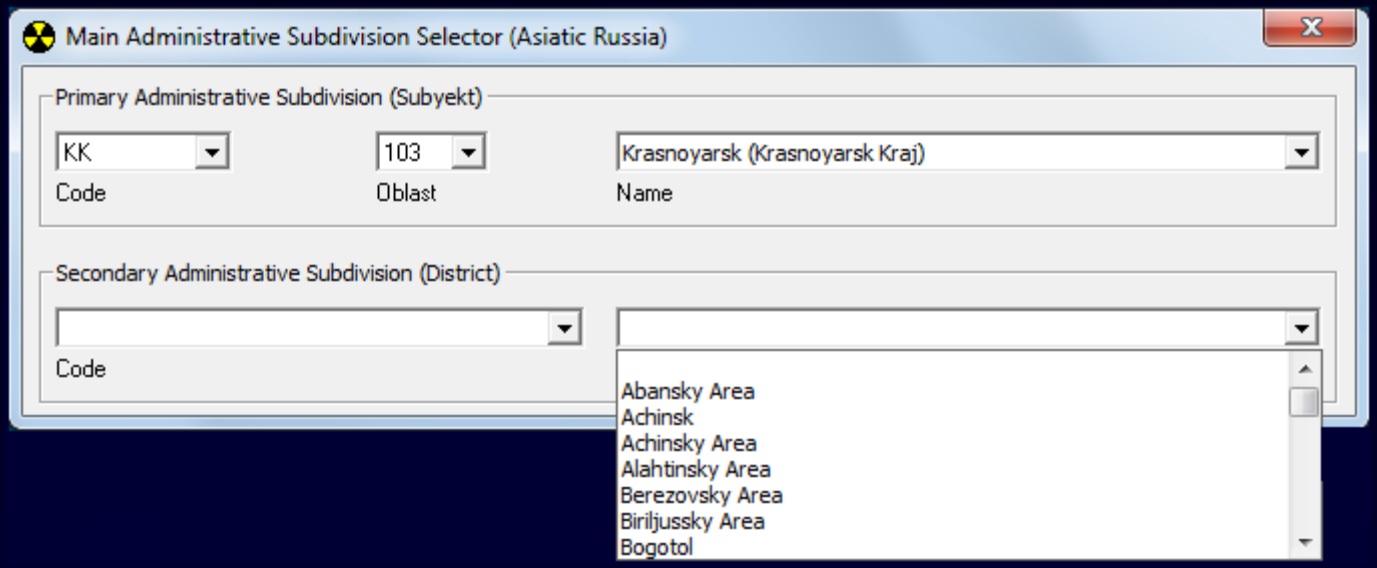
DXKeeper Main Window: Award Panel



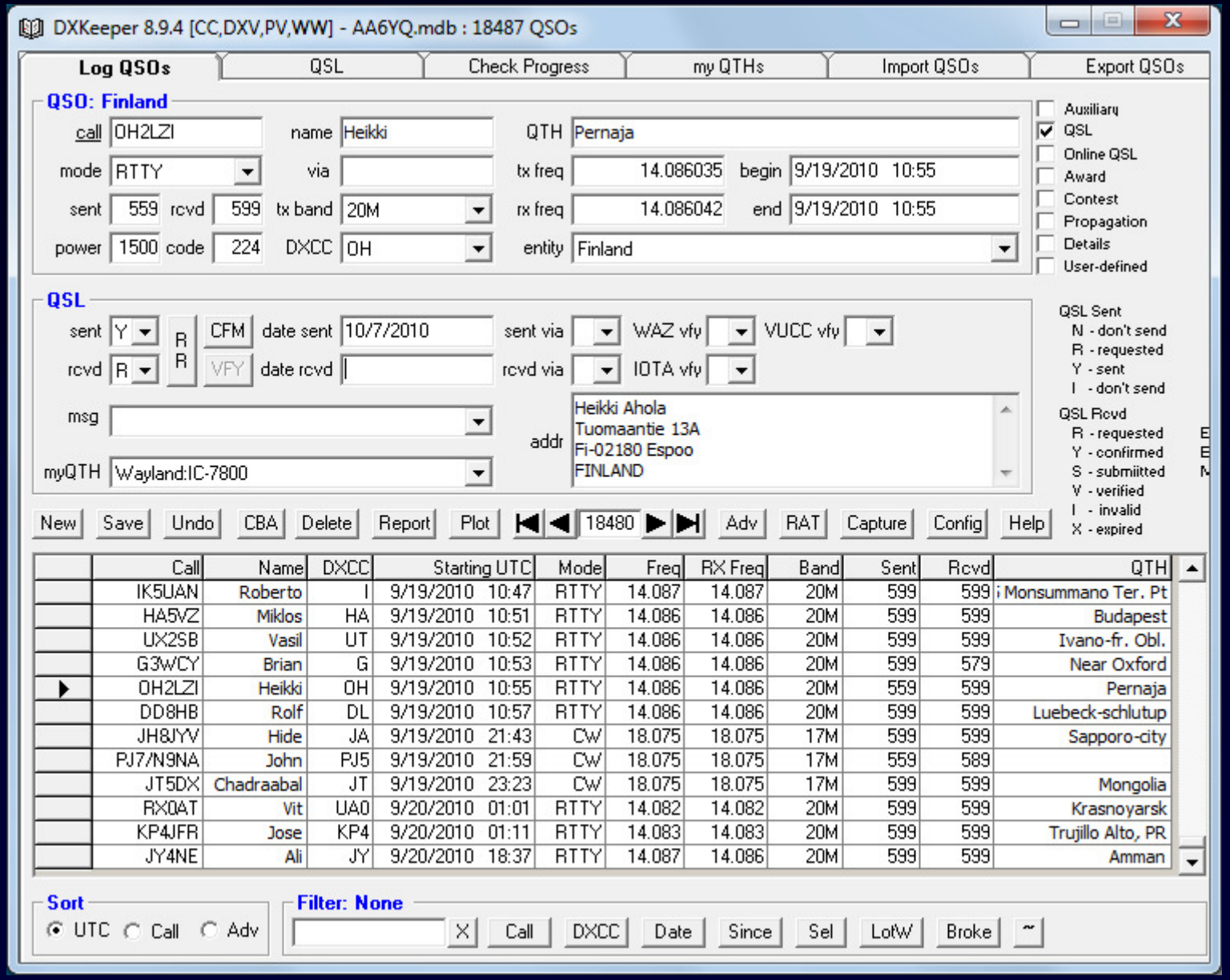
DXKeeper Main Window: Award Panel



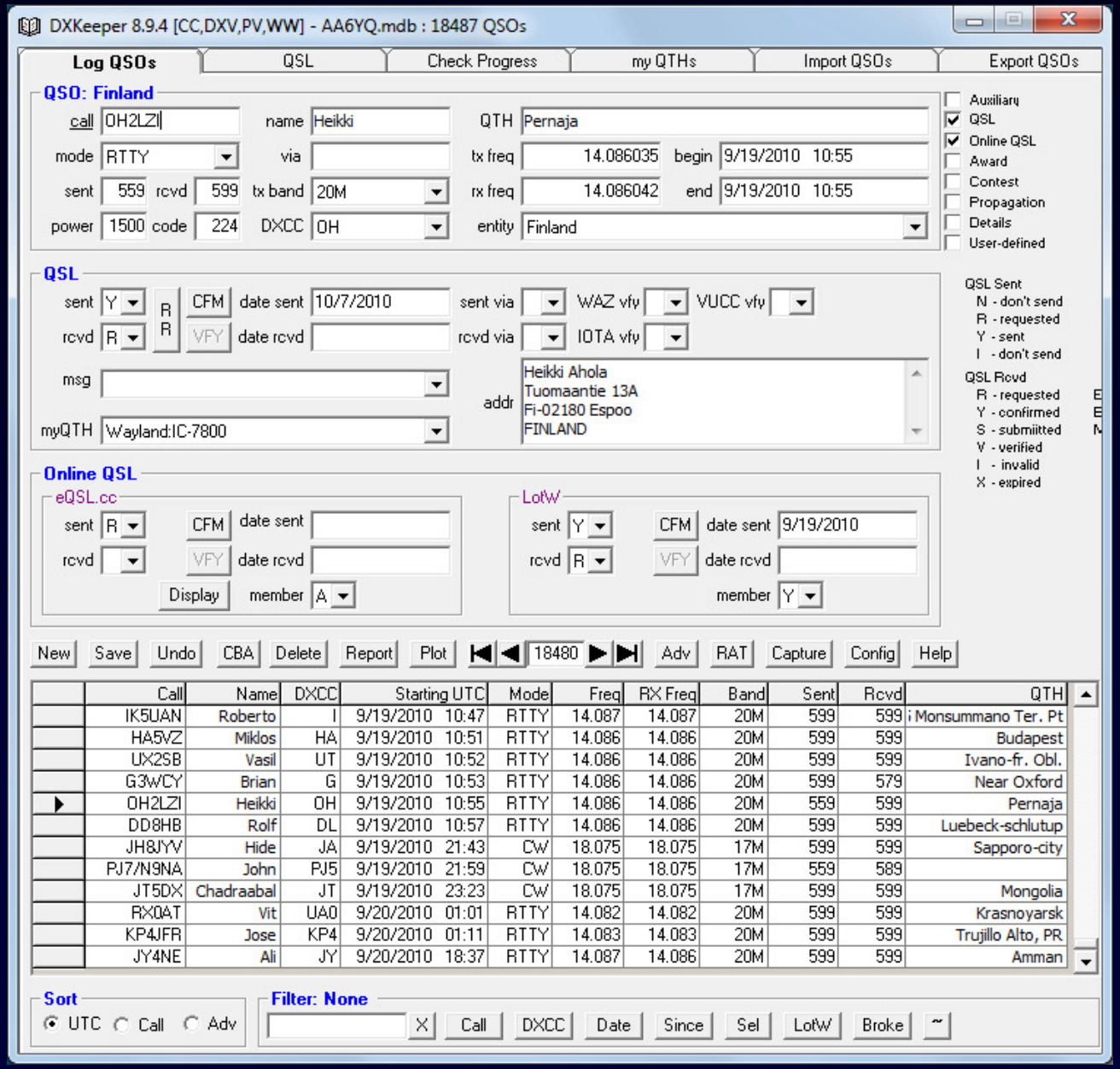
DXKeeper Main Window: Subdivision Selector



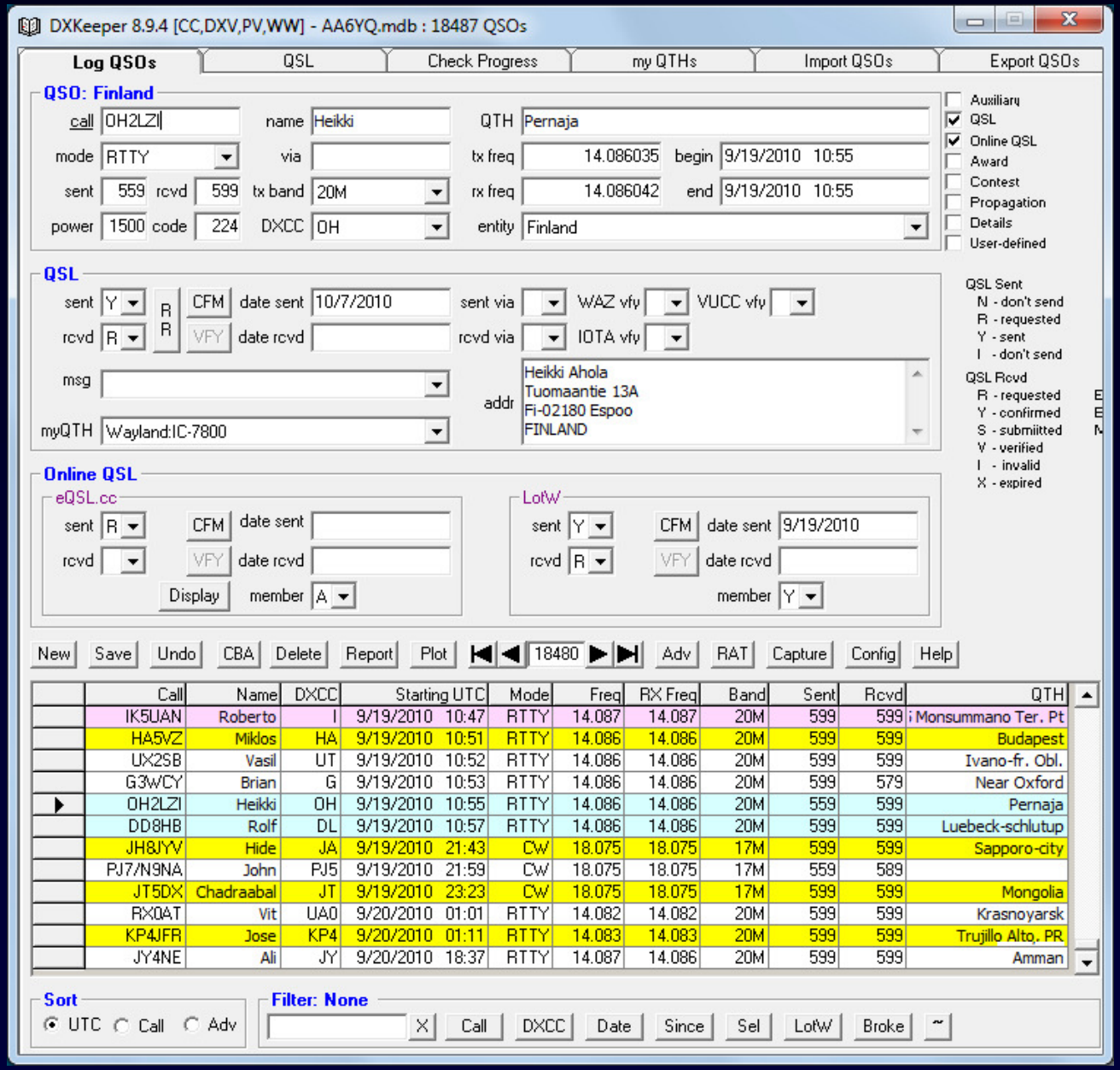
DXKeeper Main Window: QSL Panel



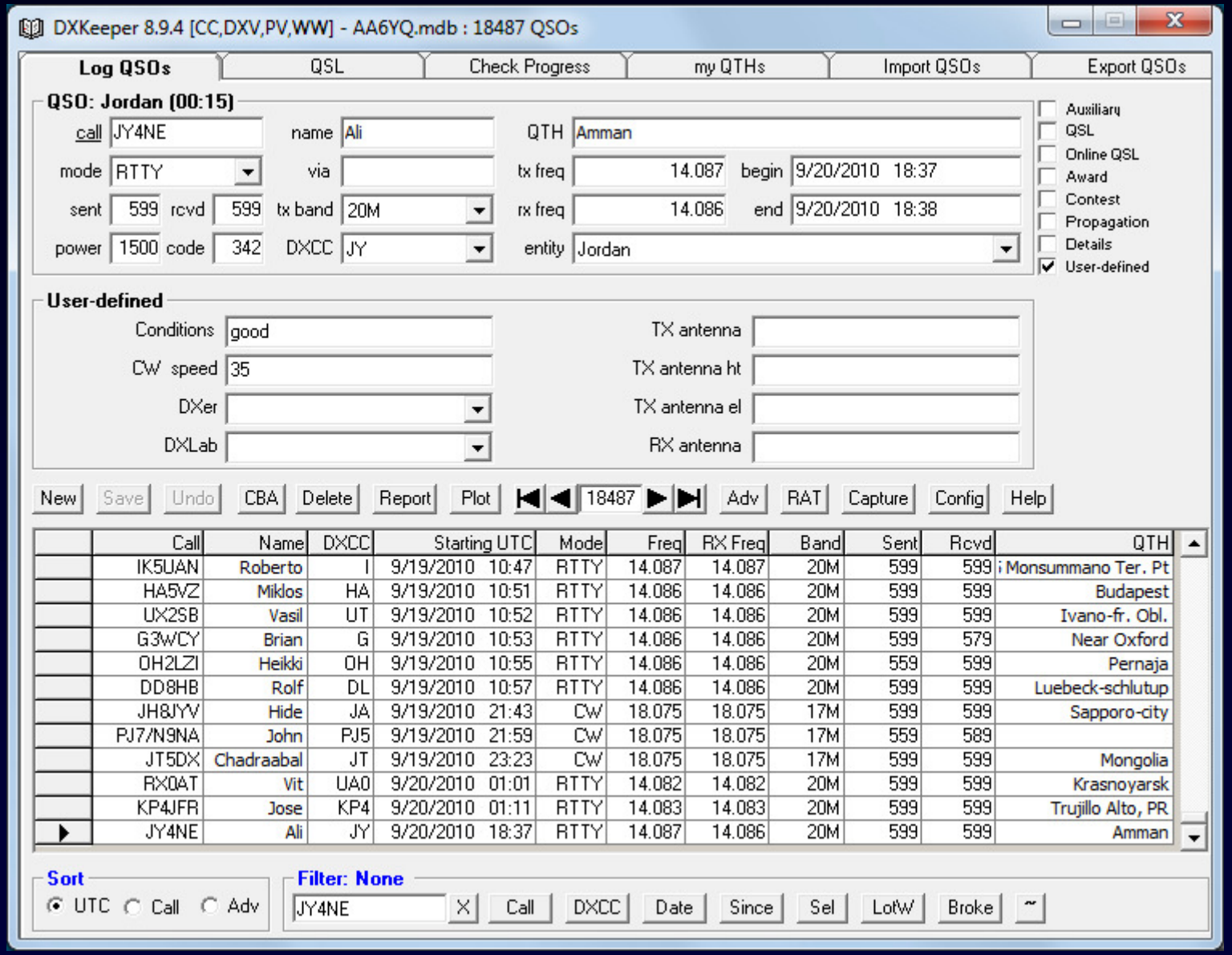
DXKeeper Main Window: Online QSL Panel



DXKeeper Main Window: Online QSL Panel



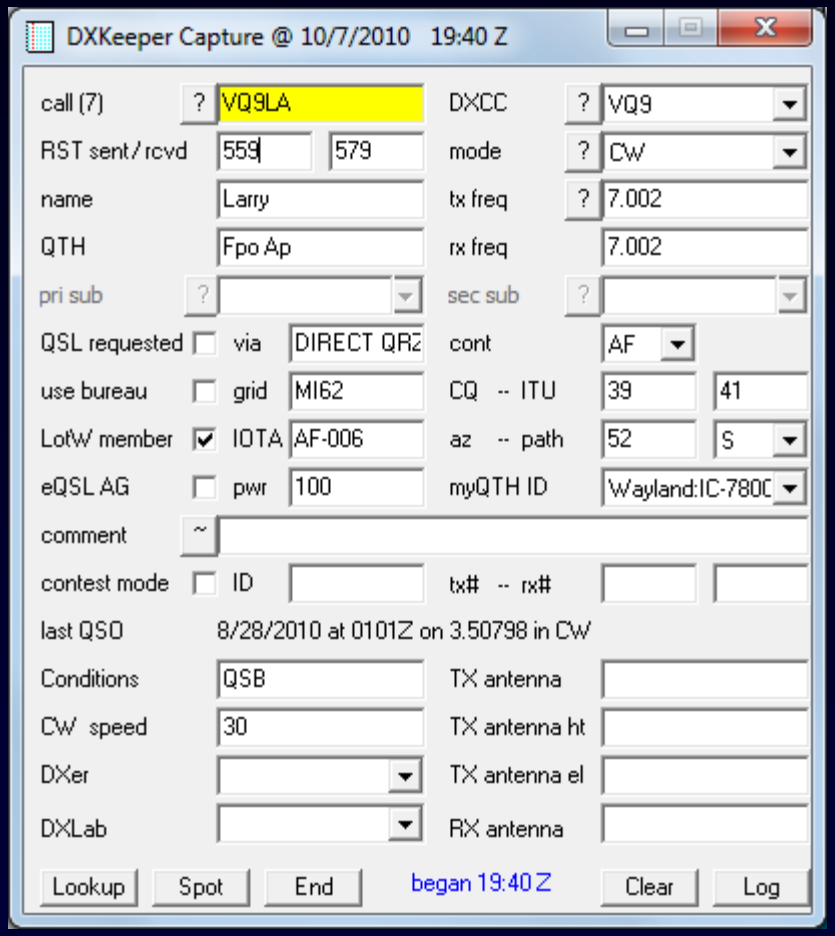
DXKeeper Main Window: User-defined Fields



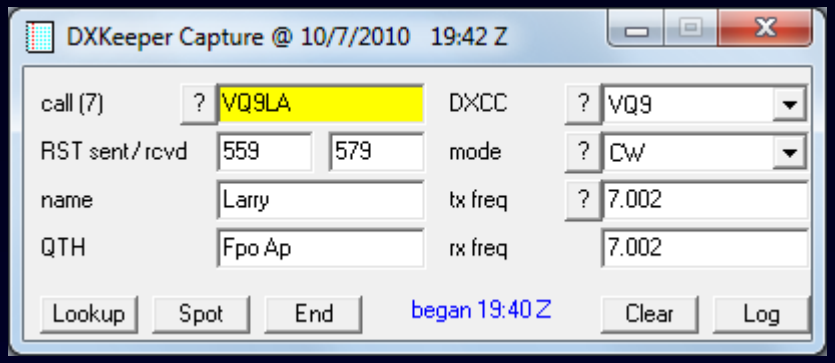
DXKeeper: Logging

- Comprehensive database
- Powerful QSO searching, sorting, and editing
- Capture window optimized for operating
- Callbook access

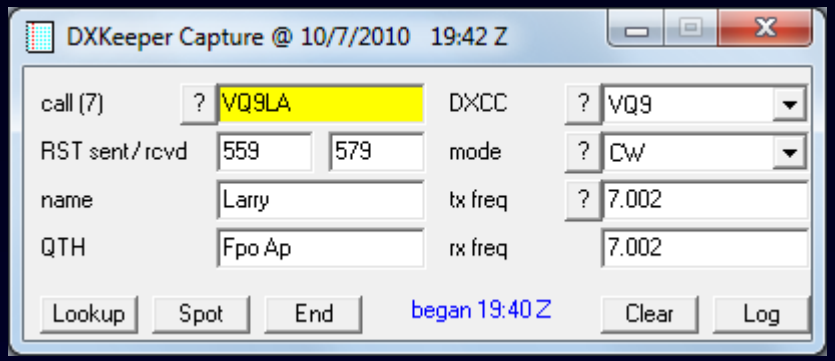
DXKeeper Capture Window

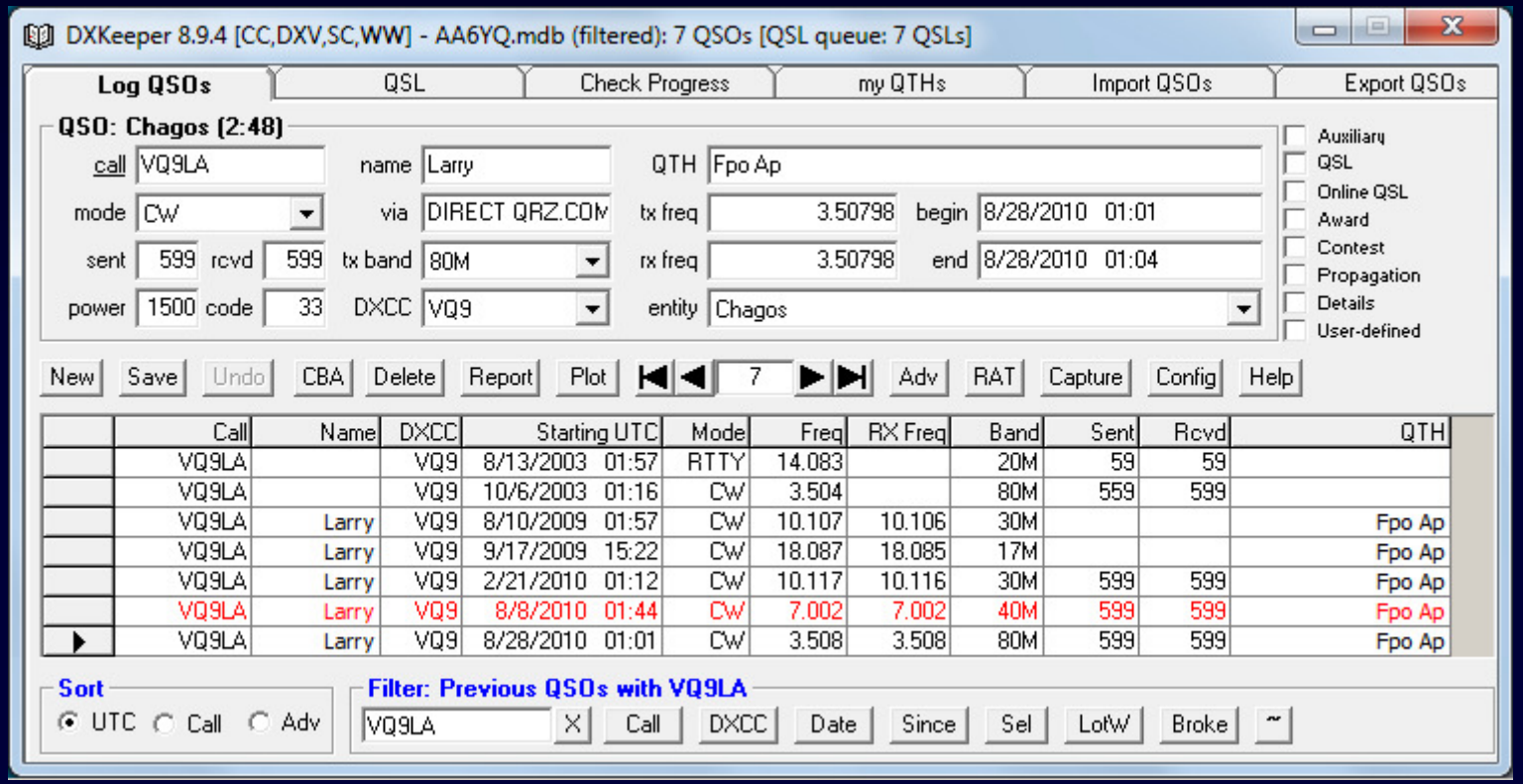


DXKeeper Capture Window



DXKeeper Capture Window





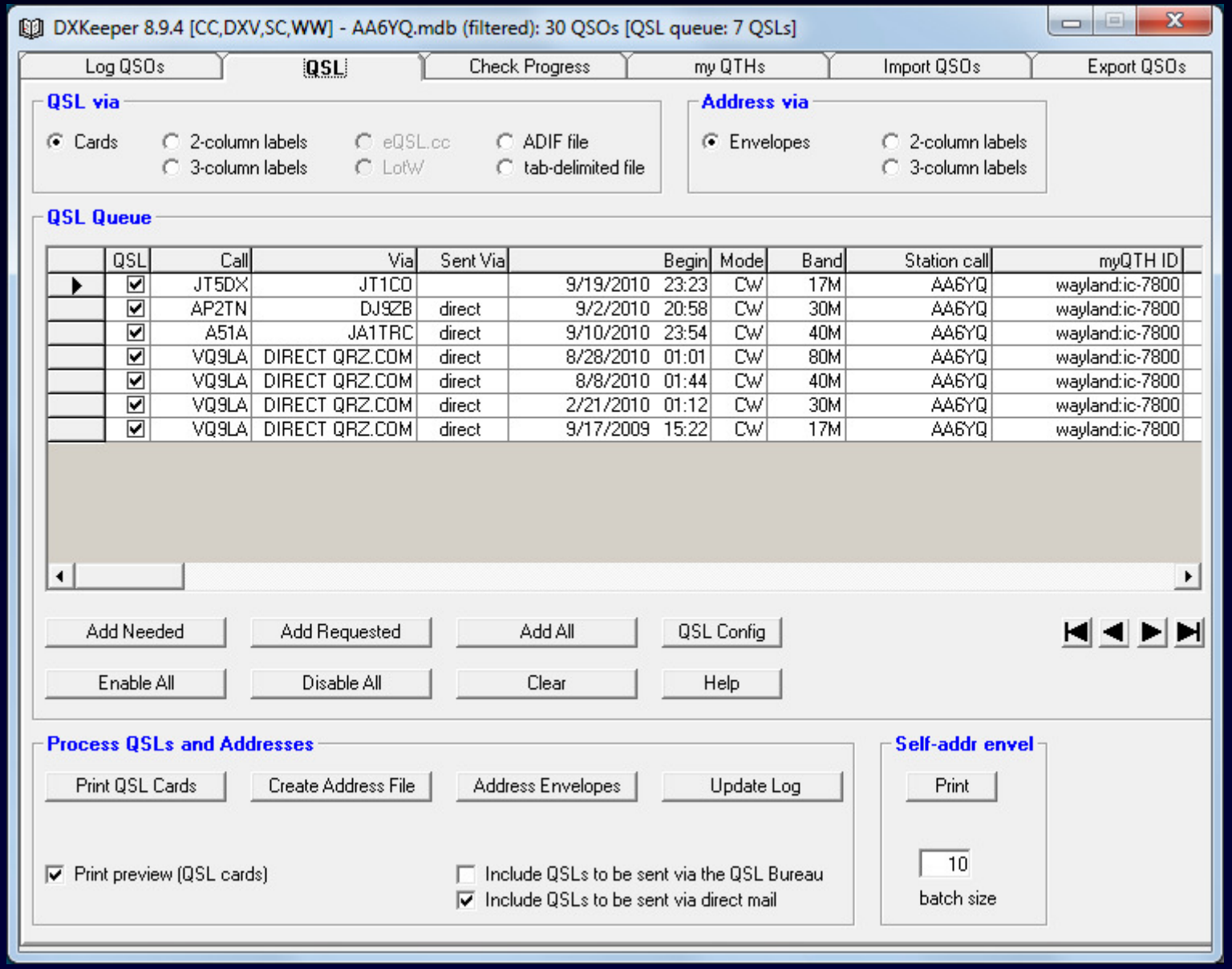
DXKeeper: Logging

- Comprehensive database
- Powerful QSO searching, sorting, and editing
- Capture window optimized for operating
- Callbook access
  - The usual suspects
    - Radio Amateur's Callbook CDROM
    - Buckmaster HamCall CDROM
    - HamCall.net
    - HamQTH.com (free with no advertising)
    - QRZ local database
    - QRZ.com (free with advertising, or data subscription)
  - Update logged QSOs en masse

DXKeeper: QSLing

- 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

DXKeeper: QSLing with Cards



DXKeeper: QSL Card Print Preview

DXKeeper: QSL Card

Dave Bernstein
25 Glezen Lane
Wayland, MA 01778

AA6YQ

Middlesex County
FN42hi
USA

Confirming 2X QSOs with VQ9LA

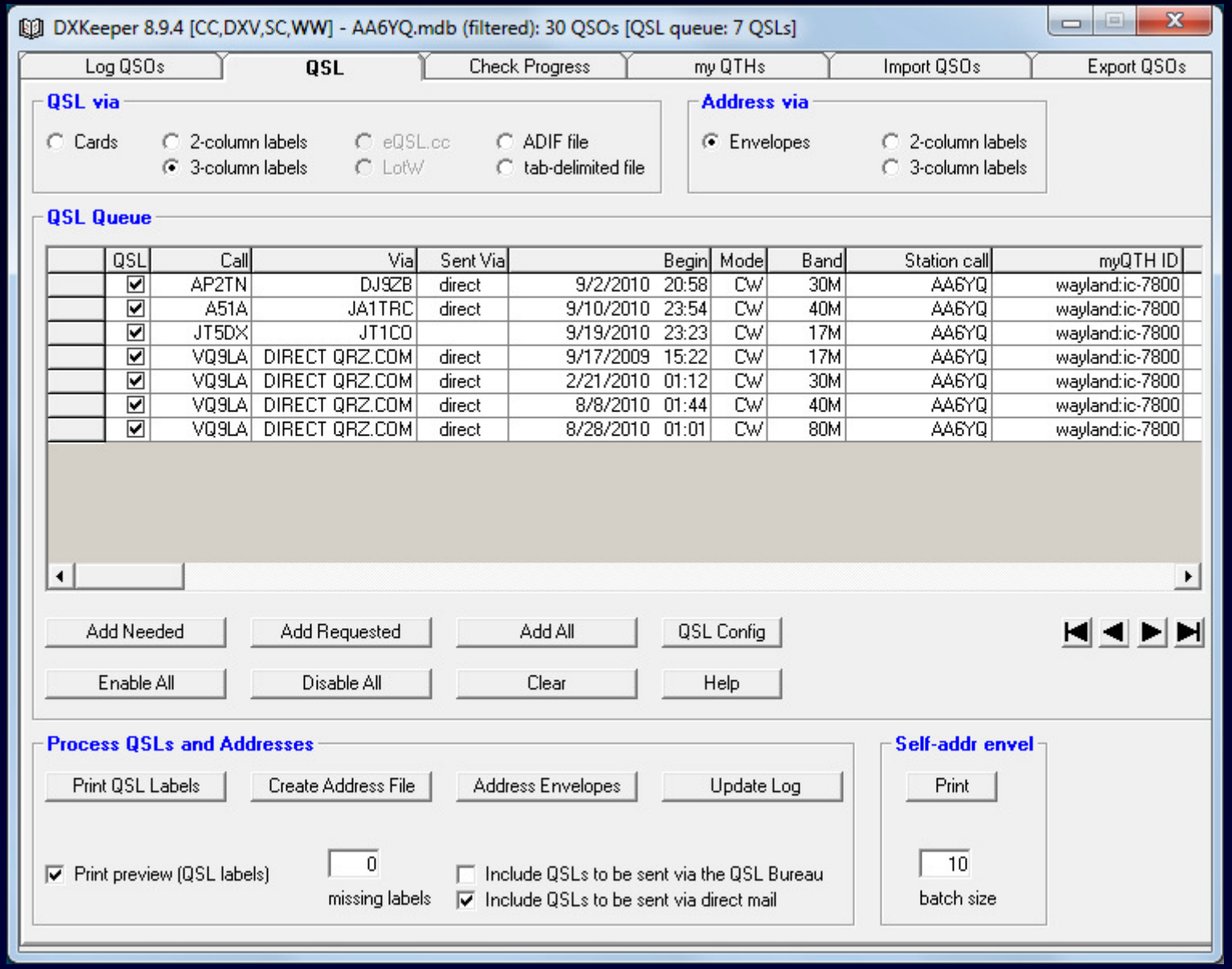
Date	Time	Freq	Mode	RST	QSL?	Notes
17-Sep-09	1522Z	18.087	CW	599		
21-Feb-10	0112Z	10.117	CW	599		
08-Aug-10	0144Z	7.002	CW	599		
28-Aug-10	0101Z	3.508	CW	599		

printed by DXLab freeware

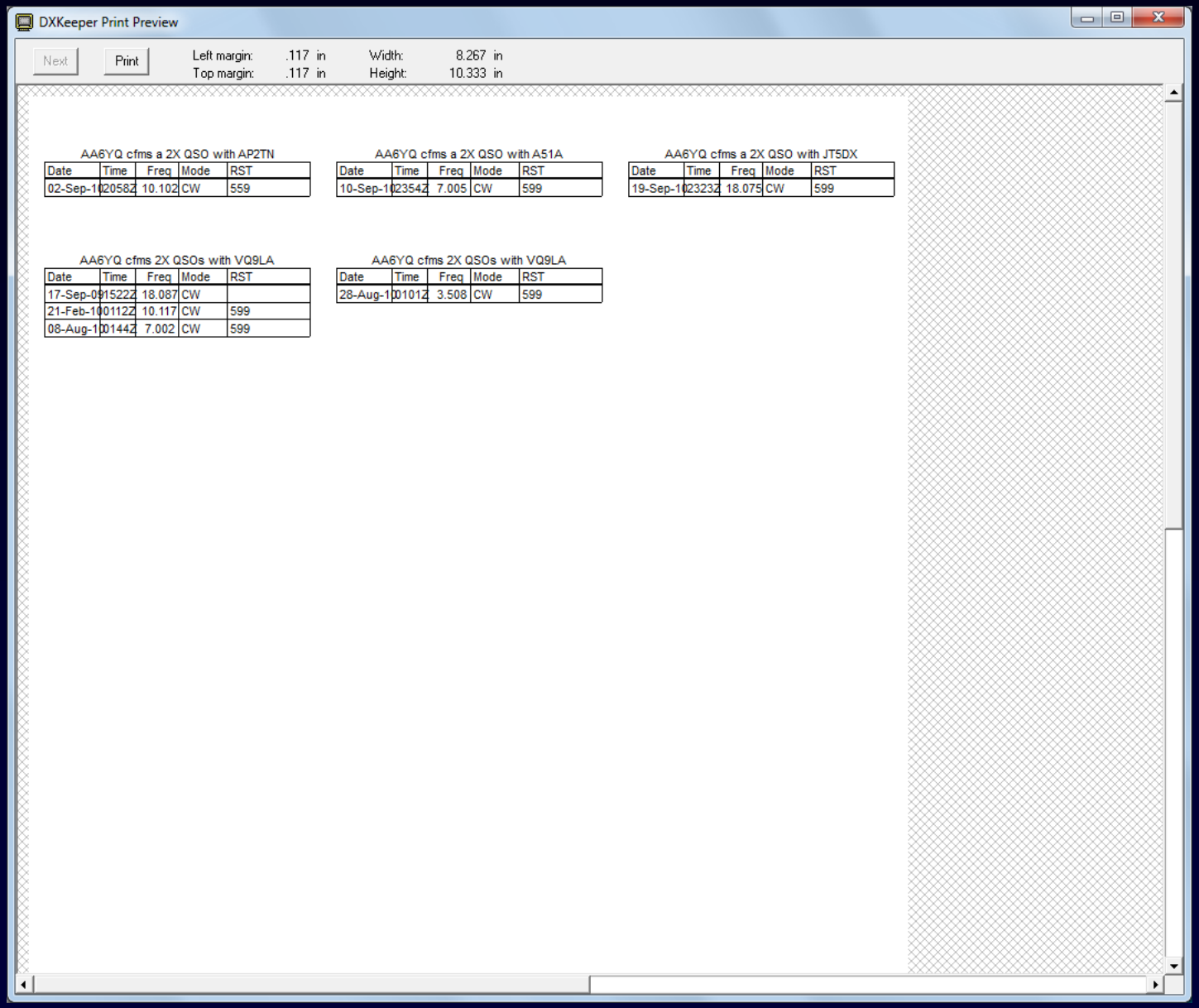
www.dxlabsuite.com

DXKeeper: QSL Card with Background Image

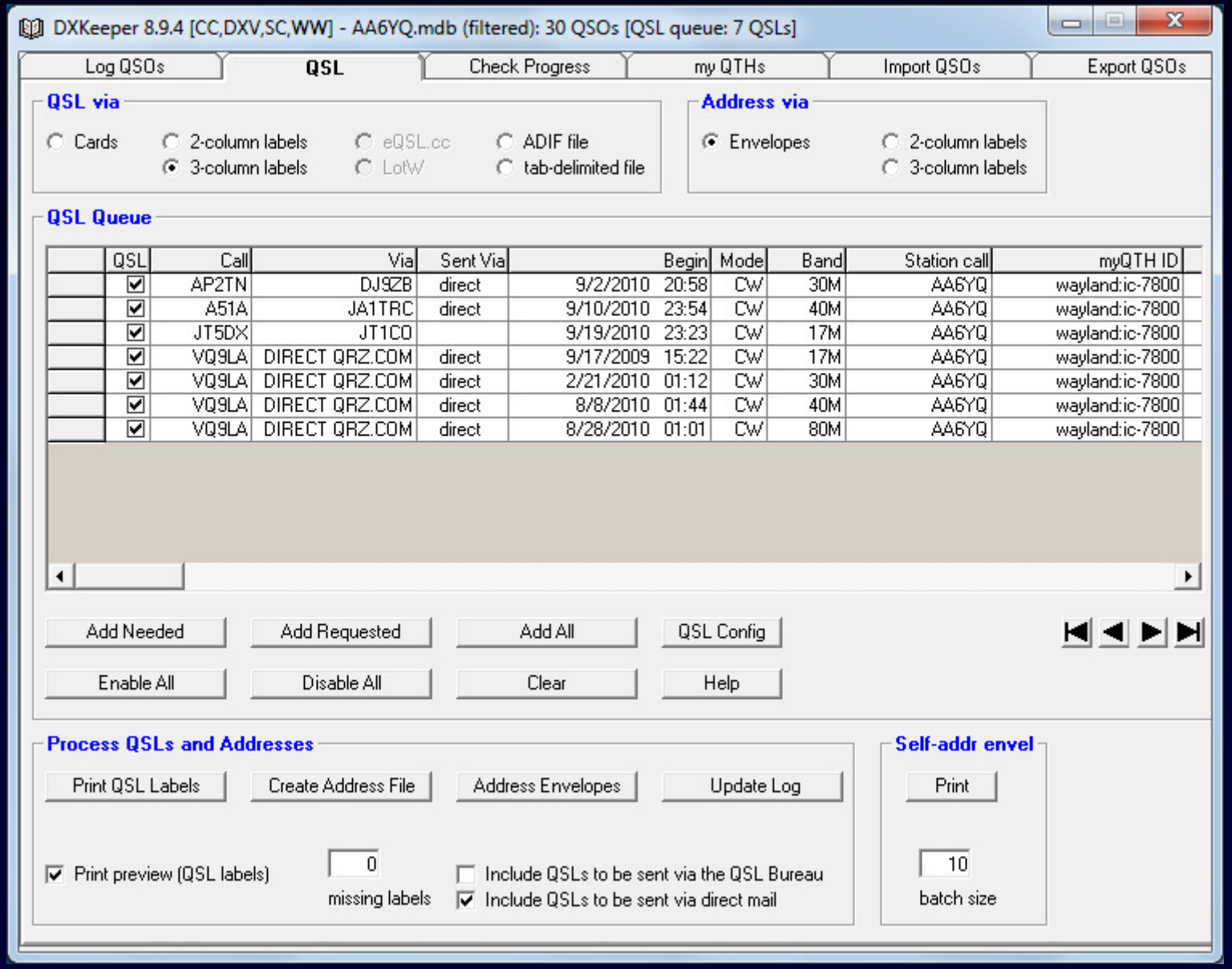
DXKeeper: QSLing with Labels



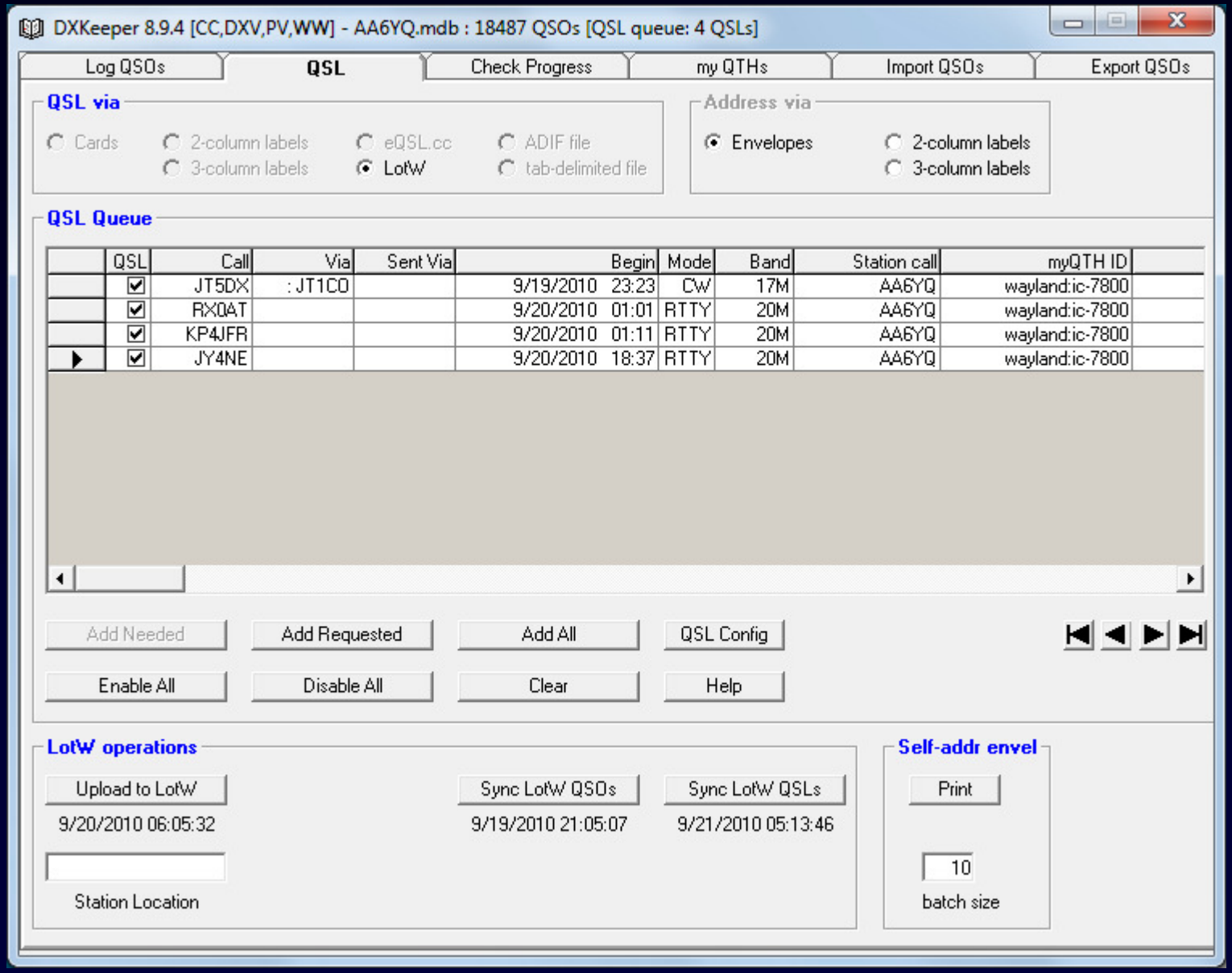
DXKeeper: QSL Card Label Preview



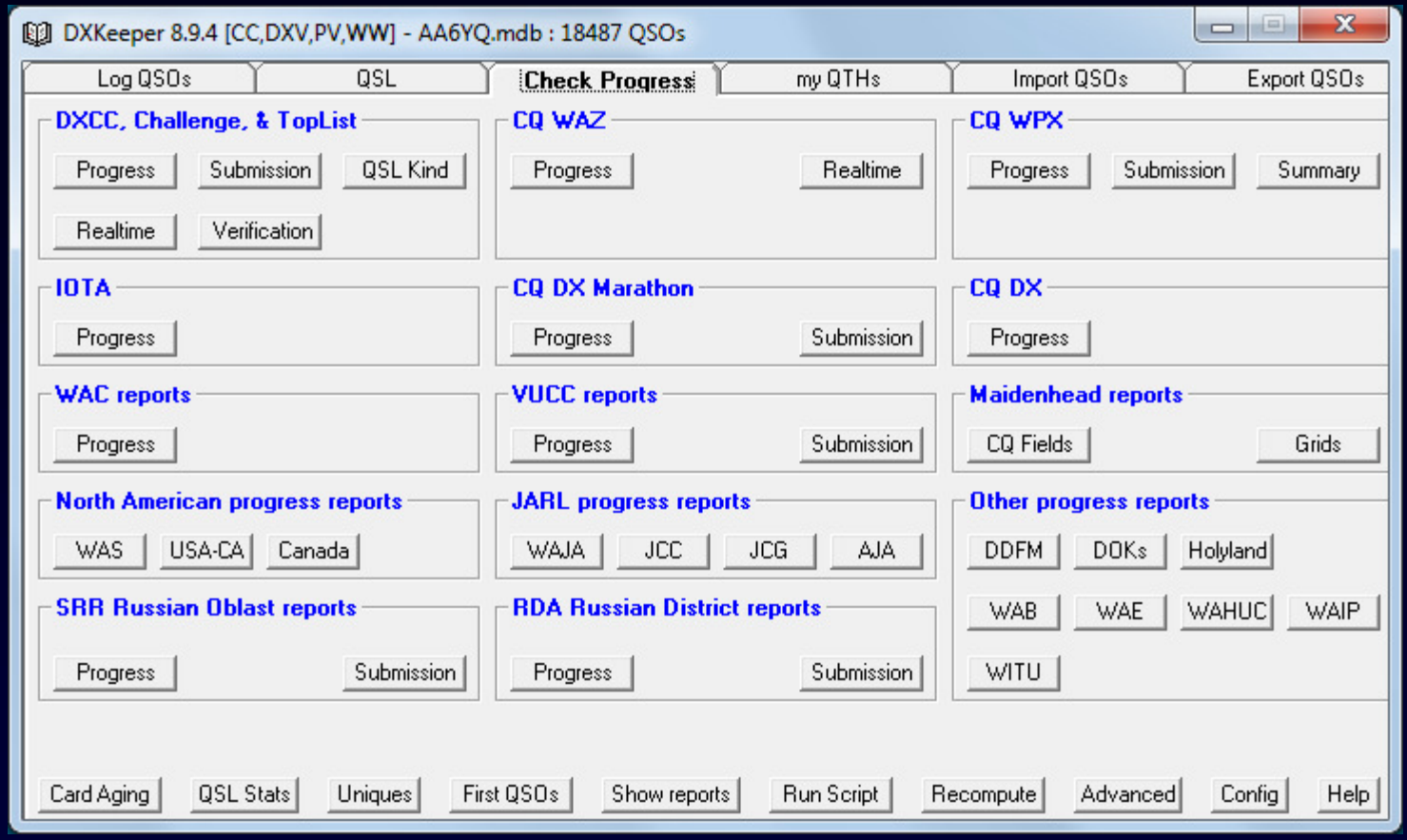
DXKeeper: QSLing with Labels



DXKeeper: QSLing with Logbook of the World



DXKeeper: Award Tracking



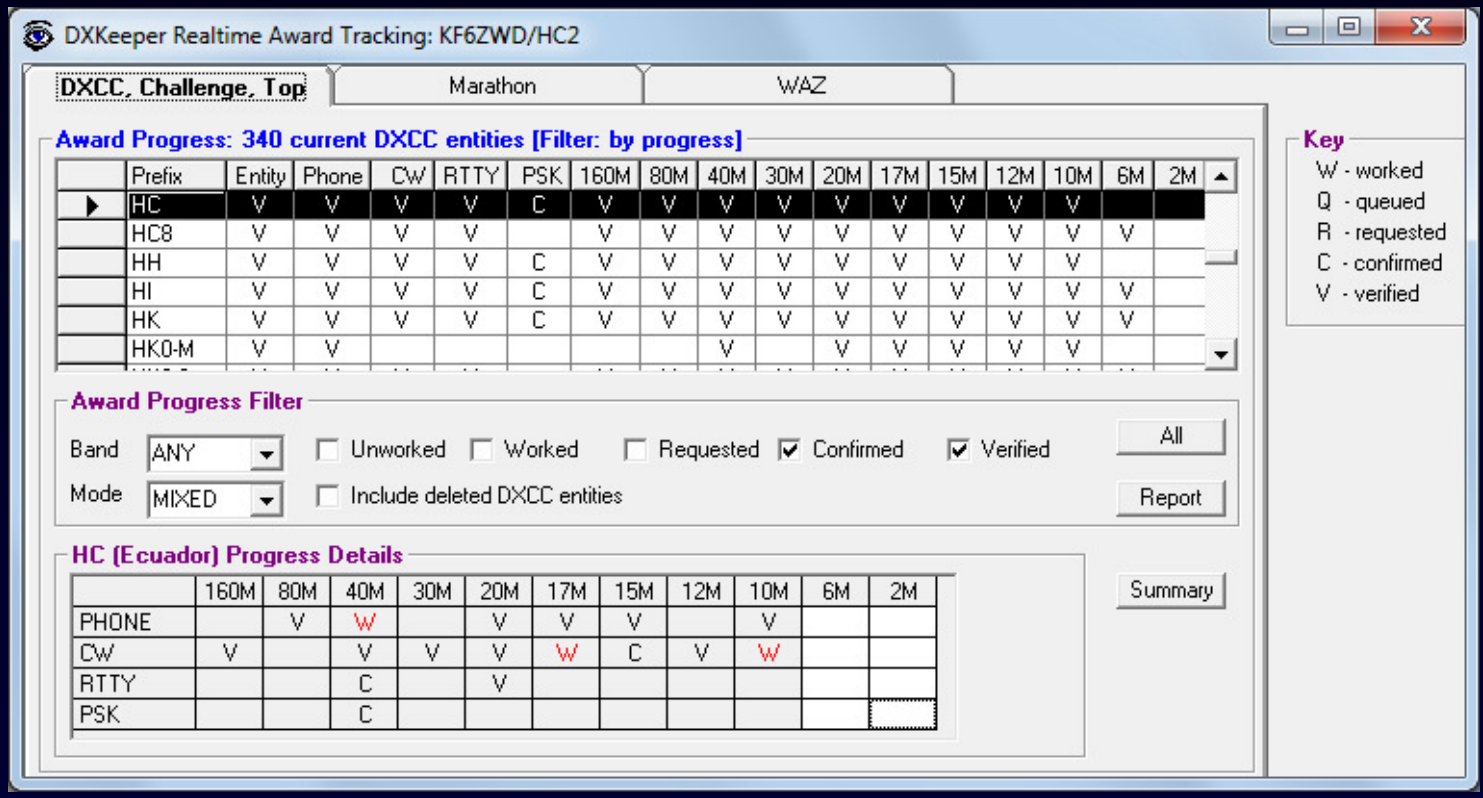
DXKeeper: Award Tracking

- DXCC* & Challenge*
  - generates submission
  - tracks verification
- CQ DX*
- CQ DX Marathon
- CQ Field*
- Gridsquares
- IOTA*
- TOPLIST*
- VUCC*
- Worked All Continents*
- Worked All Europe
- Worked All Prefixes*
- Worked All Zones*

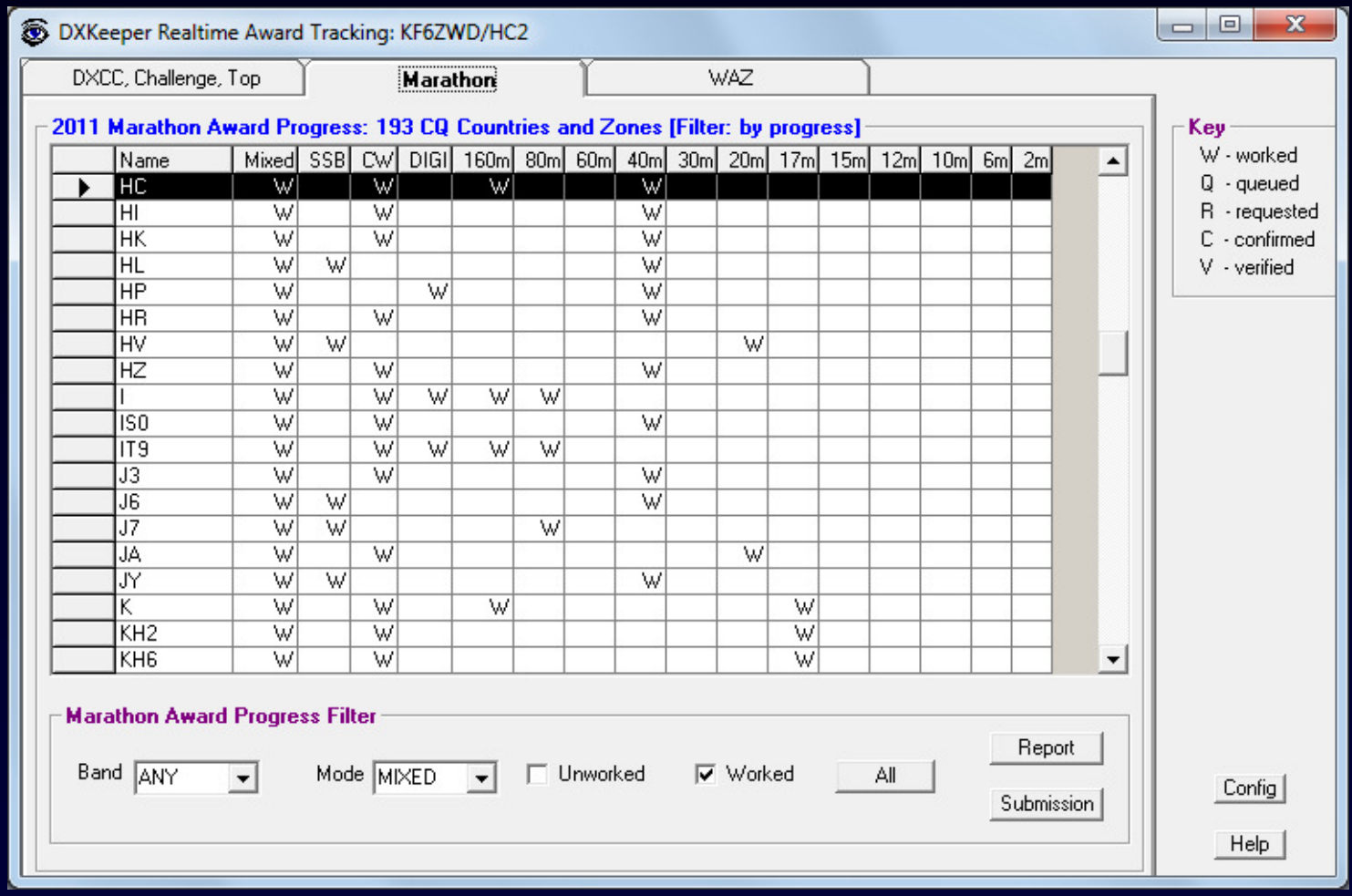
* identifies needed confirmations

- 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*

DXKeeper: Realtime DXCC Award Tracking

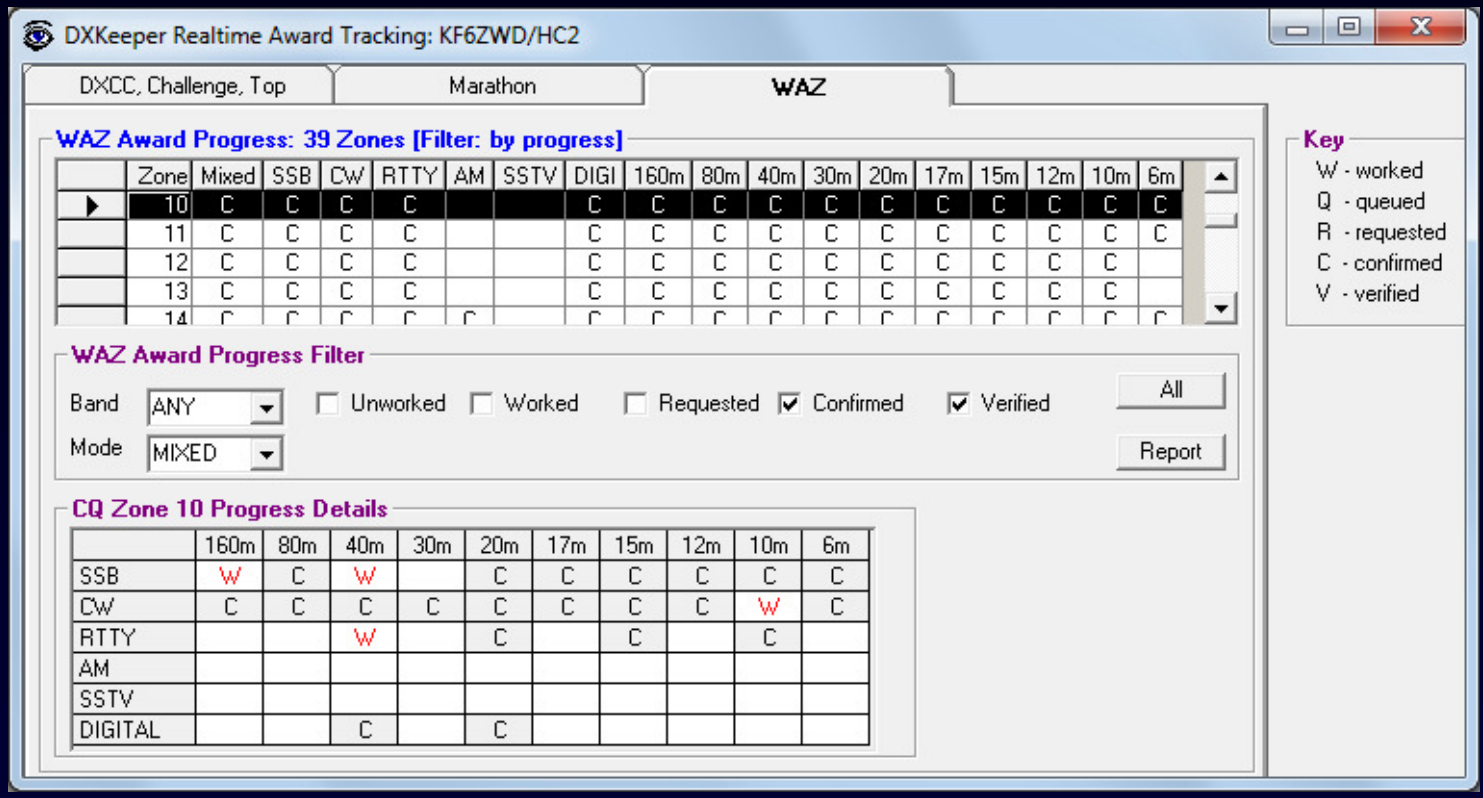


DXKeeper: Realtime Marathon Award Tracking

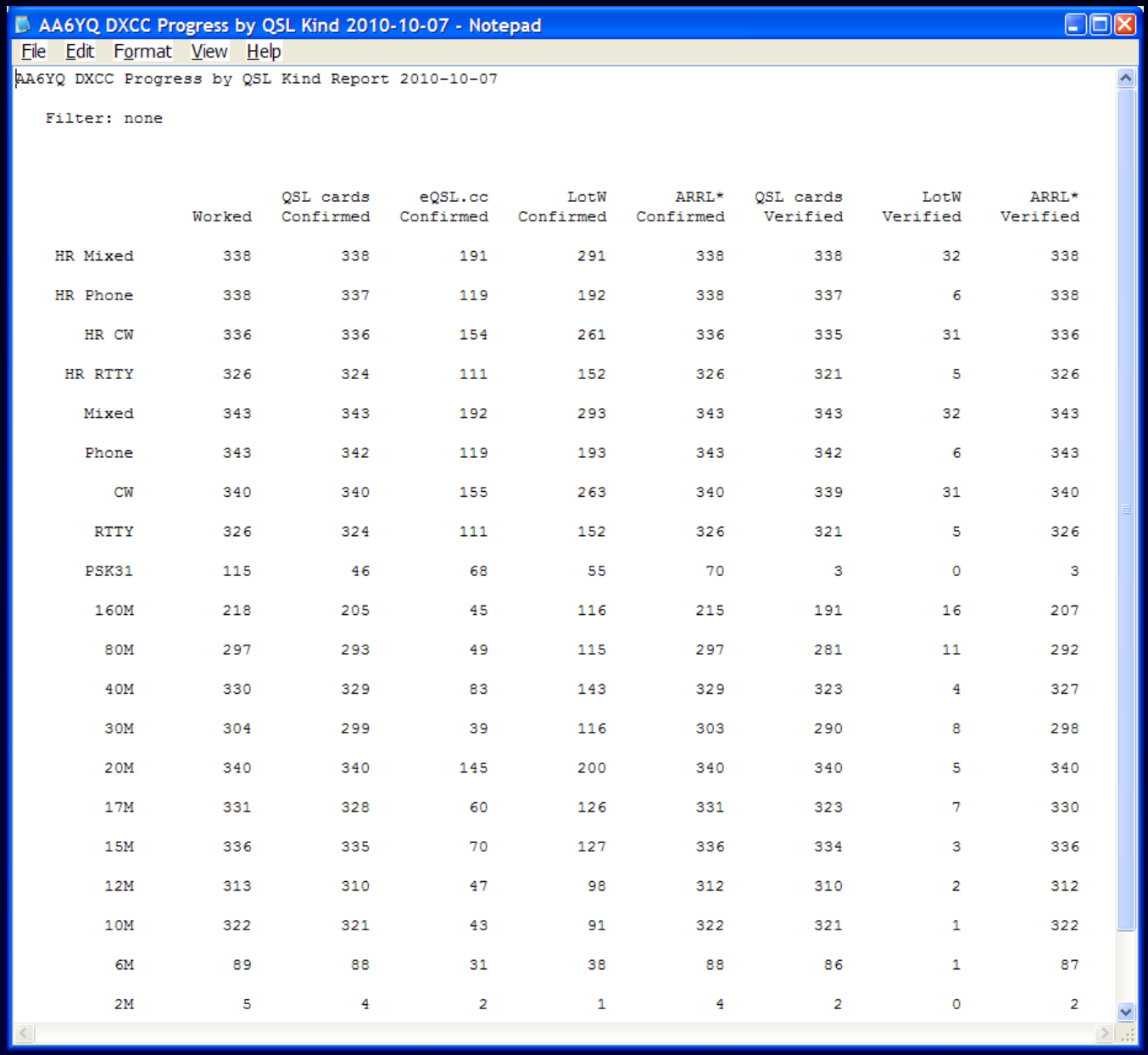


Name	Mixed	SSB	CW	DIGI	160m	80m	60m	40m	30m	20m	17m	15m	12m	10m	6m	2m
HC	W		W		W			W								
HI	W		W					W								
HK	W		W					W								
HL	W	W						W								
HP	W			W				W								
HR	W		W					W								
HV	W	W								W						
HZ	W		W					W								
I	W		W	W	W	W										
IS0	W		W					W								
IT9	W		W	W	W	W										
J3	W		W					W								
J6	W	W						W								
J7	W	W				W										
JA	W		W							W						
JY	W	W						W								
K	W		W		W						W					
KH2	W		W								W					
KH6	W		W								W					

DXKeeper: Realtime WAZ Award Tracking



DXKeeper: by QSL Kind



AA6YQ DXCC Progress by QSL Kind 2010-10-07 - Notepad

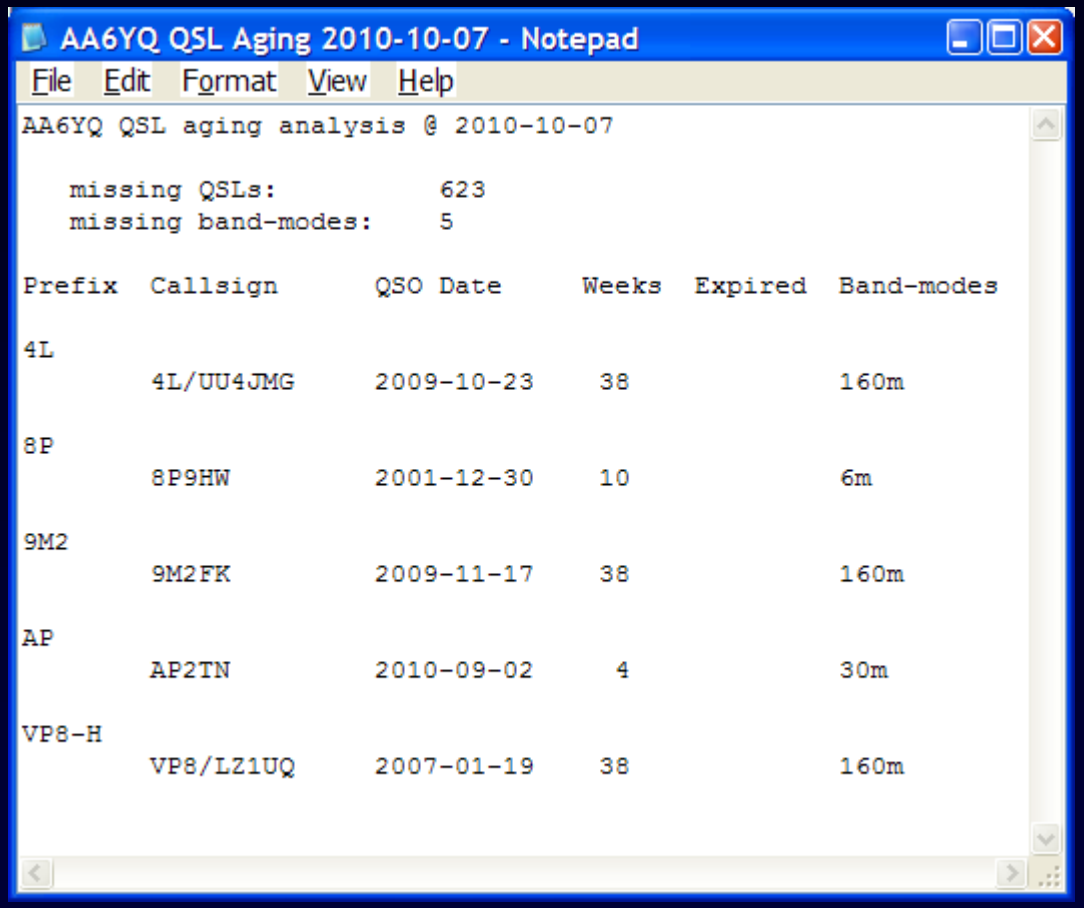
File Edit Format View Help

AA6YQ DXCC Progress by QSL Kind Report 2010-10-07

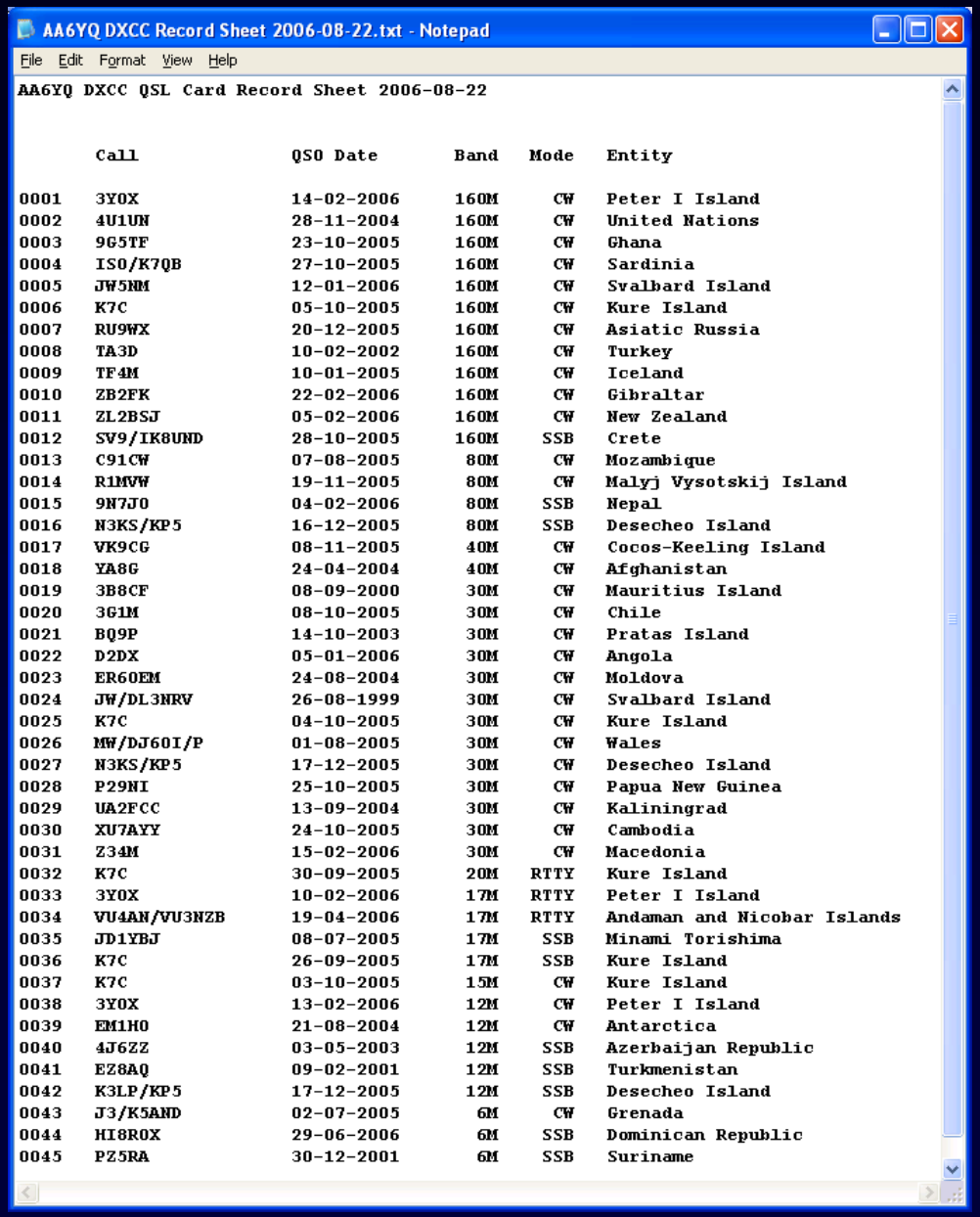
Filter: none

	Worked	QSL cards Confirmed	eQSL.cc Confirmed	LotW Confirmed	ARRL* Confirmed	QSL cards Verified	LotW Verified	ARRL* Verified
HR Mixed	338	338	191	291	338	338	32	338
HR Phone	338	337	119	192	338	337	6	338
HR CW	336	336	154	261	336	335	31	336
HR RTTY	326	324	111	152	326	321	5	326
Mixed	343	343	192	293	343	343	32	343
Phone	343	342	119	193	343	342	6	343
CW	340	340	155	263	340	339	31	340
RTTY	326	324	111	152	326	321	5	326
PSK31	115	46	68	55	70	3	0	3
160M	218	205	45	116	215	191	16	207
80M	297	293	49	115	297	281	11	292
40M	330	329	83	143	329	323	4	327
30M	304	299	39	116	303	290	8	298
20M	340	340	145	200	340	340	5	340
17M	331	328	60	126	331	323	7	330
15M	336	335	70	127	336	334	3	336
12M	313	310	47	98	312	310	2	312
10M	322	321	43	91	322	321	1	322
6M	89	88	31	38	88	86	1	87
2M	5	4	2	1	4	2	0	2

DXKeeper: QSL Aging



DXKeeper: DXCC Submission



AA6YQ DXCC Record Sheet 2006-08-22.txt - Notepad

File Edit Format View Help

AA6YQ DXCC QSL Card Record Sheet 2006-08-22

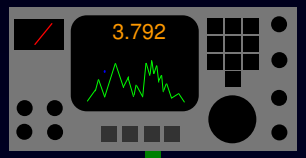
	Call	QSO Date	Band	Mode	Entity
0001	3Y0X	14-02-2006	160M	CW	Peter I Island
0002	4U1UN	28-11-2004	160M	CW	United Nations
0003	9G5TF	23-10-2005	160M	CW	Ghana
0004	IS0/K7QB	27-10-2005	160M	CW	Sardinia
0005	JW5NM	12-01-2006	160M	CW	Svalbard Island
0006	K7C	05-10-2005	160M	CW	Kure Island
0007	RU9WX	20-12-2005	160M	CW	Asiatic Russia
0008	TA3D	10-02-2002	160M	CW	Turkey
0009	TF4M	10-01-2005	160M	CW	Iceland
0010	ZB2FK	22-02-2006	160M	CW	Gibraltar
0011	ZL2BSJ	05-02-2006	160M	CW	New Zealand
0012	SV9/IK8UND	28-10-2005	160M	SSB	Crete
0013	C91CW	07-08-2005	80M	CW	Mozambique
0014	R1MVW	19-11-2005	80M	CW	Malyj Vysotskij Island
0015	9N7JO	04-02-2006	80M	SSB	Nepal
0016	N3KS/KP5	16-12-2005	80M	SSB	Desecheo Island
0017	VK9CG	08-11-2005	40M	CW	Cocos-Keeling Island
0018	YA8G	24-04-2004	40M	CW	Afghanistan
0019	3B8CF	08-09-2000	30M	CW	Mauritius Island
0020	3G1M	08-10-2005	30M	CW	Chile
0021	BQ9P	14-10-2003	30M	CW	Pratas Island
0022	D2DX	05-01-2006	30M	CW	Angola
0023	ER60EM	24-08-2004	30M	CW	Moldova
0024	JW/DL3NRV	26-08-1999	30M	CW	Svalbard Island
0025	K7C	04-10-2005	30M	CW	Kure Island
0026	MW/DJ60I/P	01-08-2005	30M	CW	Wales
0027	N3KS/KP5	17-12-2005	30M	CW	Desecheo Island
0028	P29NI	25-10-2005	30M	CW	Papua New Guinea
0029	UA2FCC	13-09-2004	30M	CW	Kaliningrad
0030	XU7AYY	24-10-2005	30M	CW	Cambodia
0031	Z34M	15-02-2006	30M	CW	Macedonia
0032	K7C	30-09-2005	20M	RTTY	Kure Island
0033	3Y0X	10-02-2006	17M	RTTY	Peter I Island
0034	VU4AN/VU3NZB	19-04-2006	17M	RTTY	Andaman and Nicobar Islands
0035	JD1YBJ	08-07-2005	17M	SSB	Minami Torishima
0036	K7C	26-09-2005	17M	SSB	Kure Island
0037	K7C	03-10-2005	15M	CW	Kure Island
0038	3Y0X	13-02-2006	12M	CW	Peter I Island
0039	EM1H0	21-08-2004	12M	CW	Antarctica
0040	4J6ZZ	03-05-2003	12M	SSB	Azerbaijan Republic
0041	EZ8AQ	09-02-2001	12M	SSB	Turkmenistan
0042	K3LP/KP5	17-12-2005	12M	SSB	Desecheo Island
0043	J3/K5AND	02-07-2005	6M	CW	Grenada
0044	HI8ROX	29-06-2006	6M	SSB	Dominican Republic
0045	PZ5RA	30-12-2001	6M	SSB	Suriname

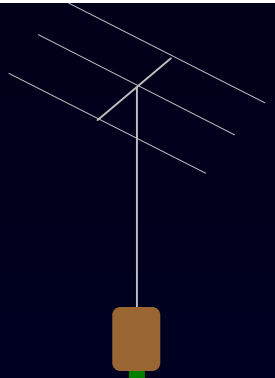
- Chooses confirmed QSOs to submit
- Generates application
- Supports ARRL's new "Online DXCC"

DXKeeper: DXCC Credit Management

- Compare granted DXCC Credits to logged QSOs
- Download Granted DXCC Credits from ARRL
  - Link DXCC Credits to logged QSOs
  - Update logged QSOs to reflect DXCC Credit Granted

the DXLab Suite





WinWarbler

Commander

DXView

DXKeeper

SpotCollector

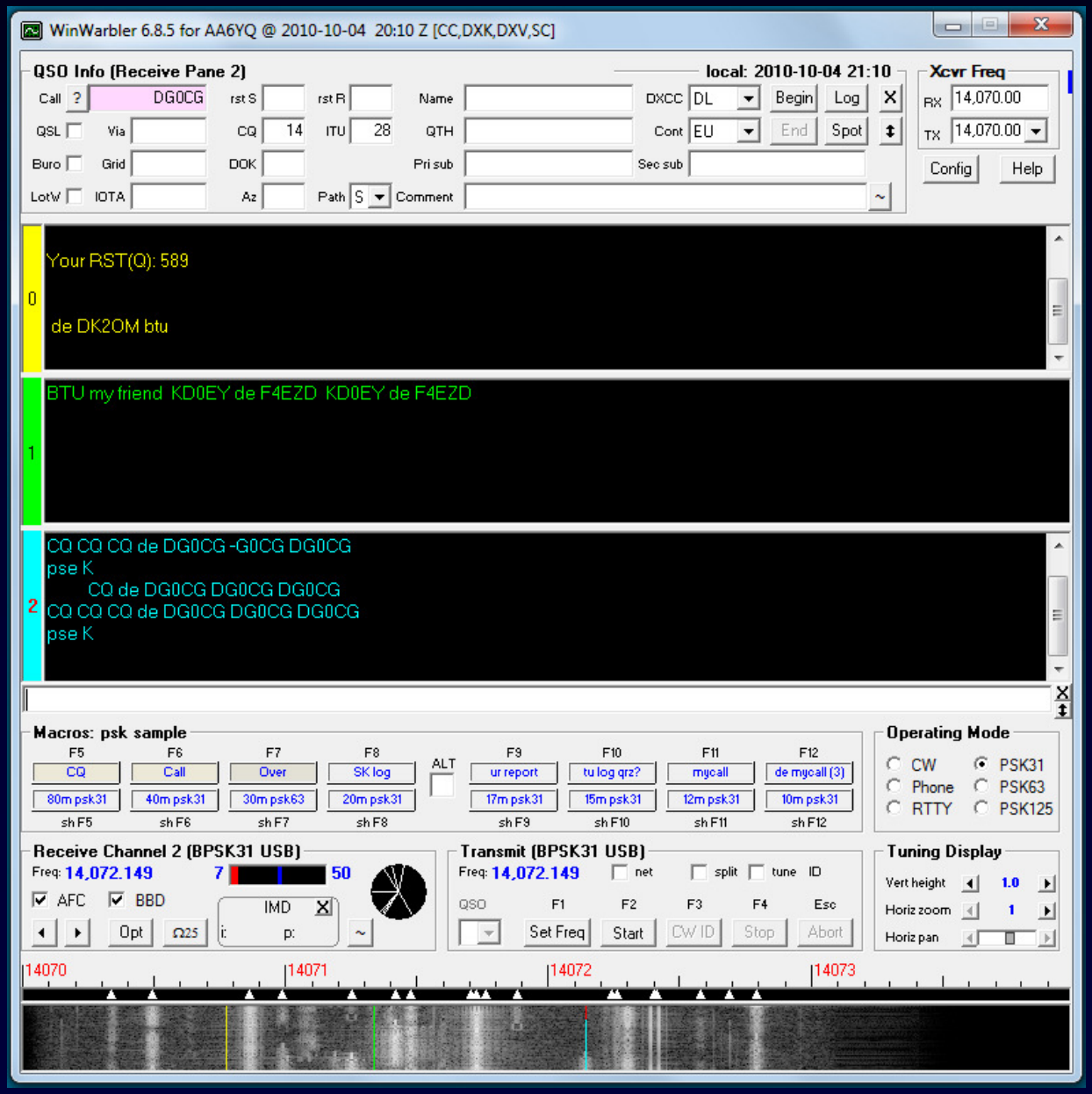
PropView

Pathfinder

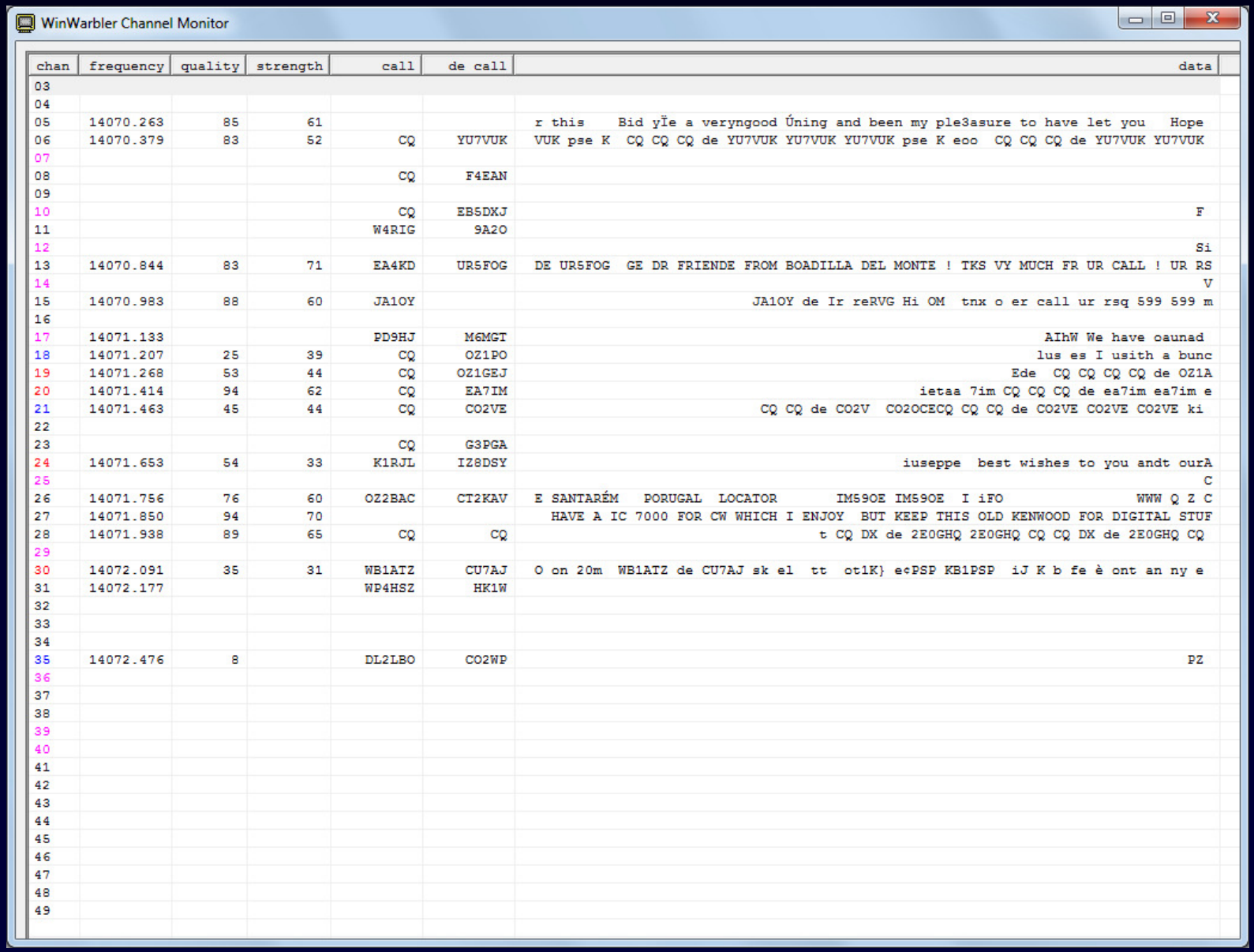
WinWarbler

- Supports PSK31, PSK63, PSK125, RTTY, CW, and Phone
- 32 macros, comprehensive macro language
- Logging
- Transceiver Control

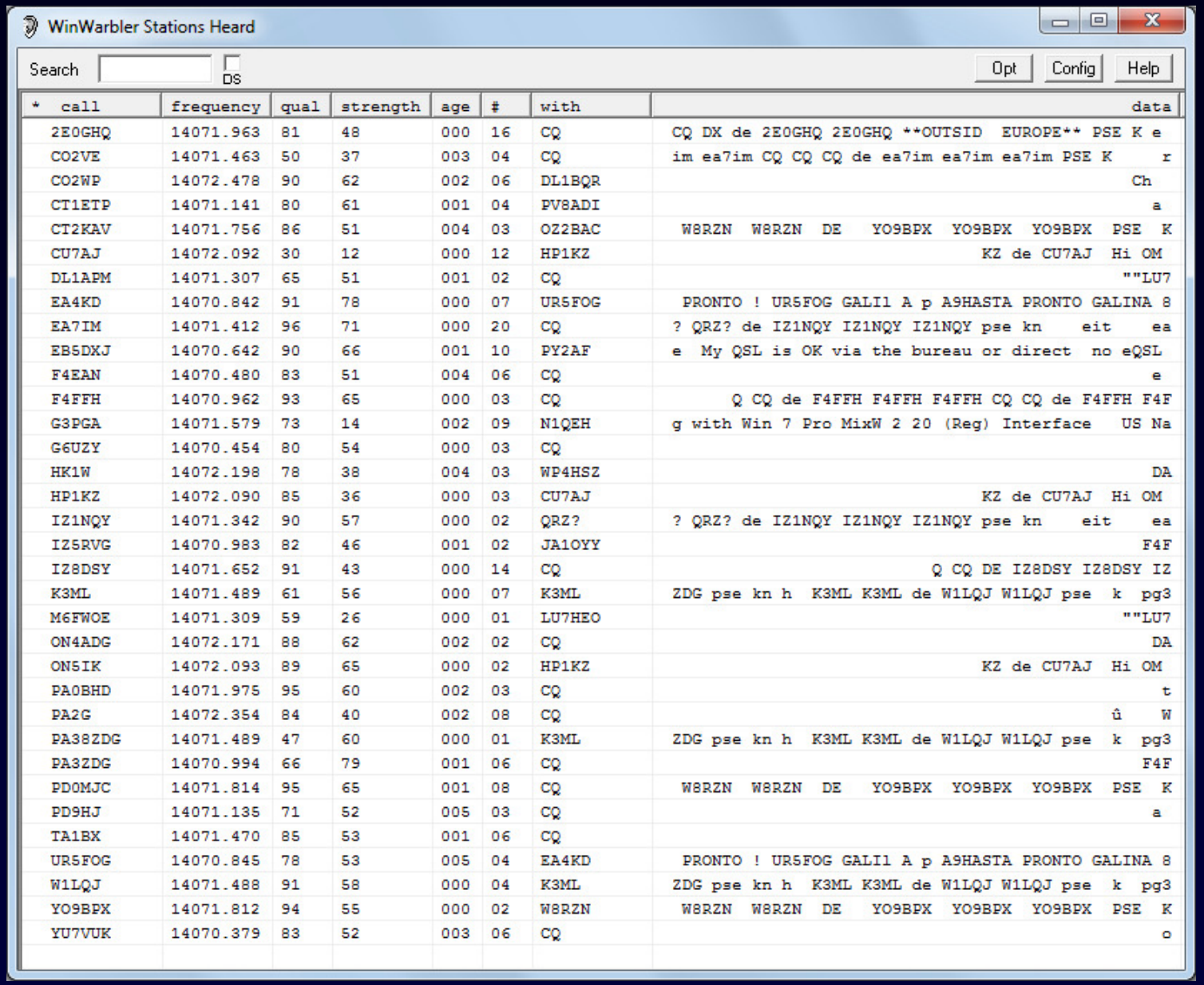
WinWarbler: PSK31/63/125 Support



PSK31/63/125 Broadband Decoding



PSK31/63/125 Broadband Decoding

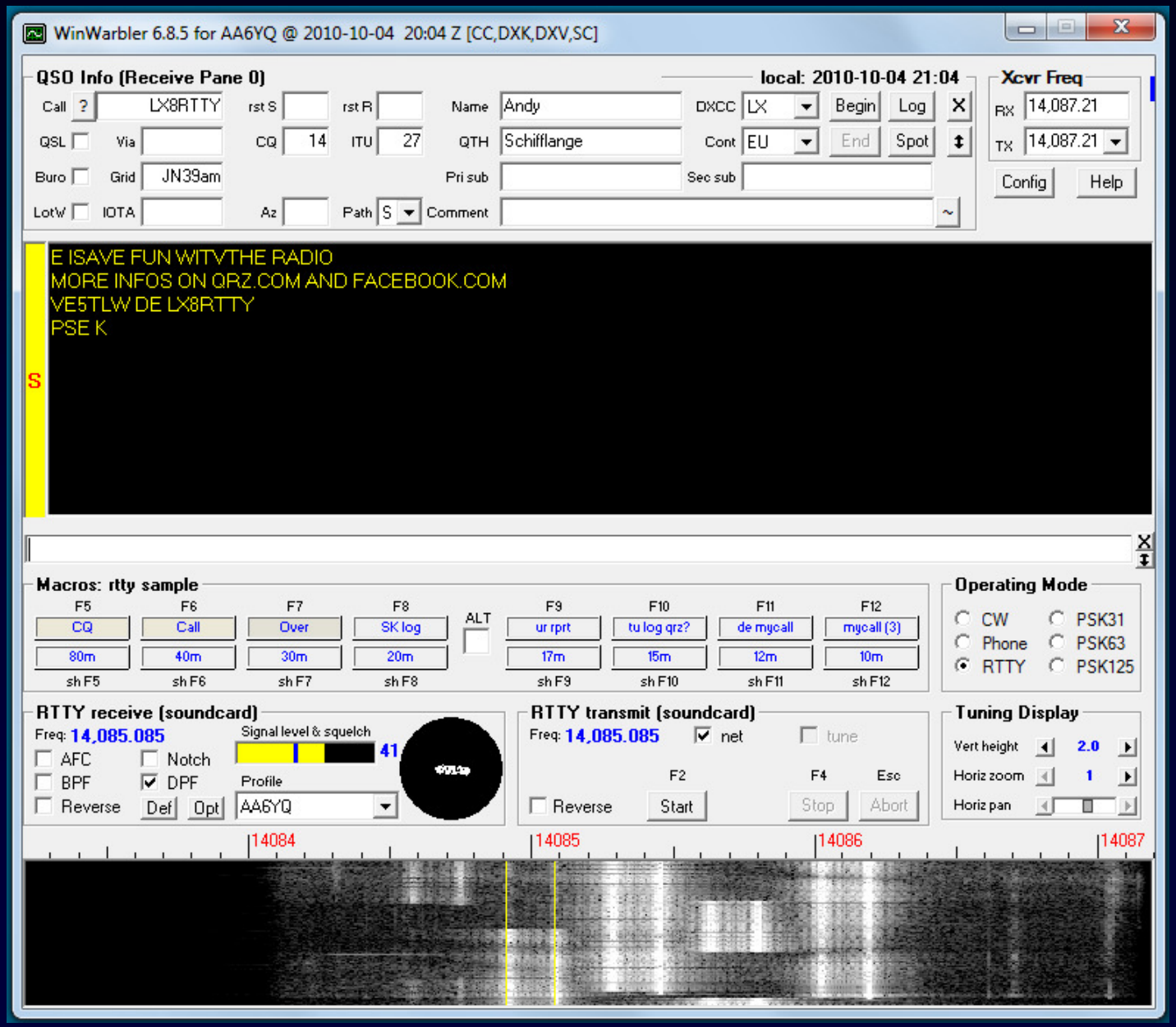


* call	frequency	qual	strength	age	#	with	data
2E0GHQ	14071.963	81	48	000	16	CQ	CQ DX de 2E0GHQ 2E0GHQ **OUTSID EUROPE** PSE K e
CO2VE	14071.463	50	37	003	04	CQ	im ea7im CQ CQ CQ de ea7im ea7im ea7im PSE K r
CO2WP	14072.478	90	62	002	06	DL1BQR	Ch
CT1ETP	14071.141	80	61	001	04	PV8ADI	a
CT2KAV	14071.756	86	51	004	03	OZ2BAC	W8RZN W8RZN DE YO9BPX YO9BPX YO9BPX PSE K
CU7AJ	14072.092	30	12	000	12	HP1KZ	KZ de CU7AJ Hi OM
DL1APM	14071.307	65	51	001	02	CQ	""LU7
EA4KD	14070.842	91	78	000	07	UR5FOG	PRONTO ! UR5FOG GALI1 A p A9HASTA PRONTO GALINA 8
EA7IM	14071.412	96	71	000	20	CQ	? QRZ? de IZ1NQY IZ1NQY IZ1NQY pse kn eit ea
EB5DXJ	14070.642	90	66	001	10	PY2AF	e My QSL is OK via the bureau or direct no eQSL
F4EAN	14070.480	83	51	004	06	CQ	e
F4FFH	14070.962	93	65	000	03	CQ	Q CQ de F4FFH F4FFH F4FFH CQ CQ de F4FFH F4F
G3PGA	14071.579	73	14	002	09	N1QEH	g with Win 7 Pro MixW 2 20 (Reg) Interface US Na
G6UZY	14070.454	80	54	000	03	CQ	
HK1W	14072.198	78	38	004	03	WP4HSZ	DA
HP1KZ	14072.090	85	36	000	03	CU7AJ	KZ de CU7AJ Hi OM
IZ1NQY	14071.342	90	57	000	02	QRZ?	? QRZ? de IZ1NQY IZ1NQY IZ1NQY pse kn eit ea
IZ5RVG	14070.983	82	46	001	02	JA1OYY	F4F
IZ8DSY	14071.652	91	43	000	14	CQ	Q CQ DE IZ8DSY IZ8DSY IZ
K3ML	14071.489	61	56	000	07	K3ML	ZDG pse kn h K3ML K3ML de W1LQJ W1LQJ pse k pg3
M6FWOE	14071.309	59	26	000	01	LU7HEO	""LU7
ON4ADG	14072.171	88	62	002	02	CQ	DA
ON5IK	14072.093	89	65	000	02	HP1KZ	KZ de CU7AJ Hi OM
PA0BHD	14071.975	95	60	002	03	CQ	t
PA2G	14072.354	84	40	002	08	CQ	û W
PA38ZDG	14071.489	47	60	000	01	K3ML	ZDG pse kn h K3ML K3ML de W1LQJ W1LQJ pse k pg3
PA3ZDG	14070.994	66	79	001	06	CQ	F4F
PD0MJC	14071.814	95	65	001	08	CQ	W8RZN W8RZN DE YO9BPX YO9BPX YO9BPX PSE K
PD9HJ	14071.135	71	52	005	03	CQ	a
TA1BX	14071.470	85	53	001	06	CQ	
UR5FOG	14070.845	78	53	005	04	EA4KD	PRONTO ! UR5FOG GALI1 A p A9HASTA PRONTO GALINA 8
W1LQJ	14071.488	91	58	000	04	K3ML	ZDG pse kn h K3ML K3ML de W1LQJ W1LQJ pse k pg3
YO9BPX	14071.812	94	55	000	02	W8RZN	W8RZN W8RZN DE YO9BPX YO9BPX YO9BPX PSE K
YU7VUK	14070.379	83	52	003	06	CQ	o

WinWarbler RTTY Support

- Soundcard RTTY
  - uses JE3HHT's MMTTY engine
- External modem: diversity decoding
  - KAM
  - PK232
  - PK900
  - MFJ
  - SCS

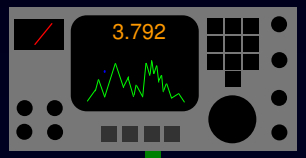
WinWarbler RTTY Support

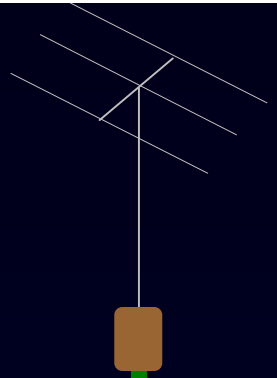


WinWarbler

- CW transmission
  - software-generated
  - WinKey
  - Via transceiver CAT command
  - external modem
- Phone voice keyer
- Logging
  - Built-in minilog
  - Automatically logs to DXKeeper if running
- Transceiver control via Commander
  - Logs correct frequencies
  - One-click QSY to optimize tone within transceiver bandwidth
  - RX-TX switching

the DXLab Suite





WinWarbler

Commander

DXView

DXKeeper

SpotCollector

PropView

Pathfinder

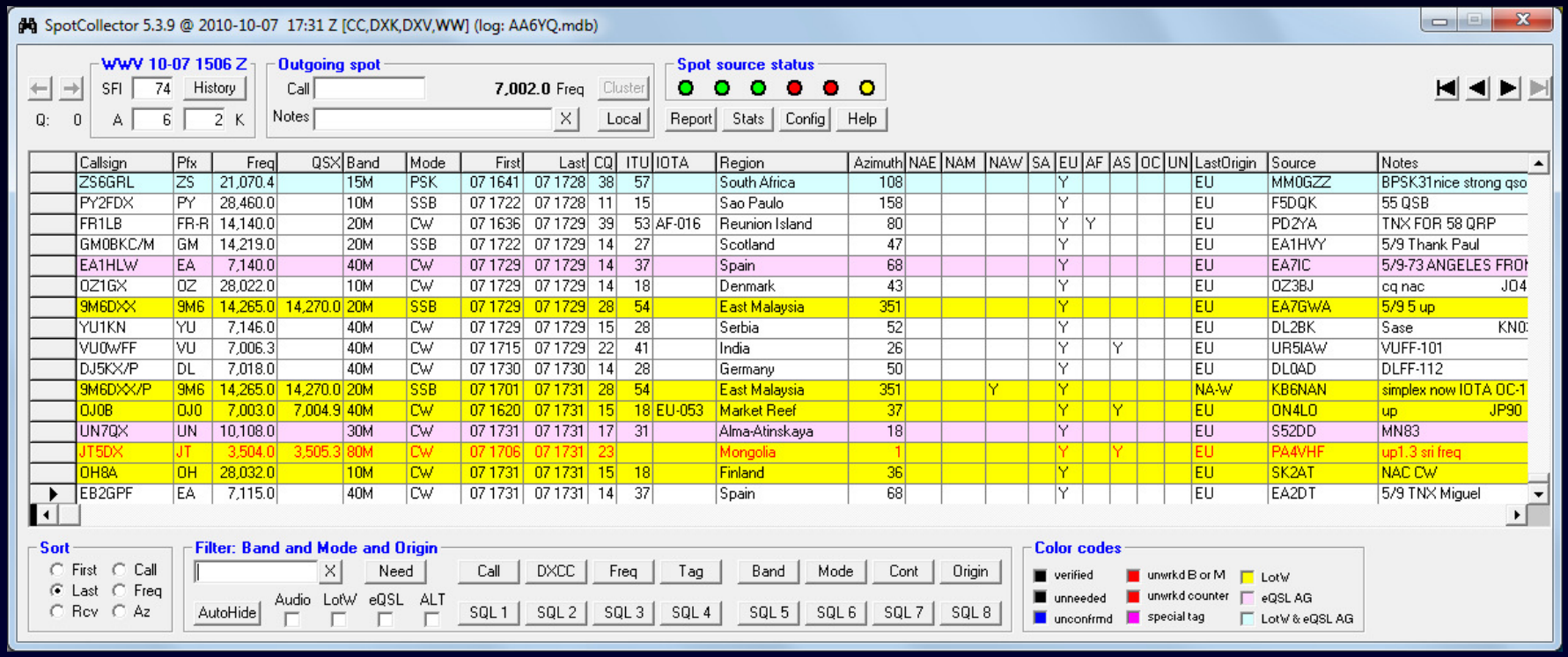
SpotCollector

- Connects to six spot sources
  - Four telnet clusters
  - DX Summit web cluster
  - Local packet cluster via external TNC
- Captures DX spots and places them into a database with one entry for each active DX station
- Highlights and announces “needed” stations
  - DXCC, Challenge, & TopList
  - CQ Marathon
  - CQ WAZ
- Captures WWV spots

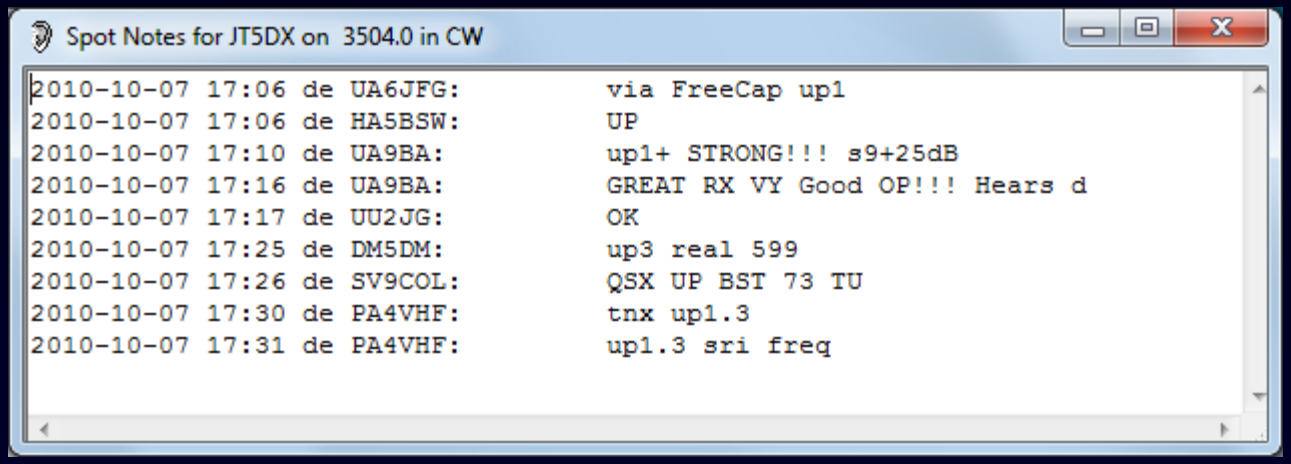
SpotCollector: DX Spot Database

- Discards bogus spots (B0ZO, SL1M, etc.)
- Combines spots of same DX station
- Filters database by
  - Need
  - Callsign
  - Country
  - Frequency
  - Band
  - Mode
  - Continent
  - Origin
  - Distance from spotting station
- Colors database entries
  - by Need
  - by LotW participation and date of last upload
  - By eQSL AG membership
  - by Callsign matching
- Plots
  - Spots and QSOs on DXView's world map
  - Spots on Commander's bandspread

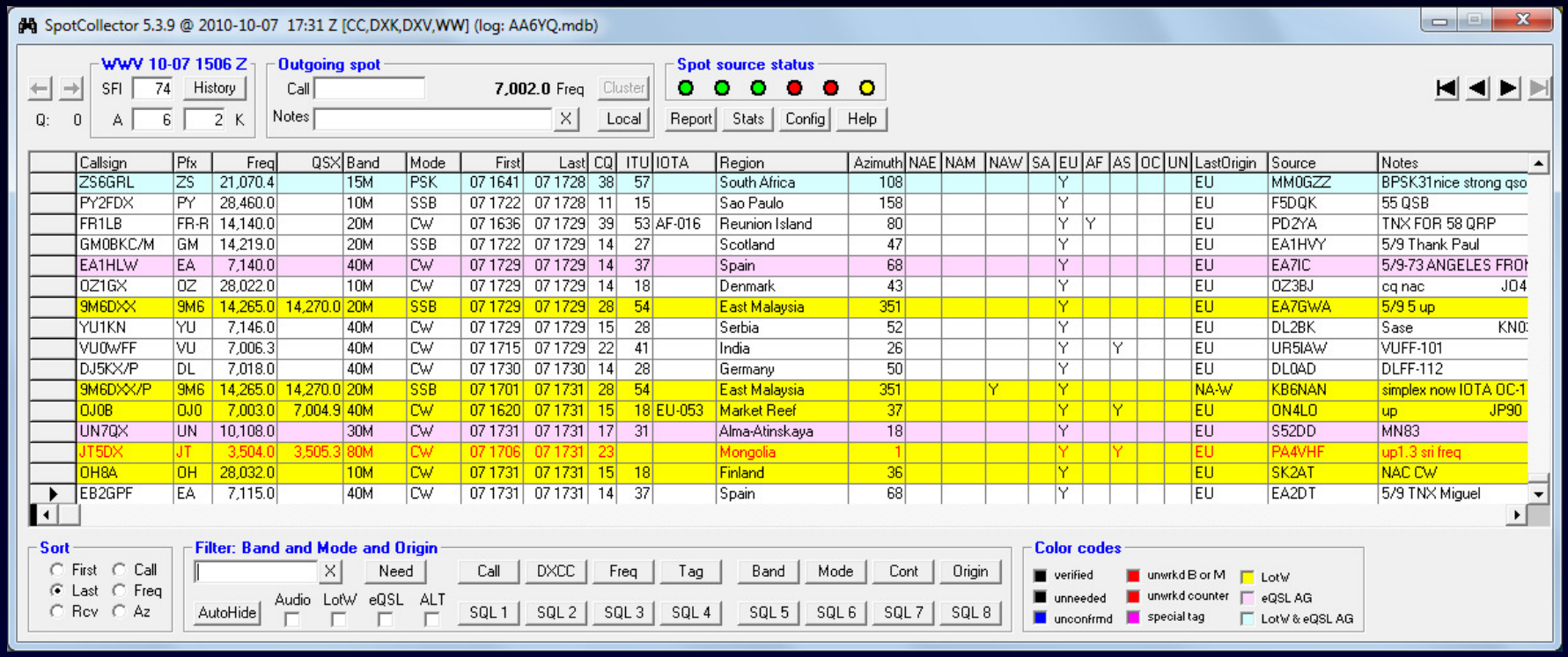
SpotCollector: DX Spot Database



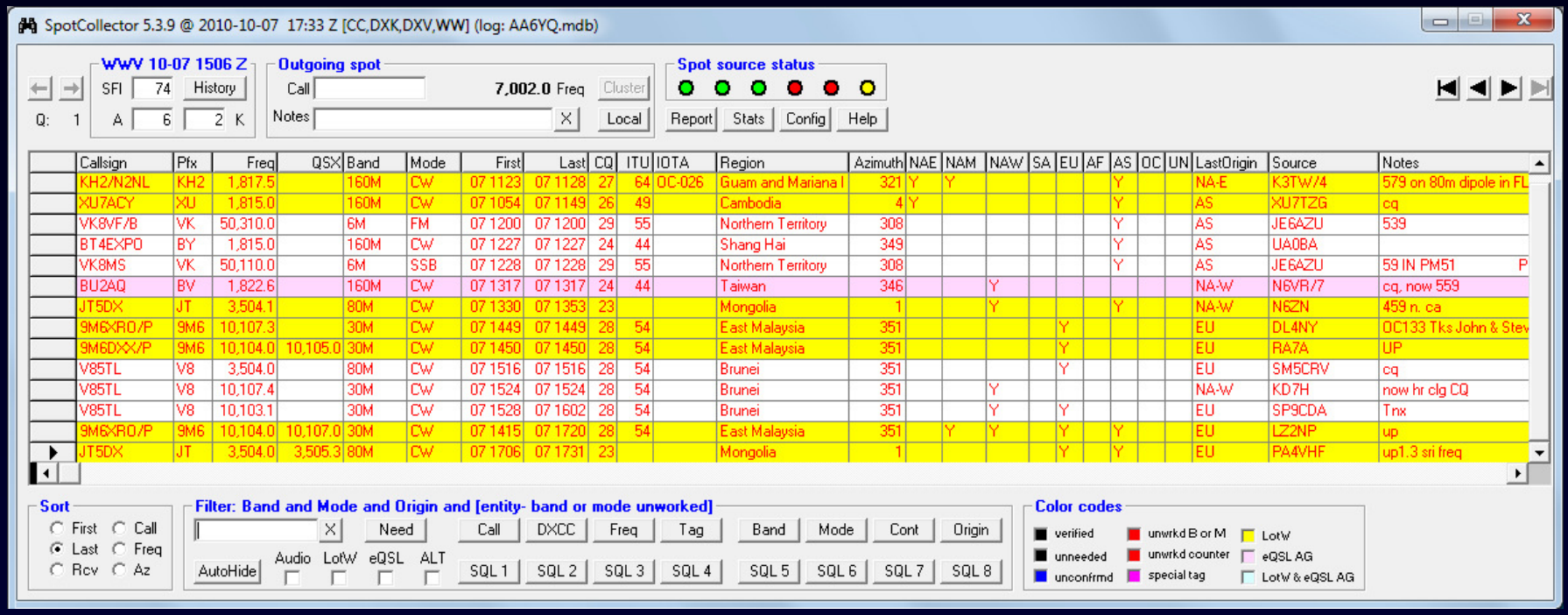
SpotCollector: Cumulative Spot Notes



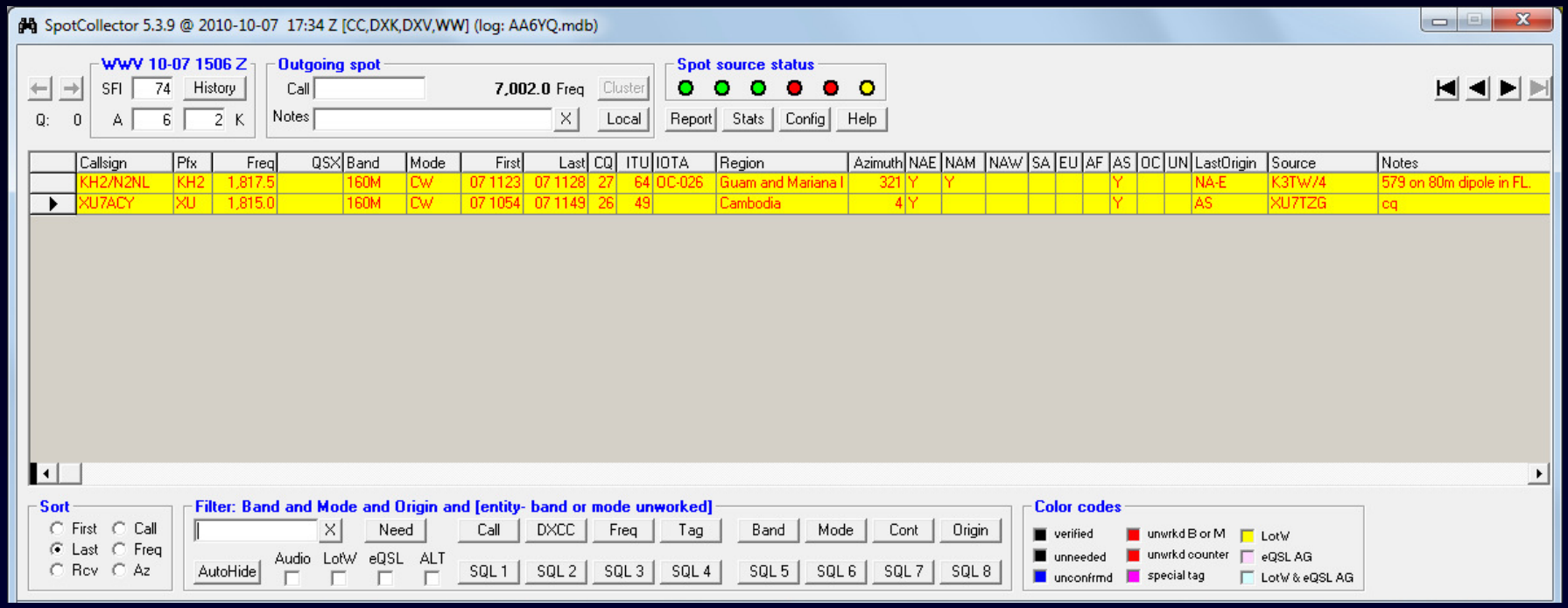
SpotCollector: DX Spot Database



SpotCollector: “Needed”



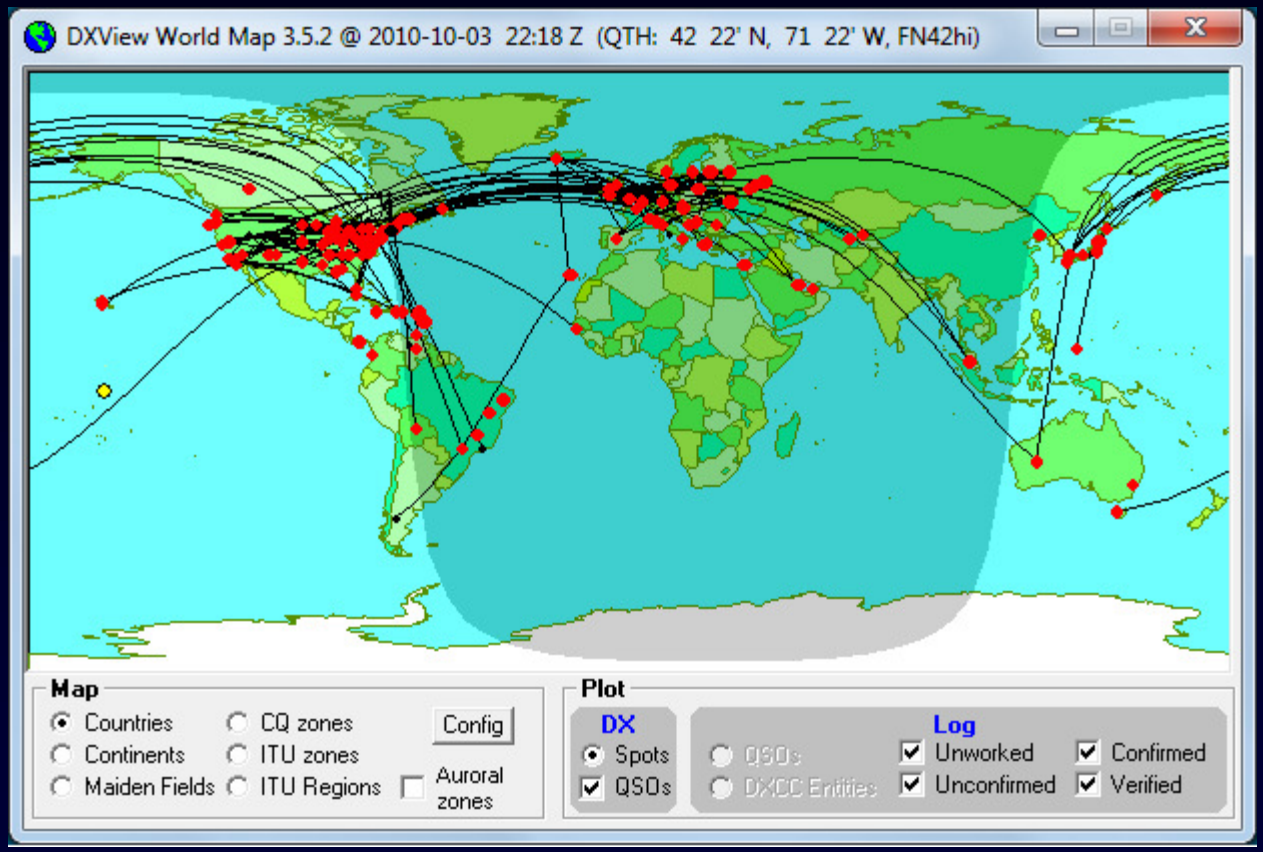
SpotCollector: “Needed” and spotted from NA-E



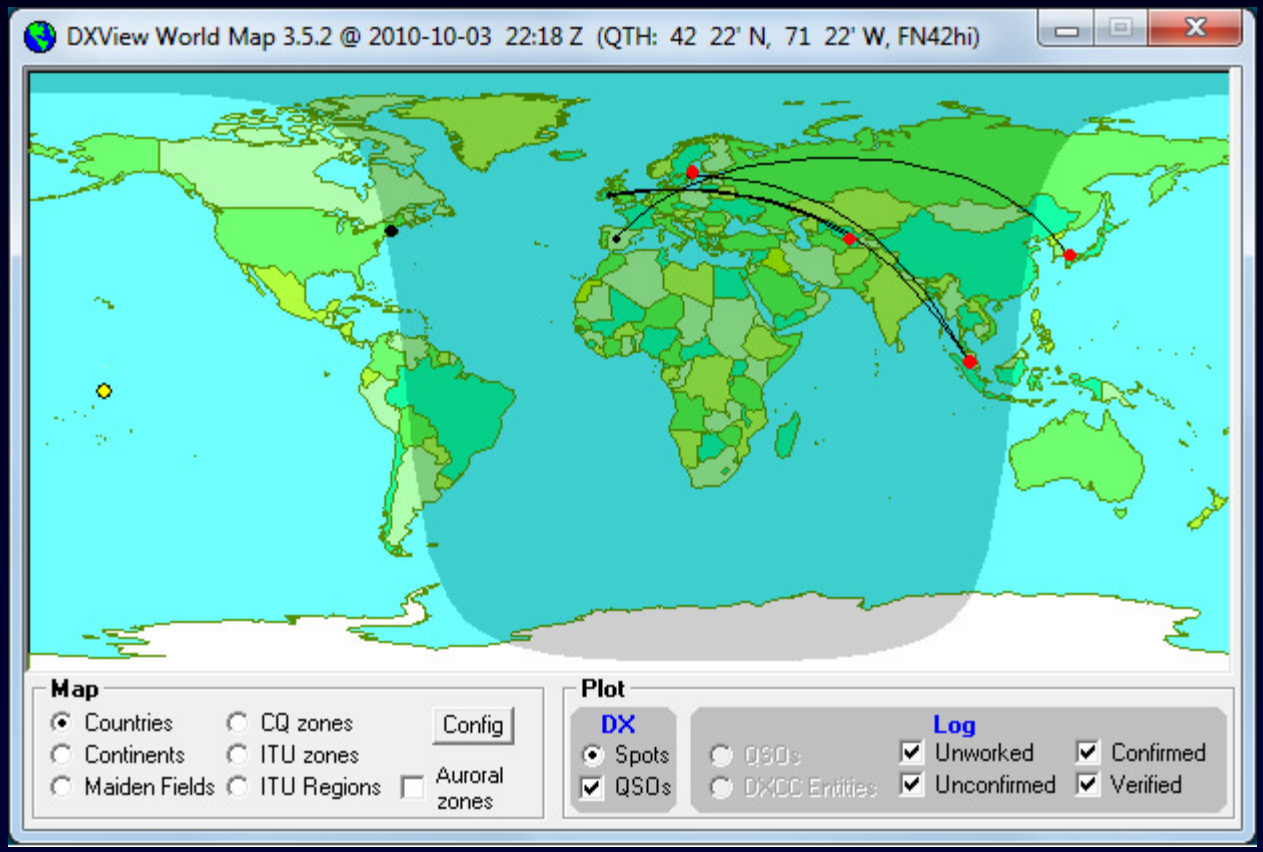
SpotCollector: DX Spot Database

- Discards bogus spots (B0ZO, SL1M, etc.)
- Combines spots of same DX station
- Filters database by
  - Need
  - Callsign
  - Country
  - Frequency
  - Band
  - Mode
  - Continent
  - Origin
  - Distance from spotting station
- Colors database entries
  - by Need
  - by LotW participation and date of last upload
  - By eQSL AG membership
  - by Callsign matching
- Plots
  - Spots and QSOs on DXView's world map
  - Spots on Commander's bandspread

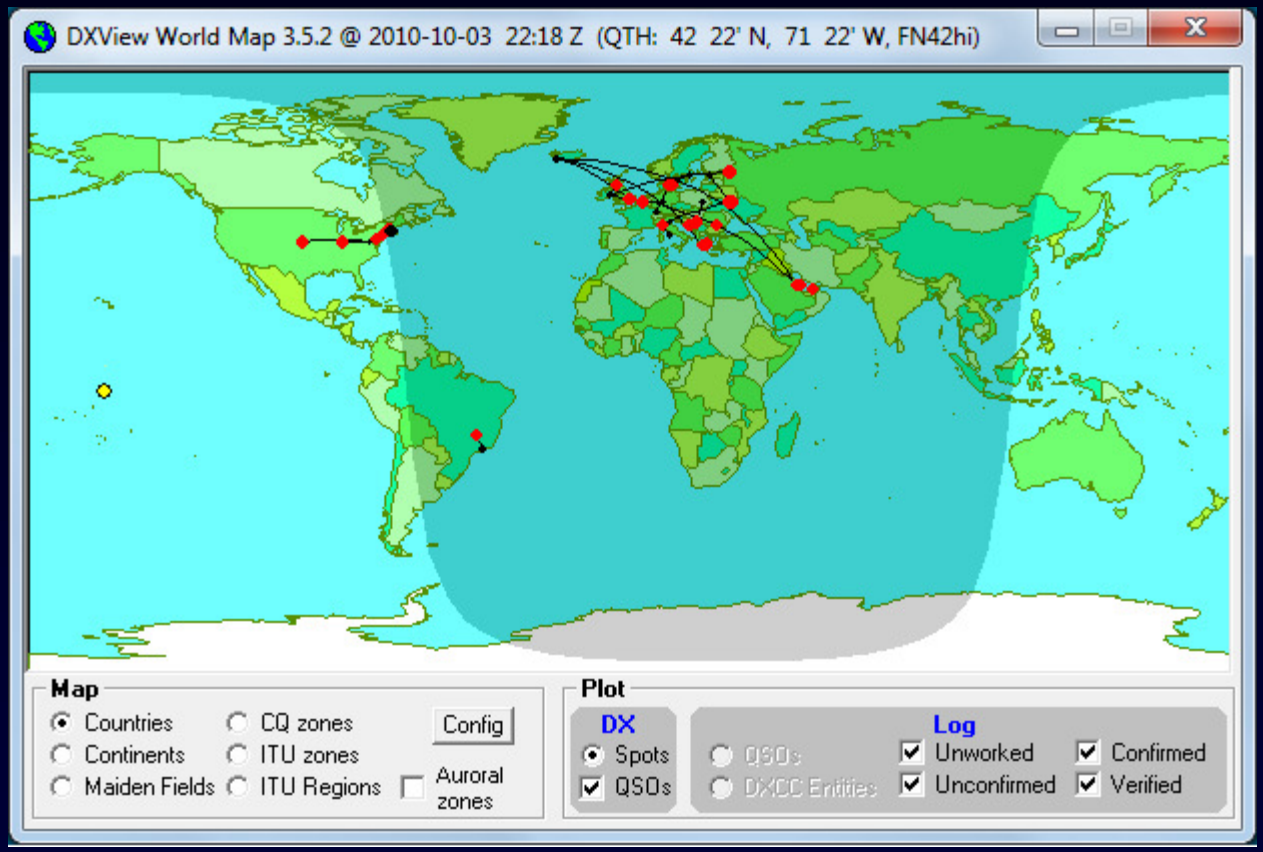
SpotCollector: Plotted DX



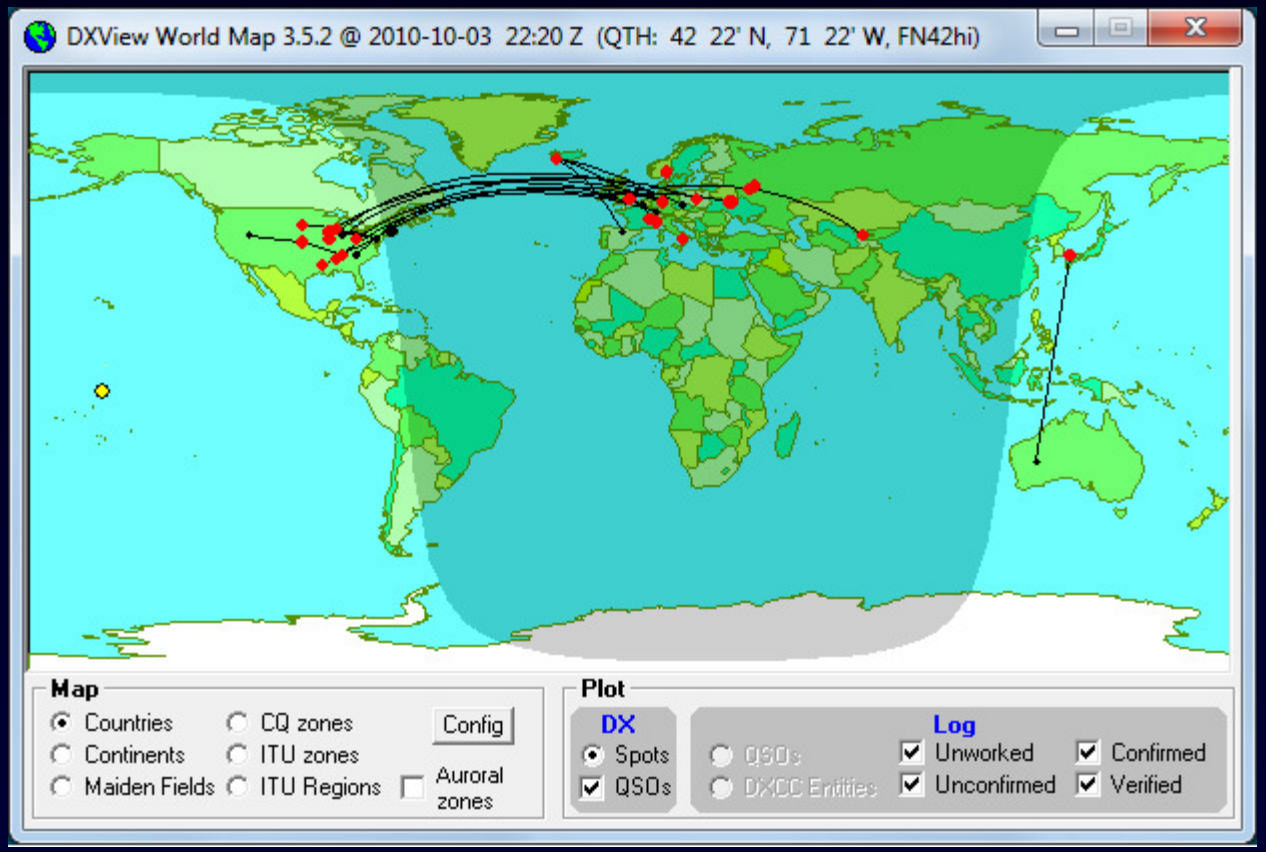
SpotCollector: Plotted 160m DX



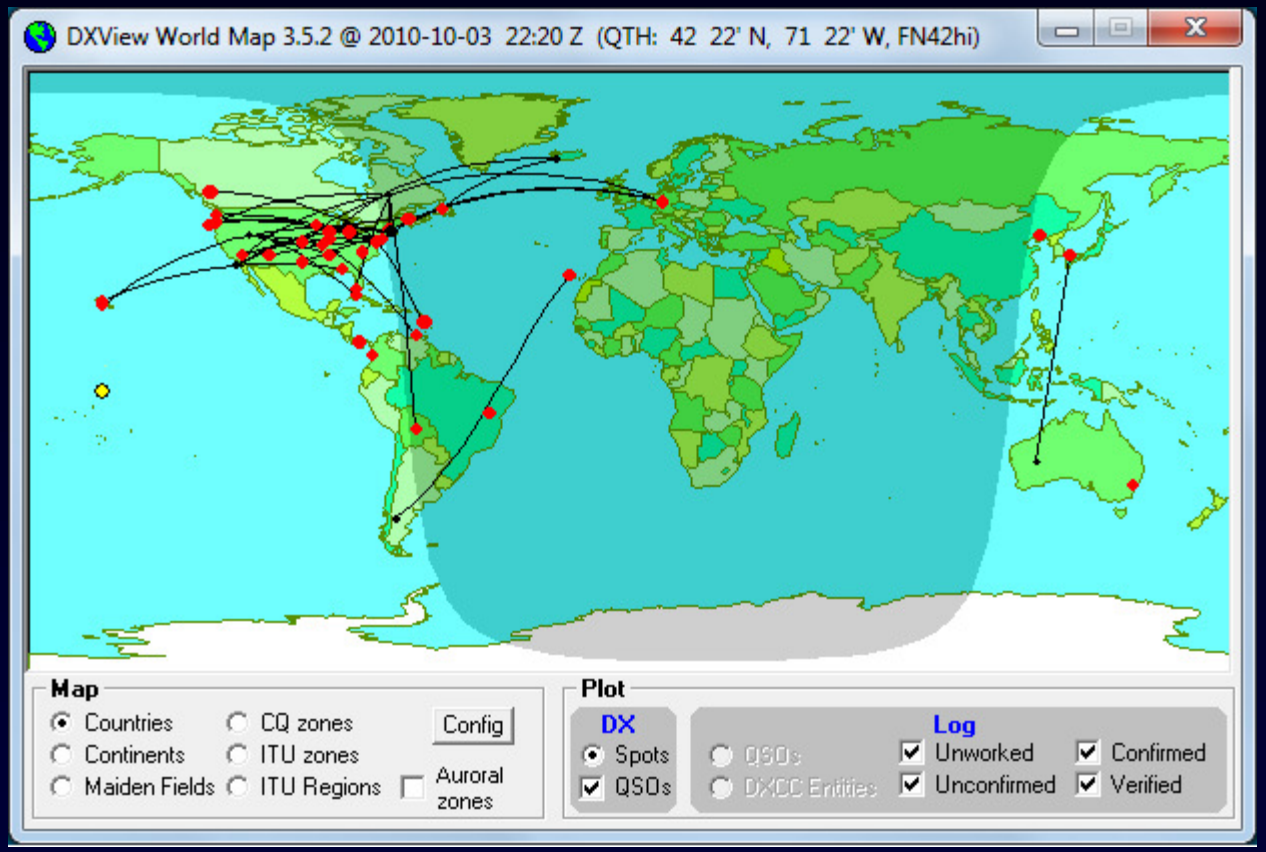
SpotCollector: Plotted 80m DX



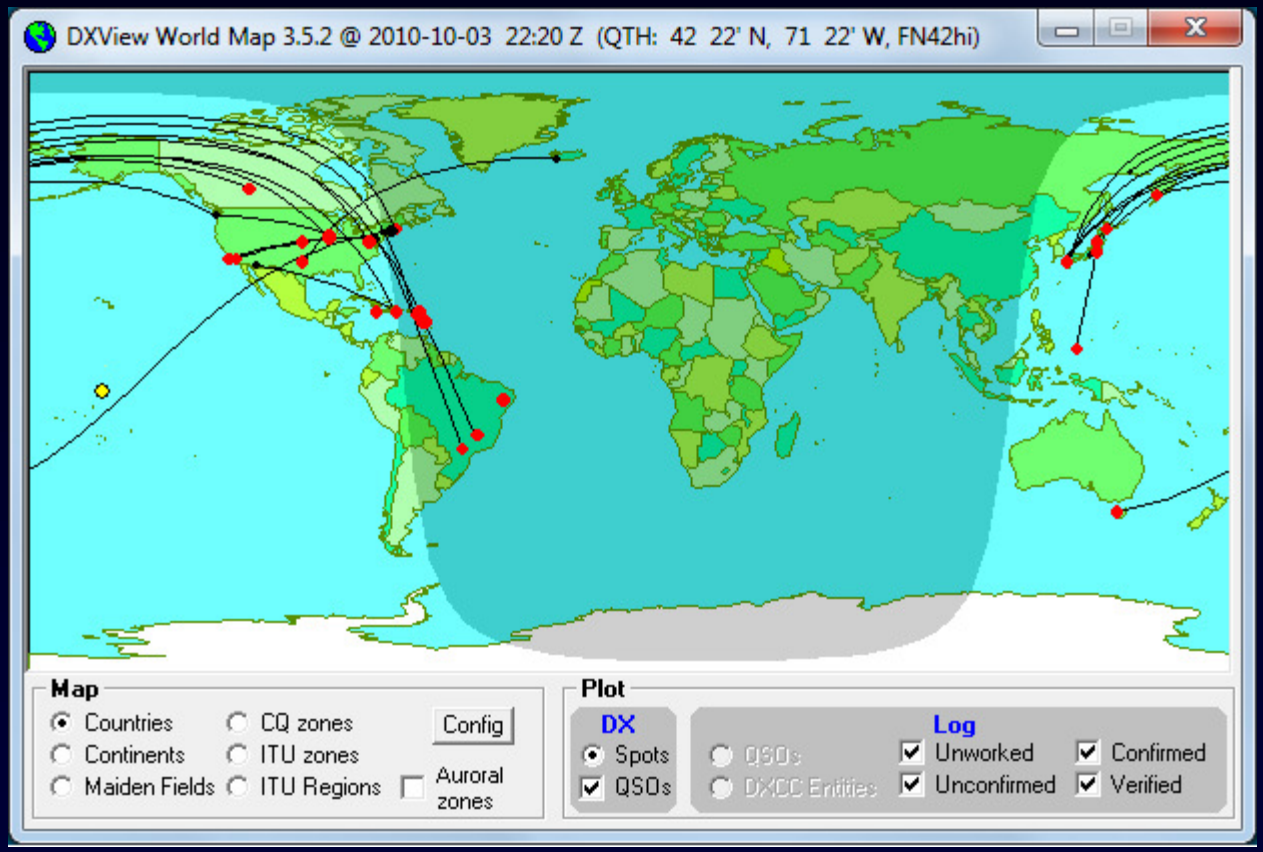
SpotCollector: Plotted 40m DX



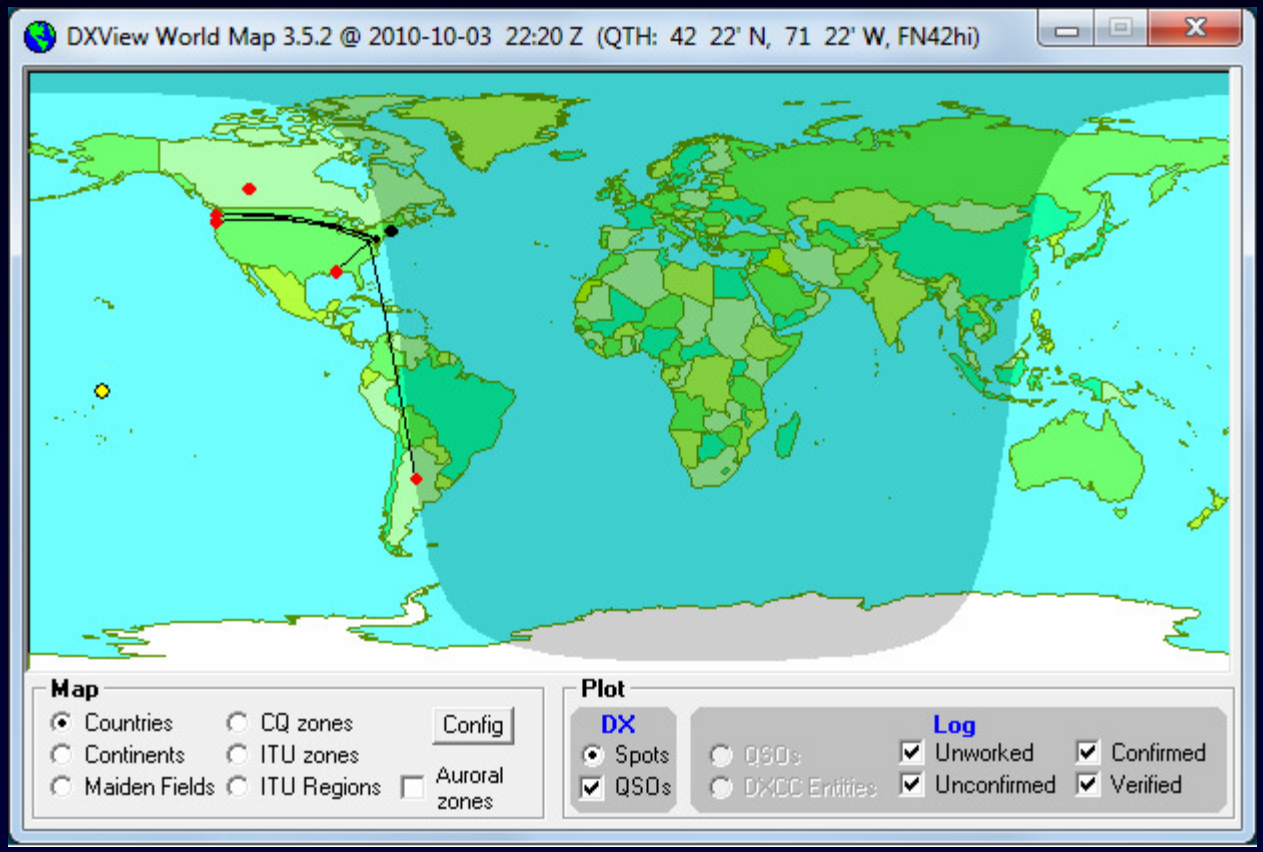
SpotCollector: Plotted 20m DX



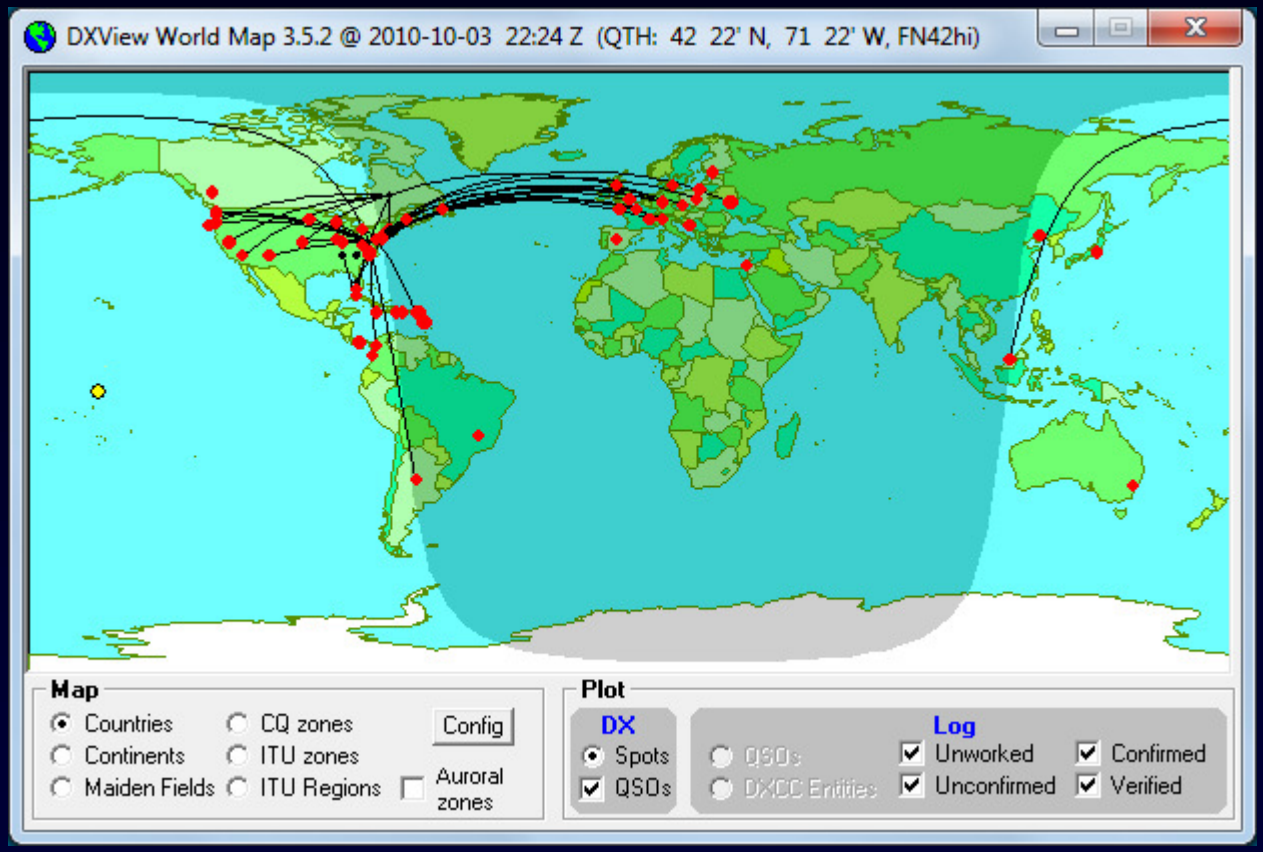
SpotCollector: Plotted 17m DX



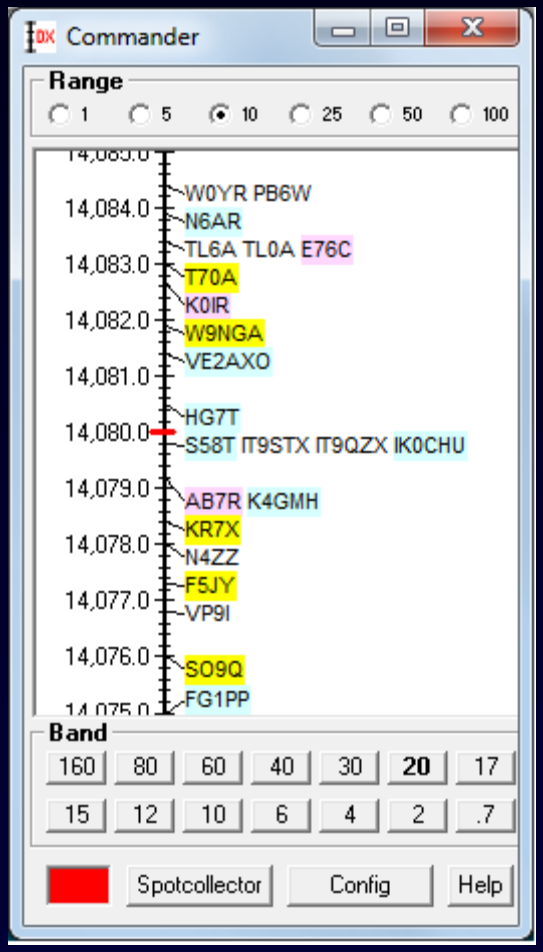
SpotCollector: Plotted 15m DX



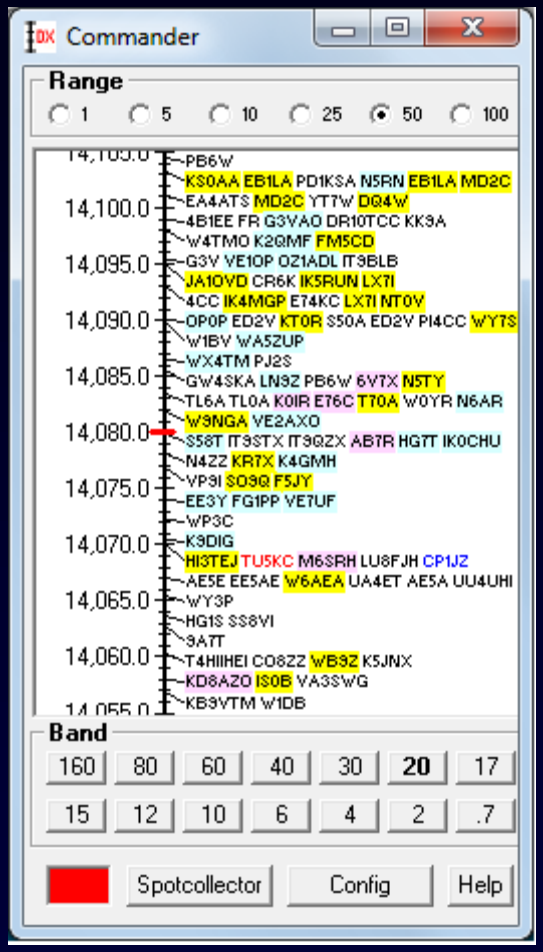
SpotCollector: Plotted DX spotted from NA-E



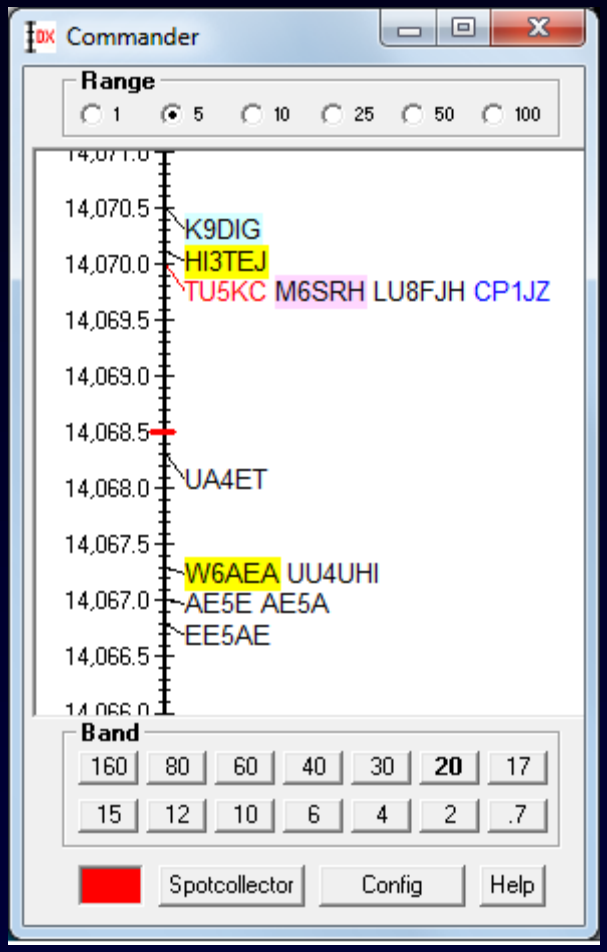
SpotCollector: DX on Commander's Bandspread



SpotCollector: DX on Commander's Bandspread



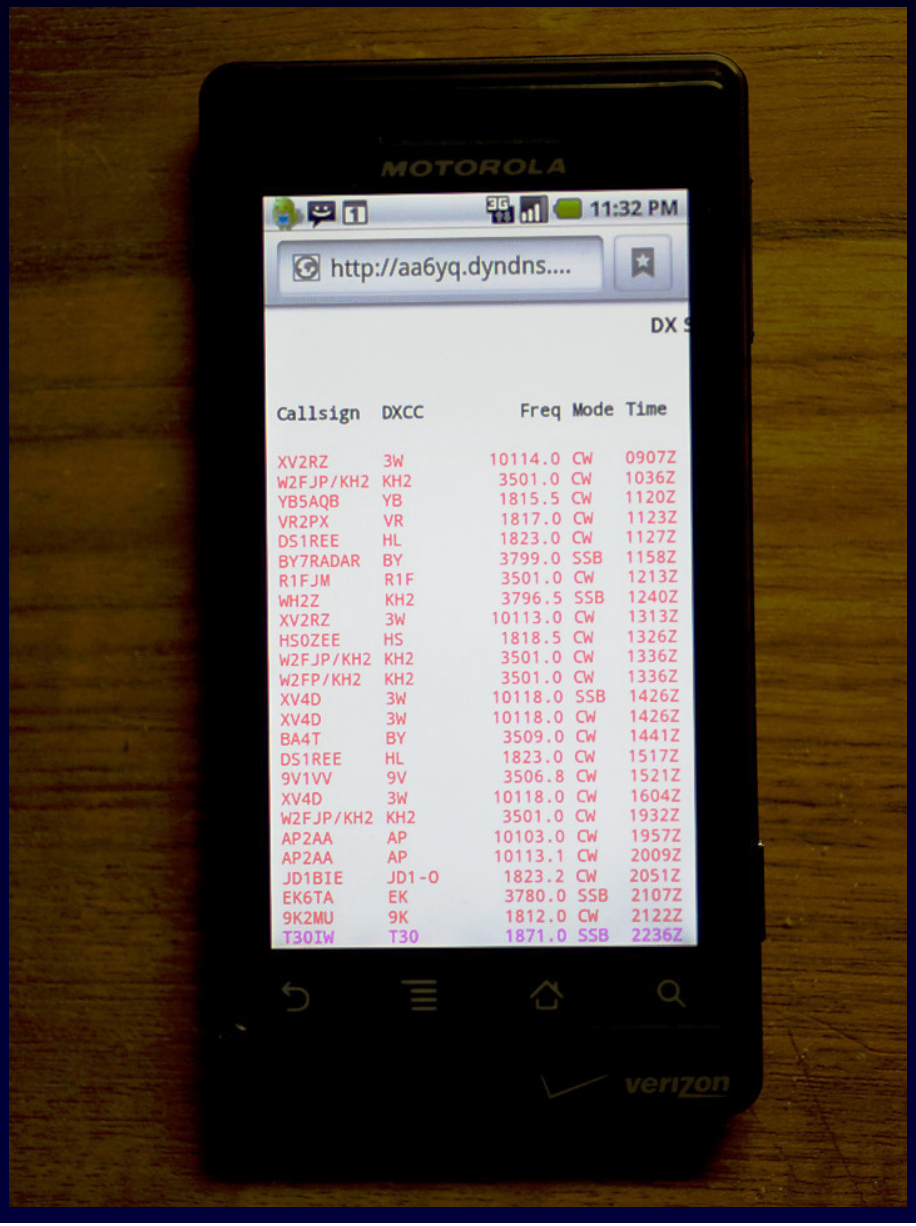
SpotCollector: DX on Commander's Bandspread



SpotCollector: DX Spot Database

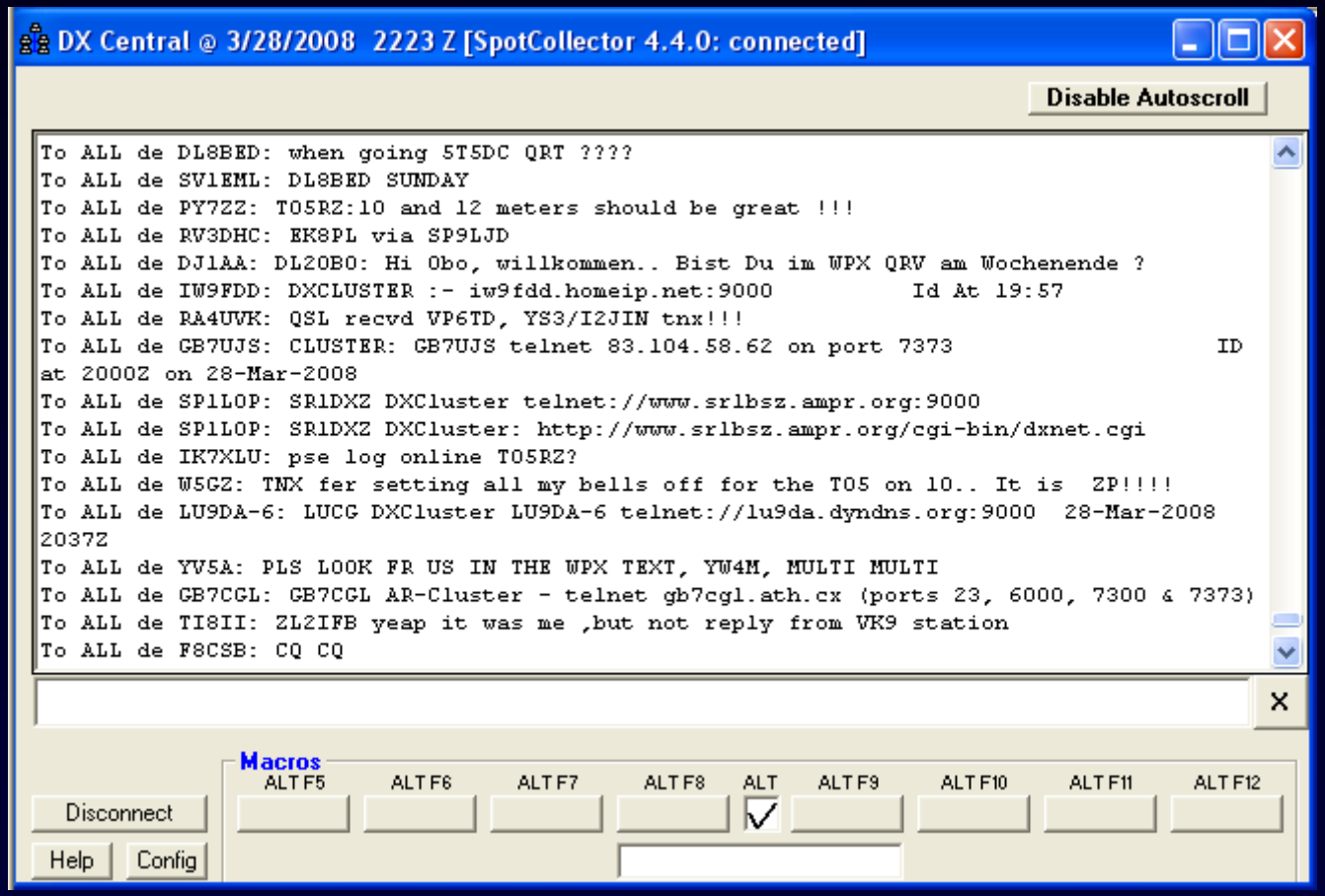
- Double-click Database, Map, or Bandspread to
  - QSY the transceiver (freq, mode, split, dual rcv, QSX)
  - Rotate the antenna
  - Populate
    - DXKeeper's Capture window
    - WinWarbler's QSO Info panel
- Announces needed spots via the soundcard
- Tracks statistics
  - by band
  - By continent
- Built-in web server for local spot distribution

SpotCollector: Built-in Web Server

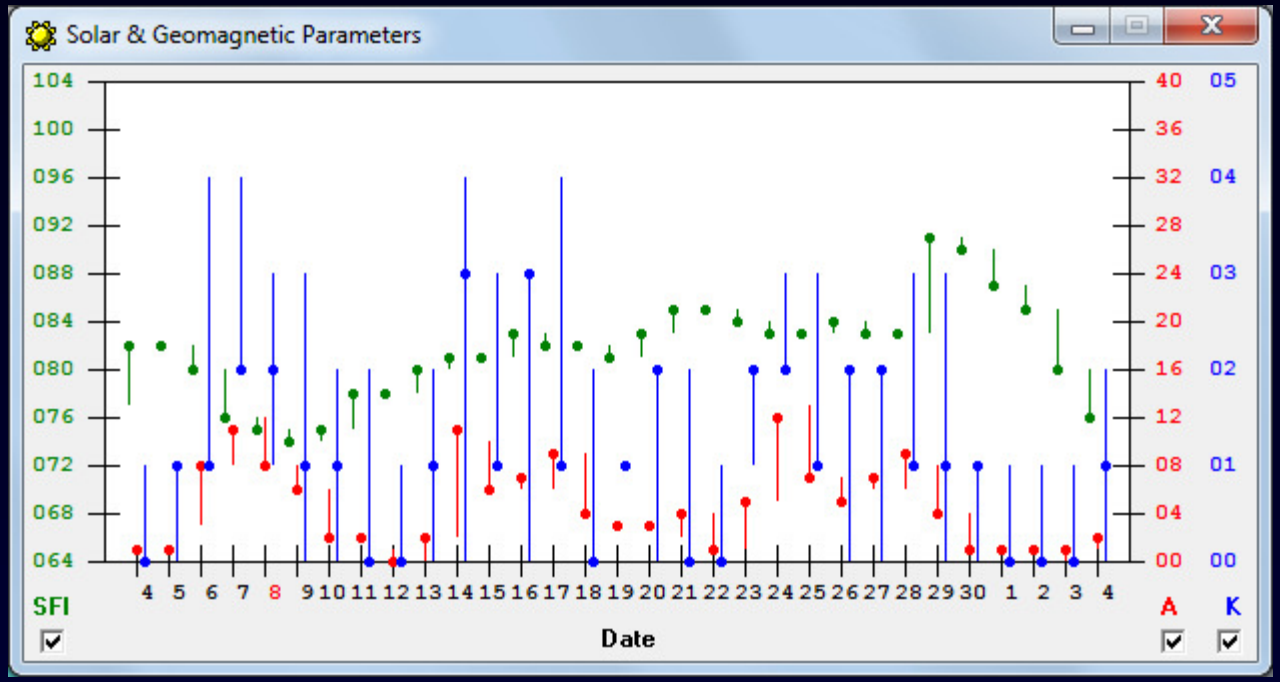


Droid Does DX!

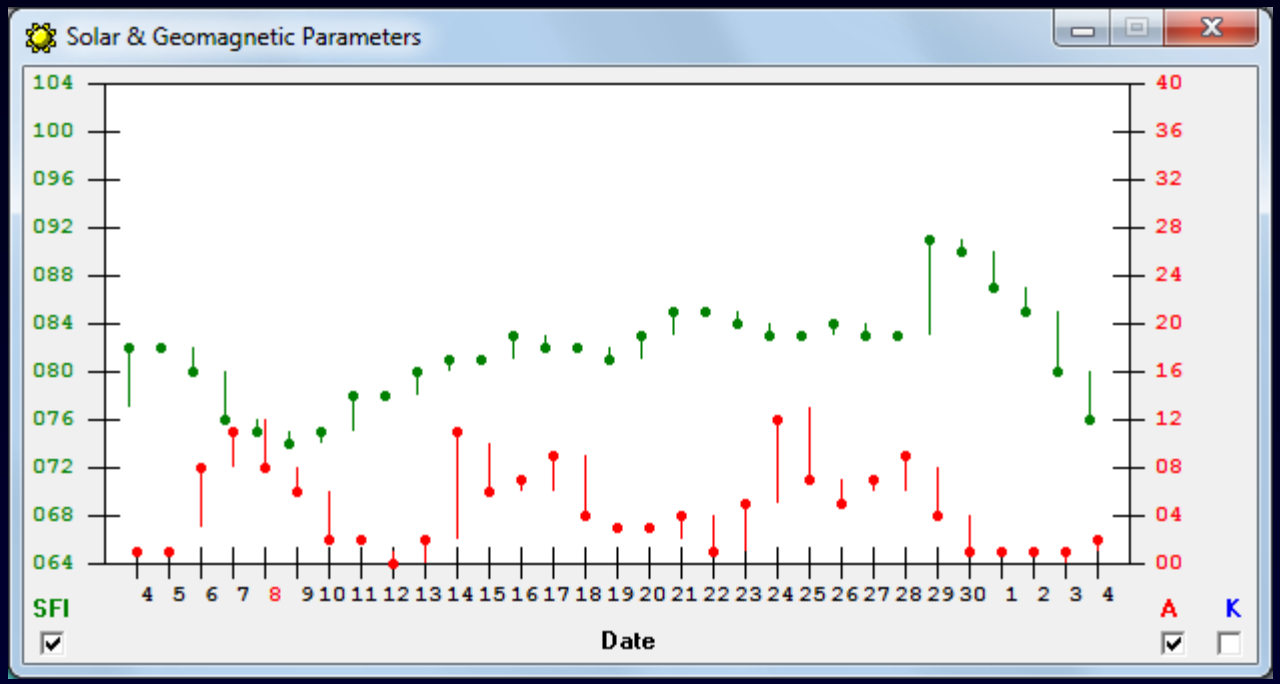
SpotCollector: Messages & Announcements



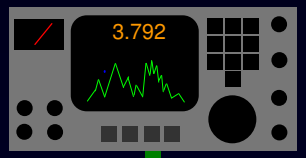
SpotCollector: WWV Spots (all parameters)

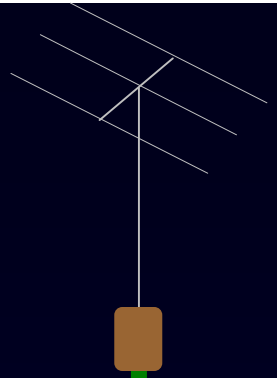


SpotCollector: WWV Spots (SFI & A only)



the DXLab Suite





WinWarbler

Commander

DXView

DXKeeper

SpotCollector

PropView

Pathfinder

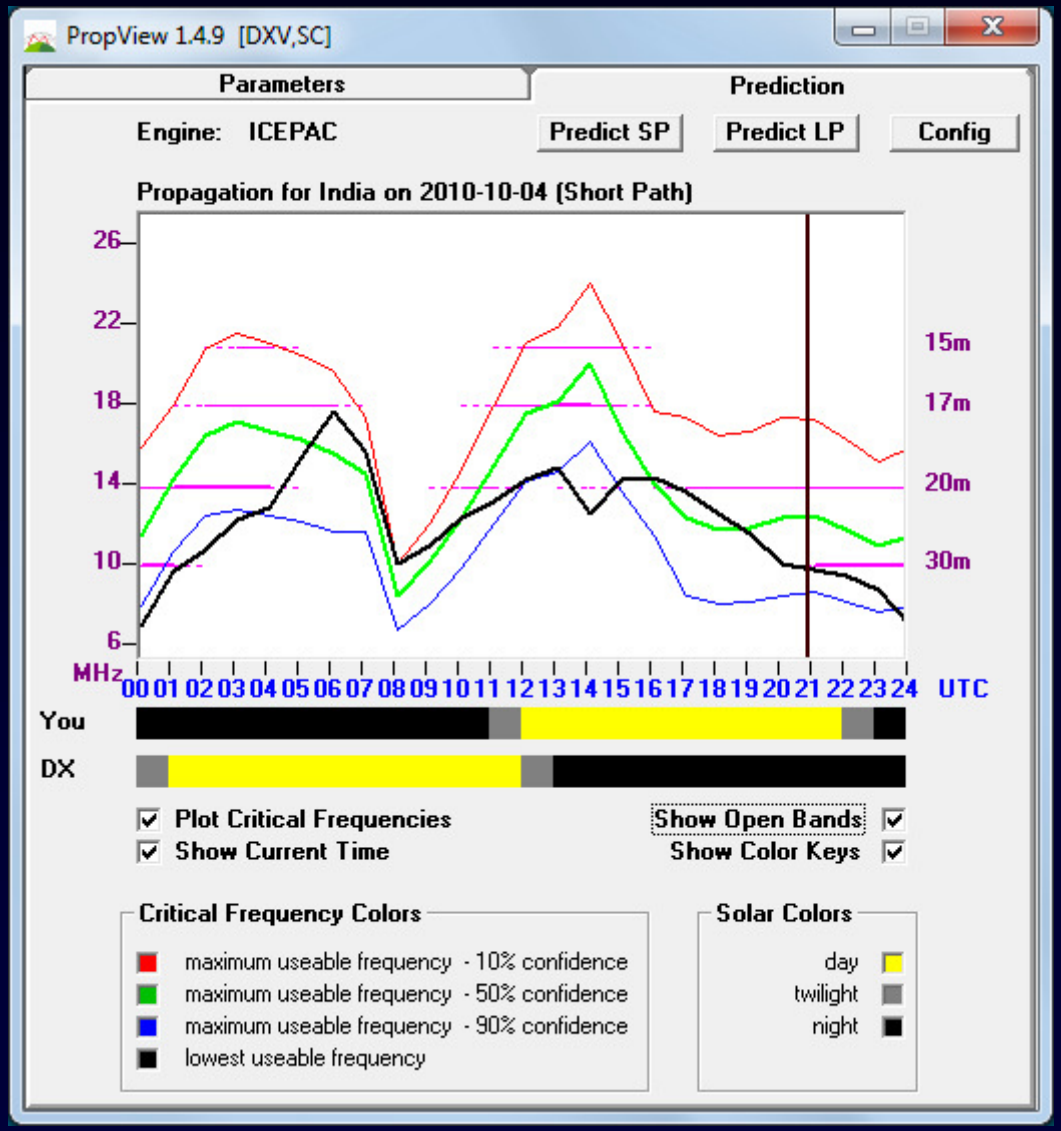
PropView

- Predicts propagation
- Monitors propagation

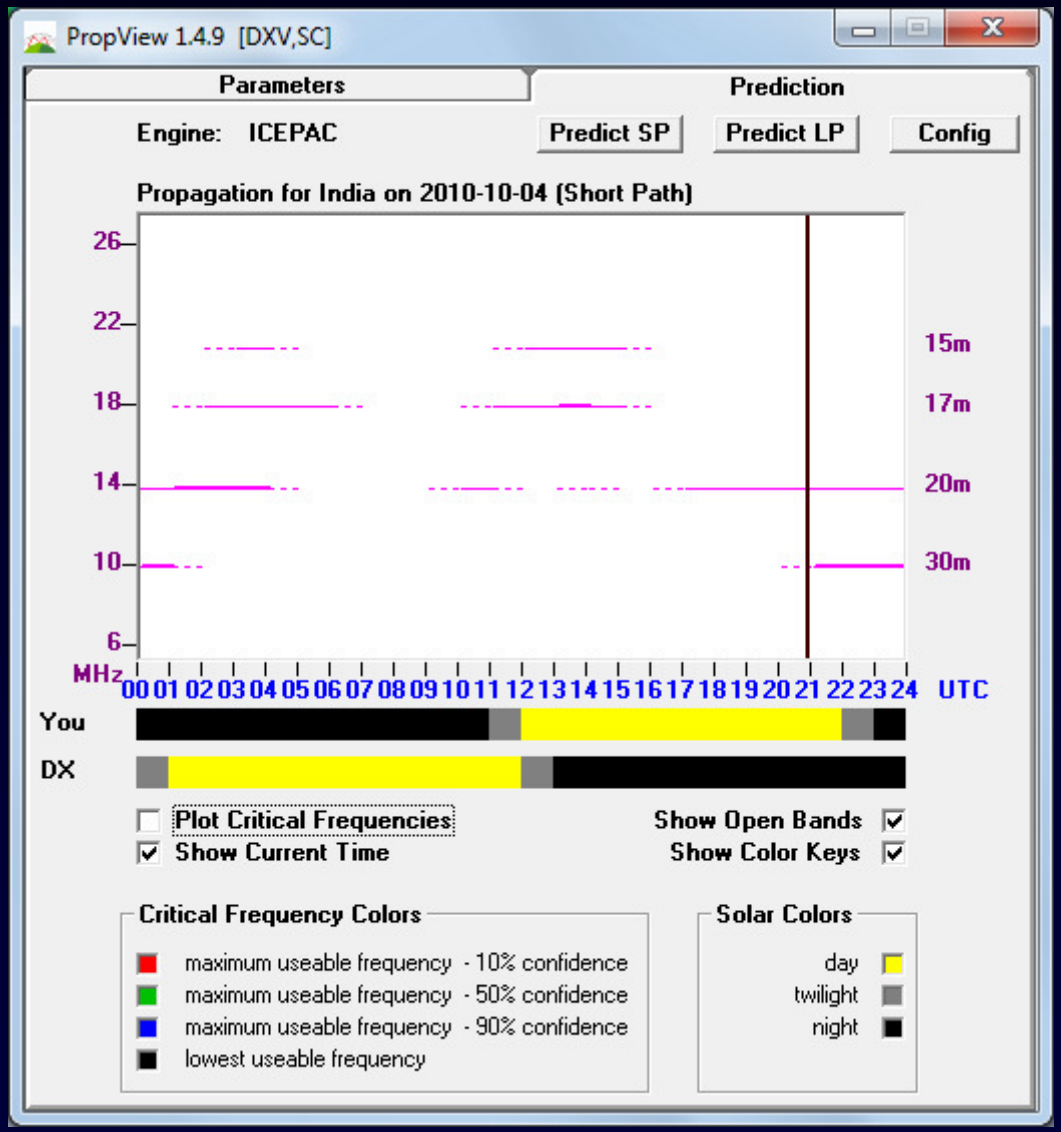
PropView: Propagation Prediction

- Includes three prediction engines
  - ICEPAC
  - IONCAP
  - VOACAP
- Gets solar flux and K-index from SpotCollector
- Gets locations from DXView
- Produces graphical prediction

PropView: Propagation Prediction



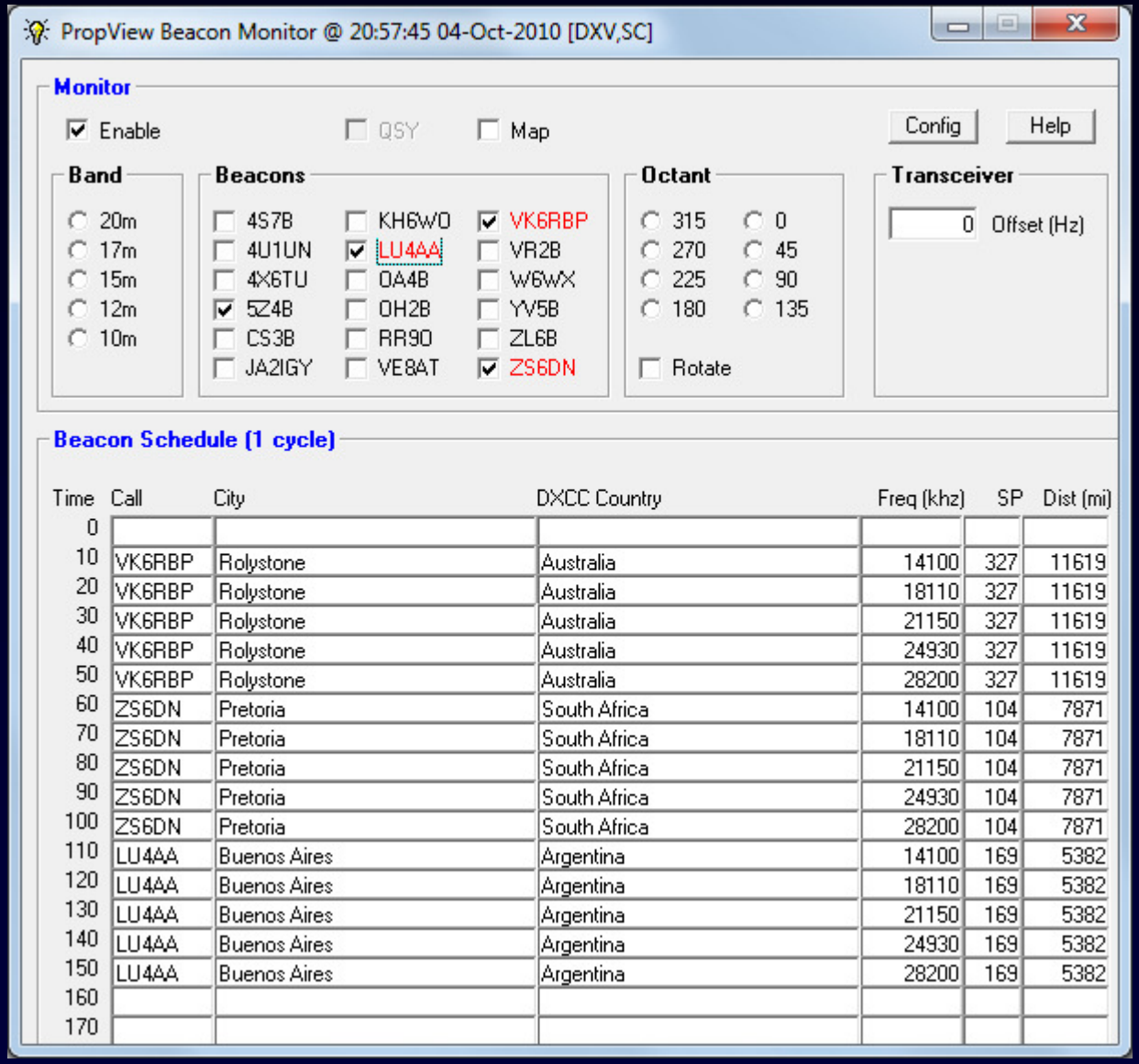
PropView: Propagation Prediction



PropView: Propagation Monitoring

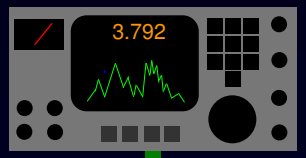
- Monitors NCDXF/IARU beacon network
- Builds beacon schedules
  - by band
  - by bearing
  - by specified beacons
- QSYs transceiver per beacon schedule
- Rotates antenna per beacon schedule

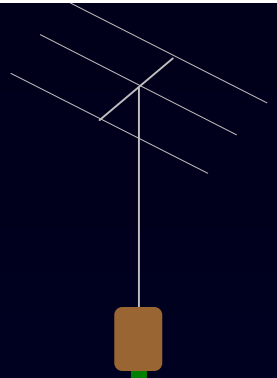
PropView: Propagation Monitoring



Time	Call	City	DXCC Country	Freq (khz)	SP	Dist (mi)
0						
10	VK6RBP	Rolystone	Australia	14100	327	11619
20	VK6RBP	Rolystone	Australia	18110	327	11619
30	VK6RBP	Rolystone	Australia	21150	327	11619
40	VK6RBP	Rolystone	Australia	24930	327	11619
50	VK6RBP	Rolystone	Australia	28200	327	11619
60	ZS6DN	Pretoria	South Africa	14100	104	7871
70	ZS6DN	Pretoria	South Africa	18110	104	7871
80	ZS6DN	Pretoria	South Africa	21150	104	7871
90	ZS6DN	Pretoria	South Africa	24930	104	7871
100	ZS6DN	Pretoria	South Africa	28200	104	7871
110	LU4AA	Buenos Aires	Argentina	14100	169	5382
120	LU4AA	Buenos Aires	Argentina	18110	169	5382
130	LU4AA	Buenos Aires	Argentina	21150	169	5382
140	LU4AA	Buenos Aires	Argentina	24930	169	5382
150	LU4AA	Buenos Aires	Argentina	28200	169	5382
160						
170						

the DXLab Suite





WinWarbler

Commander

DXView

DXKeeper

SpotCollector

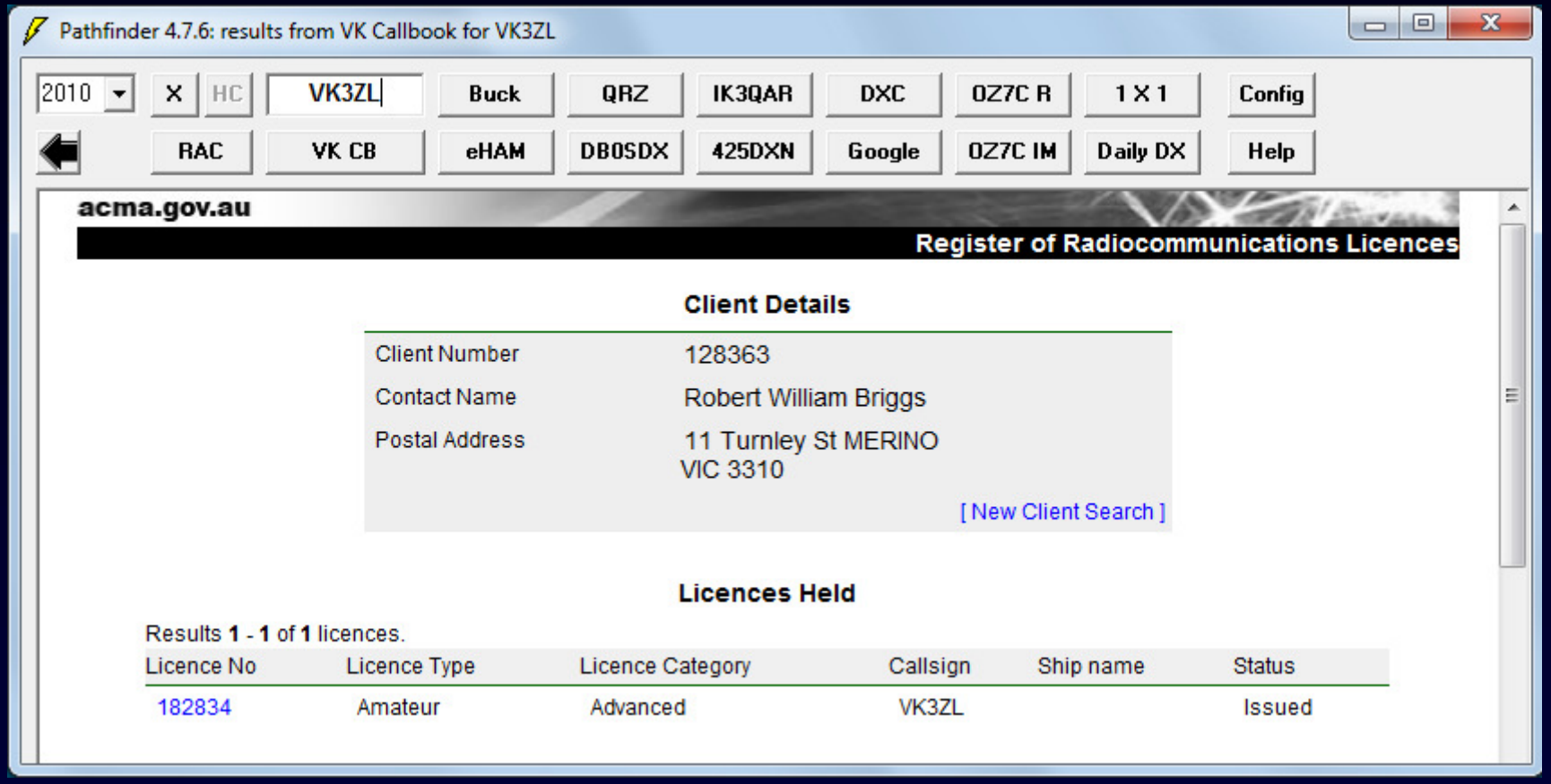
PropView

Pathfinder

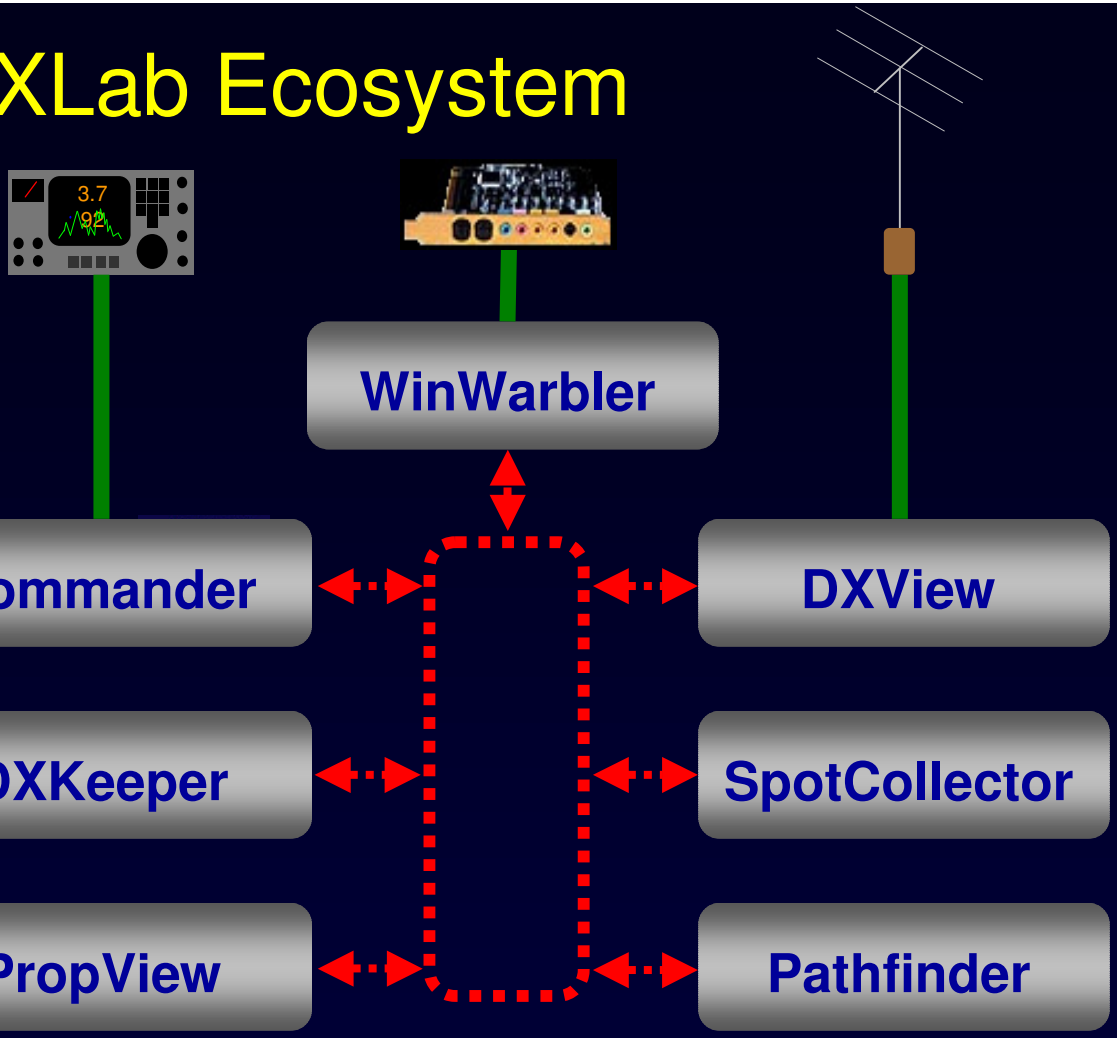
Pathfinder: QSO Information from the Web

- Sources
  - Country-specific callbooks (~80)
  - QSL sites (~40)
  - DX Summit spot archives
- 12 user-assignable search keys
- Captures callsigns selected via
  - DXView
  - DXKeeper
  - WinWarbler
  - SpotCollector

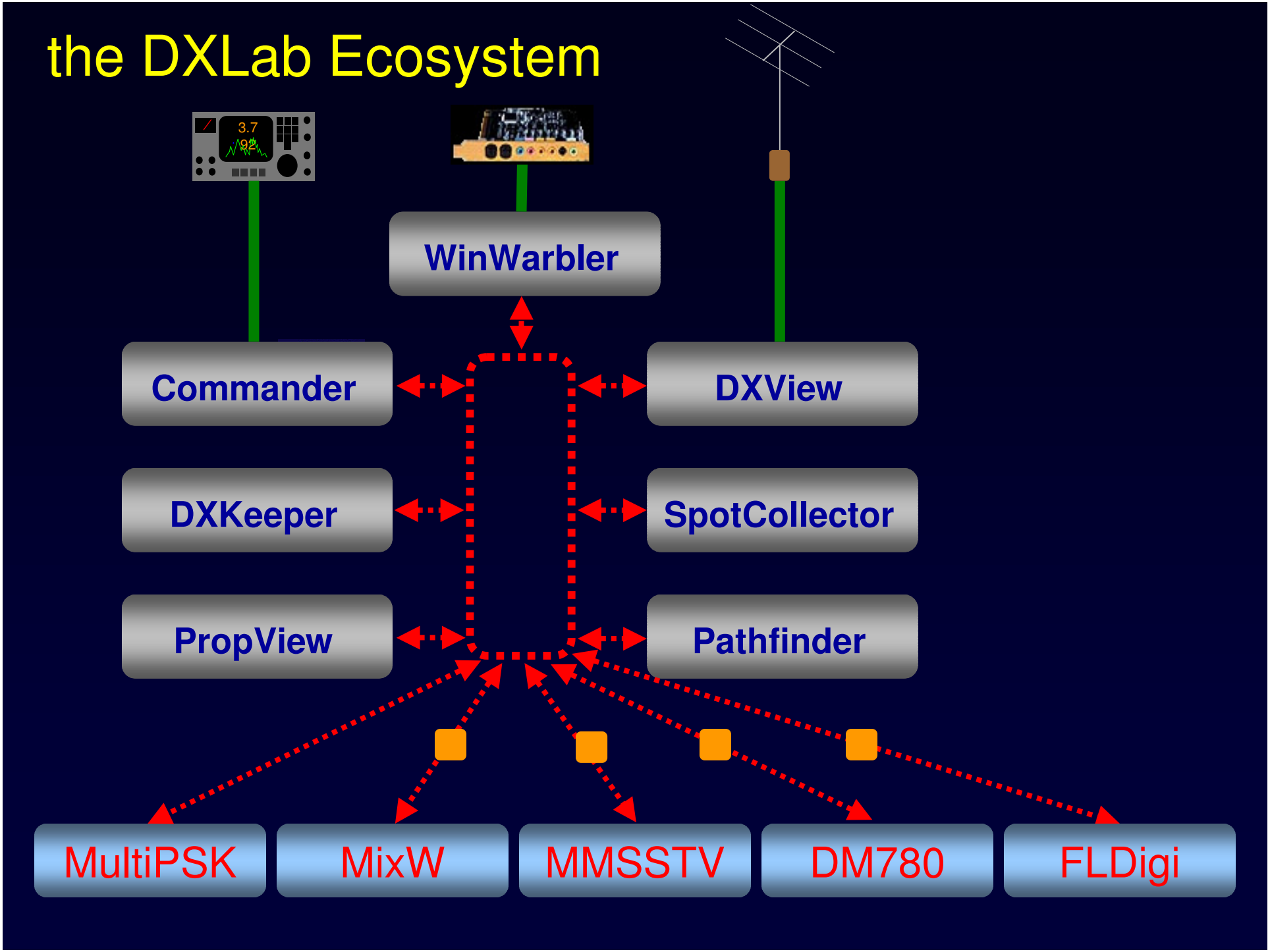
Pathfinder


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

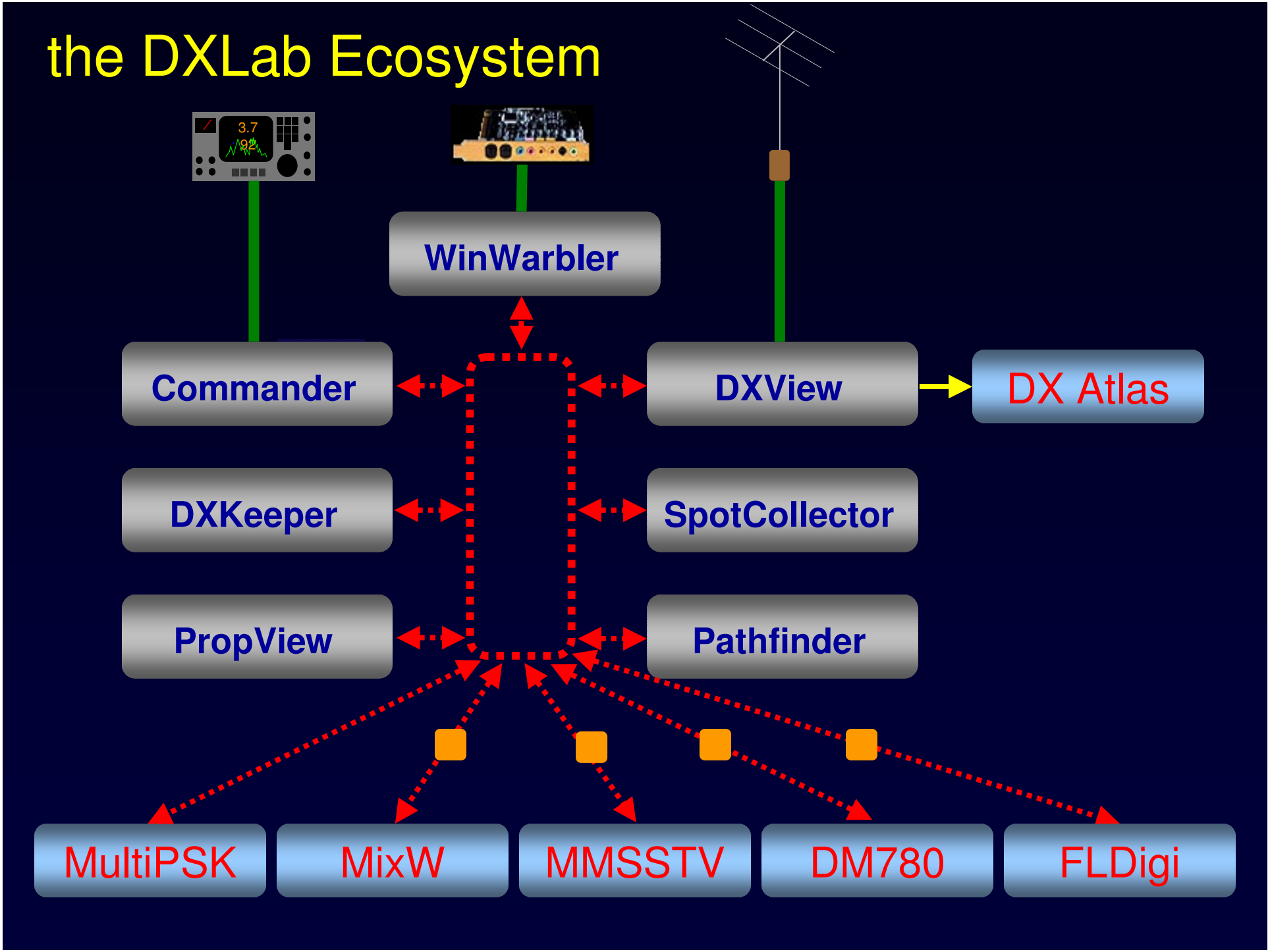
the DXLab Ecosystem



the DXLab Ecosystem



the DXLab Ecosystem



the DXLab Ecosystem

Interoperation

- MultiPSK
- MMSSTV
- MMVARI
- CWSkimmer
- DM780
- FLDigi
- IZ8BLY Hellschreiber
- Ham Radio Deluxe
- N1MM and N1MM Rotor
- WinContest
- DX Atlas($)
- LP StepLink ($)
- MixW($)

Add-ins

- Alpha 87a control
- BMUtil
- CW Skimmer
- DXLPlus
- Frequency/S-meter display
- HamSked DXing calendar
- SpotSpy
- Web-site generation

DXLab: Continuing Development

- Commander
  - Second Secondary CAT Port
- DXKeeper
  - More realtime award tracking
- DXView
  - Interoperation with Google Earth
- WinWarbler
  - Improve MMTTY's RTTY decoder
  - CW decoding
  - Additional digital modes
- PropView
  - Long-term beacon analysis

DXLab: Prerequisites

- Minimum (1 application)
  - 133 MHz Pentium
  - 64 MB DRAM
  - 800x600 SVGA monitor
  - Windows 98SE
- OK (all applications)
  - 600 MHz Pentium 2
  - 512 MB DRAM
  - 1280x1024 XVGA monitor
  - Windows 2000 or Windows XP
- Optimum (all applications)
  - 2 GHz dual-core
  - 2 GB DRAM
  - 1600x1200 XVGA monitor or multiple smaller monitors
  - Windows XP, Windows Vista, Windows 7 (32-bit or 64-bit)

www.dxlabsuite.com/download.htm

Downloading and In...

www.dxlabsuite.com/download.htm

dxl rss i iobi Fin MW K c wx wxa wxu NE Maine flights track Agility ist trffc Android Wiki Other bookmarks

Downloading and Installing DXLab Applications

DXLab applications run on **Windows NT**, **2000**, **XP**, **Vista**, and **7** in both 32-bit and 64-bit flavors. Some DXLab applications can be individually run on **Windows 95**, **98**, and **98SE**.

Using virtual machines, DXLab applications can also be run on **Linux** and **Macintosh**:

- DXLab on Linux
- DXLab on Macintosh

Getting Started with DXLab
Documentation
Availability Announcements
Bridges, Gateways, and Extenders
Distribution Sites
Articles and Presentations
DXLab Reflector

Before installing your first DXLab application, install the Launcher

The **DXLab Launcher** automates the installation of new DXLab applications and the upgrading of already-installed DXLab applications. If you're an aspiring DXLab user who has not installed any DXLab applications on your PC, or if you're a long-time DXLab user who has never installed the Launcher, then installing the Launcher will make it easy to install new DXLab applications and keep them up to date as upgrades are released. Clicking the **Install Launcher** button below will download and install the DXLab Launcher on your PC. Step-by-step guides to installing the Launcher are available in HTML for browsing and in PDF for printing.

Do not click the **Install Launcher** button if the Launcher is already installed on your PC. If you're not sure, here's how to check.

If the Launcher is already installed on your PC, you should determine if a newer version is available and, if so, upgrade it.

By default, each DXLab application will be installed in a subfolder of

```
c:\dxlab
```

but you can specify an alternate location if desired. The Launcher will ensure that each DXLab application is installed in a separate folder, e.g.

- `c:\dxlab\dxkeeper`
- `c:\dxlab\winwarbler`
- `c:\dxlab\pathfinder`

If you decide to install DXLab within `c:\program files\` or `c:\program files (x86)` then

- If your PC is running Windows 7, login to an account with Administrator privileges to install or run DXLab applications
- If your PC is running Vista, login to the account named Administrator to install or run DXLab applications

Install Launcher

DXLab: Better DXing Through Software