

# RUMped by DL2RUM

## Table of contents

General.....	6
Installation.....	6
Program.....	6
MySQL.....	6
Quick Start.....	7
The Main Logging Window.....	8
Previous QSOs (1).....	8
Partial Call Check, Similarly Call Check (2).....	9
Information about DXCC (3).....	10
Left Statistic Box (4).....	10
Right Statistic Box (5).....	10
QSO Data Input Fields (6).....	11
Mode Buttons (7).....	11
Contest Summary (7).....	11
Log Table (8).....	12
QSO Summary (9).....	12
Station Information (10).....	13
QSO Information (11).....	13
Split Readout (12).....	13
CW Echo (13).....	13
TX Indicator (14).....	13
The QSO Editor (not shown).....	14
The Menus.....	14
The RUMped Menu.....	14
About.....	14
Preferences.....	14
Quit RUMped.....	14
The File Menu.....	14
The Edit Menu.....	14
The Log Menu.....	15
New.....	15
Open.....	15
Export.....	15
Import.....	15
Backup Log.....	15
Restore Log.....	15
Clear Masks.....	15
150 up.....	16
150 down.....	16
Log at same time.....	16
Full Multi Check (Switchable).....	16
Show all TRCVRs (Switchable).....	16
Show prev. QSOs (Switchable).....	16
Similarly Call Check (Switchable).....	16
RX QTC.....	16
TX QTC.....	16

- The QSO Menu..... 17
  - Edit..... 17
  - Delete..... 17
  - Note..... 17
- The TRCVR Menu..... 17
  - Reset TRCVR..... 17
  - Band up..... 17
  - Band down..... 17
  - CW..... 17
  - RTTY..... 17
  - SSB..... 17
  - Keyboard Mode (Switchable)..... 18
  - Tune..... 18
- The CW Menu..... 18
  - Reset Keyer..... 18
  - CW Speed -2..... 18
  - CW Speed +2..... 18
- The RTTY Menu..... 18
  - Reset Modem..... 18
  - Transmit..... 18
  - Receive..... 18
  - TX Reverse (Switchable)..... 18
  - RX Reverse (Switchable)..... 19
- The BPSK Menu..... 19
  - Reset Modem..... 19
  - Transmit..... 19
  - Receive..... 19
- The Window Menu..... 19
  - Close..... 19
  - Hide..... 19
  - Main Logging..... 19
  - Full Log..... 19
  - Rate..... 19
  - QTCs..... 20
  - Continents..... 20
  - DXCCs..... 20
  - Multis..... 20
  - Calls..... 20
  - Notes..... 20
  - US-States..... 20
  - Terminal..... 20
  - DX Spots..... 20
  - LAN..... 20
  - Sun/Dist. Calculation..... 20
  - Sun/Dist. Table..... 21
  - DXCCs in Grayline..... 21
- The Memory Menu..... 21
- The Help Menu..... 21
  - Help Tags (Switchable)..... 21
- The Preference Window..... 22

General Tab.....22

TRCVR Tab.....23

CW Tab.....23

RTTY Tab.....25

Phone Tab.....25

BPSK and Hell Tab.....27

Frequencies Tab.....28

DX Cluster Tab.....29

Network Tab.....30

Other Windows, Tables and Requesters.....31

  New Log Requester.....31

  Open Log Requester.....31

  Log Export Requester.....32

    Cabrillo Export Requester.....33

    Stützerbach Export Requester.....34

  Log Import Requester.....35

  Send QTC Window.....36

  Receive QTC Window.....36

  Add Note To QSO Requester.....37

  Full Log Window.....37

  Rate Window.....38

  QTC Log Window.....39

  Continent Table.....40

  DXCC Table.....40

  Multiplier Table.....41

  Callsign Table.....41

  Notes Window.....42

  US-States Table.....42

  Terminal Window.....42

  DX Announcement Table.....43

  LAN Table.....44

  Sun and Distance Calculations Window.....44

  Sun and Distances Table.....45

  DXCCs in Gray Line Table.....46

Using RUMped.....47

  Basic (Phone) Operation.....47

  CW Operation.....47

  RTTY Operation.....48

  PSK Operation.....49

  Hellschreiber Operation.....49

  Transceiver Control.....49

  Contest Operation.....50

## Screen shoots

Screen shoot 1: Window 'New Log'.....7

Screen shoot 2: Previous QSOs.....8

Screen shoot 3: Main Logging Window, DX-pedition mode.....9

Screen shoot 4: Partial Call Check.....9

Screen shoot 5: Similarly Call Check.....9

Screen shoot 6: DXCC information.....	10
Screen shoot 7: Left statistic box.....	10
Screen shoot 8: Right statistic box.....	10
Screen shoot 9: QSO Input Fields.....	11
Screen shoot 10: Mode buttons.....	11
Screen shoot 11: Contest Summary.....	11
Screen shoot 12: Log Table.....	12
Screen shoot 13: Previous QSOs.....	12
Screen shoot 14: QSO summary in contest mode (WPX).....	12
Screen shoot 15: QSO Summary in DX-ped. mode.....	12
Screen shoot 16: Station Info.....	13
Screen shoot 17: QSO Information.....	13
Screen shoot 18: Split Readout.....	13
Screen shoot 19: CW Echo.....	13
Screen shoot 20: TX Indicator.....	13
Screen shoot 21: QSO Editor.....	14
Screen shoot 22: Preferences General Tab.....	22
Screen shoot 23: Preferences TRCVR Tab.....	23
Screen shoot 24: Preferences CW Tab.....	24
Screen shoot 25: Preferences RTTY Tab.....	25
Screen shoot 26: Preferences Phone Tab.....	26
Screen shoot 27: Preferences BPSK Tab.....	27
Screen shoot 28: Preferences Frequency Tab.....	28
Screen shoot 29: Preferences DX Cluster Tab.....	29
Screen shoot 30: Preferences Network Tab.....	30
Screen shoot 31: New Log Requester.....	31
Screen shoot 32: Open Log Requester.....	32
Screen shoot 33: Log Export Requester.....	32
Screen shoot 34: Cabrillo Requester.....	33
Screen shoot 35: Stützerbach Requester.....	34
Screen shoot 36: Log Import Requester.....	35
Screen shoot 37: ADIF Import Progress Box.....	35
Screen shoot 38: Send QTC Window.....	36
Screen shoot 39: Receive QTC Window.....	36
Screen shoot 40: Add a Note Window.....	37
Screen shoot 41: Full Log Window.....	37
Screen shoot 42: QSOs per day Window.....	38
Screen shoot 43: QSOs per hour Window.....	39
Screen shoot 44: QTC Window (Photo not taken from a real contest).....	39
Screen shoot 45: Continent Table.....	40
Screen shoot 46: DXCC Table.....	40
Screen shoot 47: Multiplier Table.....	41
Screen shoot 48: Call Window.....	41
Screen shoot 49: Notes Window.....	42
Screen shoot 50: US-States Table.....	42
Screen shoot 51: Terminal Window disconnected.....	42
Screen shoot 52: Terminal Window connected.....	43
Screen shoot 53: DX Spot Table.....	43
Screen shoot 54: LAN Table.....	44
Screen shoot 55: Direction, Distance and Sun Calculations Window.....	44

Screen shoot 56: Distance, Direction and Sun Table.....45  
Screen shoot 57: DXCCs in Gray Line Table.....46  
Screen shoot 58: RTTY or PSK Output.....48

## General

RUMped is logging tool for DX-peditions and contests. It allows real time logging, transceiver control and interfaces with other hard- and software to allow Phone, CW, RTTY, PSK and Hellschreiber operations. You can import logs using the ADIF format and export logs as ADIF, simple text, Cabrillo, Stützerbach (STF) and other formats. To use RUMped you need a MySQL server. This allows a Multi-Multi operation and you have a very reliable and safe database.

**RUMped was made for my requirements, has features I use and supports hardware I own.** Since I haven't a Yaesu transceiver handy, I can not support this TRX, because I can't test it. But feel free to contact me to report bugs, or when ever you have an idea to improve it. For the latest new visit: <http://www.dl2rum.de/rumsoft>

## Installation

### Program

After unzipping the downloaded file you will get a single folder. Move it where ever you want, preferred to your application folder. Following files are included and are required to run RUMped.

- RUMped.app            the program itself
- DXCC.rsd             database for countries according the DXCC
- WAE.rsd              database for additional countries used for WAE and WAG contests
- MasterDat.rsd       database containing active callsigns, used for partial call and similarly call check
- US\_States.text      text file containing info about US-states and VE-provinces

**It is important to keep these files inside the folder!**

Following files and folders are included, but these not direct required to to run RUMped:

- Docs folder           containing documentations about RUMped and and others
- RUMpedQSL            A separate application for QSL handling and printing
- EditDXCC             Program to edit the DXCC country list
- EditWAE              program to edit the additional WAE country list

RUMped will create one file for its own use in the users home directory/Library/Preferences named 'RumDX.plist'. This is a standard Apple .plist file to save most of the user settings.

## MySQL

Since I'm not able to program an own database with high performance, I decided to use MySQL. You can download it here for free:

<http://mysql.org/downloads/mysql/5.0.html#downloads>

Scroll down the page to the Mac section and choose the right package for you. Only the standard version is required.

Also you should install a tool to manage your databases and users. I would recommend this:

<http://www.mysql.com/products/tools/administrator/index.html>

It would be helpful to make you familiar with the basics of MySQL. But don't be worry: When you

have it installed and got it running, you never have to touch it again. MySQL is just a server in the background. After installation there is one active user only, named 'root' with no password given. There is one big advantage: You can access your logs from everywhere in the local net or even from the internet. Also you can run a multi station, only one computer needs the MySQL installation.

For advanced MySQL users just for info: For the users are the following privileges required:

- Select
- Update
- Delete
- Show Databases
- Execute
- Insert
- Create – only to create a new log

Each log file has its own database in MySQL. When the logged in user has not all the required privileges set, RUMped may react not in the expected way.

## Quick Start

First make sure your MySQL server is running. In your System preferences you can find a MySQL icon. Here you can check the status and start/stop the server. Let the server start at computer start up.

When starting the program for the first time, RUMped will complain the missing Preference file and the preference window opens. Make your entries in the 'General' tab and press the 'Save' button. In RUMped select from the Menu --> Log --> New... In the new opening window enter following:

Host: localhost

Port: 3306

User: root

Password:

Contest: DX Ped

Filename: TestLog

Callsign: DL2RUM      Locator: J062UG

Cancel      Okay

Screen shoot 1: Window 'New Log'

When you have already a MySQL account change the inputs to your requirements.

Host: localhost (When running on the same computer)  
 Port: 3306 (default port for MySQL)  
 User: root (the only one after a new installation of MySQL)  
 Password: let it empty, no password required after a new installation of MySQL  
 Select a contest from the popup menu. Enter a file name, do not use '-'. Also other special characters could cause problems. Maybe you want to name your log "TestLog" or something like this. Enter your callsign and your locator. Depending on the selected contest, other inputs should be required. (DXCC, zone....)  
 Press 'Okay' to create the log and to close the window.

When you get an error message, there is no connection to the database or you have not the required privileges. Refer to the error message.

Go to Menu --> RUMped --> Preferences... The preference window will open, select the first tab (General) to set at least your time zone (UTC Offset), a station name and the operator name. Press the 'Save' button to exit. That's all. Now you should be able to log. Just type a callsign into the pink field and press a 'Enter' key. You have logged your first QSO.

When you are the only one user on your computer and you are not connected to the internet you don't need to change something in MySQL for your first steps with RUMped. Later on it is strongly recommended to set a password at least for the user 'root'.

## The Main Logging Window

Most of your time you will work with this window. The layout may change slightly, depending on the contest you are working in.

The Main Logging Window will show up after program start and is always open. You can hide it, but to close it you have to quit RUMped. The window is named after your MySQL log name, the host name, where the server is running on and the contest name.

### Previous QSOs (1)

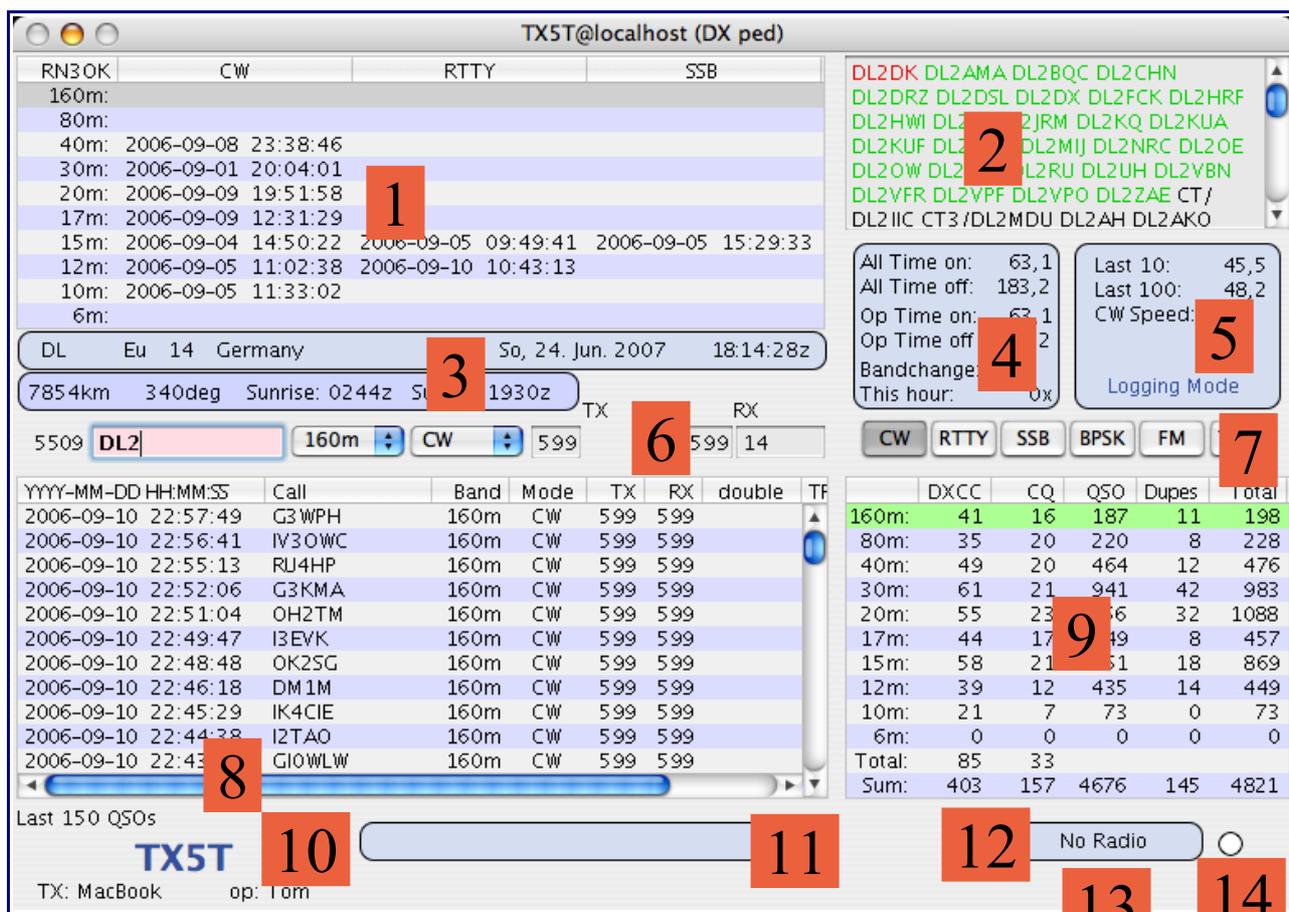
1

After entering a callsign and pressing the Tab key you can see the previous QSOs in an overview. The date and time for the first found QSO on each band in the three main modes are shown.

DL7CM	CW	RTTY	SSB
160m:	2006-09-06 22:03:53		
80m:	2006-09-06 20:40:00	2006-09-09 21:40:59	
40m:	2006-09-02 20:48:26		
30m:	2006-09-01 16:32:33		
20m:	2006-09-08 13:31:59		
17m:	2006-09-06 11:18:53		
15m:	2006-09-04 10:46:45		
12m:	2006-09-10 09:56:26	2006-09-10 11:04:49	2006-09-10 12:04:02
10m:			
6m:			

Screen shoot 2: Previous QSOs

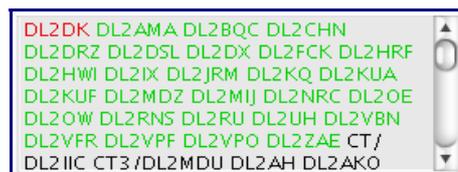
In the upper left hand corner the related callsign is written. The background can be colour coded when the option 'Full Multi Check' is set. (Select in Menu --> Log --> Full Multi Check) The red background indicates that this station would represent a new multiplier on this band/mode. Green Colour means, multi always worked. This feature is not in all contests available, when it doesn't make sense. In the DX-pedition mode a DXCC is assumed as multi. In the example above you see the 11 QSOs with DL7CM and you see that the DXCC DL was not worked on 6m yet. In a contest this may be helpful to ask a station for QSY.



Screen shoot 3: Main Logging Window, DX-pedition mode

### Partial Call Check, Similarly Call Check (2)

When you have typed in 3 or more characters in the pink call field this box shows all callsigns with these characters included. In this example all found calls with 'DL2' are shown. It is allowed to insert a '%' as joker!



Screen shoot 4: Partial Call Check

Red means: Double, found in log and worked this callsign before on this band and in this mode

Green means: callsign found in the log, but other band/mode.

Black means: callsign not found in log, but in the 'MasterDat.rsd' file.

When the option Menu --> Log --> Similarly Call Check is set after pressing the 'Space' bar or the 'Tab' key this box will show callsigns, which are similar with the entered one. The log and the MasterDat is checked and the output is always in blue. In this example 'DL2RUM' was entered.

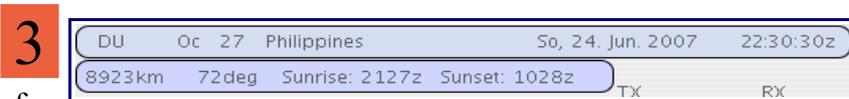


Screen shoot 5: Similarly Call Check

The partial- and similarly call checks are very powerful tools under hard operating conditions, when you can get only parts of a callsign. You can double click a call to take it over into the pink call field.

### Information about DXCC (3)

When you have typed in 2 or more characters into the pink call field, RUMped determines the DXCC country for this call. In the upper box you see:



Screen shoot 6: DXCC information

the main prefix, continent, cq (or ITU in some contests) zone, country name, current date and time. The date is written in the format you have selected as 'Mid' in your computers Preferences program in the country pane. The time comes from the computer, where the MySQL server is running +/- the UTC Offset you have selected in the RUMped preferences. Only this computer clock is used to ensure the log is in chronological order.

The lower box shows the distance and heading from your location (WW Locator set in the RUMped preferences) to this country. Further you see the times for sunrise and sunset for this location.

### Left Statistic Box (4)

Row 1: Total operating time in hours (without breaks) from the whole log

4

Row 2: Cumulated break times in hours from the whole log

*A break is assumed when the time between two subsequent QSOs is greater than 10 minutes.*

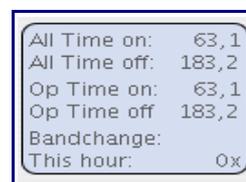
Row 3: Same as Row 1, but only for the current operator

Row 4: Same as Row 2, but only for the current operator

Row 5: Time since the last band/mode change (up to ten hours only)

Row 6: Shows the band/mode changes in the present hour.

*The band change statistics are 'contest sensitive'. In some contests in single mode it is allowed to change the band/mode how often you want to work a new multiplier. These changes will NOT be counted.*



Screen shoot 7: Left statistic box

### Right Statistic Box (5)

Row 1: Short term QSO rate (last 10 QSOs) in QSOs per hour

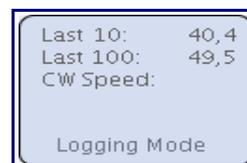
5

Row 2: Long term QSO rate (last 100 QSOs) in QSOs per hour

Row 3: Selected CW speed in words per minute, when a keyer is connected

Row 4: Numbers of available QTCs, only visible in WAEDC contest

Bottom: Logging Mode or Keyboard Mode



Screen shoot 8: Right statistic box

*In keyboard mode each pressed key will be send out. Only available in CW, RTTY and PSK*

## QSO Data Input Fields (6)

From the left to the right you see the QSO number, field for callsign input, popup menu for the band, popup menu for the mode, field for send rst, field for send control number (only seen in a contest) field for received rst and field for received control number. With the 'Space' bar you can toggle between the callsign field and the received number field. Using the 'Tab' key you can circle through the fields: call --> received number --> received rst --> send rst --> call. You will not go through the send number field, since it is fixed or automatically incremented. Of course, all the time you can use the mouse to select any field.

6



Screen shoot 9: QSO Input Fields

In DX-ped. mode the received control number field can be considered as a cq-zone field.

There are some text commands available, which you have to enter into the call field and confirm with the 'Enter' key.

- a number: when it can be interpreted as a valid frequency (in KHz), the band and mode in the log will be changed. When a transceiver is connected, these data will be set to both VFOs
- '-' (minus) toggles split on/off
- 'OP:' followed by a name or callsign etc. for quick operator change, after 'OP:' lower case letters are enabled

## Mode Buttons (7)

*DX-pedition mode only*

7



Screen shoot 10: Mode buttons

These buttons are to select the mode, which shows up in the QSO summary in the table(9) below. After logging a QSO the table will be recalculated. When you have performance problems just select an other mode than you are operating.

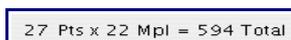
*When pressing a button your operating mode (log and TRCVR) will not be changed! When you change your operating mode, the table will also switch to this mode. Except you have selected 'Total'*

## Contest Summary (7)

*Contest mode only*

Here you see your QSO points, your number of multipliers and your total points.

7



Screen shoot 11: Contest Summary

### Log Table (8)

In this table you see the 150 latest QSOs. Please note, that the most recent QSO stands in the upper line. You can navigate through the full log using the Menu --> Log --> 150 up/150 down

8

Menu --> Log --> Clear Masks will bring up the 150 most recent QSOs again.

YYYY-MM-DD HH:MM:SS	Call	Band	Mode	TX	RX	double	TF
2006-09-10 22:57:49	G3WPH	160m	CW	599	599		
2006-09-10 22:56:41	IV3QWC	160m	CW	599	599		
2006-09-10 22:55:13	RJ4HP	160m	CW	599	599		
2006-09-10 22:52:06	G3KMA	160m	CW	599	599		
2006-09-10 22:51:04	OH2TM	160m	CW	599	599		
2006-09-10 22:49:47	I3EVK	160m	CW	599	599		
2006-09-10 22:48:48	OK2SG	160m	CW	599	599		
2006-09-10 22:46:18	DM1M	160m	CW	599	599		
2006-09-10 22:45:29	IK4CIE	160m	CW	599	599		
2006-09-10 22:44:38	I2TAO	160m	CW	599	599		
2006-09-10 22:43:50	GI0WLW	160m	CW	599	599		

Screen shoot 12: Log Table

In Multi/Multi using Menu --> Log --> Show all TRCVRs you can select, if you want to see the log from all transceivers, or only QSOs from the station you are working from. You can move the horizontal scrollbar full to the right to see which station was making the QSOs. In the lower left hand corner you see an info which QSOs are shown.

When you have set the option in Menu --> Log --> Show prev. QSOs you get a list with all QSOs from the station in the call field after pressing the 'Space' or the 'Tab' key.

YYYY-MM-DD HH:MM:SS	Call	Band	Mode	TX	RX	double	TF
2006-09-10 12:04:02	DL7CM	12m	SSB	59	59		M
2006-09-10 11:04:49	DL7CM	12m	RTTY	599	599		M
2006-09-10 09:56:26	DL7CM	12m	CW	599	599		M
2006-09-09 21:40:59	DL7CM	80m	RTTY	599	599		M
2006-09-08 13:31:59	DL7CM	20m	CW	599	599		M
2006-09-06 22:03:53	DL7CM	160m	CW	599	599		M
2006-09-06 20:40:00	DL7CM	80m	CW	599	599		M
2006-09-06 11:18:53	DL7CM	17m	CW	599	599		M
2006-09-04 10:46:45	DL7CM	15m	CW	599	599		M
2006-09-02 20:48:26	DL7CM	40m	CW	599	599		M
2006-09-01 16:32:33	DL7CM	30m	CW	599	599		M

Screen shoot 13: Previous QSOs

### QSO Summary (9)

9

	DXCC	CQ	QSO	Dupes	Total
160m:	41	16	187	11	198
80m:	35	20	220	8	228
40m:	49	20	464	12	476
30m:	61	21	941	42	983
20m:	55	23	1056	32	1088
17m:	44	17	449	8	457
15m:	58	21	851	18	869
12m:	39	12	435	14	449
10m:	21	7	73	0	73
6m:	0	0	0	0	0
Total:	85	33			
Sum:	403	157	4676	145	4821

Screen shoot 15: QSO Summary in DX-ped. mode

	Multis	QSOs	Dupes	Total	Points
160m:	0	0	0	0	0
80m:	3	0	3	18	
40m:	113	2	115	678	
30m:					
20m:	164	3	167	476	
17m:					
15m:	1018	26	1044	2212	
12m:					
10m:	203	3	206	609	
6m:					
Total:					
Sum:	196	1501	34	1535	3993

Screen shoot 14: QSO summary in contest mode (WPX)

These table gives you an overview of your QSOs. In the DX-ped. mode only the QSOs in the mode selected above the table are shown. In the contest mode all QSOs are always shown. The layout will change with the contest. The active band is shown in green.

### Station Information (10)

In this section you see your callsign. When operating, I'd like to see the callsign in front of me, that's why it is written in large letters. On the left hand side you see your station name, for multi transceiver operation. Choose a name what ever you want, but make sure it is different from others. A good practice could be to name your stations 'Running station' and 'Multi station', or 'Room 1023' and 'Room 1024' when operating from a hotel. The name or call from the current operator you see on the right hand side of the screen shot. The station- and the op name will be saved within each QSO. You can change the used callsign, station name and operator name in the 'General' tab in the 'Preferences' window. Just for a operator change type in the pink call field 'OP:' followed by the new op and press the 'Return' or 'Enter' key.

10

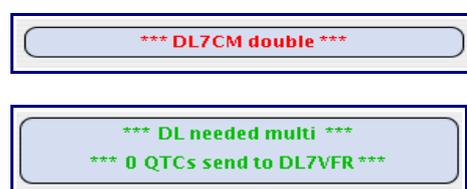


Screen shoot 16: Station Info

### QSO Information (11)

During entering a callsign or pressing 'Space' after that helpful information will show up in this box. This text should be self explained always.

11



Screen shoot 17: QSO Information

### Split Readout (12)

When you have a transceiver connected, you can find here information about your split. When split is selected on, the split offset is posted. This is to prevent an excessive split area or to prevent to run the split into your own TX frequency.

12

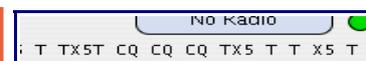


Screen shoot 18: Split Readout

### CW Echo (13)

This scrolling text is a (on time) feedback from your CW-keyer, even when using the paddels. Be sure the 'Echoback' functions from the 'CW' tab in the preferences are switched on!

13



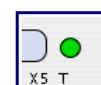
Screen shoot 19: CW Echo

In RTTY mode, while you are in keyboard mode, you see your typed in text to allow type ahead.

### TX Indicator (14)

When you have a Kenwood TRX connected the green circle will change to red, when the TRX is in the Transmit state.

14

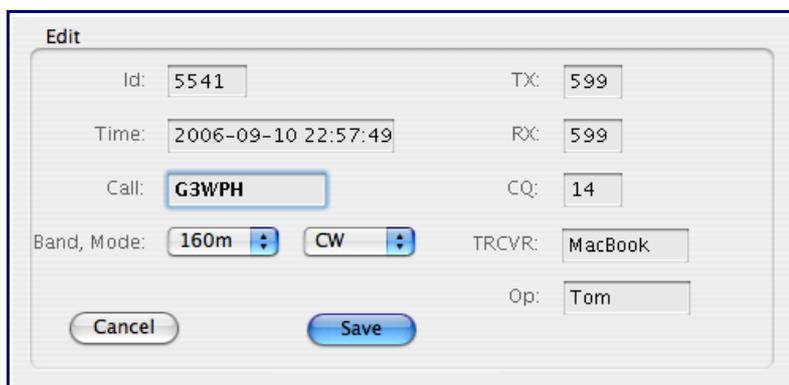


Screen shoot 20: TX Indicator

When you have an ICOM TRX connected, only when the WinKey keyer keys the TRX the circle will change to red

## The QSO Editor (not shown)

This editor will overlay the upper left hand part of the window during editing QSOs. Only the most important fields are editable. You can not change the QSO id, this is fixed and for info only! When the editor is shown, you can select another QSO in the log table. Changes will be only saved after pressing the 'Save' button!



The screenshot shows a dialog box titled "Edit" with the following fields and values:

Id:	5541	TX:	599
Time:	2006-09-10 22:57:49	RX:	599
Call:	G3WPH	CQ:	14
Band, Mode:	160m CW	TRCVR:	MacBook
		Op:	Tom

Buttons: Cancel, Save

Screen shoot 21: QSO Editor

## The Menus

All windows are using the same menu, but most of them are only accessible from the main logging window.

### The RUMped Menu

#### About...

This menu item brings up some information about the program and the author

#### Preferences...

Opens the preference window, where you can make all settings

#### Quit RUMped

This will close RUMped, without any further inquiry. There is no need to save anything before quitting. The positions and sizes of some of your windows are saved for the next program start to restore.

#### The File Menu

This is still empty.

#### The Edit Menu

This is the Mac standard menu for text operations.

## The Log Menu

### New...

Opens a requester to create a new empty log file.

### Open...

Opens a requester to select and open an existing log file for use.

### Export...

This opens the export window. Here you can export your log or a part of it in different formats:

- Simple Text
- CSV (comma separated values)
- ADIF
- RUMpedQSL (a separate application for QSL card handling with own file format)
- Cabrillo
- DF3CB Logsearch (text file to be used with DF3CBs online log search script)
- Stützerbach (not in all contests available)

### Import...

This opens the import window. You can add QSOs to the present file from an ADIF file or from an other RUMped file, provided the same contest was used. You can import any RUMped contest files into a dx-pedition log.

## Backup Log

You will backup the log as text file. It is not a MySQL database backup. Select the location where to write the file in the 'General' tab of the preference window. It is recommended to use an other location as your MySQL server is running on. Use an USB stick or an other disc/computer in your local network. Not only the log is written, also the preferences and QTCs in the WAEDC contest are backed up. It takes less than a second to backup 10.000 QSOs, so you can do it frequently.

## Restore Log...

Here you can restore a backed up log file. Select the location where to read the file from in the opening file requester. To restore the log, first you have to create a new empty log file with the same contest selected. Let the log empty!

*Backup and Restore Log can be used also for a practicable log transfer/copy from one computer to an other or to double a log. You have not to deal with MySQL.*

## Clear Masks

Is used to reset the main logging window. The callsign field, the received control number field and

the QSO info box will be cleared and the callsign field gets the focus. Both rst fields are filled with '59' or '599', depending on the mode. The log table shows the latest 150 QSOs.

### **150 up**

Scrolls the shown QSOs in the main logging window log table 150 QSOs further up.

### **150 down**

Scrolls the shown QSOs in the main logging window log table 150 QSOs further down.

### **Log at same time**

Will show QSOs in the main logging window in an one hour time slot only.

Sometimes I was running a contest or working on a dx-ped and I was asking me. "Which band/mode I worked yesterday at this time?" Just select this menu item and the log table shows only QSOs +/- 30 minutes from the current time, but on all dates. Or mark a QSO in the log table and select this menu item to show all QSOs +/- 30 minutes around this QSO time.

### **Full Multi Check (Switchable)**

When this option is set, the Previous QSO Table will be colour coded to get an overview of the current worked multiplier on other bands/modes. These is not in all contests available.

### **Show all TRCVRs (Switchable)**

When this option is set, the log table in the main logging window shows all made QSOs from all stations, otherwise it shows QSOs from your TRCVR only.

### **Show prev. QSOs (Switchable)**

When this option is set, all QSOs with the current worked station only are shown in the log table.

### **Similarly Call Check (Switchable)**

After pressing the 'Space' bar or the 'Tab' key similarly calls are presented when this option is set. When you are not sure about the typed in call, other possibilities are shown assuming one letter/number is wrong or missing.

### **RX QTC..**

Opens the window to log received QTCs in the WAEDC contest

### **TX QTC...**

Opens the window to send QTCs in the WAEDC contest

## **The QSO Menu**

### **Edit...**

The last logged QSO will be opened in the QSO editor. To edit a more previous QSO select it in the log table and use then this menu item. Once you are in the Edit mode you can change the selected QSO.

### **Delete...**

Use this menu item to delete a QSO. You must have a QSO selected in the log table and a requester will be shown before deleting.

### **Note...**

This allows you to add a free text comment to a QSO which is selected in the log table. When no QSO is selected the note will be added to the latest QSO.

## **The TRCVR Menu**

### **Reset TRCVR**

Use this item, when the trcvr control is not longer working properly. This will reinitialize the com port and the transceiver.

### **Band up**

This change your operating frequency (TRX and log) one band up. Your last used frequency on this band is used. If split is selected on, both VFOs are set to the same frequency!

### **Band down**

This change your operating frequency (TRX and log) one band down. Your last used frequency on this band is used. If split is selected on, both VFOs are set to the same frequency!

*Band up and Band down you can use also without TRX control for log setting only.*

### **CW**

Changes your operating mode to CW and initialize your CW keyer

### **RTTY**

Changes your operating mode to RTTY and initialize your RTTY interface.

### **SSB**

Changes your operating mode to SSB.

*You can use this kind of mode switching even, when no TRX is connected, just to set the log.*

## **Keyboard Mode (Switchable)**

This toggles the log between Logging Mode and Keyboard Mode while operating in CW, RTTY or PSK. In CW each keystroke will be send out immediately. In RTTY and PSK you can write ahead and can then use TX/RX from the menu.

## **Tune**

Works only when CW is selected and you have a WinKeyer connected. The TRX will go the TX state. To cancel just press the 'Escape' key.

## **The CW Menu**

### **Reset Keyer**

This will reinitialize the com port and the keyer, when your keyer is not longer working properly.

### **CW Speed -2**

Decreases the keyer speed by 2 WpM

### **CW Speed +2**

Increases the keyer speed by 2 WpM

*As soon as you touch the speed controller on the WinKeyer, this speed will be used.*

## **The RTTY Menu**

### **Reset Modem**

This will reinitialize the com port (when one is in use) and the RTTY interface, when it is not longer working properly.

### **Transmit**

While in Keyboard mode here you set your TRX in the Transmit state and the transmission of the pre typed text starts.

### **Receive**

While in Keyboard mode here you set your TRX in the Receive state after the pre typed text was sent out. To switch immediately to Receive, just press the 'Escape' key.

### **TX Reverse (Switchable)**

This will reverse your TX tones

## **RX Reverse (Switchable)**

This will reverse your RX tones

*These Reverse settings are not saved, to use it permanent select it in the RTTY tab of the Preference window.*

## **The BPSK Menu**

### **Reset Modem**

This will reinitialize the PSK interface, when it is not longer working properly.

### **Transmit**

While in Keyboard mode here you set your TRX in the Transmit state and the transmission of the pre typed text starts.

### **Receive**

While in Keyboard mode here you set your TRX in the Receive state after the pre typed text was sent out. To switch immediately to Receive, just press the 'Escape' key.

## **The Window Menu**

### **Close**

Will close the active window, the Main Logging Window can't be close via this menu item.

### **Hide**

Will hide the active window. To show it again select the menu item to open the window.

### **Main Logging...**

Shows up the Main Logging Window when it is hidden.

### **Full Log...**

Opens the Full Log Window. In this window you can view and edit the whole log in a table.

### **Rate...**

Opens the Rate Window. In this you can get a graphical overview about you QSOs per hour and QSOs per day. You can filter the QSOs to find out for example the best time for contacts on 15m to North America.

### **QTCs...**

Opens the QTC Window. (WAEDC contest only) Here you can view and edit your sent or received QTCs.

### **Continents...**

This menu item brings up a table with a statistic about your QSOs to the different continents. The mode is selectable.

### **DXCCs...**

This opens a table which shows the number of QSOs per DXCC per Band in each mode and the number of different callsigns per DXCC.

### **Multis...**

This opens a table which shows the number of QSOs per Multiplier per Band. It is only available in the contest mode

### **Calls...**

Here you get an overview about each QSO for each callsign per band. Further you see the number of QSOs per call, the number of bands per call, the number of calls with multiple band contacts and the number of calls with multiple total contacts.

### **Notes...**

This opens a window to view and edit all the notes you added to the QSOs.

### **US-States...**

This opens a window with a table of the US states and provinces of Canada. This is just for information.

### **Terminal...**

This opens the Terminal Window to get access to a telnet dx cluster

### **DX Spots...**

Reopens the dx announcement table

### **LAN...**

This will open a window with information about other stations in your local network. You can see the operators name, band, mode and time of the last QSO for each station.

### **Sun/Dist. Calculation...**

This brings up a window, where you can calculate locators, coordinates, distances, directions, times

for sunrise and sunset and duration of twilight.

### **Sun/Dist. Table...**

This brings up a table with information about distances, directions, times of sunrise and sunset and duration of twilight and daylight for each DXCC and call areas. Further it is possible to show only DXCCs or call areas located in the grayline. You can select a date/time to pre-calculate the conditions on a specific time.

### **DXCCs in Grayline**

This brings up a table with all DXCCs and call areas listed which are currently located in the grayline. This is a real time table and becomes updated frequently. Helpful for low band dxing.

### ***The Memory Menu***

I prefer to use the F keys for the memories, only one keystroke is required to send out the text. Apple recommends to use NOT the F-keys in own applications. In the system preferences keyboard pane I switched off all short cuts except F9-F12 which I use for Exposé and the Dashboard.

When you have your F-keys in use for other or system wide applications you can use instead this menu. But now you have to push two keys.

### ***The Help Menu***

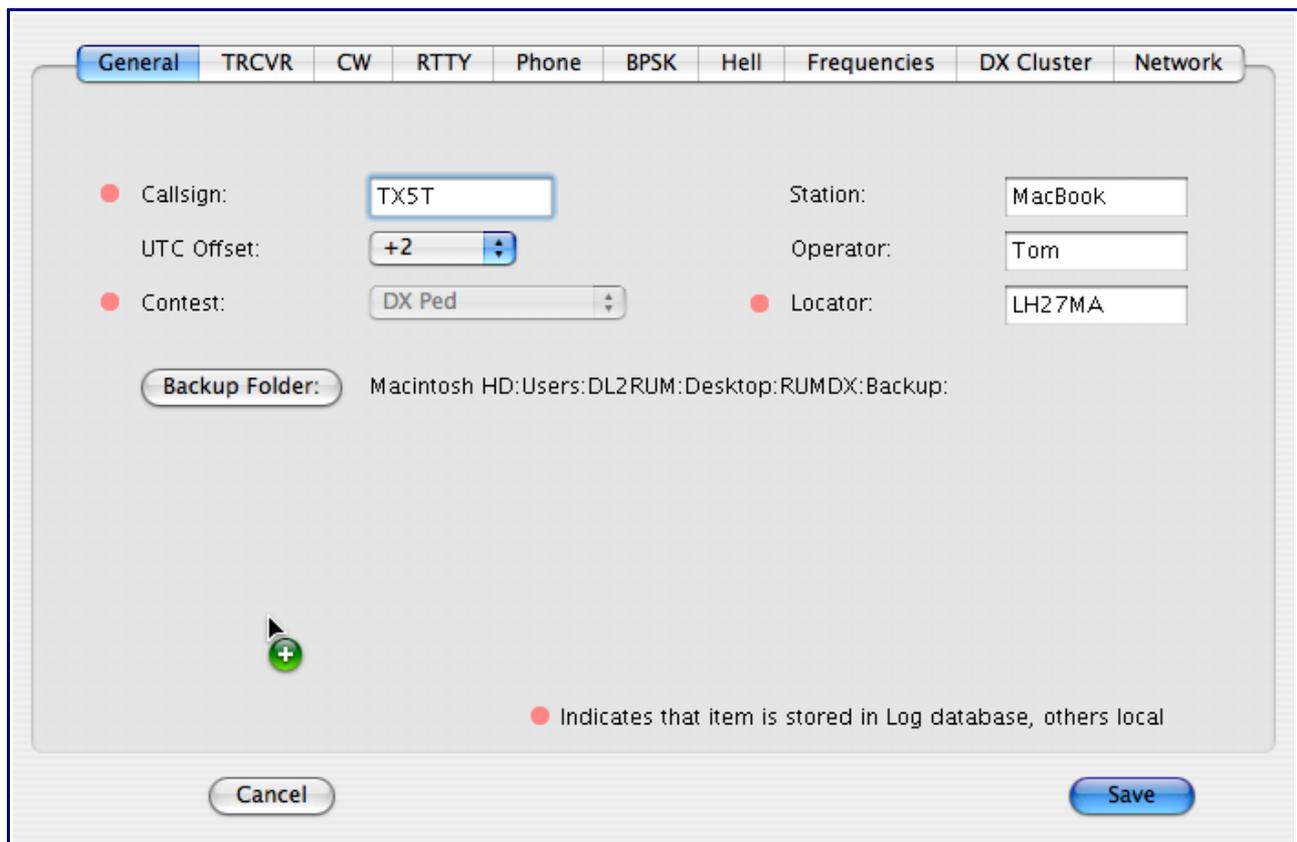
#### **Help Tags (Switchable)**

When this option is set, you will get some help when moving the mouse over the main logging window.

## The Preference Window

Nearly all of the user settings are controlled via this window. Few items are saved in the log file, most of them local on your computer in users home-directory/Library/Preferences/RumDX.plist. Settings saved in the log file are marked with a red dot. To show this window select Menu --> RUMped --> Preferences... To close the window without changes press the 'Cancel' button or the 'Escape' key. To close the window, save and use the changes press the 'Save' button or just the 'Enter' key

### General Tab



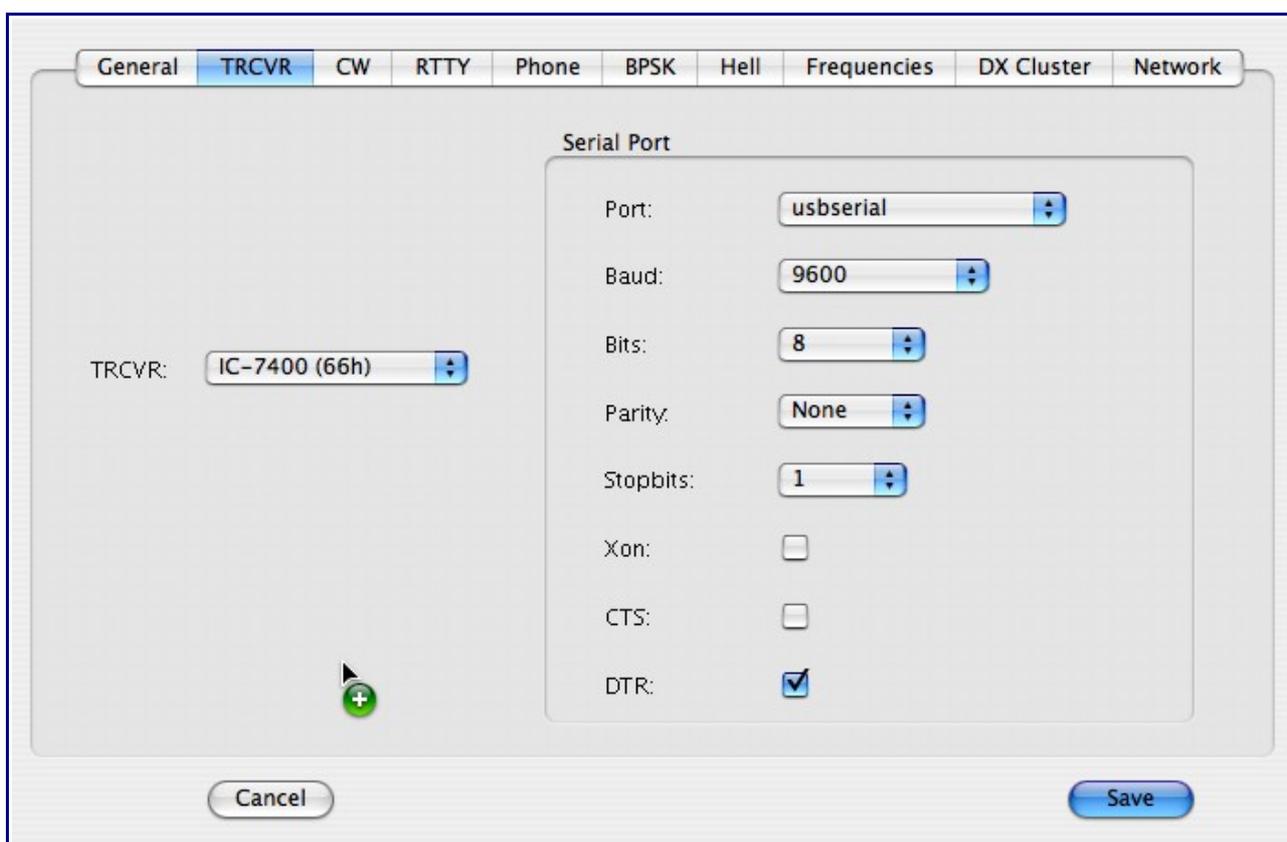
Screen shoot 22: Preferences General Tab

Here you have to fill in some important information, to allow RUMped to work correctly. You should fill out all fields, even when you not get an error message. Please note, that you can not change the contest type, This is for your info only and was selected during creation of the log file. Depending from the contest there may be more input fields visible, which are clear labeled. (for DXCC, continent, state, zone, and so on) RUMped will try to fill it out for you when entering a callsign.

- callsign: used call during this operation
- UTC Offset: difference between the MySQL server time and utc time in houres
- Station: a name for this computer or station – important for multi-multi
- Operator: name or callsign from the current op

- Locator: WW locator, where the station is located. used for heading and distance calculations
- Backup Folder: press this button to select the disc/folder for backing up the log

## TRCVR Tab



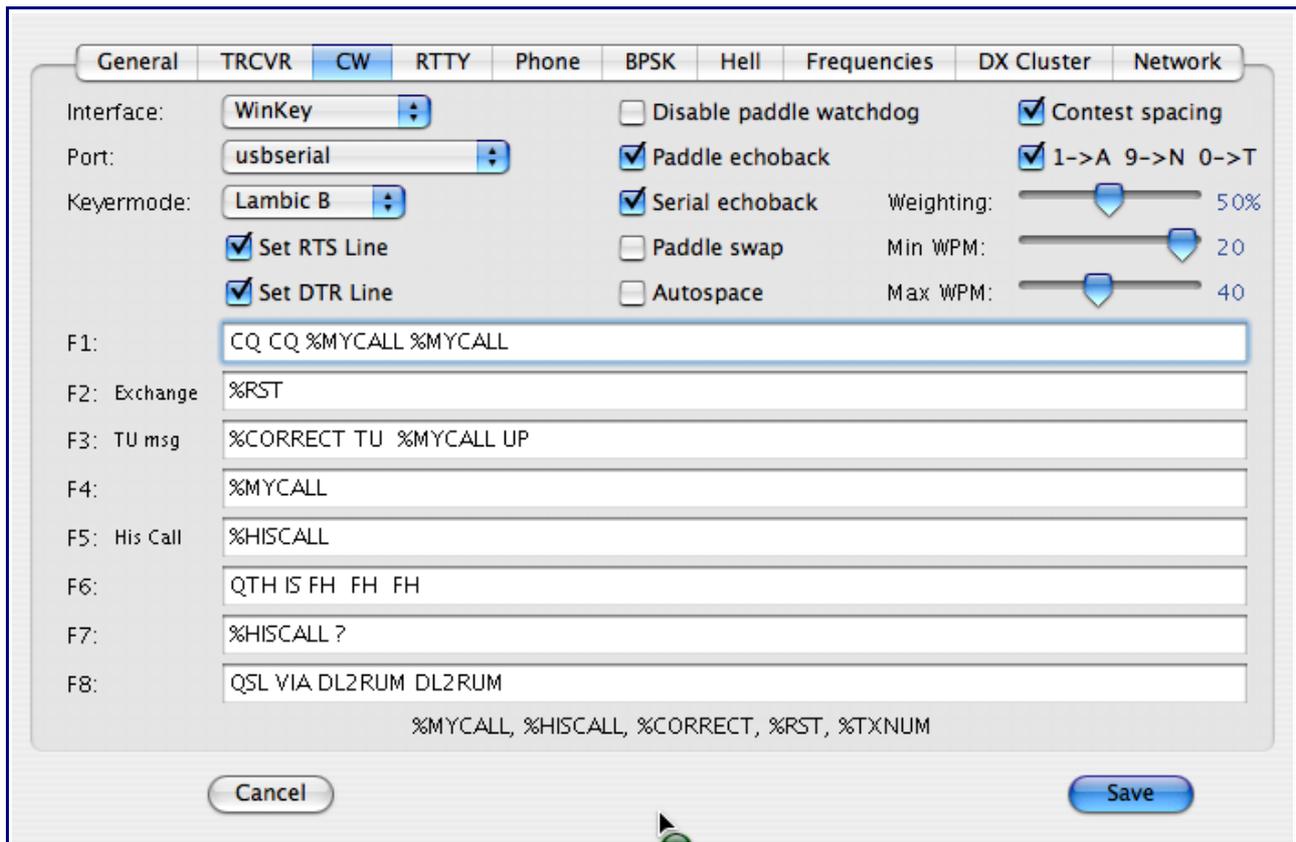
Screen shoot 23: Preferences TRCVR Tab

Here you can select your transceiver and adjust the serial port settings to your requirements. When you don't have a TRX connected select 'None' from the 'TRCVR' popup menu.

## CW Tab

For CW output RUMped supports currently only WinKey by K1EL. See <http://k1el.tripod.com/> for further information and refer to the 'CW Operation' in this document.

In the upper left hand corner you find the settings for the used serial port. If you do not use a keyer select 'None' in the 'Interface' popup menu. Check the check boxes 'Set RTS Line' and/or 'Check DTR Line' when your CW keyer get its power from the serial port hand shake lines. All other settings in the upper part are to program the WinKey chip. See your WinKey documentation for details.



Screen shoot 24: Preferences CW Tab

**Make sure the 'Serial echoback' check box is marked, otherwise the exchange function using the '+' key will not work!** When you have checked the 'Serial echoback' check box you can monitor the keyed text in the scrolling text part in the main logging window. With the check box '1->A 9->N 0->T' you can activate abbreviations during sending control numbers.

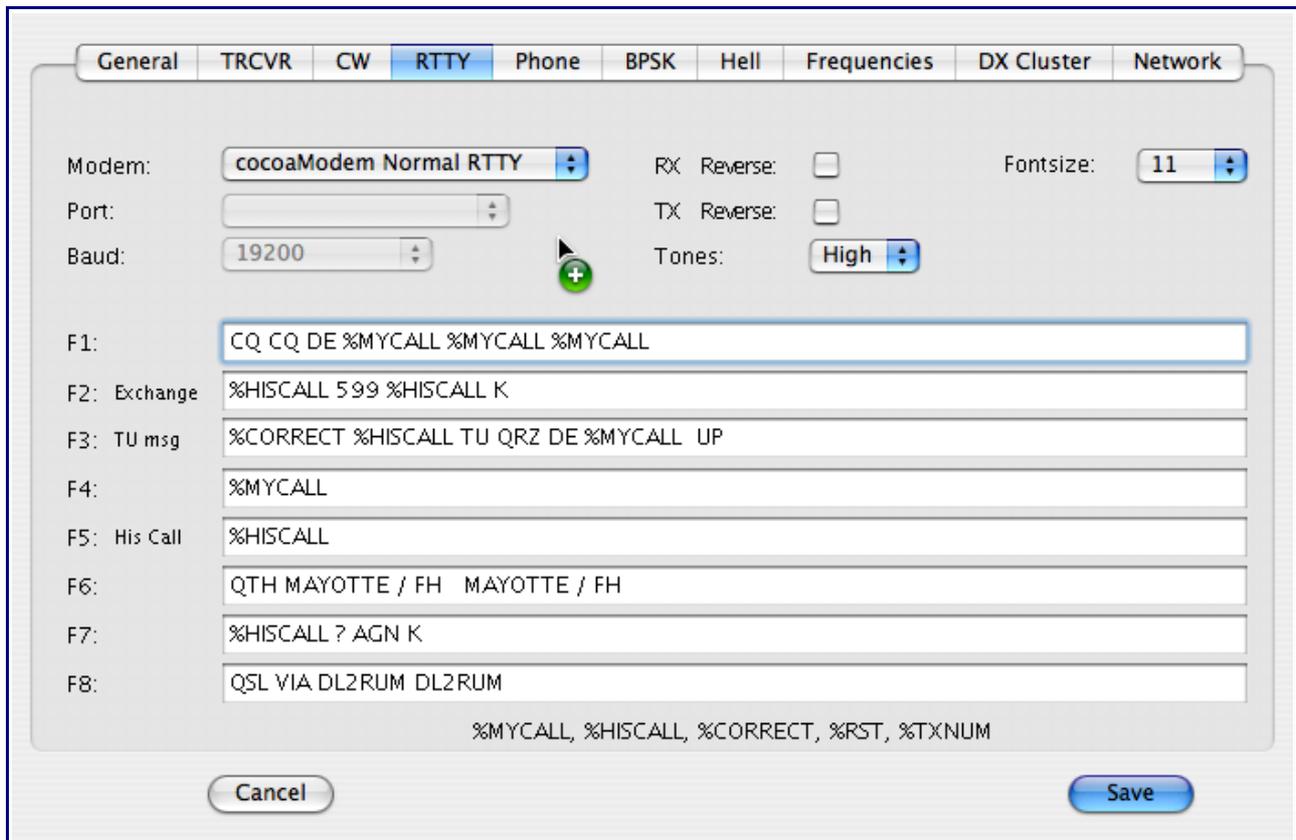
The lower part of the window contained the eight CW memories. Please use F2 for the 'exchange' information, F3 for the 'TU' message. This ensures other CW functions of RUMped to work correct. There are five place holders available, which will be exchanged during transmission:

- %MYCALL: own callsign
- %HISCALL: callsign which stands in the pink callsign field, when this is empty the last logged call is used
- %RST: rst found in the TX RST field
- %TXNUM: control number found in the TX NUM field
- %CORRECT: when the logged call differs from the initially sent callsign, the corrected call will sent

*Example for %CORRECT: Normally you put %CORRECT into the TU (F3) message. The TU message is sent when you log a QSO with the right 'Enter' key, in the numpad. You type 'DL2RU' in the pink call field and press the '+' key, The keyer will send: 'DL2RU 599' and the station returns and corrects you to 'DL2RUM' You append the 'M' and press just the right 'Enter' key. This will log the QSO and the keyer sends: 'DL2RUM TU TX5T UP'. When you have it correct entered the first time the keyer would only send: 'TU TX5T UP'*

The WinKey keyer has a 32 character input buffer, you should avoid longer text memories.

## RTTY Tab



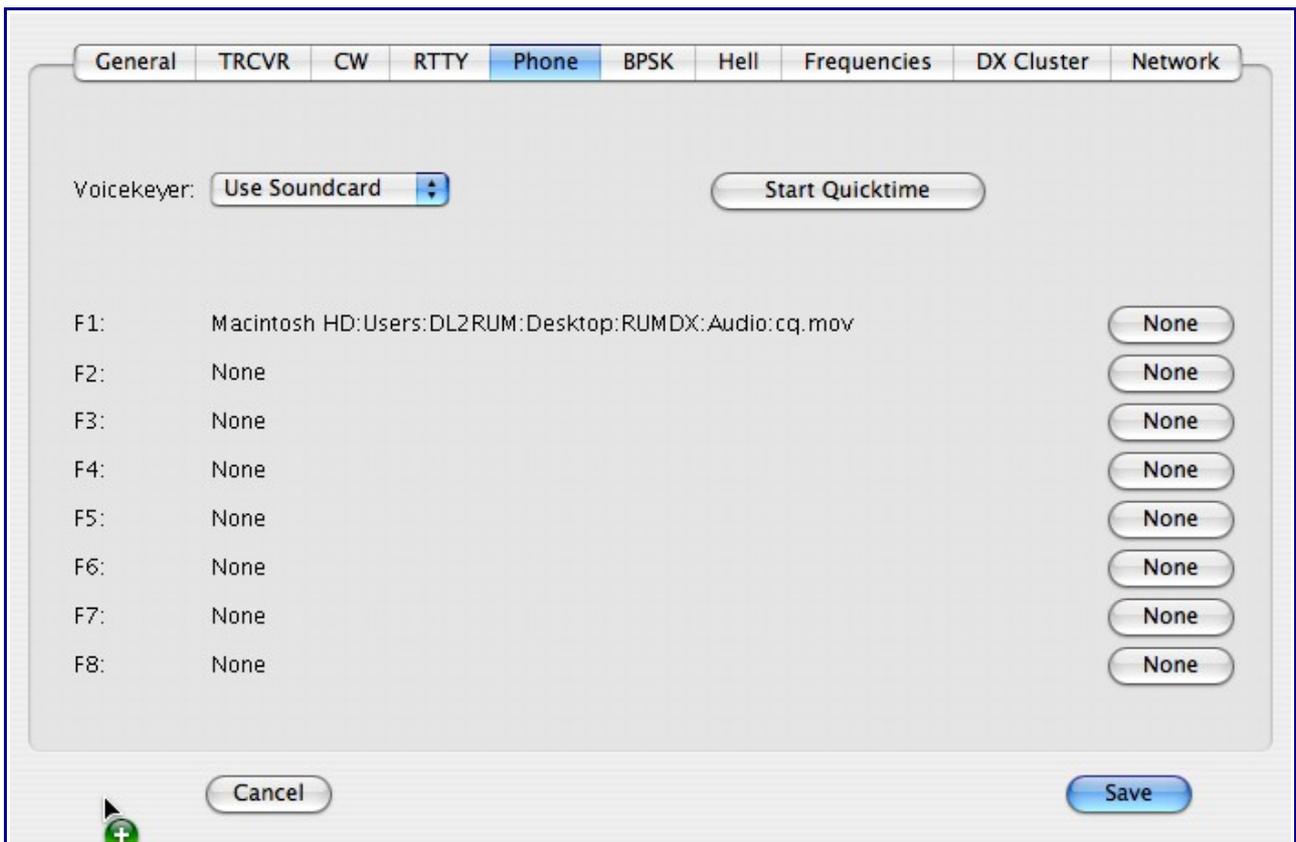
Screen shoot 25: Preferences RTTY Tab

For RTTY operation you can use a hardware or a software modem, make your selection in the popup menu. When using an external modem select the serial settings. No further port settings are here provided since the PTCplus and the Pakrat PK-232 work fine with the default settings. Only the baud rate is adjustable. Check the boxes for 'RX Reverse' and 'TX Reverse' to your requirements, select your tones as well. You can change the font size of the RTTY part in the main logging window for your convenience.

In the lower part you can find the memory settings. Refer to the CW tab for further details.

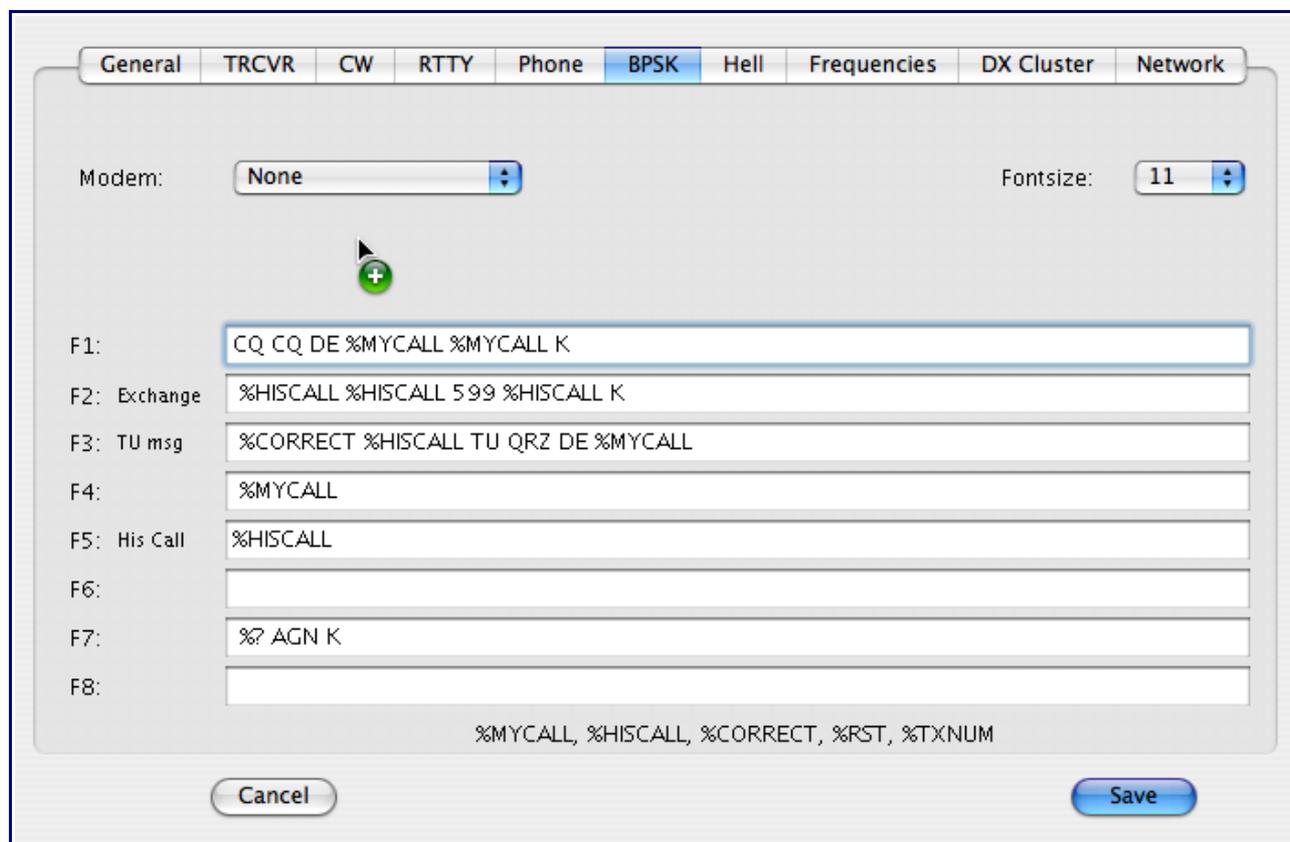
## Phone Tab

In this tab you can activate a voice keyer. When you have the optional DRU unit in your Kenwood TRX installed you can use this one. It is not possible to start ICOM's internal voice keyer! Also you can use your soundcard for voice memories.



Screen shoot 26: Preferences Phone Tab

When you want to use your soundcard, you have to assign sound files. Click in the text where the file path is written (or 'None' stands) to open a file requester. To disable one memory press the 'None' button. There is a button provided to start 'QuickTime', which can record your voice. The audio file can be in any format which QuickTime can play like mp3, mov, aiff, wav...

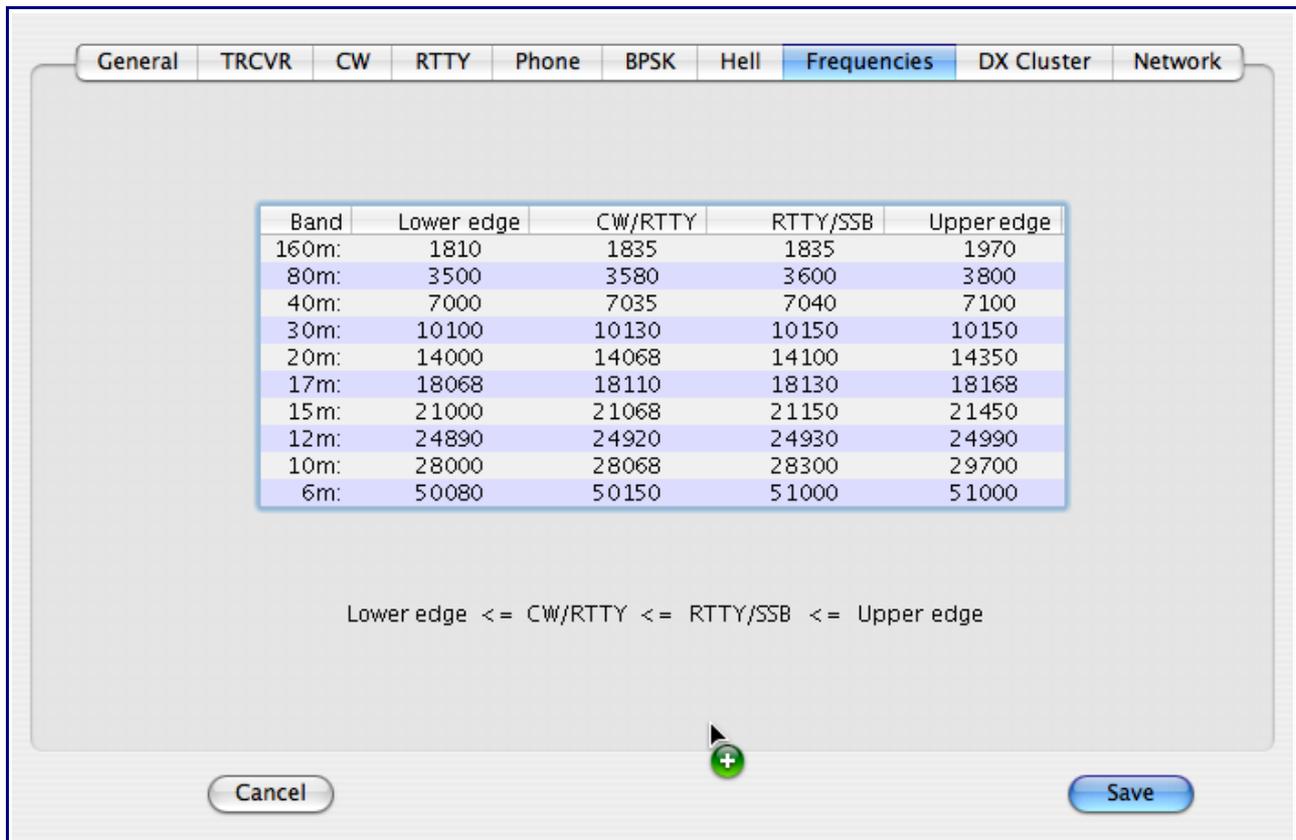
**BPSK and Hell Tab**

Screen shoot 27: Preferences BPSK Tab

Both tabs are very similar. You can select as interface cocoaModem only. Also the font size for the BPSK part in the main logging window is adjustable.

For further information about the memories see the CW tab.

## Frequencies Tab



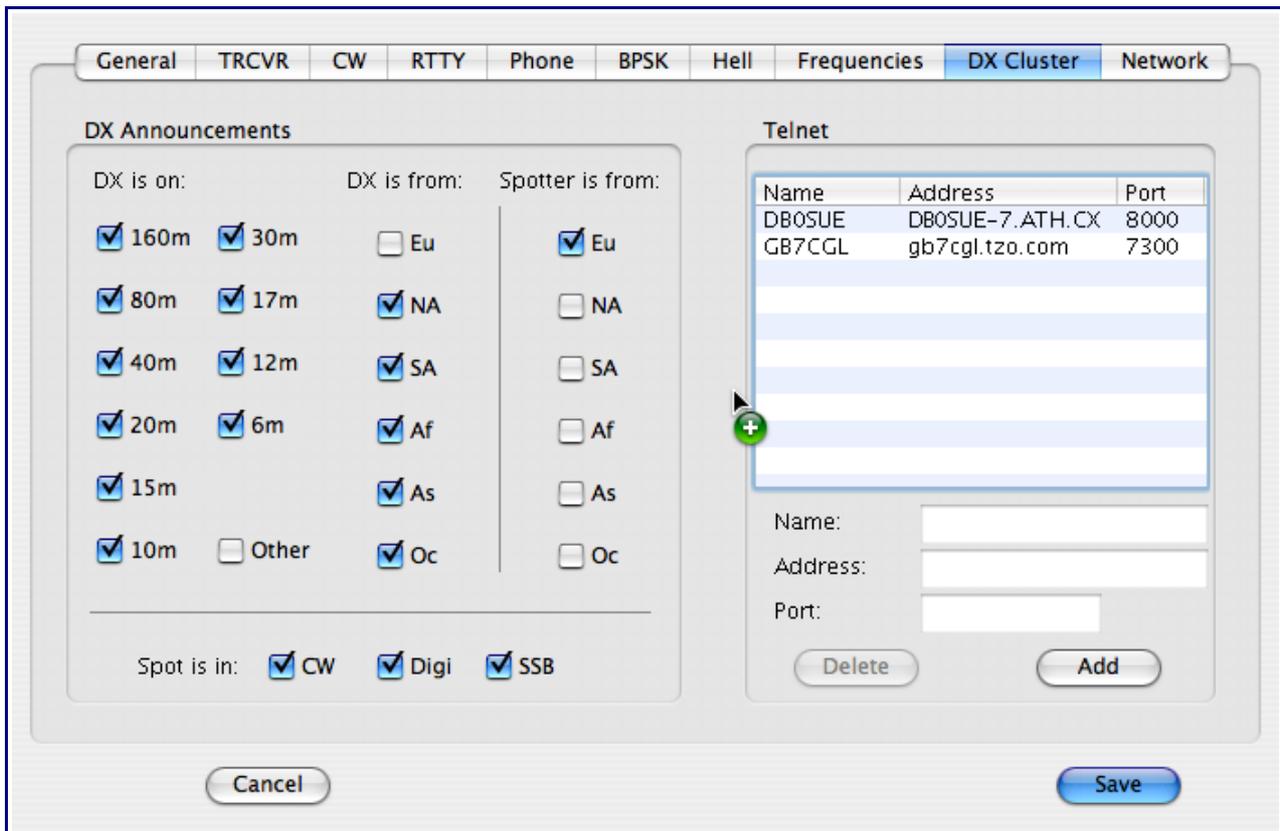
Screen shoot 28: Preferences Frequency Tab

Here you can set the band borders and the borders between the modes. Click inside the table to change the values. All frequencies are in Khz”

On the basis this table RUMped can determine the mode and band to a given frequency.

*Example 1: You enter 14007 in the pink call field and press the 'Enter' key. RUMped will take a look into this table and sees this is a 20m CW frequency. 20m and CW will be selected, and the TRX tuned as well.*

*Example 2: You get a dx cluster spot that the station ZK2CW is on 21295. RUMped can now alert you when it is interesting for you to work ZK2 in SSB.*

**DX Cluster Tab**

Screen shoot 29: Preferences DX Cluster Tab

RUMped allows dx-cluster connection over the internet via telnet. You can find a list of dx-cluster with log in information here: <http://www.ng3k.com/Misc/cluster.html>

First you have to add one or more addresses to the list on the right hand side. Press the add button first and enter the required information in the fields:

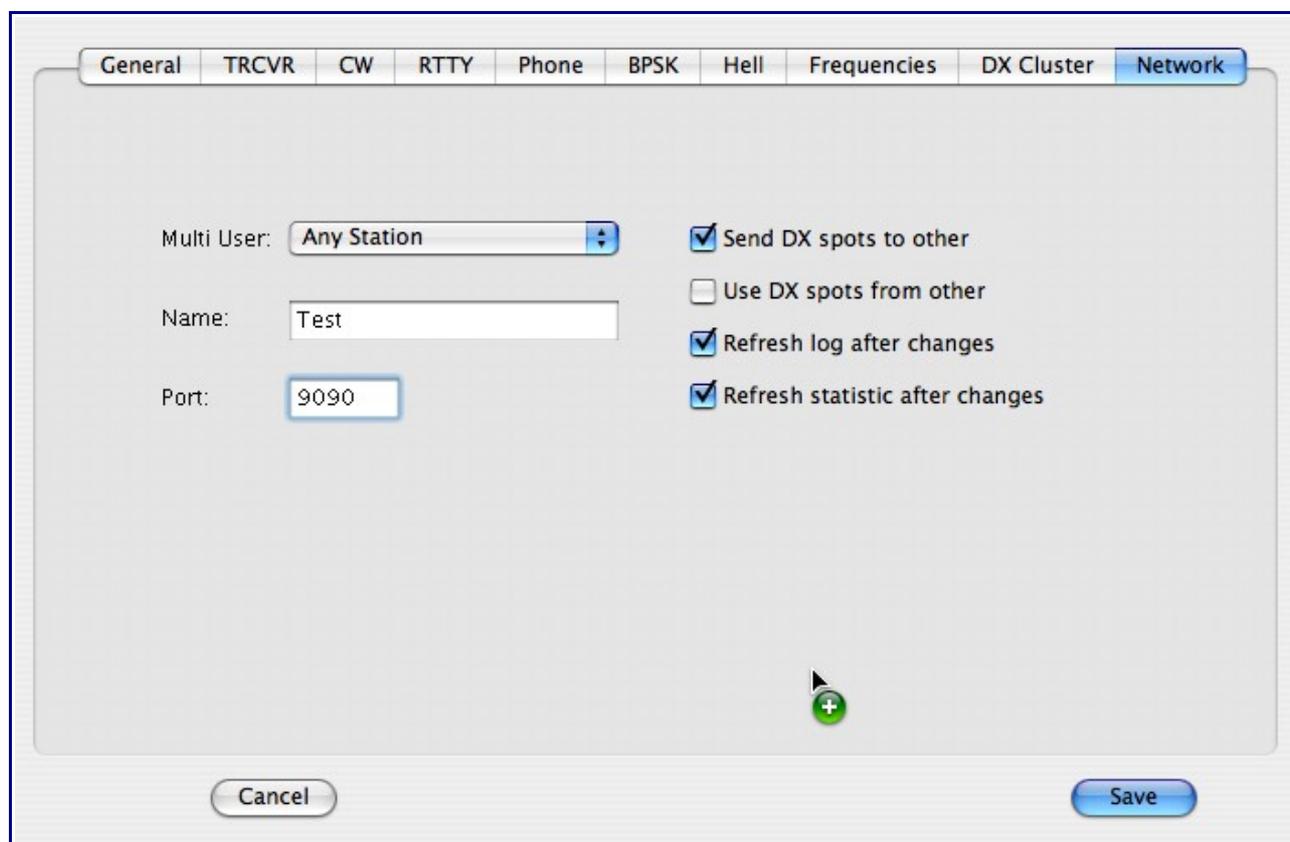
- Name: you can choose a name what ever you want
- Address: the address **without** the trailing port number, it can be just a TCP/IP number or a full address like 'db0sue-7.ath.cx'
- Port: port, when not found try 8000 which should be the default port

Make sure all three columns in the table are filled out before you press the 'Save' button. To edit the list, select an entry and modify it in the text fields as required. Use the 'Tab' key to jump to the next field and the changes can take effect. To delete an entry select it in the table and press the 'Delete' button.

In the left hand part of the window you can filter the dx-spots. Take care using the mode filter, because RUMped can determine the mode only by the frequency and you know what happens in a contests.

*If you want spots presented only on 160m in CW from Europe where the spotter is from NA, just check these four boxes.*

## Network Tab



Screen shoot 30: Preferences Network Tab

When running RUMped on more than one computer in a local area network (LAN), each computer can communicate with each other. *This does not work via the internet!* When connected, you get a table of other stations with operating information. Also there is only one dx-cluster connection required. In the popup menu you can select three operating modes:

- Off: Network features are disabled. Several computers can use the same log, but there is no direct communication between the computers
- Same Log: Only computers using the same log and same port can talk together
- Any Station: Every computer can talk to each other, provided the same name and same port is chosen

When you have chosen 'Any Station' enter a 'Name' for your network. Stations using the same name and port will communicate to each other. Port number 9090 is a good choice as default. However, when this port is busy on your system, you can choose another. make sure all stations use the same port.

There are four check boxes provided on the right hand side:

- Send DX Spots...: when this computer has a dx-cluster connection, other stations can use this connection as well. Works two way.
- Use DX Spots ...: when this computer has no own cluster connection, you can reach it

through another computer in the net

*Uncheck both boxes, when all stations want to use own cluster connections.*

- Refresh Log...: When other stations log a QSO, your log table will be renewed to see the new QSO. When **not** checked the log shows new QSOs from others only, after you log a QSO by yourself or pressing Command W
- Refresh Statistic...: When other stations log a QSO, your statistic table will be renewed to see the new numbers of QSOs. When **not** checked the table shows new QSOs from others only, after you log a QSO by yourself.

*You may switch off the last two options, when you have performance problems or you are irritated.*

## Other Windows, Tables and Requesters

I will try to show and explain all other windows you may see during operation, except standard system requester or message boxes.

### New Log Requester

*Menu --> Log --> New... Shown when creating a new log file*

The screenshot shows a dialog box titled 'New Log Requester'. It contains the following fields and controls:

- Host: localhost
- Port: 3306
- User: Tom
- Password: masked with dots
- A popup menu on the right shows 'Tom@localhost'.
- Contest: WWDX (with a red dot icon)
- Filename: empty
- Callsign: TX5T (with a red dot icon)
- Locator: LH27MA (with a red dot icon)
- My DXCC: FH (with a red dot icon)
- My CQ: 39 (with a red dot icon)
- My cont: Af (with a red dot icon)
- Buttons: Cancel and Okay

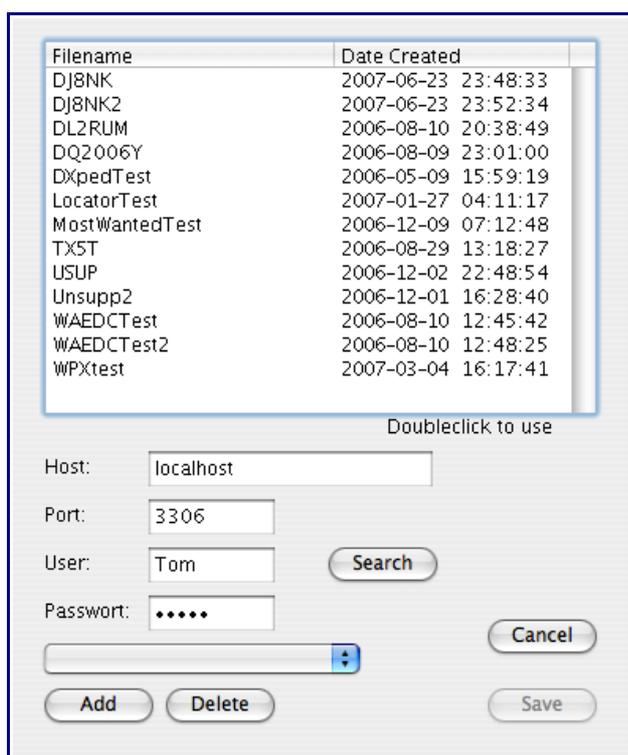
*Screen shoot 31: New Log Requester*

The upper portion is used for your MySQL account. In the 'Host' field you can enter a TCP/IP address '192.168.2.101' or a "text" address like '[www.dl2rum.de](http://www.dl2rum.de)' or 'localhost' or a computer name like 'PowerMac.local'. Via the popup menu on the right you have quick access to different of accounts. These are editable in the 'Change Log' requester only. After selecting a contest, more input field may appear. Enter a file name, do not use '-'. Other special characters could cause problems also. When typing in a callsign, fields like DXCC or zone may be filled out, otherwise you have to do it yourself. Enter your locator or just mouse click the world 'Locator' to get the default one for this country.

After pressing 'Okay' the new database will be created and is ready for use. When there is something wrong, you get an error message. Once a log is created, you are not able to change the contest!

### Open Log Requester

*Menu --> Log --> Open... Shown when changing the log file*

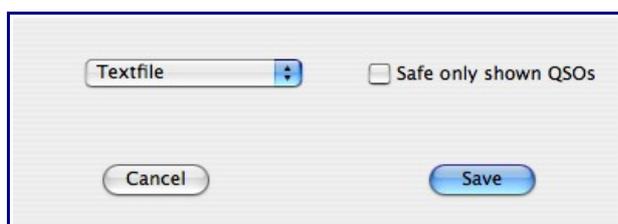


Screen shoot 32: Open Log Requester

After opening, your current used account information are used to ask for RUMped log files on this server. You can change the MySQL access data and press the 'Search' button to show logs on another server, or use the popup menu for earlier saved access information. You can add or delete a set of access information using the push buttons. *These sets are only saved, when you leave this requester using the 'Save' button!* Select a log file and press the 'Save' button to use this log and set it to default. At next program start this file will be used. If you want to use a log only shortly, just double click a log name. But at next program start, the last saved log will be used.

## Log Export Requester

Menu --> Log --> Export... Used to select the log export format



Screen shoot 33: Log Export Requester

Select an output format and press the 'Save' button to go to the next step. When you call this window from the Log window where you have set filter, you can save only this filtered QSOs. All export formats create pure ASCII text files, using a standard file requester. The Stützerbach Format (STF) is not available in all contests. The 'Simple Text' format

you may use to print out your logs. The DF3CB format is used in online log search scripts, see <http://df3cb.com/logsearch.html> for further details. RUMpedQSL is a simple QSL handling and label printing tool and is a part of the RUMped package. ADIF allows the exchange of logs with most of the logging programs. Cabrillo and Stützerbach are used for contest logs.

## Cabrillo Export Requester

Menu --> Log --> Export... Used for further details in Cabrillo contest logs

In this form you can enter further information, which are conform with the Cabrillo standard. The 'free text' fields are saved for the next time you use this export function.

ARRL-SECTION:

CALLSIGN:

CATEGORY:

CATEGORY-OVERLAY:

CLAIMED-SCORE:

CLUB:

CONTEST:

CREATED-BY:

NAME:

ADDRESS:

ADDRESS:

ADDRESS:

OPERATORS:

SOAPBOX:

Screen shoot 34: Cabrillo Requester

## Stützerbach Export Requester

Menu --> Log --> Export... Used for further details in Stützerbach contest logs

In this form you can enter further information, which are conform with the Stützerbach standard. The 'free text' fields are saved for the next time you use this export function.

Contest	DXPDN
MyCall	DL2RUM
Category	
MailAddress	Thomas Lindner
MailAddress	Lehnschulzenweg 2
MailAddress	15754 Bindow
MailAddress	Germany
E-Mail	tom@dl2rum
ClaimedQso	
ClaimedQtc	
ClaimedPts	
ClaimedMult	
ClaimedScore	
Club	Berlin DX Group
Operators	DL2RUM
Equipment	IC-7400
Power	600 Watts
Soapbox	

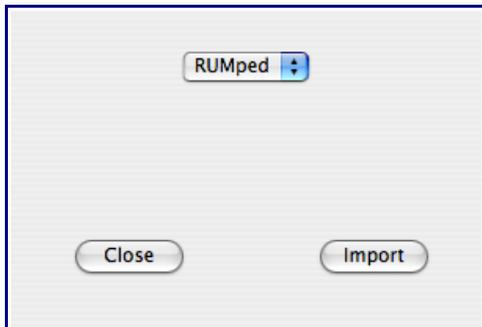
Cancel Save

Screen shoot 35: Stützerbach Requester

## Log Import Requester

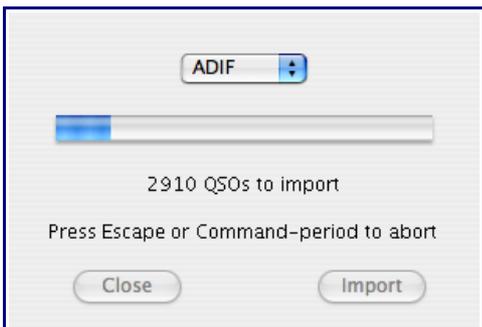
Menu --> Log --> Import... Used to select an import format.

In RUMped you can import ADIF, or other RUMped log files. Import of RUMped files works only, when in both files the same contest was chosen. In a **dx-pedition log** you can import any file!



Select the desired format and press the 'Import' button. For ADIF a standard file requester appears, where you can navigate to the file. For a RUMped import, an 'Open Log' requester is shown.

Screen shoot 36: Log Import Requester



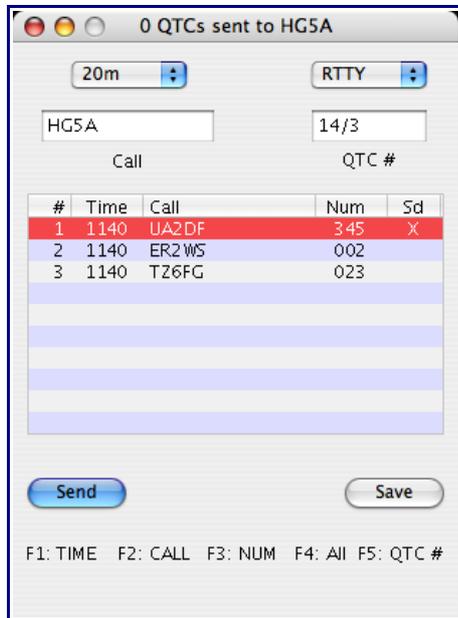
Since the ADIF Import can take some minutes, you can abort the import pressing 'Command-period' or the 'Escape' key.

*The always imported QSOs will remain in the Log!*

Screen shoot 37: ADIF Import Progress Box

## Send QTC Window

Menu --> Log --> TX QTC... To show and send QTCs, WAEDC contest only



Screen shoot 38: Send QTC Window

After opening the correct band, mode, call and QTC number should be displayed. The cursor is located in the call field, when this is correct press the 'Tab' key and the cursor moves to the QTC series number. When it is correct, press the 'Tab' key again. In CW and RTTY this number will be sent out. The first row in the QSO list is now selected. Press a 'Enter' key to send out the selected QTC. After that the next line will be selected. After sending the last QTC press the 'Enter' key again to save the QTCs, to send 73 TU.... and to close the window.

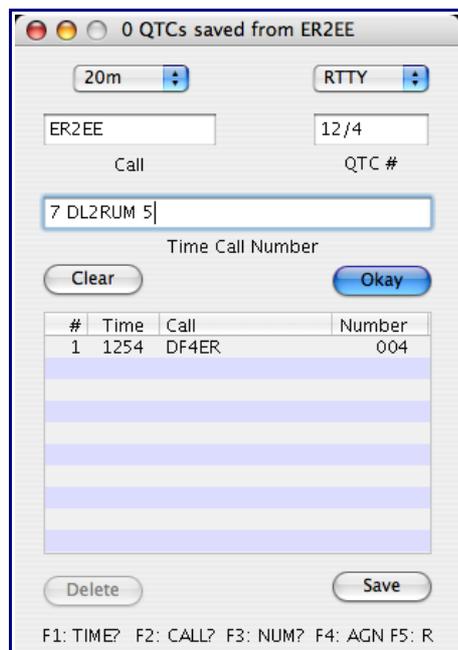
*When you close the window using the menu or the close icon QTCs are not saved!*

Use the function keys F1-F5 to repeat parts of a QTC, or use the 'Arrow' keys or the mouse to select a QTC and press 'Enter' to send it again.

The 'Escape' key will always stop the transmission.

## Receive QTC Window

Menu --> Log --> RX QTC... To log QTCs, WAEDC contest only



Screen shoot 39: Receive QTC Window

After opening the correct band, mode and call should be displayed. Enter the series number. Instead the '/' you can use a 'Space', the space will be exchanged by the required '/'. Type time, call and number in the field and press the **left** 'Enter' key just to log the QTC or use the **right** 'Enter' key (on the numpad) to log the QTC and send a 'roger'. For the following QTCs it is not required to enter the full time, enter only the changes.

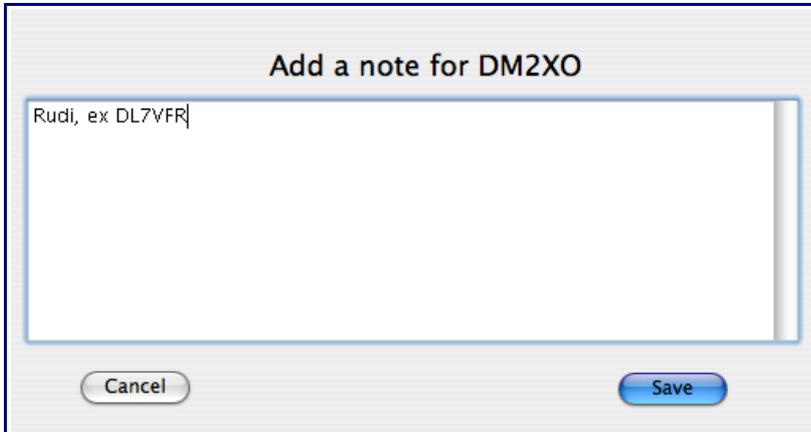
*First QTC time is '1254', second is '1257'. Just enter the '7', RUMped will complete it for you.*

Click in the table below twice to edit a QTC or select a line and press the 'Delete' button to delete a whole QTC.

Pressing the 'Save' button saves the QTCs in your log and closes the window.

## Add Note To QSO Requester

Menu --> QSO --> Note... Used to add a free text comment to a QSO



You can enter free text, which will be saved with the QSO. To get an overview of all notes and to edit them, select Menu --> Windows --> Notes...

Screen shoot 40: Add a Note Window

## Full Log Window

Menu --> Window --> Full Log... Used to view and filter the whole log

ID	YYYY-MM-DD HH:MM:SS	Call	Band	Mode	TX	RX	VFO B	VFO A	double	DXCC	CQ	Cnt	TRCVR	Op
1663	2006-09-04 23:25:56	AA1QD	80m	CW	599	599		3506.940		W	5	NA	MacBook	Tom
1662	2006-09-04 23:25:08	AJ3K	80m	CW	599	599		3507.450		W	5	NA	MacBook	Tom
3036	2006-09-07 00:36:25	K0DEQ	80m	CW	599	599		3508.420		W	4	NA	MacBook	Tom
3019	2006-09-07 00:23:47	K1LAR	80m	CW	599	599		3507.260		W	5	NA	MacBook	Tom
3039	2006-09-07 00:39:12	K1LPS	80m	CW	599	599		3506.960		W	5	NA	MacBook	Tom
3033	2006-09-07 00:33:39	K1NA	80m	CW	599	599		3507.390		W	5	NA	MacBook	Tom
3037	2006-09-07 00:37:09	K3EST	80m	CW	599	599		3508.500		W	5	NA	MacBook	Tom
3050	2006-09-07 00:51:02	K4DLS	80m	CW	599	599		3507.430		W	5	NA	MacBook	Tom
3024	2006-09-07 00:26:56	K4EA	80m	CW	599	599		3507.700		W	5	NA	MacBook	Tom
3035	2006-09-07 00:35:41	K4HB	80m	CW	599	599		3508.230		W	5	NA	MacBook	Tom
3045	2006-09-07 00:44:47	K4HGX	80m	CW	599	599		3507.430		W	5	NA	MacBook	Tom
3051	2006-09-07 00:52:30	K4MQG	80m	CW	599	599		3507.700		W	5	NA	MacBook	Tom
3015	2006-09-07 00:19:11	K4XG	80m	CW	599	599		3505.900		W	5	NA	MacBook	Tom
3049	2006-09-07 00:50:19	K4XO	80m	CW	599	599		3507.510		W	5	NA	MacBook	Tom
3014	2006-09-07 00:18:31	K5VRX	80m	CW	599	599		3505.500		W	4	NA	MacBook	Tom
3047	2006-09-07 00:46:06	K5ZK	80m	CW	599	599		3508.060		W	4	NA	MacBook	Tom
1656	2006-09-04 23:17:55	K1IG	80m	CW	599	599		3506.770		W	5	NA	MacBook	Tom
3018	2006-09-07 00:23:01	K1ZY	80m	CW	599	599		3507.020		W	5	NA	MacBook	Tom
3017	2006-09-07 00:20:44	N0EM	80m	CW	599	599		3506.260		W	4	NA	MacBook	Tom
3013	2006-09-07 00:17:52	N0FW	80m	CW	599	599		3505.840		W	4	NA	MacBook	Tom
1664	2006-09-04 23:26:42	N1RJ	80m	CW	599	599		3506.630		W	5	NA	MacBook	Tom
1646	2006-09-04 23:00:19	N2LA	80m	CW	599	599		3506.630		W	5	NA	MacBook	Tom
1643	2006-09-04 22:55:56	N3RD	80m	CW	599	599		3506.820		W	5	NA	MacBook	Tom
3038	2006-09-07 00:38:20	N4CC	80m	CW	599	599		3507.430		W	5	NA	MacBook	Tom
3042	2006-09-07 00:41:35	N4JI	80m	CW	599	599		3507.100		W	5	NA	MacBook	Tom
3040	2006-09-07 00:39:34	N4MM	80m	CW	599	599		3506.960		W	5	NA	MacBook	Tom
3046	2006-09-07 00:45:25	N4NN	80m	CW	599	599		3507.540		W	5	NA	MacBook	Tom
3030	2006-09-07 00:32:08	N8AID	80m	CW	599	599		3506.580		W	4	NA	MacBook	Tom
1657	2006-09-04 23:18:39	NN1N	80m	CW	599	599		3506.470		W	5	NA	MacBook	Tom
3021	2006-09-07 00:25:17	NN3W	80m	CW	599	599		3507.940		W	5	NA	MacBook	Tom
1642	2006-09-04 22:55:21	NO2R	80m	CW	599	599		3506.670		W	5	NA	MacBook	Tom
3053	2006-09-07 00:53:52	NR1R	80m	CW	599	599		3507.440	double	W	5	NA	MacBook	Tom
1661	2006-09-04 23:24:46	NR1R	80m	CW	599	599		3507.450		W	5	NA	MacBook	Tom
5038	2006-09-09 22:58:45	VA3EF	80m	CW	599	599		3507.140		VE	4	NA	MacBook	Tom
3010	2006-09-07 00:15:43	VE1ZJ	80m	CW	599	599		3505.600		VE	5	NA	MacBook	Tom
3043	2006-09-07 00:42:37	VE3EJ	80m	CW	599	599		3507.040		VE	4	NA	MacBook	Tom
1660	2006-09-04 23:22:03	VE3LYC	80m	CW	599	599		3506.220		VE	4	NA	MacBook	Tom
1659	2006-09-04 23:20:58	W1FJ	80m	CW	599	599		3505.500		W	5	NA	MacBook	Tom
1635	2006-09-04 22:45:43	W1JR	80m	CW	599	599		3507.950		W	5	NA	MacBook	Tom
3011	2006-09-07 00:16:15	W1MK	80m	CW	599	599		3505.650		W	5	NA	MacBook	Tom
3027	2006-09-07 00:29:38	W1TYQ	80m	CW	599	599		3507.450		W	5	NA	MacBook	Tom

Screen shoot 41: Full Log Window

Here you see all QSOs in the log. Please note: In this table the first QSOs stands in the most upper line. As default all QSOs are listed and sorted by date and time. On the bottom are several popup

menus provided for filtering QSOs and how to sort. In this screen shot only QSO with North America on 80m in CW are shown. The list is sorted by callsign. It is possible to export only these shown QSOs using Menu --> Log --> Export... Mark the check box in the Export requester as required.

When an entry in the table is selected, you can edit the QSO data in the fields below. Press the 'Save' button to save the changes.

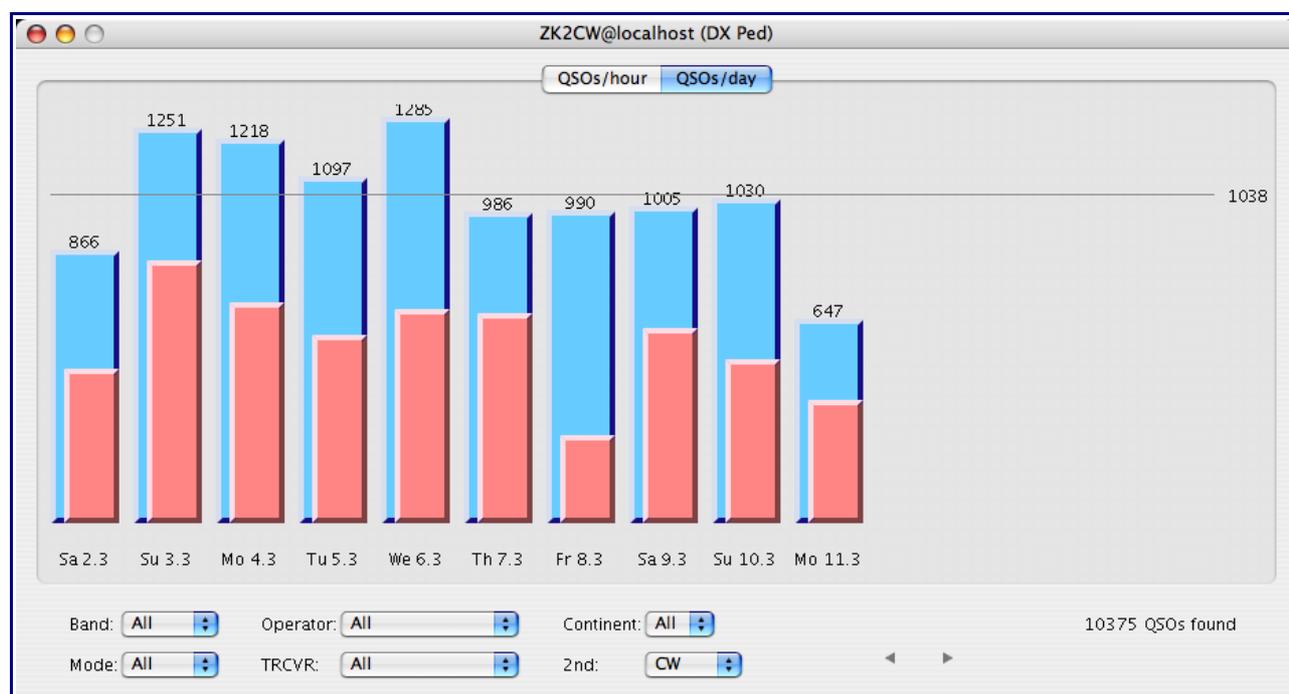
## Rate Window

Menu --> Window --> Rate... Shows a graphical view of QSOs per day or QSOs per hour

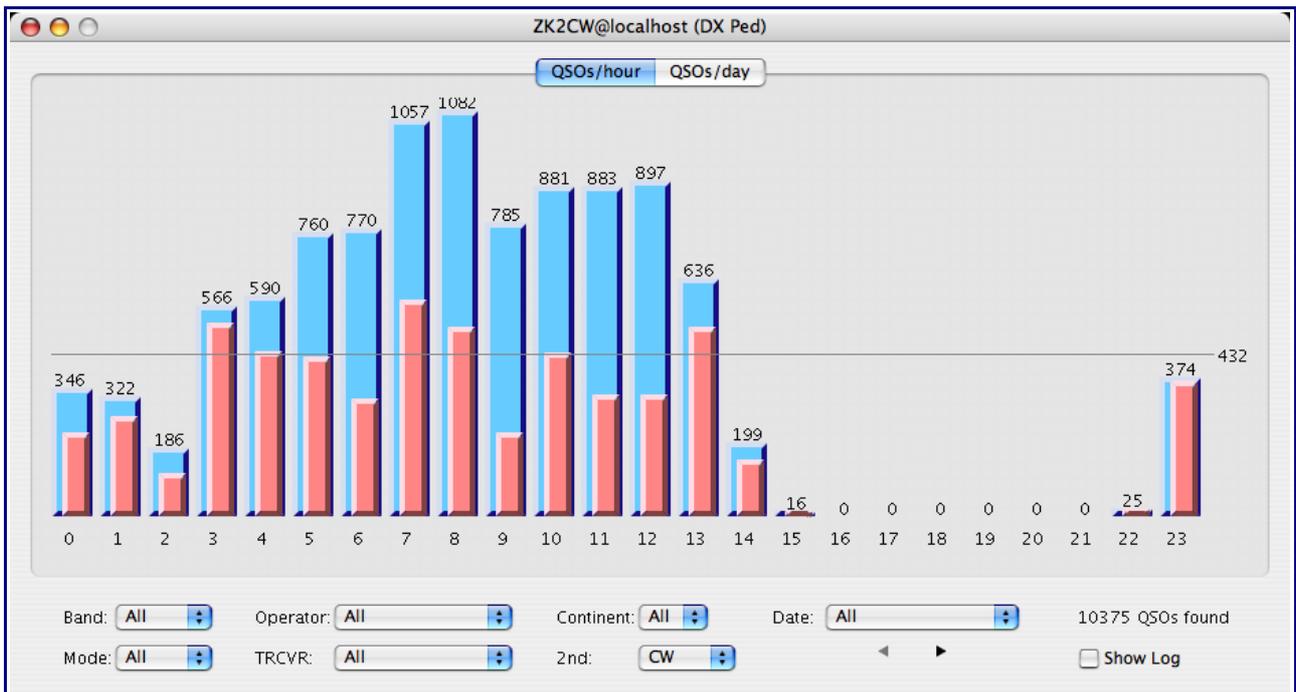
In this window are two tabs selectable. In the QSOs/Day tab 14 subsequent days are illustrated. Push the small arrows for the next or previous 14 day slot.

In the QSOs/Hour tab you can view each day separately or the QSO sum of all days during one hour. Mark the check box if you want to see the QSOs in the full log window belong to this graph. Click the arrows to scroll through the days.

In both views you can filter the presented QSOs by Band, Mode, op, station and continent. If you select to see QSOs in all modes, you can overlay a second graph in another mode. The horizontal line represents an average value.



Screen shoot 42: QSOs per day Window



Screen shoot 43: QSOs per hour Window

## QTC Log Window

Menu --> Window --> QTCs... To show a table with all received and sent QTCs (WAEDC only)

In this window all QTCs are listed. Select a QTC to edit this entry.

ID	YYYY-MM-DD HH:MM:SS	To/From Call	Band	Mode	Series	Time	Call	Num	Pts	T...
1	2006-08-12 06:05:07	LA2LFA	20m	SSB	1/10	0600	UA2DD	055	1	TX
10	2006-08-12 06:05:07	LA2LFA	20m	SSB	1/10	0603	SP5DED	000	1	TX
9	2006-08-12 06:05:07	LA2LFA	20m	SSB	1/10	0603	RA1JKJ	000	1	TX
8	2006-08-12 06:05:07	LA2LFA	20m	SSB	1/10	0603	GM0DDX	000	1	TX
7	2006-08-12 06:05:07	LA2LFA	20m	SSB	1/10	0603	OM3SX	000	1	TX
6	2006-08-12 06:05:07	LA2LFA	20m	SSB	1/10	0603	SM3FG	000	1	TX
5	2006-08-12 06:05:07	LA2LFA	20m	SSB	1/10	0603	OH2XX	000	1	TX
4	2006-08-12 06:05:07	LA2LFA	20m	SSB	1/10	0603	UA1AS	000	1	TX
3	2006-08-12 06:05:07	LA2LFA	20m	SSB	1/10	0601	DL7VFR/P	001	1	TX
2	2006-08-12 06:05:07	LA2LFA	20m	SSB	1/10	0600	DL2RUM	012	1	TX
11	2006-08-12 06:05:55	Z31AA	20m	SSB	2/2	0603	F6FNU	000	1	TX
12	2006-08-12 06:05:55	Z31AA	20m	SSB	2/2	0603	LA2LFA	000	1	TX
13	2006-08-12 06:06:25	DD6UO	20m	SSB	3/1	0605	Z31AA	000	1	TX
14	2007-07-01 11:27:55	PA2ER	20m	RTTY	4/1	1933	F6FNU	000	1	TX
15	2007-07-01 11:29:03	PA2ER	20m	RTTY	12/3	1212	W4FC	002	1	RX
16	2007-07-01 11:29:03	PA2ER	20m	RTTY	12/3	1213	DL7VEE	005	1	RX
17	2007-07-01 11:29:03	PA2ER	20m	RTTY	12/3	1215	F6FNU	123	1	RX

Screen shoot 44: QTC Window (Photo not taken from a real contest)

## Continent Table

Menu --> Window --> Continents... Overview of worked continents

The screenshot shows a window titled "Continent Statistic" with a menu bar containing "Total", "CW", "RTTY", "SSB", "BPSK", and "FM". The "Total" mode is selected. The table below shows QSO counts for various time slots across six continents and a total percentage.

	Europe	Asia	N.America	S. America	Africa	Pacific	Total	%
160m:	0	0	0	0	0	0	0	0,0%
80m:	0	2	15	0	0	2	19	0,2%
40m:	0	103	9	2	0	4	118	1,1%
30m:	103	358	166	4	0	14	645	6,2%
20m:	578	527	234	20	1	48	1408	13,6%
17m:	754	620	225	33	0	43	1675	16,2%
15m:	1087	1121	302	49	5	47	2611	25,2%
12m:	883	592	320	25	2	14	1836	17,7%
10m:	871	907	202	20	1	48	2049	19,8%
6m:	0	0	0	0	0	0	0	0,0%
<b>Total:</b>	<b>4276</b>	<b>4230</b>	<b>1473</b>	<b>153</b>	<b>9</b>	<b>220</b>	<b>10361</b>	
<b>%:</b>	<b>41,3%</b>	<b>40,8%</b>	<b>14,2%</b>	<b>1,5%</b>	<b>0,1%</b>	<b>2,1%</b>	<b>100,0%</b>	

You can select tables to show QSOs in each mode separately.

Screen shoot 45: Continent Table

## DXCC Table

Menu --> Window --> DXCCs... Overview of worked countries

The screenshot shows a window titled "QSOs / DXCC with doubles" with a menu bar containing "Total", "CW", "RTTY", "SSB", "BPSK", and "FM". The "Total" mode is selected. The table below lists QSO counts for various DXCCs across time slots and a total number of calls.

DXCC	QSOs	160m	80m	40m	30m	20m	17m	15m	12m	10m	6m	Calls
A9	1							1				1
AP	1						1					1
BV	7					1		4		2		5
BY	25			1	1	5	6	5	2	5		11
CE	20				2	2	4	5	3	4		7
CO	1								1			1
CT	17					4	3	8	1	1		8
CT3	1							1				1
CU	1							1				1
CX	10					2	2	3	1	2		7
DL	718				26	106	129	174	155	128		320
DU	23				1	6	4	5	2	5		11
EA	53				8	14	13	3	14	1		36
EA6	2								2			2
EA8	8					1		4	2	1		6
EI	1					1						1
ER	8					1	2		3	2		3
ES	24					2	5	6	5	6		7
EU	9					1	3	1	2	2		5
EX	7					1	1	2	1	2		4
EY	8					2	1	2	3			2
EZ	1								1			1
F	135				16	25	28	28	24	14		76
FV	7					1						7

In this table the number of QSOs per DXCC are listed. You can select a mode. The last row in the table shows the number of different worked callsigns per DXCC. Click in the header of the table to sort.

All QSOs are counted, even the dupes.

Screen shoot 46: DXCC Table

## Multiplier Table

Menu --> Window --> Multis... Overview of worked multipliers and QSOs per multiplier

Multi	Sum	160m	80m	40m	20m	15m	10m
JAS	1				1		
JAB	2				1	1	
LA	1					1	
LU	2				1	1	
LY	2					2	
OM	1					1	
ON	1					1	
SP	1				1		
SV	1					1	
UA	2				2		
UA0	1					1	
UR	1				1		
VE3	1				1		
VE3	1				1		

Screen shoot 47: Multiplier Table

Nothing else to explain....

## Callsign Table

Menu --> Window --> Calls... Gives an overview of all QSOs per callsign

Call	160m	80m	40m	30m	20m	17m	15m	12m	10m	6m	QSOs	Bands	QSOs	Calls
DL8YRM						CS	CRS	CS	CS		9	4	1	3528
DL4MCF				C	RS	C	CR	CS	C		9	6	2	1090
SP5WA					CS	CS	S	CS	CS		9	5	3	484
OK2VA					CS	CS	C	CS	CS		9	5	4	251
JA2CYL			C		CR	C	CS	C	CS		9	6	5	139
JR2KDN			C	C	C	S	CRS	C	C		9	7	6	70
JK10TP			C			CS	CR	CS	CRS		10	5	7	61
JE2PCY				C	CR	C	CR	CS	CS		10	6	8	33
UA3AGW					CS	CS	CS	CS	CS		10	5	9	10
JL1WPQ				C	CR	CS	RS	CS	CS		11	6	10	3
OK1AOV				C	CS	CS	CS	CS	CS		11	6	11	3
DL7UFN					CS	CS	CRS	CS	CS		11	5	13	2
JA0DAJ			C	C	CR	S	CRS	CS	CRS		13	7	14	1
JG3SLJ			C	C	C	CS	CRS	CS	CRS		13	7		
JE8CLT			C	C	CRS	CS	CRS	C	CRS		14	7		

Total QSOs: 10375      Different Calls: 5675

1-Band QSOs: 3623      2-Band QSOs: 1143      3-Band QSOs: 480      4-Band QSOs: 253      5-Band QSOs: 133

6-Band QSOs: 37      7-Band QSOs: 6      8-Band QSOs: 0      9-Band QSOs: 0      10-Band QSOs: 0

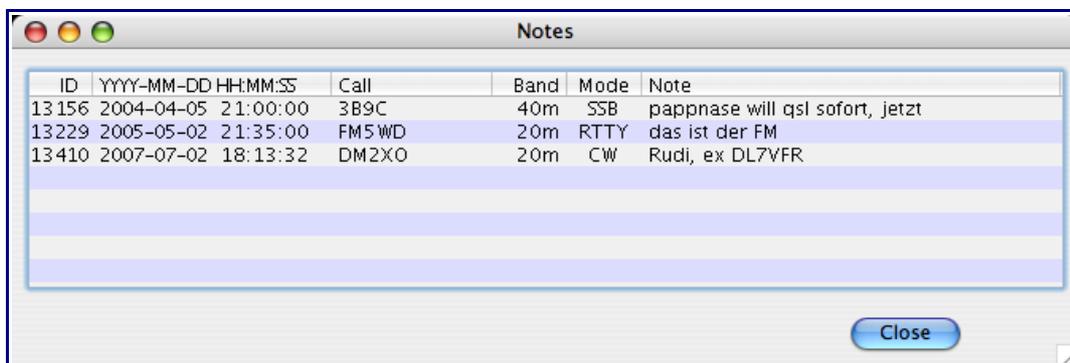
Screen shoot 48: Call Window

In these tables you get an overview about multiple QSOs per callsign. The letters in the table indicates the mode. C-CW S-SSB R-RTTY .... Press a header to sort the list.

In the example above JE8CLT has made 14 contacts (*without dupes*) on 7 bands, 3 stations have made 10 QSOs and 6 stations made 7-band QSOs. There are 5675 different callsigns in the log.

## Notes Window

Menu --> Window --> Notes... Shows all QSOs where a note was added

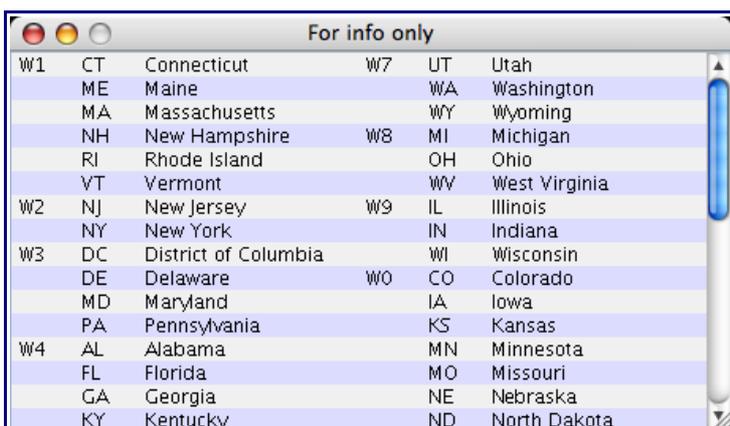


Double click an entry to edit. To delete a note just delete the text in it.

Screen shoot 49: Notes Window

## US-States Table

Menu --> Window --> US\_States... Table of the US states and provinces of Canada

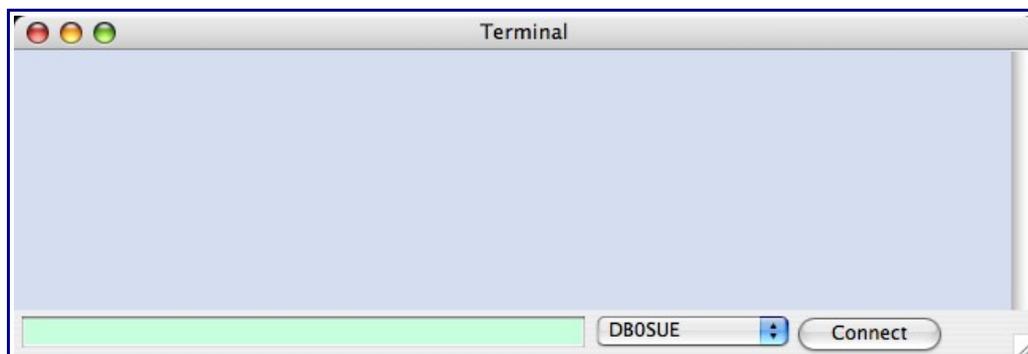


This is a fixed table just for operators information. Call areas and abbreviations of states are shown. This may be helpful in ARRL contests.

Screen shoot 50: US-States Table

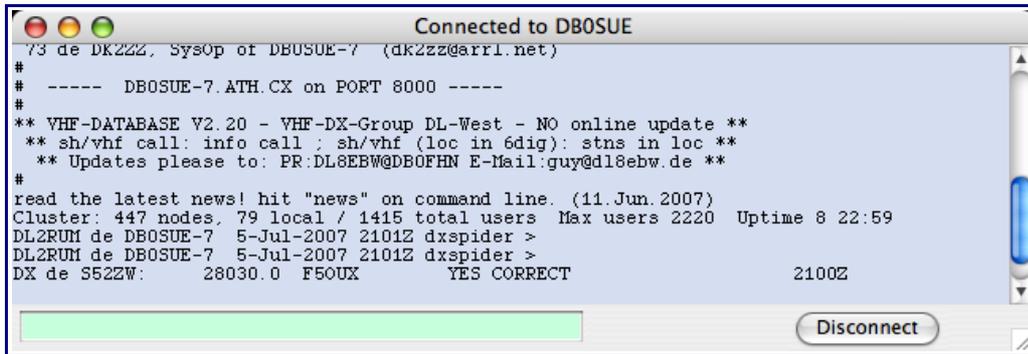
## Terminal Window

Menu --> Window --> Terminal... Shows the window used for Telnet dx-cluster connection



Select a cluster from the popup menu and press the 'Connect' button to establish the connection. Set up the cluster in the DX Cluster tab in the preferences window.

Screen shoot 51: Terminal Window disconnected



While connected a 'Disconnect' button is shown. Use this one only, when the normal 'quit' command does not work.

Screen shoot 52: Terminal Window connected

Use the green field for type in text commands to the dx cluster, while the blue field is used to show received messages from the cluster.

When you have select the option 'Send dx spots to other' in the Network tab of the preferences window, other stations see a mirror of your blue output field.

When you 'Use dx spots from other' stations you can not select a dx-cluster yourself and the 'Connect' and the 'Disconnect' buttons are not shown. It is possible to send commands to the cluster via the LAN.

## DX Announcement Table

Menu --> Window --> DX Spots... Shows the dx spots coming from the cluster

Time	Call	Mode	QRG
1121	RU6FA/6/P	SSB	14183.0
1121	DA0UBOOT	CW	24893.0
1117	G8VG	CW	28025.0
1115	SI9AM	SSB	14272.0
1115	DA0UBOOT	CW	24893.0
1113	SI9AM	SSB	14272.0
1113	RA1QR/3/M	SSB	14177.5
1112	CT2IVH	SSB	28530.0
1111	EI7OFOY	SSB	14235.0
1110	EA1FD	SSB	28480.0
1109	EC1AE	SSB	24955.0

The most recent spot stands in the upper line. The background of the spots may be colour coded, depending of the contest. A red spot indicates a new multiplier on your current active band, a yellow background shows a new multiplier on another band. You can filter out spots using the DX Cluster tab in the preferences window.

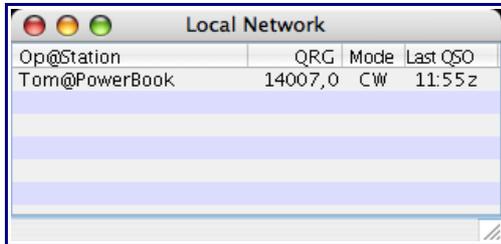
Double click an entry to set your log and TRX to the shown frequency and mode. The call will be written in the pink call field.

When a new dx spot is coming in and this window is closed, it will open again. If you don't like to see this window, hide it only and do not close it.

Screen shoot 53: DX Spot Table

## LAN Table

Menu --> Window --> LAN Shows information other stations in the LAN

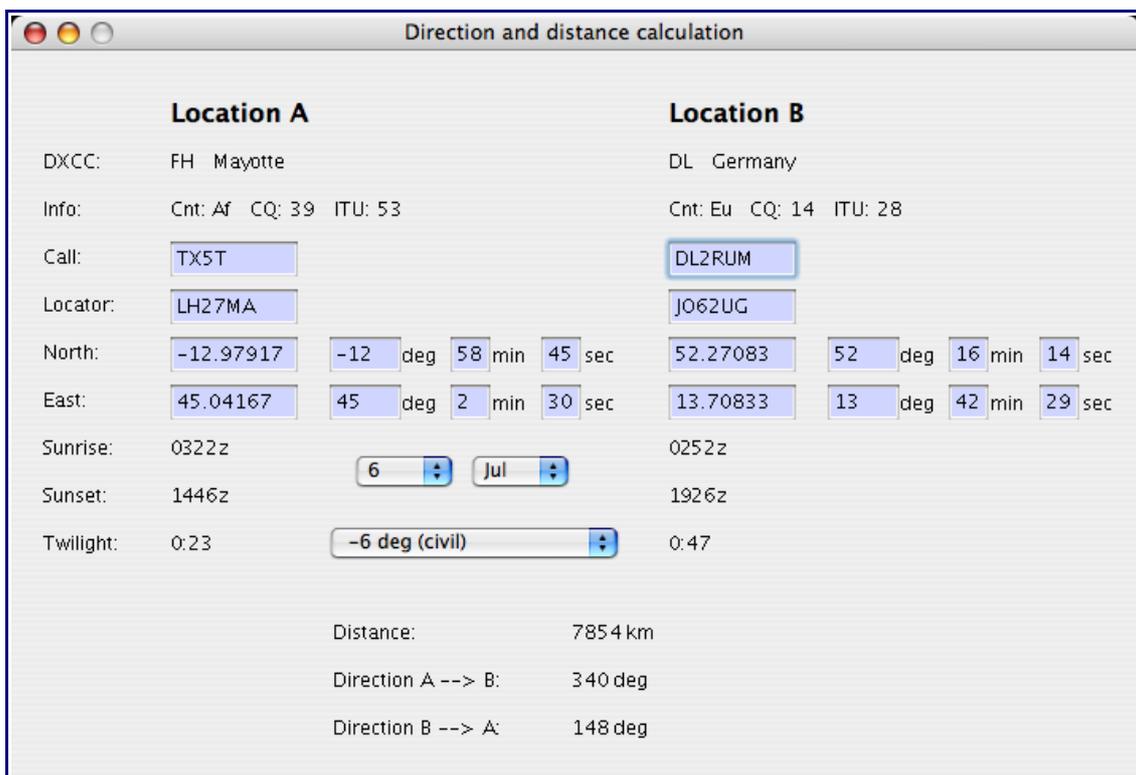


Here you can see the operators other stations in the LAN. When the correct frequency can not determined (no TRX connected) only the band will be posted.

Screen shoot 54: LAN Table

## Sun and Distance Calculations Window

Menu --> Window --> Sun/Dist. Calculation... Shows also directions, twilight time, locators....



Screen shoot 55: Direction, Distance and Sun Calculations Window

In this window you can calculate a locator from given coordinates or the coordinates from a given locator. Or just enter a prefix to use the default locations.

For the sun computations you can select a date. The duration of twilight is posted in hours, this may be helpful for grayline dxing. There are three definitions for twilight:

1. Civil: The time between sunset or sunrise and the sun is not more than 6 deg. below the horizon. Only the brightest stars appear during civil twilight. During this period there is still

enough light from the Sun so that in most cases artificial sources of light are not needed to carry on outdoor activities.

2. Nautical: The time between sunset or sunrise and the sun is not more than 12 deg. below the horizon. You can see reliable star sights of well known stars. Under good atmospheric conditions and in the absence of other illumination, general outlines of ground objects may be distinguishable, but detailed outdoor operations are not possible, and the horizon is indistinct.
3. Astronomical: The time between sunset or sunrise and the sun is not more than 18 deg. below the horizon. Below 18deg. most casual observers would consider the entire sky already fully dark even when astronomical twilight is just beginning in the evening or just ending in the morning.

*Sun calculations are very complex, here is used a less complex algorithm. The results may differ up to 5 minutes!*

### Sun and Distances Table

Menu --> Window --> Sun/Dist. Table... Table of all DXCCs and call areas

DXCC	Country/Area	Cnt.	CQ	ITU	deg.	km	Sunrise	Sunset	Twilight	Daylight
ZL7	Chatham Island	Oc	32	60	43	18827	1919z	0421z	0:33	9:02
ZL	New Zealand	Oc	32	60	56	18126	1943z	0504z	0:30	9:21
ZL9	Auckland and Campbell Is	Oc	32	60	95	18122	2053z	0504z	0:38	8:11
VK0M	Macquarie Is.	Oc	30	60	112	17481	2202z	0526z	0:45	7:24
ZL8	Kermadec	Oc	32	60	25	17282	1845z	0506z	0:26	10:21
VK9N	Norfolk Island	Oc	32	60	49	16676	1941z	0603z	0:26	10:22
FO/A	Austral Island	Oc	32	63	330	16579	1642z	0325z	0:24	10:43
ZK1	South Cook Islands	Oc	32	62	349	16494	1717z	0411z	0:24	10:54
VK9L	Lord Howe Is.	Oc	30	60	65	16431	2024z	0632z	0:27	10:08
A3	Tonga	Oc	32	62	15	16348	1815z	0513z	0:24	10:58
ZK2	Niue	Oc	32	62	6	16300	1753z	0455z	0:24	11:02
3D2C	Conway Reef	Oc	32	56	34	16250	1903z	0553z	0:25	10:50
3D2	Fiji	Oc	32	56	26	16071	1841z	0543z	0:24	11:02
FK	New Caledonia	Oc	32	56	44	15949	1931z	0621z	0:25	10:50
FO	French Polynesia	Oc	32	63	333	15945	1631z	0337z	0:23	11:06
3Y	Bouvet	Af	38	67	215	15851	----	----	----	----
KH8	American Samoa	Oc	32	62	7	15738	1748z	0508z	0:23	11:20
VK0H	Heard Island	Af	39	68	67	15718	2039z	0705z	0:26	10:26
VK	Australia	Oc	0	0	67	15718	2039z	0705z	0:26	10:26
VP6	Pitcairn	Oc	32	63	301	15717	1524z	0203z	0:24	10:39
5W	Western Samoa	Oc	32	62	9	15618	1750z	0514z	0:23	11:24
FW	Wallis & Futuna	Oc	32	62	15	15501	1807z	0520z	0:23	11:22

Screen shoot 56: Distance, Direction and Sun Table

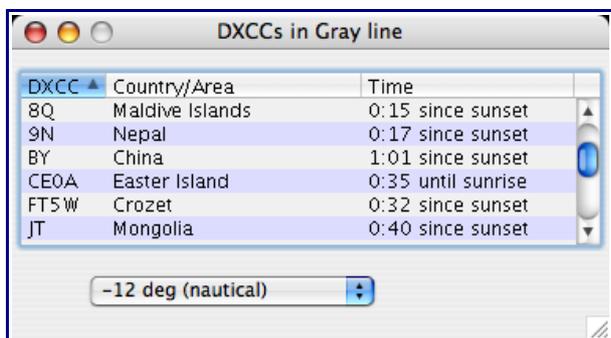
In this table you do not find DXCCs only, you can see call areas, towns etc. you have added in your 'DXCC.rsd' database. Push the header on a row to sort it. The table above shows the DXCCs with the biggest distances first from my home location.

In the lower left hand side you can enter a prefix, which is used as reference. For the sun calculations you can select the date and time. The 'Now' button selects current date and time. When the button 'Gray Line' is selected, only entries in the twilight zone are shown.

Refer to the previous sub chapter for definition of twilight.

## DXCCs in Gray Line Table

Menu --> Window --> DXCCs in Gray Line...



DXCC	Country/Area	Time
8Q	Maldive Islands	0:15 since sunset
9N	Nepal	0:17 since sunset
BY	China	1:01 since sunset
CE0A	Easter Island	0:35 until sunrise
FT5W	Crozet	0:32 since sunset
JT	Mongolia	0:40 since sunset

-12 deg (nautical)

Screen shoot 57: DXCCs in Gray Line Table

This is a real time table and is refreshed every minute. Countries and call areas currently located in the gray line are presented. The twilight zone width is selectable.

Press a header to sort the list.

## Using RUMped

It is assumed, you are familiarly with the windows and menus and you have made all the required settings to RUMped and your connected hardware.

### **Basic (Phone) Operation**

Logging is easy as it is. RUMped is a real time logging tool, there are no features for a post contest processing provided.

Select a mode and a band from the popup menus or just enter a frequency in Khz and press the 'Enter' key. RUMped will set the appropriate band and mode.

While entering the callsign, information about the DXCC are shown and the partial call check starts. You can now press a 'Enter' key to log the QSO or the 'Space' bar or the 'Tab' key to input further data. *The 'Space' bar always will toggle the focus between call and rcvd number field, while the 'Tab' key circles though all fields.* The Partial Call Check result is exchanged with the Similarly Call Check result and previous QSOs are shown in the log table. (When these options are set.) Change the rst or enter the received control number and press a 'Enter' key to log he QSO.

### **CW Operation**

Currently only WinKey is supported for CW output. See <http://k1el.tripod.com/> for details. I use a home made Winkeyer, but there are some devices to buy, ready to use.

You can use the CW features in the main logging window and the QTC in/out window only. Please note, that the memories has not the same allocation in these windows.

Pressing the 'Escape' key will always stop the transmission immediately.

Winkey allows callsign type ahead. Callsign type-ahead is pretty well an essential requirement in contest or DX-pedition logging. It enables the operator to type in and/or correct the callsign as the CW exchange is being sent. So long as you get the character typed in correctly before the CW sending catches up to that point, then it gets sent correctly. In RUMped callsign type ahead is used in conjunction with the '+' key. Pressing this key will start the QSO exchange, which is defined as callsign + F2 memory (normal: rst + ctrl number). As callsign is used the text in the pink call field. When this field is empty, the last logged callsign will be used. Type in the prefix and press the '+' key. While Winkey starts to send the prefix you can enter the suffix. This saves time! You can correct the callsign, until the character is not sent out yet.

There are two options available for saving the QSO:

1. Using the left 'Enter' key near the middle of your keyboard will just log the QSO
2. Using the right 'Enter' key in the numpad will log the QSO and sent out the TU message.

Make sure you have assigned the exchange message to the F2 memory and the TU message to the F3 memory. This allows RUMped to work correctly. Assign the other memories for your convenience.

If you want to send free text, use the keyboard mode. *Menu --> TRCVR --> Keyboard Mode* While in keyboard mode each key press will be send out immediately by the WinKeyer.

## RTTY Operation

RUMped supports two often used types of hardware controllers and cocoaModem, which is a software modem. cocoaModem is a very clever application to work in common used digital modes written by Chen, W7AY. Get it for free: <http://homepage.mac.com/chen/> When you have selected to use the cocoaModem for RTTY operation, RUMped acts as a remote control for cocoaModem and you can control cocoaModem from its own interface at the same time.

Make sure, you have made the RTTY settings in the preferences, before you change the mode to RTTY!

When RTTY mode is selected in your log and an interface is chosen, the main logging window enlarges to show the RTTY interface. On the right hand side is a table located, to list callsigns which are automatically detected by RUMped. The most recent found callsign stands in the upper line. In the RTTY output field the detected callsigns and the text itself are colour coded:

- Red: Call found in the log on this band. (Double)
- Green: Call found in the log on another band
- White: Call found in the MasterDat database, or any own sent out text
- Grey: Call following a 'de'
- Yellow: Other received text



Screen shoot 58: RTTY or PSK Output

In the example above please note that UA1AA is recognized only by the word 'de' and W7AY was not recognized. All found callsigns (except dupes) are listed in the table on the right hand side. Use the up/down keys (even when the cursor is located in the pink call field) to select a callsign in the list. Press the 'Space' bar just to take over this call or press the '+' key to take over and to send the exchange message. When you have your mouse handy, you can double click an entry using the left mouse key to take it over, or double click the right mouse key to send the exchange as well.

You can use the blue text field in a same manner. Double click left on a text to take over and double click right to send the exchange information.

*Instead the right mouse button, you can use the left one, while holding down the 'Control' key on the keyboard.*

When the callsign is scrambled or spaces are missing, move the mouse over the text, containing a part of the call, while holding down the left mouse button. This selected text will be appear in the pink call field.

The memories work in the same way, like in CW. Using the '+' will send the exchange message.

**Type ahead (like in CW) is not possible in RTTY!** Use the right 'Enter' (numpad) to log the QSO and send the TU message.

While in Keyboard mode, you can pre type your text. To send it out you have to select 'TX' in the RTTY menu. You can use the memories as well. Selecting 'RX' from the menu, will switch the trcvr to RX **after** all text is sent. For an immediately abort, press the 'Escape' key.

## **PSK Operation**

For PSK you can choose cocoaModem only. Since it is a digital mode like RTTY, refer to the RTTY chapter above for details.

Make sure, you have made the BPSK settings in the preferences, before you change the mode to PSK! Before you can send text, you have to select a frequency in cocoaModem's waterfall display.

## **Hellschreiber Operation**

For Hellschreiber you can choose cocoaModem only. This is a video based communication, so RUMped can't display incoming traffic. Use the cocoaModem's user interface. It is possible to use RUMped's memories.

Make sure, you have made the Hellschreiber settings in the preferences, before you change the mode to HELL!

## **Transceiver Control**

This is a two way communication: Make changes in the log will affect the trcvr, changing band or mode direct on the trcvr will set the log accordingly. In the preferences you have the choice of one Kenwood and some Icom trcvrs. Other Kenwood transceivers should work as well, which I can't test. Only few control commands are used and should be common for other models. You can also try other Icom trcvrs. You have to change the CIV address on your trcvr, to match with the default address from the trcvr you have chosen. In RUMped the addresses are fixed:

IC-7400/IC746PRO: 66h

IC-7000: 70h

IC-706MK2G: 58h

To tune an exact frequency just enter the frequency in Khz into the pink call field and press the 'Enter' key. Both VFOs in the trcvr will be tuned. When you use the band popup menu or the Band up/Band down menu, the last used frequency on this band will be used.

Entering '-' into the pink call field and pressing 'Enter' will toggle the split on or off. In the main logging window you find an info about the split status. This works fine on a Kenwood, but is tricky on an Icom.

### ICOM only:

RUMped is not able to determine the used VFO and the status of split, due to the limited CIV protocol. When you work split using both VFOs on an Icom rig you have to perform following steps:

1. Make sure split is off. Do **not** use the buttons on your trcvr, always use the '-' command.
2. Select your TX frequency in any way.
3. Toggle on split using the '-' command.

Both VFOs are set now to the same values and split is switched on. Only this procedure ensures the correct split read out and the logging of the correct TX frequency. In the log your TX frequency is saved as VFO B and your RX frequency as VFO A.

## **Contest Operation**

Running a contest is the same like logging in dx-ped mode. Contests may be limited to some bands and/or modes only. You are able to log QSOs on another band (WARC), but these QSOs will not appear in a statistic and will be counted with zero points.

Take care about the mode. RUMped allows you to log all modes and will count these QSOs as valid, even when this mode is not allowed in this contest!

When the control number is fixed (state or zone), RUMped tries to determine this number after pressing the 'Space' bar on the base earlier QSOs.

The latest contest rules are integrated in RUMped. Don't worry after changes: All the calculated points and multipliers are for your info only, since only the 'Cabrillo' log will be send to the organizer. He will calculate your result.

When creating a new log, there is a contest named 'Unsupported' selectable. No QSO points and no multipliers are computed, nor indicated. You can enter as received or sent control number whatever you want. There is only one option available: When there is a numerical control number, it can be incremented automatically after each QSO.