

# ***Windows Heading & Country Finder***

## **About WinHdg**

WinHdg is a Ham Radio program for finding heading and country information from callsign prefix data.

What I needed was a Windows program that I could input a callsign or prefix and get country and heading data quickly. I also wanted a program that wouldn't take up a bunch of space on my desktop.

I am a member of one of the local DX packet clusters and I used to use the SHOW/HEADING command quite often. I really like having WinHdg available, especially at times when I'm using my multimode controller for something else, or when the board is very busy.

WinHdg was written in Turbo Pascal 7.0 on a 386DX25 system running Windows 3.1 in the 386 enhanced mode.

## **Using WinHdg**

I wanted to keep WinHdg very straight forward. Therefore the only input on the main window is the Prefix box. WinHdg will look up the prefix and display the primary prefix, country, heading, distance and CQ zone data as you type.

A minimize button is provided to take WinHdg off the desktop while still having it readily available for use.

I avoided putting a menu bar in the window in order to keep WinHdg's window compact, so I added the needed menu commands to WinHdg's system menu. Menu items include Setting Own Coords, Help and About.

## **Setting Own Coordinates**

Enter your home latitude and longitude as a decimal value. Also use + or - values for north or south and west or east coordinates.

Northerly latitudes are taken as positive.

Southerly latitudes are taken as negative.

Westerly longitudes are taken as positive.  
Easterly longitudes are taken as negative.

**Example:**

The coordinates of my QTH here in Littlerock, CA (No, Not Arkansas! hi hi.) are 34 degrees 31 minutes North by 118 degrees 1 minute West.

34 degs 31 mins north =  $34 + 31/60 = +34.517$  latitude  
118 degs 1 mins west =  $118 + 1/60 = +118.017$  longitude

So I would enter +34.517 for my latitude and +118.017 for my longitude. Clicking the OK button will save these values in WINHDG.INI in the main windows directory.

**Prefix File Format**

WINPFX.TXT contains the secondary to primary prefix data. WinHdg scans the first column backwards, until it finds a match. Then the primary prefix in the second column is used to look up country data in WINCTY.TXT.

To change a secondary to primary lookup, use a text editor on WINPFX.TXT. If you have Paradox, perform your changes to WINPFX.DB then export the file to WINPFX.TXT using the options of *commas* for field separators and *none* for delimiters.

Make sure to keep the secondary prefix column (the first column) in alphabetical order since WinHdg scans backwards and stops on the first match.

**Example:**

We enter the callsign KH1AA. The program searches up through the list looking for the first match and finds KH1 in the first column. This translates to WH1 (Baker, Howland Is.) in the second column, and all's well

**Secondary Primary**

.	.
.	.
.	.
K,	W

```
KH0, WHO
KH1, WH1 <- stops here
KH2, WH2
. .
. .
. .
```

**but...** if we have the data arranged as in the table below, the program will stop at K, translating to W (USA).

### **Secondary Primary**

```
. .
. .
. .
KH0, WHO
KH1, WH1
K, W <- stops here
KH2, WH2
. .
. .
. .
```

If you have looked at WINPFX.TXT you have probably noticed some call signs in the first column. This overrides the default prefix for that particular callsign in cases where the default would be incorrect. This would also work if the callsigns were added to the end of the file.

Note: If you modify this data file you must restart WinHdg for the changes to take effect.

### **Country File Format**

WINCTY.TXT contains the primary prefix, CQ zone, country and coordinates. WinHdg scans the first column forwards, until it finds a match. The coordinate fields are used to calculate the heading and distance and then all the data is updated on the screen.

To change a primary prefix lookup, use a text editor on WINCTY.TXT. If you have Paradox, perform your changes to WINCTY.DB then export the file to WINPFX.TXT using the options of *commas* for field separators and *none* for delimiters.

WINCTY.TXT does not need to be in alphabetical order but remember that you only need one entry per country.

In most cases I tried to input country coordinates that centered on each country. If you want to change the coordinates, follow the same latitude/longitude format as explained in Setting Own Coordinates.

Note: If you modify this data file you must restart WinHdg for the changes to take effect.

### **Future Enhancements**

- An install program to make the installation of WinHdg and updates more straight forward.

-A built-in Prefix & Country file editor to make additions and changes to these files easier, and without having to bring up an external editor or Paradox.

### **Bugs**

If you have any bugs in the software, please report what circumstances the bug occurred under, what processor, what operating system, what windows version, etc.

You may also send in comments, likes, dislikes and what other features you would like to see on this software.

### **ShareWare Notice**

WinHdg is distributed as a ShareWare program. This gives you the opportunity to try WinHdg for the 30 day free trial period. This method of distribution was selected to provide you with the opportunity to obtain a useful application at a low price.

If you find WinHdg useful and decide to continue using it, then print out a registration form and send it in along with your registration fee. I will send you a registered copy of WinHdg and you will also be entitled to one free update as it becomes available.

Feel free to give your friends a copy of WinHdg to try out!

### **Packing List**

The following files should be included in the package, and should all be

in a common sub-directory on your hard drive.

WINHDG.EXE	Program file
WINHDG.WRI	Document file
WINPFX.TXT	Prefix file
WINPFX.DB	Prefix file (Paradox format)
WINCTY.TXT	Country file
WINCTY.DB	Country file (Paradox format)
WINHDG.HLP	Help file
REGISTER.WRI	Registration form
BWCC.DLL	Custom controls
FILE_ID.DIZ	File description for BBS
README.TXT	Installation instructions

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