Ergo and FMSCAN

This is an Application Note on how to import FMSCAN data into Ergo.

Download Data to Excel

1. Using your web browser, go to http://fmscan.org/tools.php and select "Stationlist".
2. Select the LW/MW/SW data, CSV format with a comma separator.
3. Right click on Download and Save Link As …
4. When the file is ready, save it as "User.txt" or whatever, just ensure it is a text file.
5. Run Excel, and Open "User.txt" as a CSV file. Using the Text Import Wizard in Excel:

   - Delimited file
   - Start import at row # 22 (or wherever the data starts) and change File Origin to Windows ANSI.
   - Select the Comma delimiter and General Data Format
   - Finish the import and save the worksheet

Format Data in Excel

You can choose to keep or reject any column. The CSV columns are not properly identified on the web site, to pay attention to what you are doing. Here are my suggestions. In general, get rid of columns you don't want. You also need to convert the time, latitude and longitude data into a format Ergo can use (described below.)

6. Insert a new ROW 1 for titles. Your data will now start in ROW 2.
7. Modify the worksheet as follows. Where indicated, WIDEN the column to fit data.

Excel Column	Label	Notes
A	FREQ	Frequency in kilohertz
B	CTY	Country Code
C	LANG	Language where given
D	STATION	Name or Call Letters of Station - WIDEN
E	MODE	
F	LOC	Location - WIDEN
G	XLAT	Latitude temporary column – to be converted into an integer
H	XLON	Longitude temporary column – to be converted into an integer
I	X1	To be deleted
J	ERP	Power
K to O	X2 to X6	To be deleted
P	XTIME	WIDEN slightly – to be converted into Start and Stop times
Q	DAYS	Days of the week for the broadcast
R and LATER		Delete these columns now.

8. Now delete columns X1, X2, X3, X4, X5, X6. You should be left with Columns A to K which are: FREQ, CTY, LANG, STATION, MODE, LOC, XLAT, XLON, ERP, XTIME and DAYS.

9. Add four new columns to the right: START, STOP, LAT, and LON. These will be columns L, M, N, O. Calculate these columns using the following formulas:

START	=MID(J2,1,4)	Converts the XTIME column data into two fields: START and STOP
STOP	=MID(J2,6,4)	
LAT	=ROUND(G2,0)	Creates latitude as a positive or negative integer
LON	=ROUND(H2,0)	Creates longitude as a positive or negative integer

Copy and paste these calculations for the entire worksheet rows.

10. Save the worksheet.
11. Final Note before proceeding:

    - Importing data into Ergo has two required fields: Frequency and Mode. Most of the data imported from FMSCAN has a blank in the MODE column. You edit this column however you want different mode names, and then associate them with Ergo when you import.

Create a dBase IV File

12. Convert that worksheet into a dBase IV file. There are various ways of doing this. See the ERGO FAQ.

    - If you have Microsoft Access, the easiest way to create a dBase IV file is to open the worksheet in Access, import the data and then export to dBase IV.

Import Data into Ergo 4

13. Run ERGO4DSI.EXE from the Windows Start Menu (Ergo 4 DSI)
14. Select “Import Custom Database” and press “Next”.
15. Select your newly created dBase IV file as the Source Database. Name a Working Database for Ergo in a new folder. Press “Next”.
16. Select all the fields for import **except** XLAT, XLON and XTIME. You do not want these. For the Text fields you are importing, reduce the size of these fields appropriately. For example:

    - CTY (Country) change to 6 width from 254
    - LANG (Langua6e) 7
    - STATION 30
    - MODE 6
    - LOC (Location) 30
    - DAYS 8
    - You can also change the Display Name for the columns, and if you want choose not to display LAT and LOC. Then press “Next”.

17. Select what indices you want. I suggest you index on FREQ, CTY and STATION. Press “Next”.
18. Associate your data fields with Control Functions in Ergo. The default options work. You should set: Frequency=FREQ, Mode=MODE, Start=START, Stop=STOP, Location=LOC, Latitude=LAT, Longitude=LON, Power=ERP and Days of Week = DAYS. Press “Next”.
19. Associate modes as described in Step 11. Press “NEXT”.

An Ergo-formatted working database will now be created.