

Broken Arrow Amateur Radio Club Presentation
What is Chirp and How do I use it to program my radios?
Prepared by Dr. Greg Meador – AI5HV April 1, 2024

What is Chirp ?

CHIRP is free Ham radio programming software that manages the radio's address book by plugging the radio into your computer. It's open source and works with the three major desktop operating systems (Windows, macOS, and Linux), but if you have a choice, use Windows because it avoids some minor frustrations. CHIRP works with most common radios.

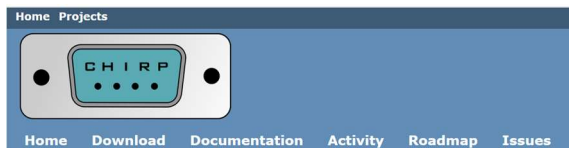
Where can I get a copy of the Chirp software ?

You can download a free copy of Chirp from:

<https://chirpmyradio.com/projects/chirp/wiki/Home> (new URL)

<https://chirp.danplanet.com/projects/chirp/wiki/home/> (old URL)

A list of all of the radios supported can be found at this web site.



CHIRP is a free, open-source tool for programming your radio. It s and models, as well as provides a way to interface with multiple d:



To get started:

1. **Download CHIRP** for your platform
2. Check out the "How to get help" page, and the rest of the Documentation.
3. Join the mailing list!
4. Be sure to review the FAQ.

<https://chirpmyradio.com/projects/chirp/wiki/Download>

CHIRP-next

This has the latest and greatest set of features and fixes. Drivers that have *not* been val page. This is the only version of CHIRP that is actively maintained. All users should be r

Download the latest CHIRP-next build here

System requirements for CHIRP-next:

- Windows 10 and later (64-bit)
- macOS Big Sur and later (universal binary with Intel and Apple Silicon support)
- Linux (all modern distros with python3, details here)

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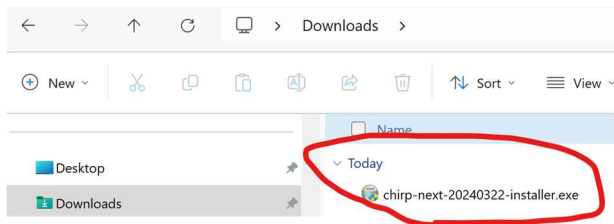
Name	Last modified	Size	Description
Parent Directory		-	
unit_report.html	2024-03-22 02:15	3.1M	
supported.md	2024-03-22 02:15	18K	
model_support.html	2024-03-22 02:15	1.8M	
driver_report.html	2024-03-22 02:15	38M	
chirp-next-20240322.app.zip	2024-03-22 02:15	38M	MacOS Application
chirp-next-20240322-win64.zip	2024-03-22 02:15	23M	
chirp-next-20240322-installer.exe	2024-03-22 02:15	18M	Windows Installer (recommended)
chirp-20240322.tar.gz	2024-03-22 02:15	1.9M	Source Tarball
chirp-20240322-py3-none-any.whl	2024-03-22 02:15	1.6M	Python 3 wheel
build_properties	2024-03-22 02:15	95	
SHA1SUM	2024-03-22 02:15	651	

Click on the software title that is highlighted. Please keep in mind that the filename will change based on the release date.

Installing the software

Browse to the default folder (Downloads) and double click on the chirp-next-20240322-installer.exe.

Please note that the Chirp software is updated on a regular basis so your file name may be different.

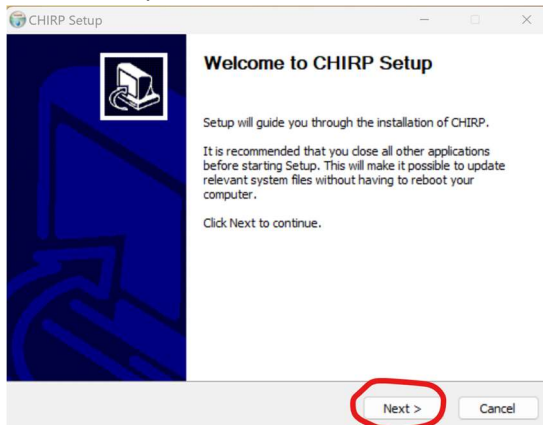


Double click the .exe file.

Depending on your user account control settings on your computer you may or may not see a screen that asks you:

Do you want to allow this app to make change to your device?

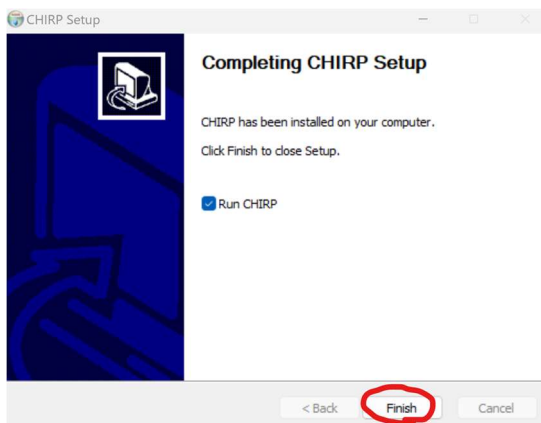
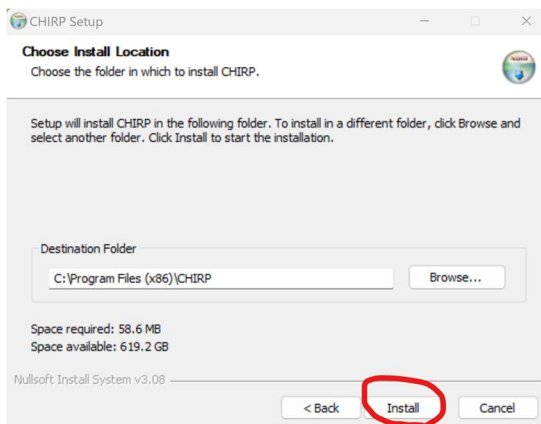
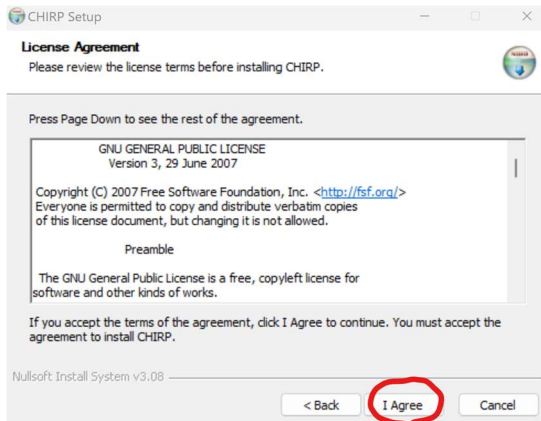
Click Yes to proceed.



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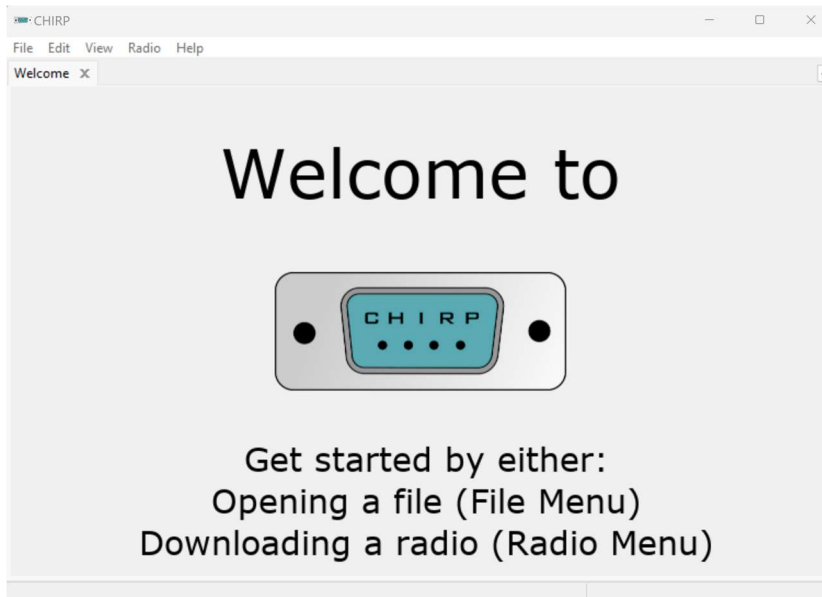
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Running Chirp



Locate your programming cable and plug the USB-A connector into the computer.

From the Windows computer press and hold the Windows key and press the letter Q.

In the search box, type in device manager and press enter.

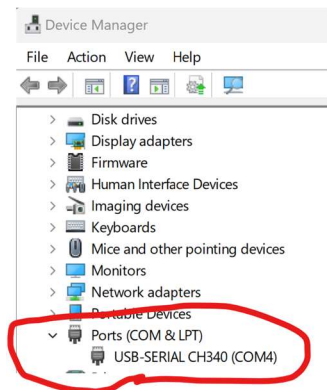
This command works on Windows 10 & 11.

With regards to earlier versions of Windows, you will need to click on Start then select run and type device manager and press enter.

Plug the other end of the programming cable into the radio and power the radio on.

In the device manager radio, look for Ports to show up in the screen.

You will need to click on the > Ports to expand it.



Make note of this COM4 you will need to select that port in Chirp.

Read from Radio

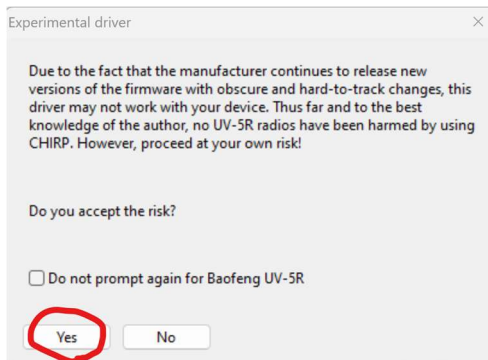
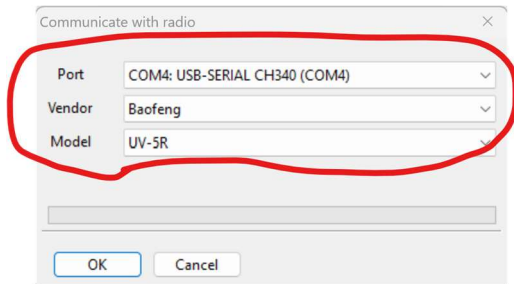
Within Chirp from the Radio menu select Download from Radio.

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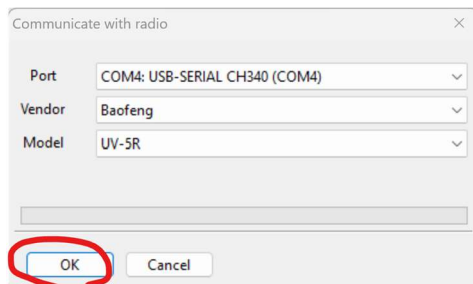
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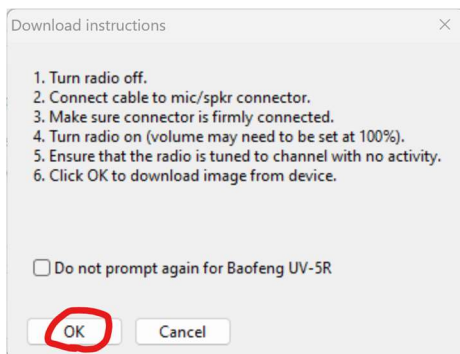
Use the drop down menus and select the COM port, your manufacturer, and model of radio.



Click Yes

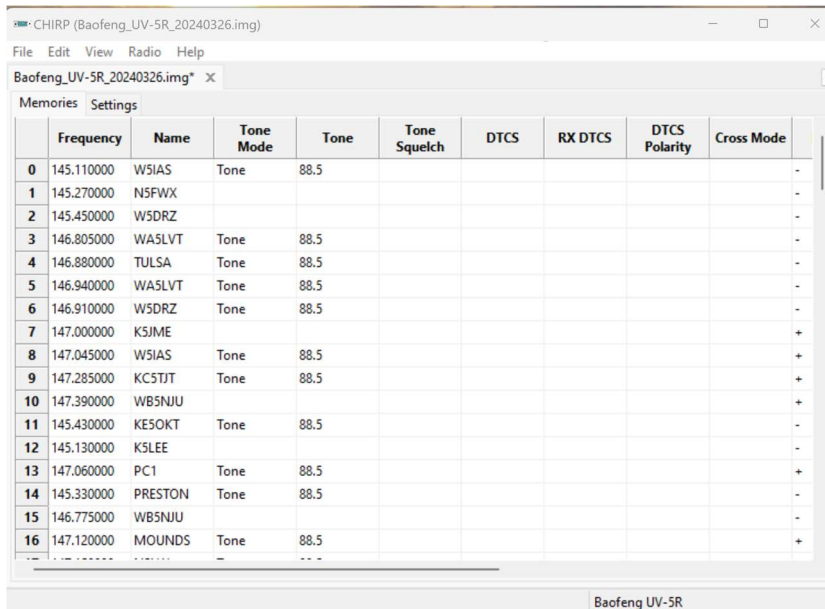


Click Ok

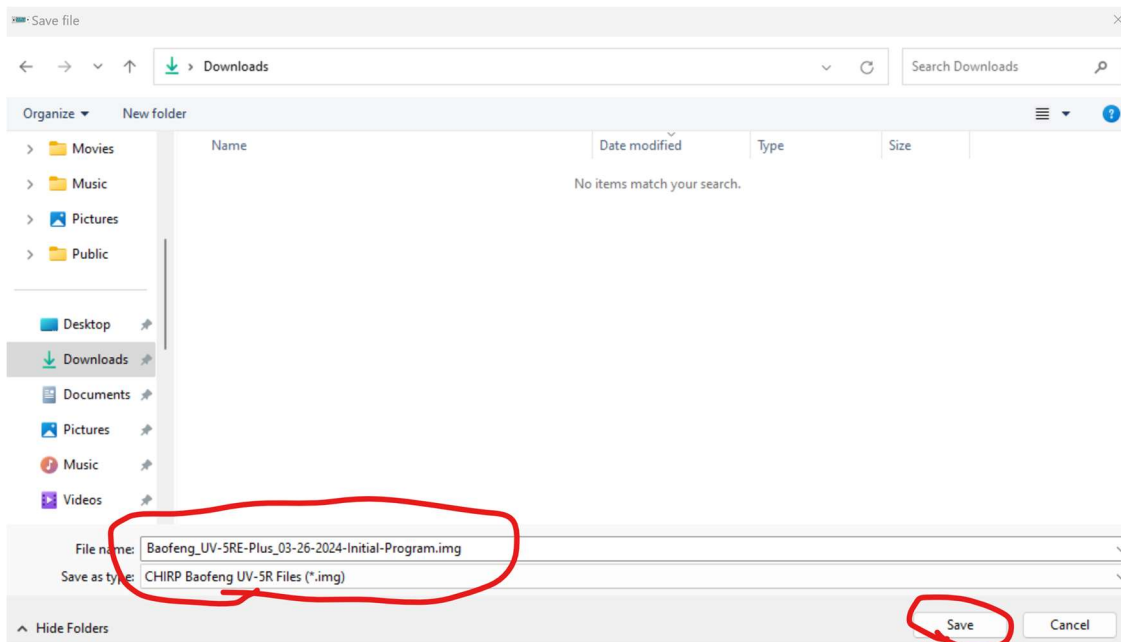


After it reads the radio your display will look something like this, although the radio channels listed may vary.

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From the File Menu select Save As



Enter in a filename that is meaningful. Radio Manufacturer_Model_Date-Short-Description and click Save.

Always start by reading from the radio and saving BEFORE you make any changes. To the radio program. That way you can always restore it back to the original program if there is an issue.

From the Edit Menu Select All.

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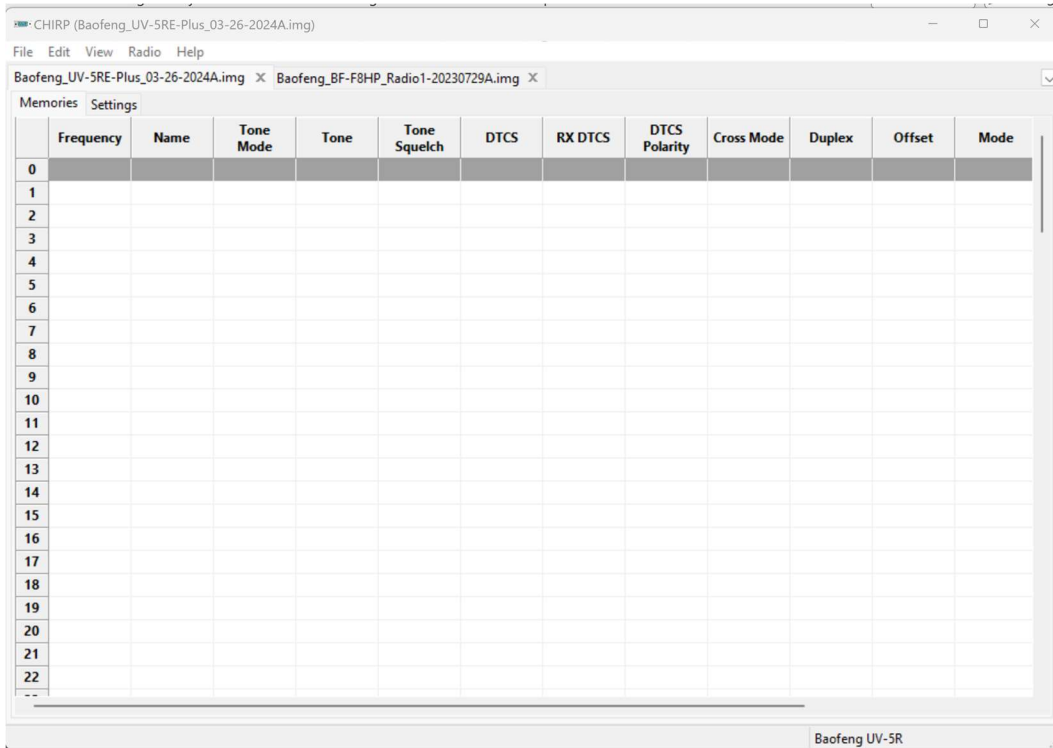
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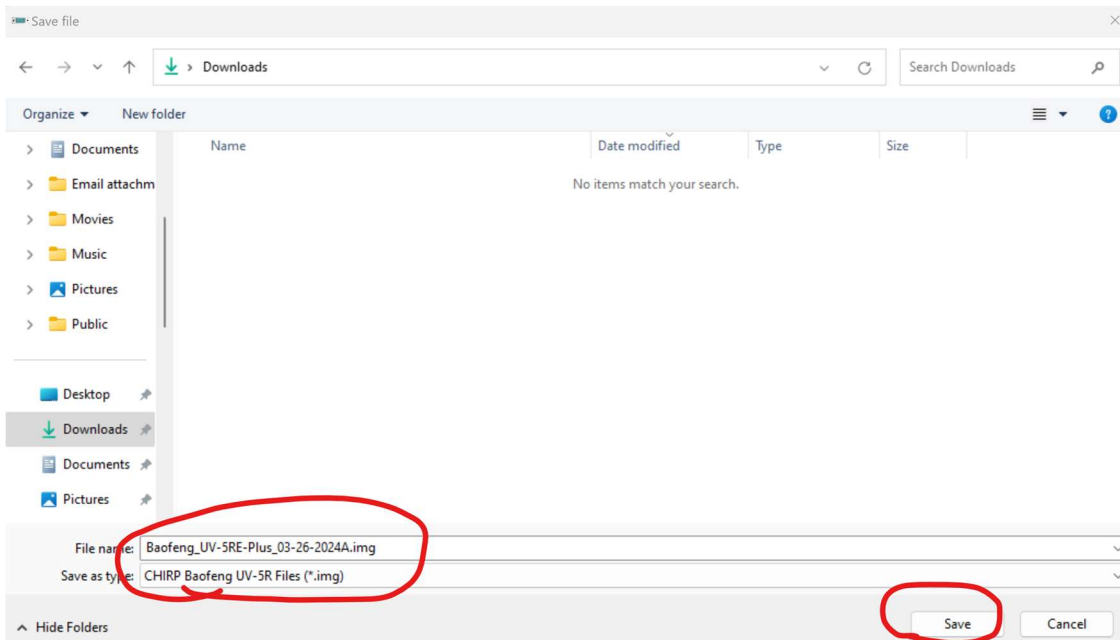
	Frequency	Name	Tone Mode	Tone	Tone Squelch	DTCS	RX DTCS	DTCS Polarity	Cross Mode	Duplex	Offset	Mode
0	145.110000	WSIAS	Tone	88.5						-	0.600000	FM
1	145.270000	N5FWX								-	0.600000	FM
2	145.450000	W5DRZ								-	0.600000	FM
3	146.805000	WA5LVT	Tone	88.5						-	0.600000	FM
4	146.880000	TULSA	Tone	88.5						-	0.600000	FM
5	146.940000	WA5LVT	Tone	88.5						-	0.600000	FM
6	146.910000	W5DRZ	Tone	88.5						-	0.600000	FM
7	147.000000	K5JME								+	0.600000	FM
8	147.045000	WSIAS	Tone	88.5						+	0.600000	FM
9	147.285000	KC5TJT	Tone	88.5						+	0.600000	FM
10	147.390000	WB5NJU								+	0.600000	FM
11	145.430000	KE5OKT	Tone	88.5						-	0.600000	FM
12	145.130000	K5LEE								-	0.600000	FM
13	147.060000	PC1	Tone	88.5						+	0.600000	FM
14	145.330000	PRESTON	Tone	88.5						-	0.600000	FM
15	146.775000	WB5NJU								-	0.600000	FM
16	147.120000	MOUNDS	Tone	88.5						+	0.600000	FM
17	147.150000	N5LW	Tone	88.5						+	0.600000	FM
18	147.225000	PRESTON	Tone	88.5						+	0.600000	FM
19	444.675000	PC2	Tone	88.5						+	5.000000	FM
20	442.000000	WSIAS	Tone	88.5						+	5.000000	FM
21	442.075000	KEETENV	Tone	88.5						+	5.000000	FM
22	442.050000	NO5R	Tone	88.5						+	5.000000	FM

From the Edit Menu Delete.

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From the File Menu select Save As and provide another name.



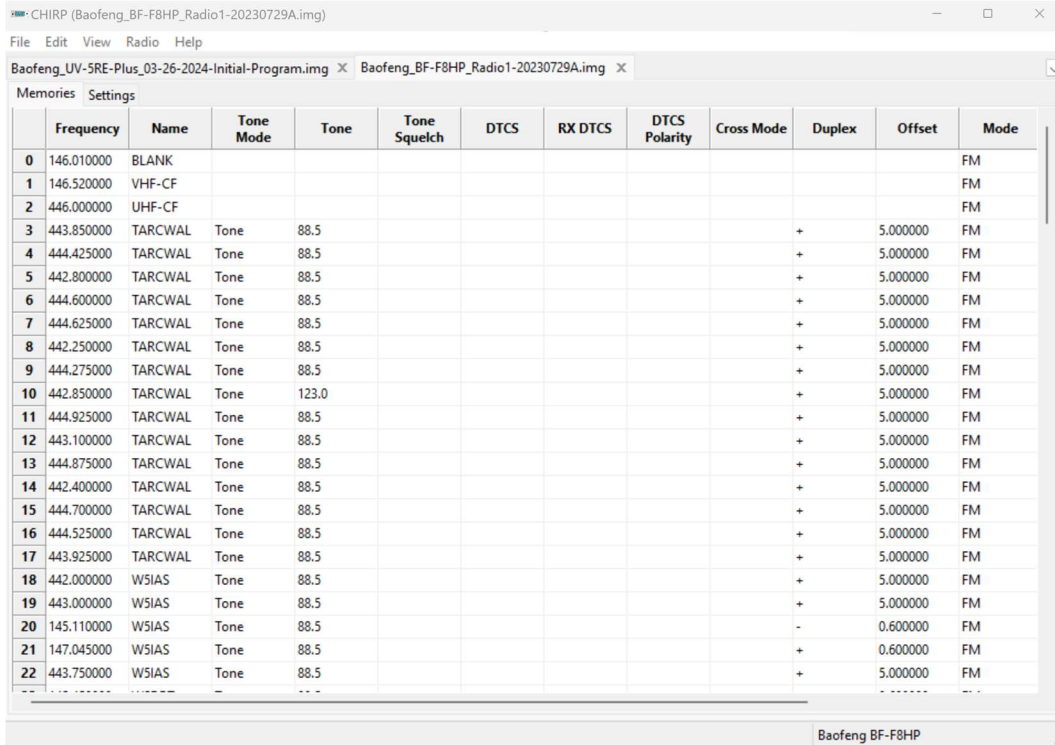
I suggest coming up with a naming scheme that you are comfortable with.
This provides you with a blank program for your radio.

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Transferring Radio Program

If you already have a program, open it in Chirp.

Since it is a different model of radio, you need to copy and paste into the blank program for the radio you want to program.



	Frequency	Name	Tone Mode	Tone	Tone Squelch	DTCS	RX DTCS	DTCS Polarity	Cross Mode	Duplex	Offset	Mode
0	146.010000	BLANK										FM
1	146.520000	VHF-CF										FM
2	446.000000	UHF-CF										FM
3	443.850000	TARCWAL	Tone	88.5						+	5.000000	FM
4	444.425000	TARCWAL	Tone	88.5						+	5.000000	FM
5	442.800000	TARCWAL	Tone	88.5						+	5.000000	FM
6	444.600000	TARCWAL	Tone	88.5						+	5.000000	FM
7	444.625000	TARCWAL	Tone	88.5						+	5.000000	FM
8	442.250000	TARCWAL	Tone	88.5						+	5.000000	FM
9	444.275000	TARCWAL	Tone	88.5						+	5.000000	FM
10	442.850000	TARCWAL	Tone	123.0						+	5.000000	FM
11	444.925000	TARCWAL	Tone	88.5						+	5.000000	FM
12	443.100000	TARCWAL	Tone	88.5						+	5.000000	FM
13	444.875000	TARCWAL	Tone	88.5						+	5.000000	FM
14	442.400000	TARCWAL	Tone	88.5						+	5.000000	FM
15	444.700000	TARCWAL	Tone	88.5						+	5.000000	FM
16	444.525000	TARCWAL	Tone	88.5						+	5.000000	FM
17	443.925000	TARCWAL	Tone	88.5						+	5.000000	FM
18	442.000000	WSIAS	Tone	88.5						+	5.000000	FM
19	443.000000	WSIAS	Tone	88.5						+	5.000000	FM
20	145.110000	WSIAS	Tone	88.5						-	0.600000	FM
21	147.045000	WSIAS	Tone	88.5						+	0.600000	FM
22	443.750000	WSIAS	Tone	88.5						+	5.000000	FM

From the Edit Menu Select All.

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	Frequency	Name	Tone Mode	Tone	Tone Squelch	DTCS	RX DTCS	DTCS Polarity	Cross Mode	Duplex	Offset	Mode
0	146.010000	BLANK										FM
1	146.520000	VHF-CF										FM
2	446.000000	UHF-CF										FM
3	443.850000	TARCWAL	Tone	88.5						+	5.000000	FM
4	444.425000	TARCWAL	Tone	88.5						+	5.000000	FM
5	442.800000	TARCWAL	Tone	88.5						+	5.000000	FM
6	444.600000	TARCWAL	Tone	88.5						+	5.000000	FM
7	444.625000	TARCWAL	Tone	88.5						+	5.000000	FM
8	442.250000	TARCWAL	Tone	88.5						+	5.000000	FM
9	444.275000	TARCWAL	Tone	88.5						+	5.000000	FM
10	442.850000	TARCWAL	Tone	123.0						+	5.000000	FM
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12	443.100000	TARCWAL	Tone	88.5						+	5.000000	FM
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14	442.400000	TARCWAL	Tone	88.5						+	5.000000	FM
15	444.700000	TARCWAL	Tone	88.5						+	5.000000	FM
16	444.525000	TARCWAL	Tone	88.5						+	5.000000	FM
17	443.925000	TARCWAL	Tone	88.5						+	5.000000	FM
18	442.000000	WSIAS	Tone	88.5						+	5.000000	FM
19	443.000000	WSIAS	Tone	88.5						+	5.000000	FM
20	145.110000	WSIAS	Tone	88.5						-	0.600000	FM
21	147.045000	WSIAS	Tone	88.5						+	0.600000	FM
22	443.750000	WSIAS	Tone	88.5						+	5.000000	FM

From the Edit menu select Copy.
 In the pane for the radio to be programmed.
 Select the first row.

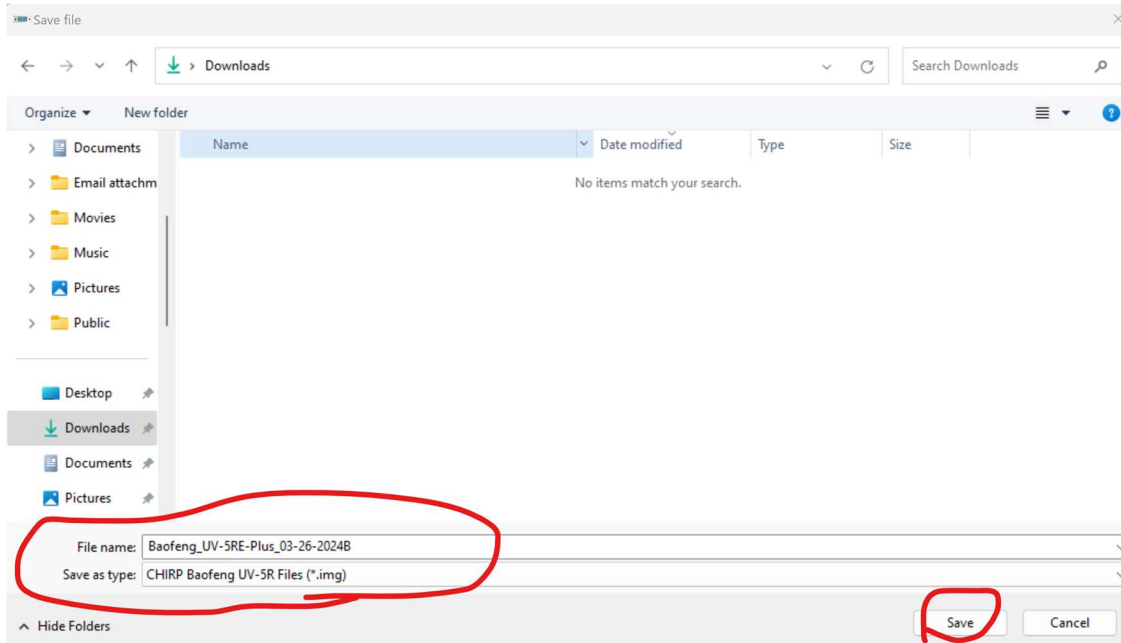
	Frequency	Name	Tone Mode	Tone	Tone Squelch	DTCS	RX DTCS	DTCS Polarity	Cross Mode	Duplex	Offset	Mode
0												
1												
2												
3												
4												
5												
6												
7												
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20												
21												
22												

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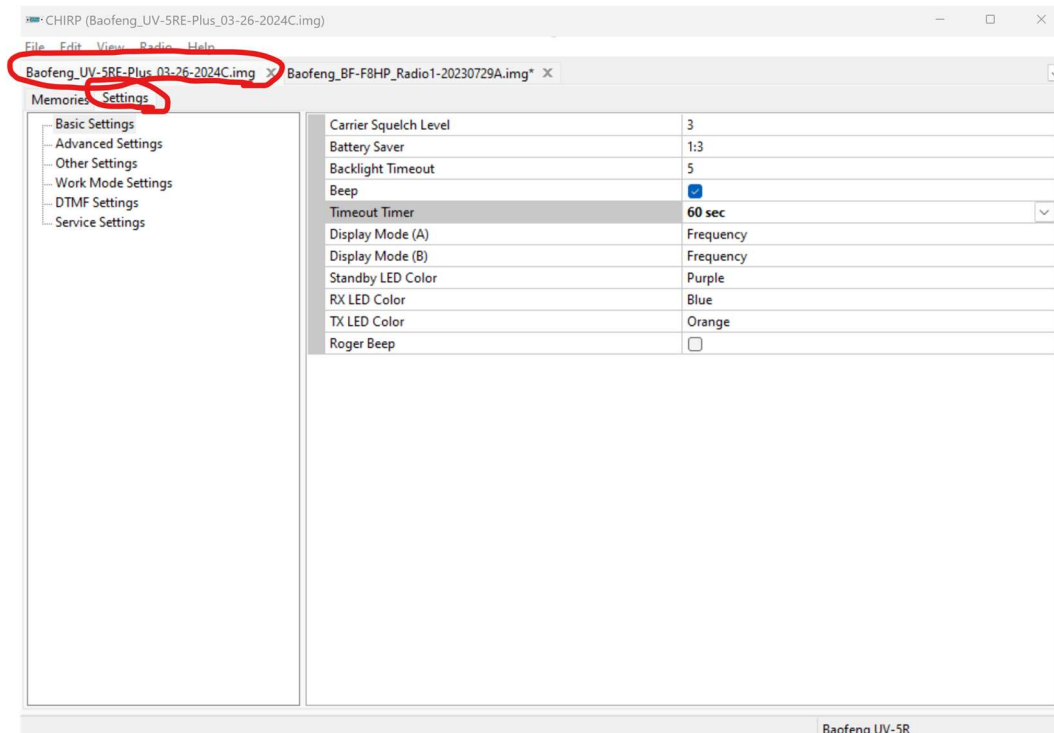
From the Edit menu select Paste.

From the File menu select Save As.

I suggest saving under the next filename in sequence.



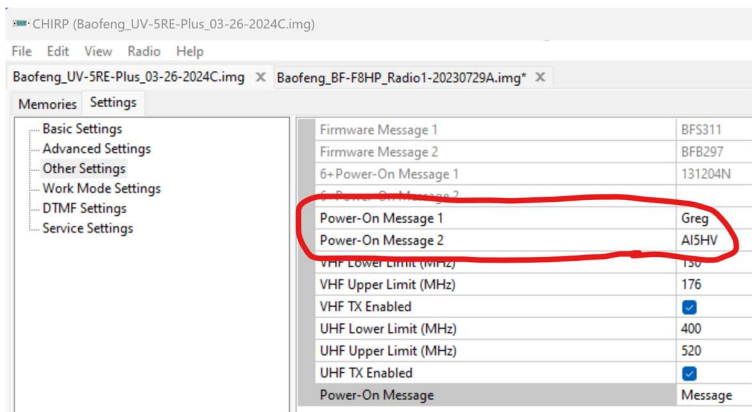
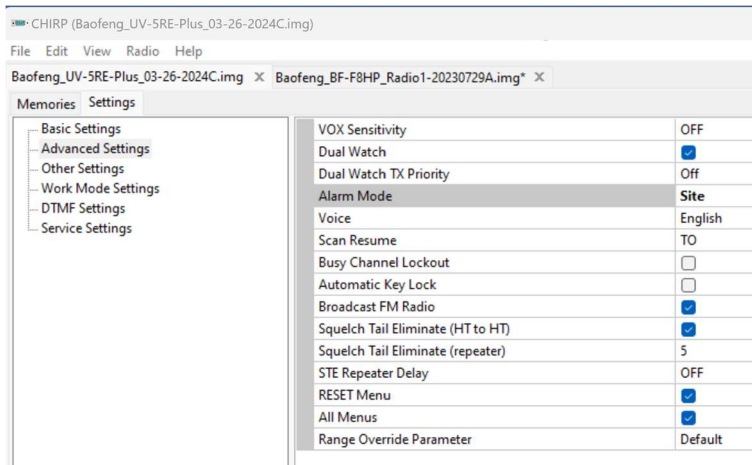
Under the Settings tab (your settings may vary).



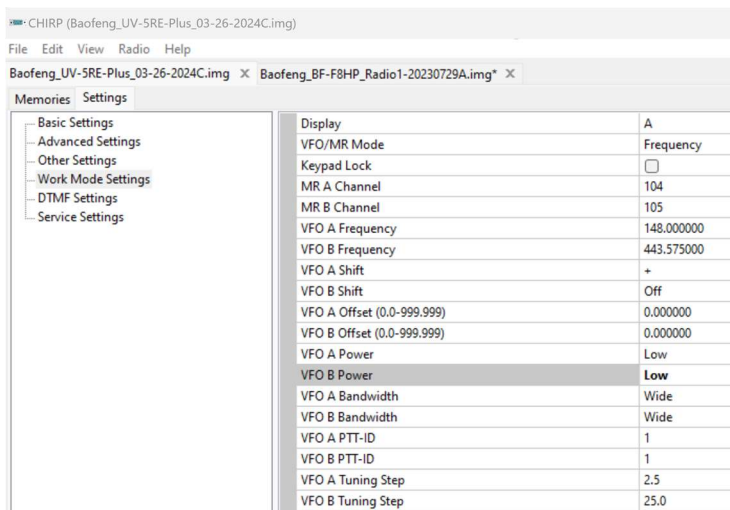
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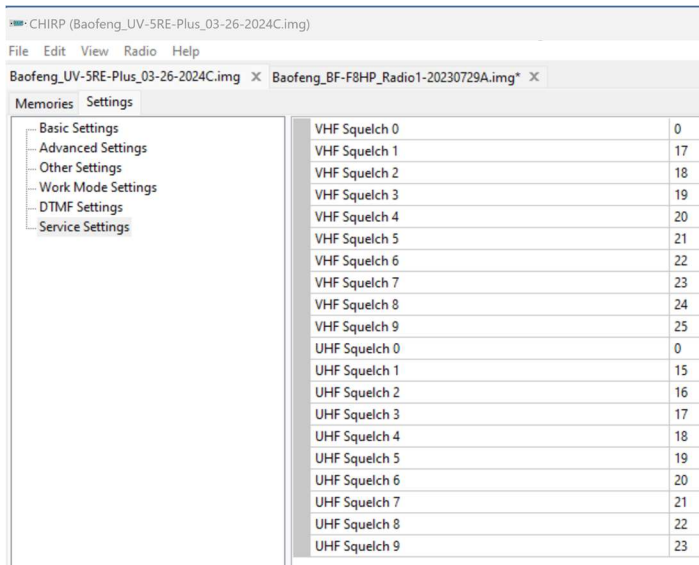
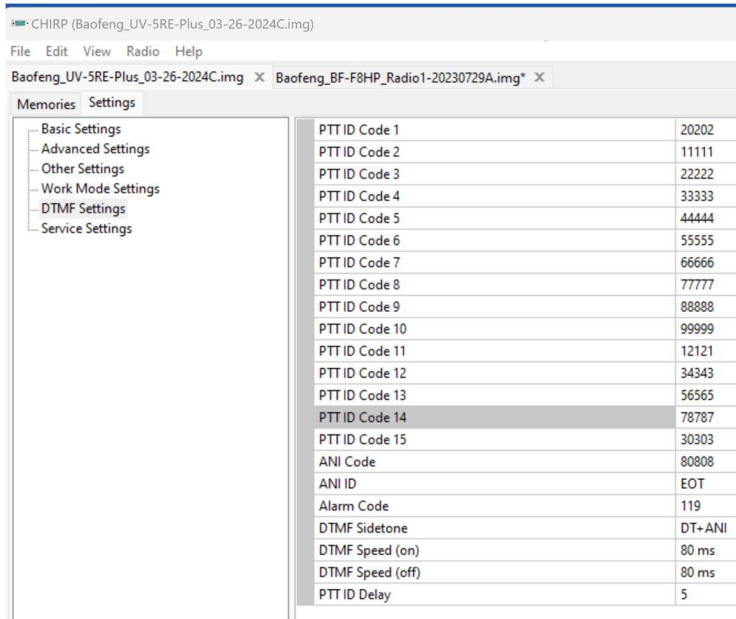
In the Power-On Message1 and 2 you can customize what the radio displays when it powers on.



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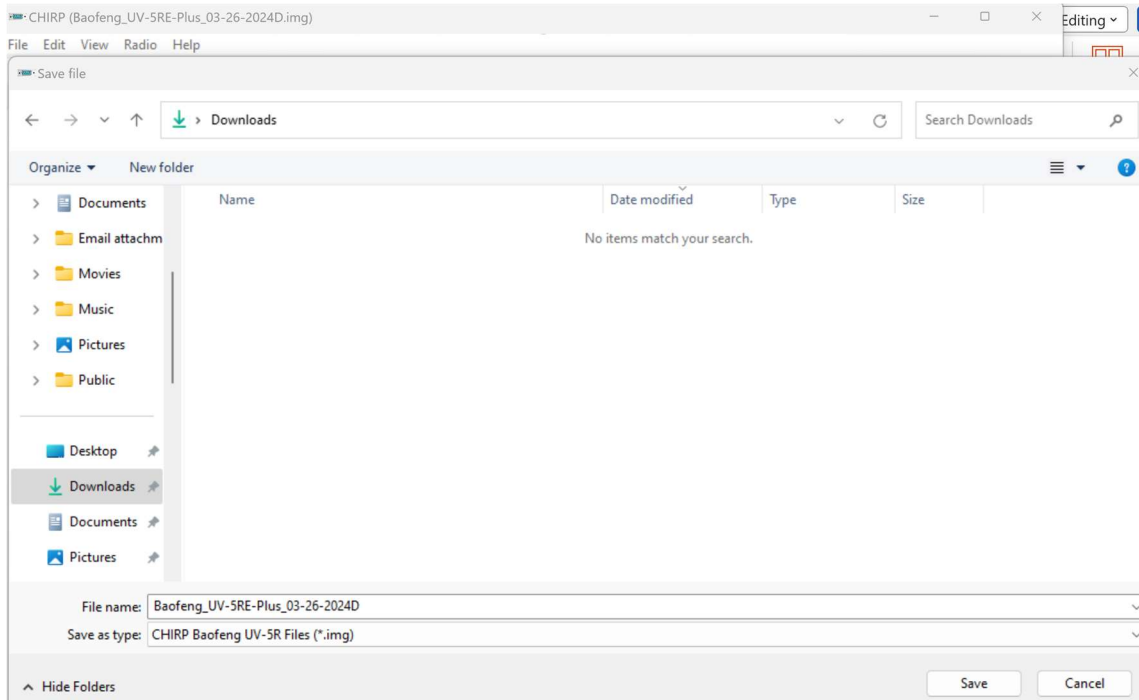


Once these settings are changed.
From the File menu Save As.

Broken Arrow Amateur Radio Club Presentation

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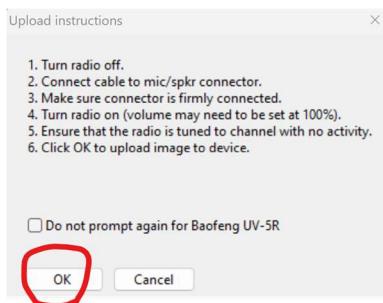
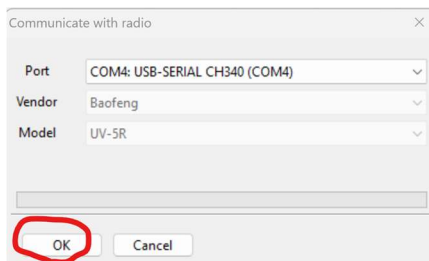
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Every time I make a change I save it as another .IMG file to write to the radio.

Write to New Radio

From the Radio menu select Upload to radio.



You should see a green light blinking on the front of the radio.

When Chirp is done writing the program to the radio, the green light will no longer be blinking.

At this point you can disconnect the programming cable from the radio and power cycle the radio.

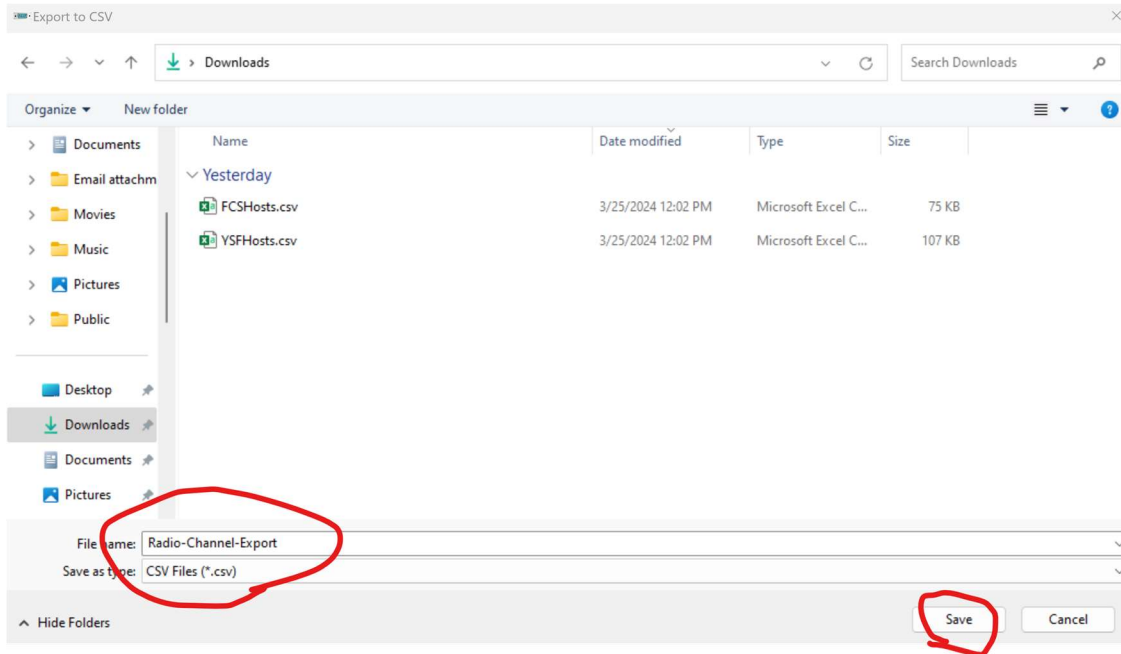
Broken Arrow Amateur Radio Club Presentation
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Importing Radio Channels

Here is another method to get the channels imported into the new radio.

Goto the tab that has the radio program that you want to copy.

From the File menu select Export to CSV.

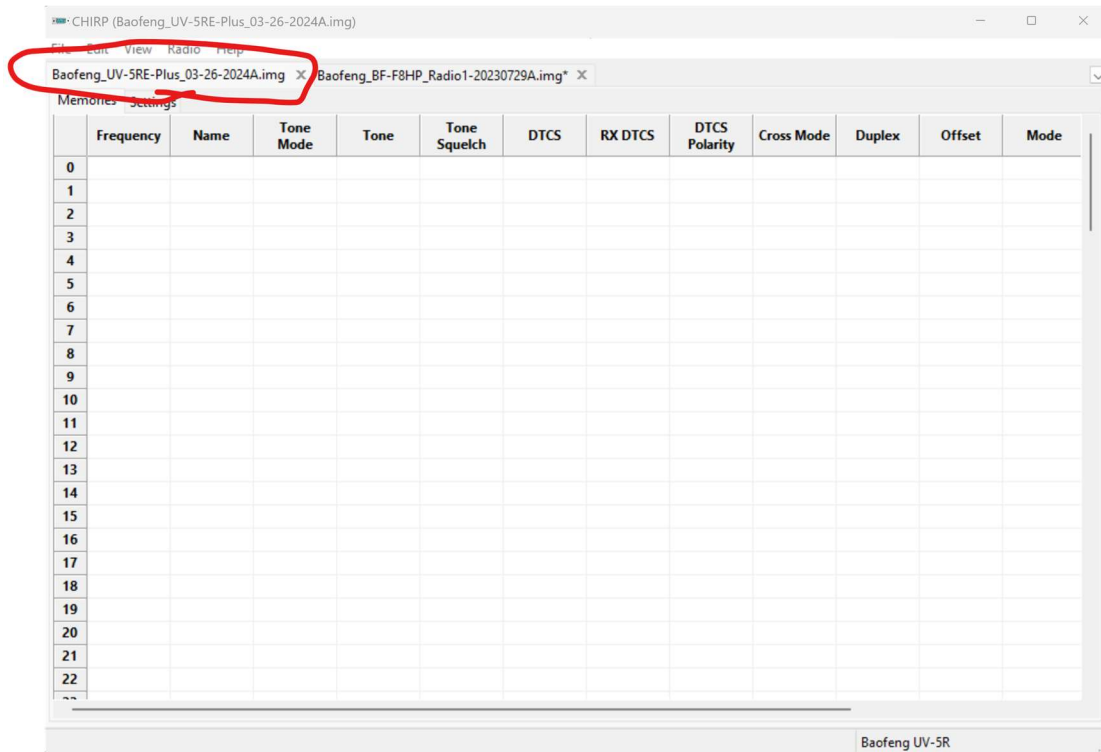


With the blank program for the new radio

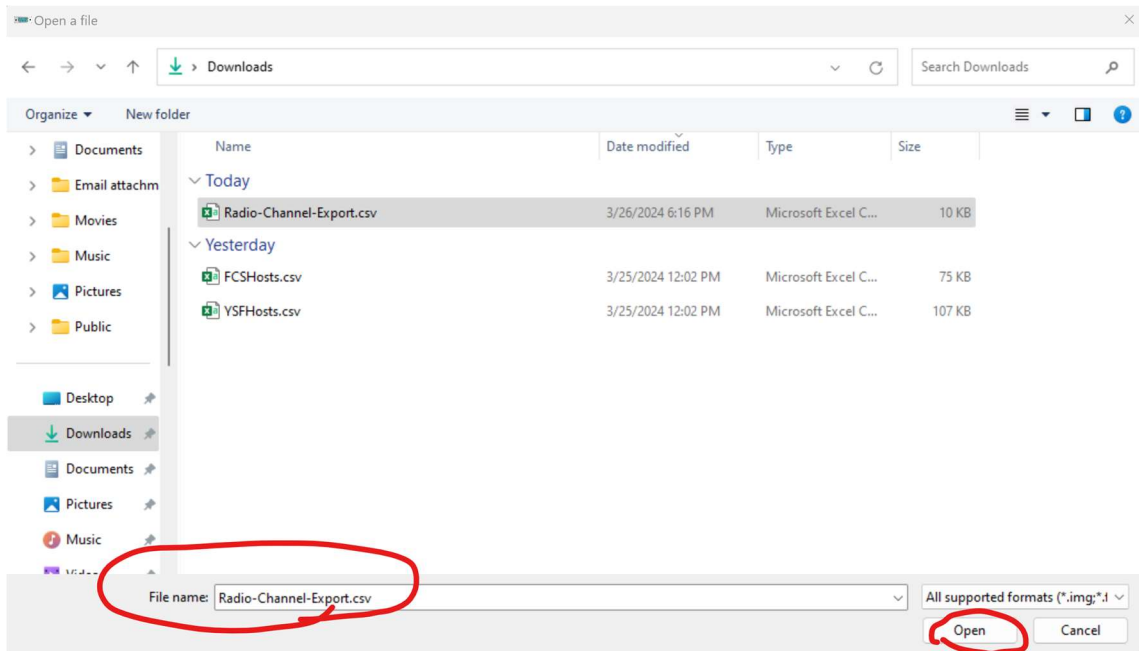
Broken Arrow Amateur Radio Club Presentation

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From the File menu select Import from file

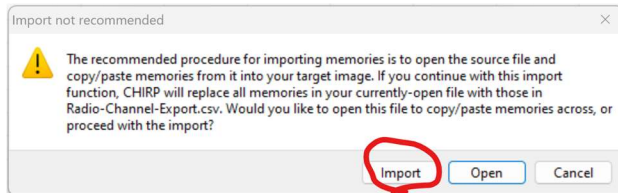


Select the export file and click Open.

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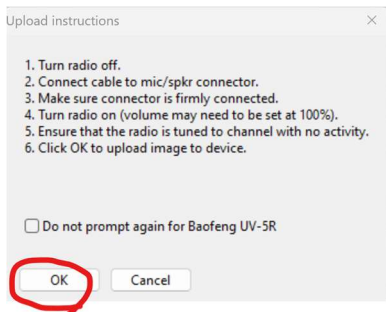
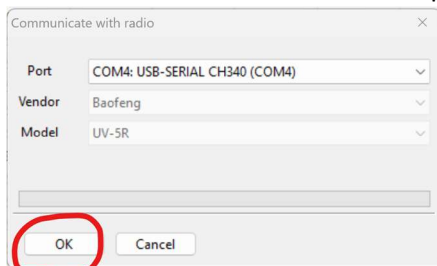
Click Import

This process only imports radio channels it does not import other settings.

Once this file is imported

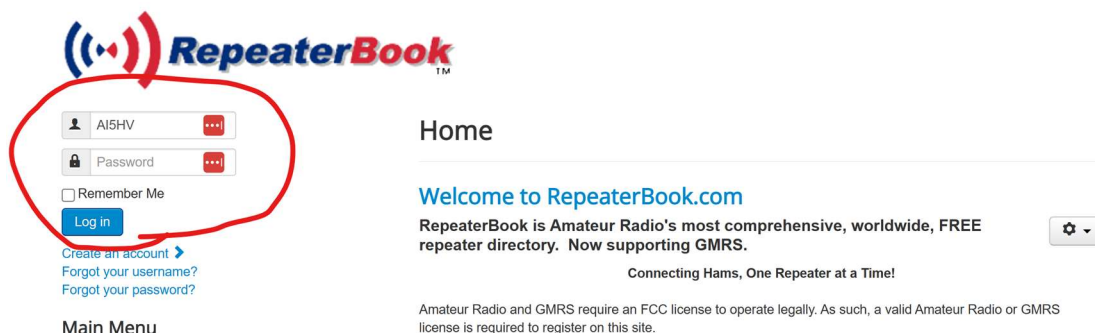
From the File menu Save As provide a new filename that is incremented. Baofeng_UV-5RE-Plus_03-26-2024E.img

Then from the Radio Menu select Upload to radio.



What if I don't have access to an existing radio program, how do I program my radio ?

You can use <https://repeaterbook.com/>.



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Enter your call sign and password and click Login.

If you don't already have an account you will need to create one.

Hi AI5HV, [Log out](#)

Home

Main Menu

- Home
- User Profile
- **Logout**
- **North American Repeaters**
- Rest of World Repeaters
- North American Simplex Nodes
- U.S. GMRS Repeaters
- Articles
- Wiki
- DMR Tools
- BlueCat
- FAQs
- Stats
- Admin Contact
- Ad Free
- Legal

Welcome
RepeaterBo
directory. N

Amateur Radio
required to regi:

[Try the new |](#)
You can help ke

Click on North American Repeaters.

HOME QUICK **PROXIMITY** ADVANCED NATIONWIDE KEYWORD TRAVEL SPECIAL MODES VACANCY

Click on Proximity.

Proximity Search

[Switch to the new Proximity 2.0 Search](#)

Enter an address, city, landmark, coordinates, or grid square (6-characters) and a distance radius. Narrow the results by entering parameters in the remaining fields.

Narrow the results by entering parameters in the remaining fields.

LOCATION
City and State or grid square:
Broken Arrow, OK

-- OR COORDINATES --

Latitude: Longitude:

DISTANCE (miles):
40
 mi km

Then enter in a City and State or grid square. You could also enter in a latitude and longitude.

Then enter in a distance in miles or km that you want to use as your area.

Scroll down the page.

You can also enter in:

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BAND OR FREQUENCY

Band 1:
-- ALL --

Band 2:
-- Null --

Frequency:

CALL SIGN:

And

MODE:

FM
 D-Star
 DMR
 NXDN
 P25
 System Fusion (C4FM)

FEATURE:

AllStar
 Autopatch
 E-power
 EchoLink
 IRLP
 WIRES
 WX

OPERATIONAL STATUS:

-- All --
 Confirmed 'On-Air' only

USE:

Open Repeaters Only

ORDER results by:

Distance

Click on the blue Search bar at the bottom of the screen.
You will see a list of repeaters that meet your criteria.

Broken Arrow Amateur Radio Club Presentation

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Prepared by Dr. Greg Meador – AI5HV April 1, 2024

81 repeaters found within 40 miles OF Broken Arrow, OK (36.06090164, -95.79750061)

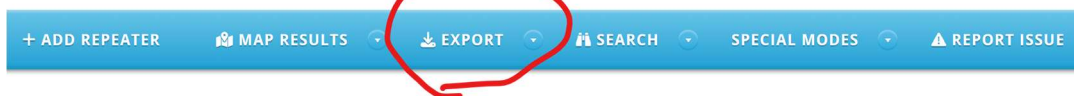
● = On-Air ● = Off-Air ● = Testing/Reduced ○ = Unknown

Click on the frequency for additional details.
 Click on a header to sort. **Note:** Sorting does not carry through to exports!

Offset	↑ Tone	Call	Location	ST/PR	Use	Modes	MI	Dir	↑
443.6000	+5 MHz	WSDRZ	Broken Arrow, Tiger Hill	OK	OPEN	FM	0.68	SSE	●
444.5750	+5 MHz	KC5JKU	Broken Arrow	OK	OPEN	FM	0.68	SSE	●
444.0000	+5 MHz	WSDRZ	Broken Arrow, Tiger hill	OK	OPEN	FM	0.86	ESE	●
146.9100	-0.6 MHz	88.5 / 88.5	WSDRZ Broken Arrow, Tiger Hill	OK	OPEN	FM	0.86	ESE	●
145.2500	-0.6 MHz	141.3 / 141.3	KISUNR Bixby, Evergreen Church	OK	OPEN	FM	5.46	SW	●
224.4800	-1.6 MHz	88.5	KCSYSH Tulsa	OK	OPEN	FM	5.48	NNW	●
146.8050	-0.6 MHz	88.5	WASLVT Tulsa, Looking for a new location	OK	OPEN	FM	6.81	W	●
53.1500	-1.7 MHz	88.5 / 88.5	W5IAS Tulsa, Near 41st and Sheridan	OK	OPEN	FM	6.96	WNW	●
442.1625	+5 MHz	CC2	WASLVT Tulsa, Looking for new location	OK	OPEN	DMR	6.97	W	●
224.8600	-2 MHz	88.5 / 88.5	AE5RH Tulsa	OK	OPEN	FM	7.03	NW	●
444.8500	+5 MHz	88.5	K5JME Tulsa	OK	OPEN	FM	8.51	NNW	●
147.0000	+0.6 MHz	100.0 / 100.0	K5JME Tulsa	OK	OPEN	FM	8.52	NNW	●
146.8800	-0.6 MHz	88.5 / 88.5	WASLVT Tulsa, Cityplex Towers	OK	OPEN	FM	8.80	W	●
927.7000	-25 MHz	D074	W5SETD Tulsa, CityPlex Towers	OK	OPEN	FM	8.80	W	●
224.1800	-1.6 MHz	88.5	W5RAB Bixby, Leonard Mountain	OK	OPEN	FM AllStar	9.51	SSW	●
145.4500	-0.6 MHz	88.5	WSDRZ Bixby, Leonard Mountain	OK	OPEN	FM Fusion	9.71	S	●
442.0500	+5 MHz	88.5	N05R Jenks	OK	OPEN	FM	9.90	WSW	●
146.9400	-0.6 MHz	88.5 / 88.5	WASLVT Tulsa, Sun Building	OK	OPEN	FM	12.05	WNW	●
444.9500	+5 MHz	88.5 / 88.5	WASLVT Tulsa, Looking for a new location	OK	OPEN	FM	12.05	WNW	●

On the blue bar click on Export.

Please keep in mind that the radio you are programming may not support all of the bands or modes that you download. You may need to select different ham radio bands before exporting the list of repeaters.



Scroll through the list of radios\options until you find your radio listed.

If it is not listed, I suggest that you pick Chirp.

This format will be used to save the data.

Take note of the folder that it saves the file in. It will likely be in

The filename will be in the format like: RB_CHIRP_2403292214.csv

Broken Arrow Amateur Radio Club Presentation
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CHIRP Export Parameters

Memory Name 1
Call Sign

Memory Name 2
Frequency

Sort Order 1
Call Sign

Sort Order 2
None

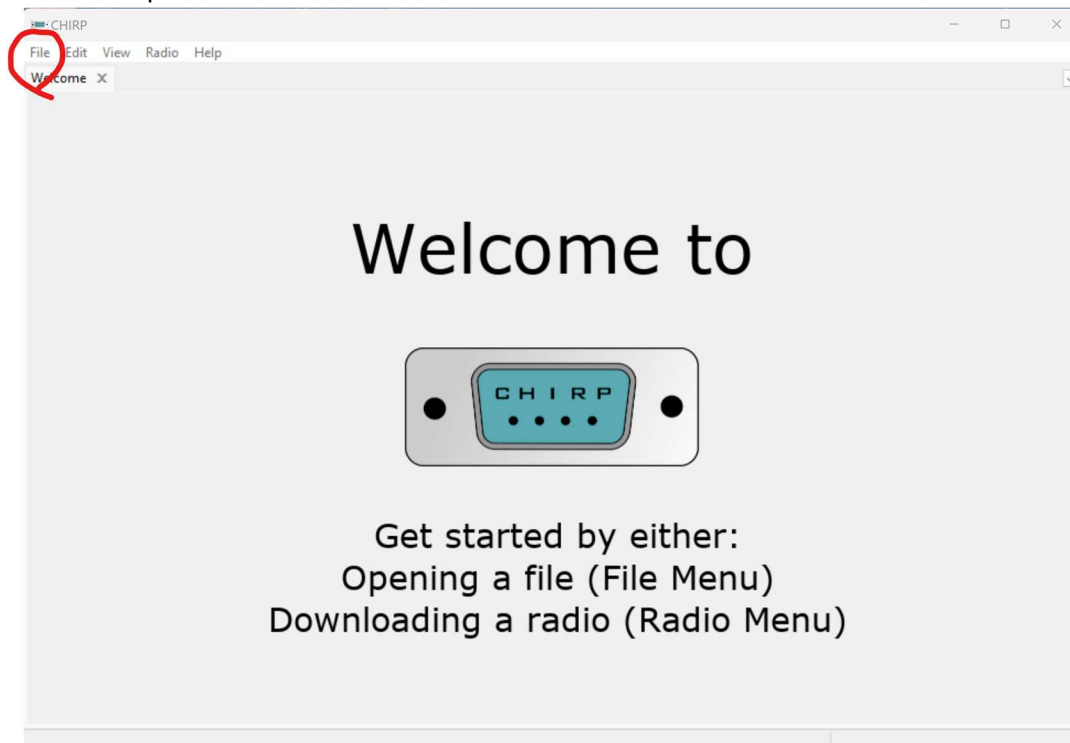
I agree to use this data for personal use only.

Download

You can select the memory name with which to save the file.
Click Download.

Pay attention to the folder and file name as to where they output file will be downloaded to.
It will likely be in the Downloads folder.

Launch Chirp.

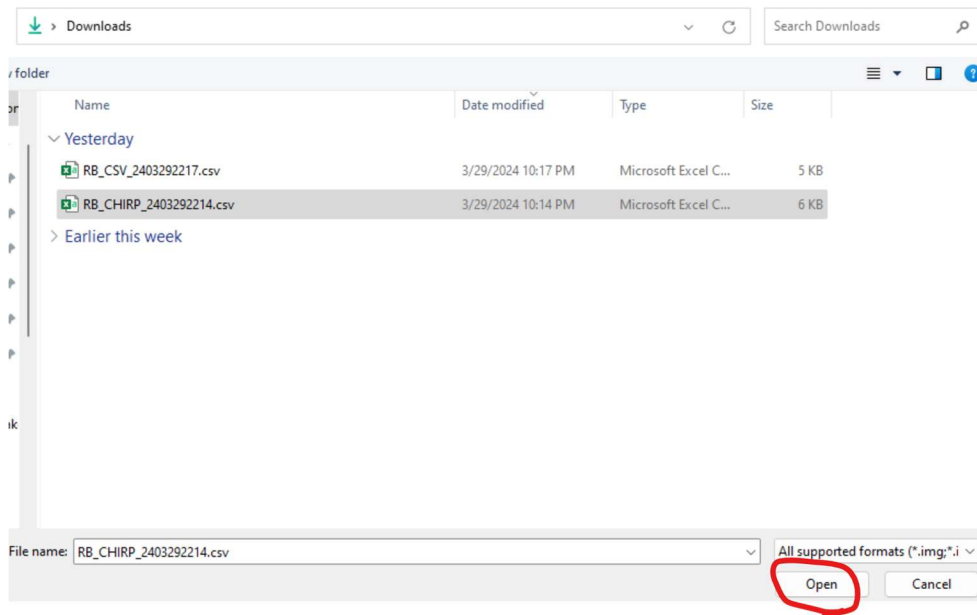


Select import from file.

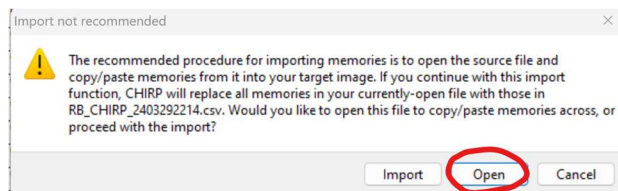
Broken Arrow Amateur Radio Club Presentation

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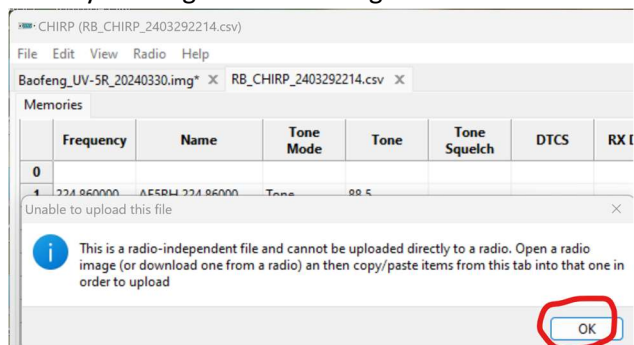


Locate and select your file and click Open.



Click Open

If you attempt to write the .csv file directly to your radio by selecting Upload to Radio from the Radio menu you will get the following error.



Click Ok to clear the message.

Be sure to read from your radio first using the steps shown earlier in the [Read from Radio](#) section.

Make sure that you have a blank program that you read from your radio.

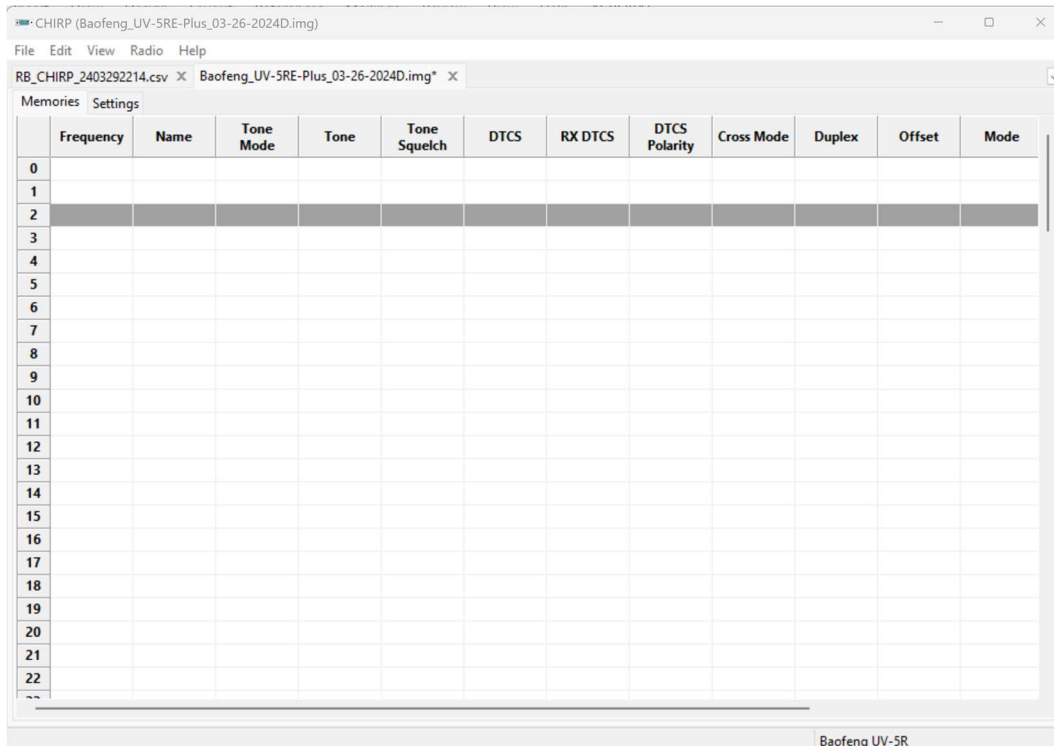
With the Chirp tab open, from the Edit menu click on Select All then from the Edit menu select Copy.

Switch to the tab for the radio that you want to program.

Broken Arrow Amateur Radio Club Presentation

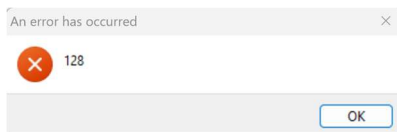
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Prepared by Dr. Greg Meador – AI5HV April 1, 2024



From the Edit Menu select Paste.

If you see the following error:



That means that you have exceeded the number of memory locations.

The Baofeng radios typically support memory locations 0 thru 127.

In Chirp go to the tab that has the Chirp import.

And click on row 0

Broken Arrow Amateur Radio Club Presentation

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	Frequency	Name	Tone Mode	Tone	Tone Squelch	DTCS	RX DTCS	DTCS Polarity	Cross Mode	Duplex	Offset	M
0												
1	224.860000	AE5RH 224.86000	Tone	88.5						-	1.600000	FM
2	147.000000	K5JME 147.00000	Tone	100.0						+	0.600000	FM
3	444.300000	K5LAD 444.30000	Tone	100.0						+	5.000000	FM
4	146.700000	K5LAD 146.70000	Tone	100.0						-	0.600000	FM
5	444.300000	K5LAD 444.30000	Tone	100.0						+	5.000000	FM
6	145.130000	K5LEE 145.13000								-	0.600000	FM
7	444.450000	KC5FCA 444.45000								+	5.000000	FM
8	147.285000	KC5TJT 147.28500	Tone	88.5						+	0.600000	FM
9	444.175000	KD5FMU 444.17500	Tone	88.5						+	5.000000	DIG
10	145.430000	KI5EGH 145.43000	Tone	88.5						-	0.600000	Auto
11	442.550000	KI5EGH 442.55000	Tone	88.5						+	5.000000	Auto
12	145.250000	KI5UNR 145.25000	Tone	141.3						-	0.600000	FM
13	146.745000	KK5I 146.74500	Tone	88.5						-	0.600000	P25
14	146.850000	KK5I 146.85000	Tone	88.5						-	0.600000	P25
15	442.600000	KN5V 442.60000								+	5.000000	DV
16	444.075000	N5DRW 444.07500	Tone	71.9						+	5.000000	Auto
17	147.120000	N5DRW 147.12000	Tone	88.5						+	0.600000	Auto
18	147.150000	N5LW 147.15000	Tone	88.5						+	0.600000	FM
19	443.025000	NM5R 443.02500								+	5.000000	DV
20	442.050000	NO5R 442.05000	Tone	88.5						+	5.000000	FM
21	145.450000	W5DRZ 145.45000	Tone	88.5						-	0.600000	Auto
22	443.600000	W5DRZ 443.60000								+	5.000000	FM

Scroll down in the window until you see the last row filled in frequency. Not to exceed 127. Hold down the shift key and click the row number.

	Frequency	Name	Tone Mode	Tone	Tone Squelch	DTCS	RX DTCS	DTCS Polarity	Cross Mode	Duplex	Offset	M
45	444.725000	WA5LVT 444.72500								+	5.000000	FM
46	146.805000	WA5LVT 146.80500	Tone	88.5						-	0.600000	FM
47	146.880000	WA5LVT 146.88000	Tone	88.5						-	0.600000	FM
48	444.950000	WA5LVT 444.95000	Tone	88.5						+	5.000000	FM
49	424.500000	WA5VMS 424.50000								+	429.500000	P25
50	443.575000	WA5VMS 443.57500								+	5.000000	FM
51	927.012500	WA5VMS 927.01250	DTCS			074		NN	DTCS	-	25.000000	P25
52	442.125000	WA5VMS 442.12500								+	5.000000	DIG
53	147.330000	WA5VMS 147.33000	Tone	88.5						+	0.600000	P25
54	224.340000	WA5VMS 224.34000	Tone	88.5						-	1.600000	FM
55	444.800000	WA5VMS 444.80000								+	5.000000	P25
56	146.775000	WB5NJU 146.77500								-	0.600000	FM
57	147.390000	WB5NJU 147.39000	Tone	88.5						+	0.600000	FM
58	442.075000	WB5Y 442.07500	Tone	88.5						+	5.000000	FM
59	927.700000	WD5ETD 927.70000	DTCS			074		NN	DTCS	-	25.000000	FM
60	224.480000	WD5ETD 224.48000	Tone	88.5						-	1.600000	FM
61	146.835000	WT5EOC 146.83500	Tone	103.5						-	0.600000	Auto
62	147.060000	WX5MC 147.06000	Tone	88.5						+	0.600000	FM
63	444.675000	WX5MC 444.67500	Tone	88.5						+	5.000000	FM
64	147.225000	WX5OKM 147.22500	Tone	88.5						+	0.600000	FM
65	147.090000	WX5RC 147.09000	Tone	88.5						+	0.600000	FM
66	444.350000	WX5RC 444.35000	Tone	88.5						+	5.000000	DV
67												

In this case 66.

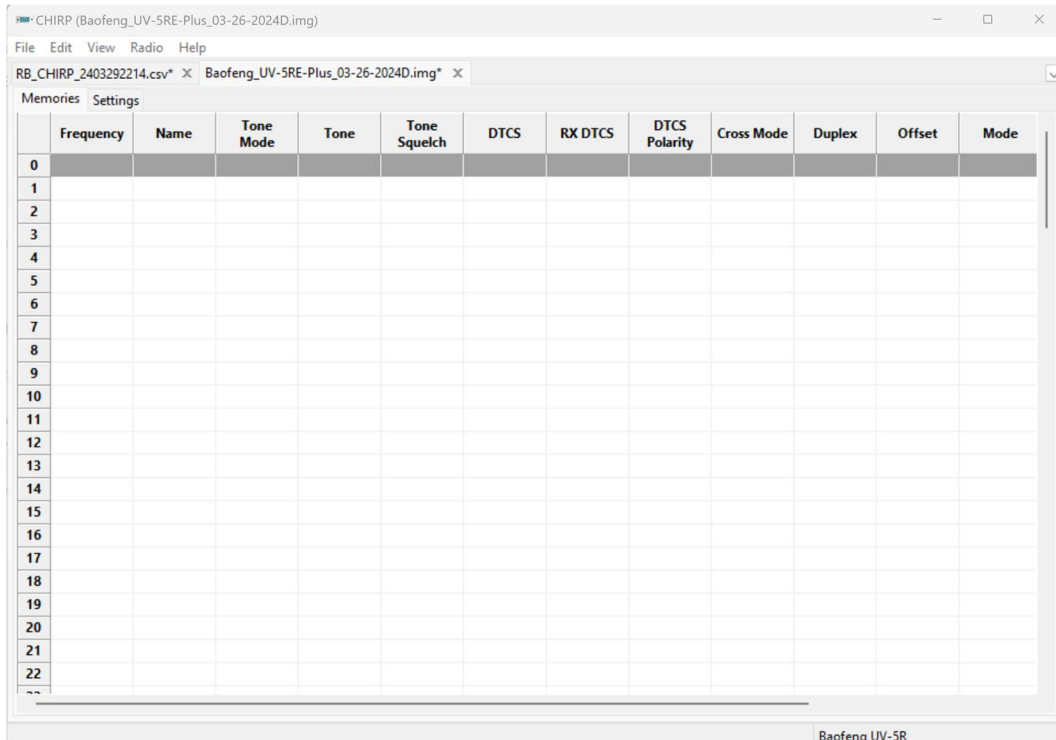
Broken Arrow Amateur Radio Club Presentation

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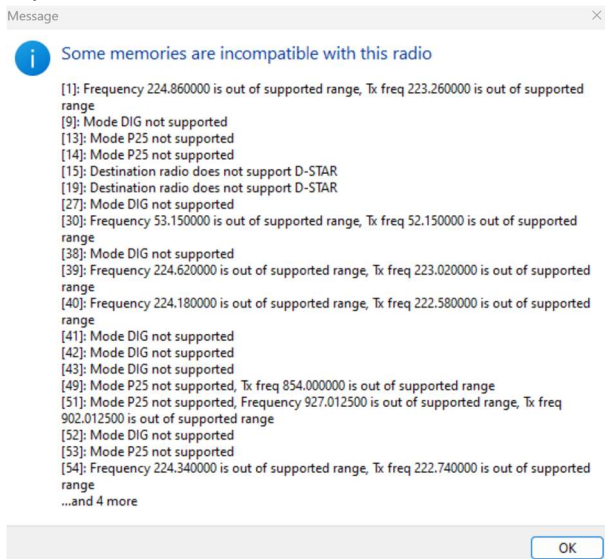
From the Edit menu select Copy.

Switch to the tab for your radio and highlight row 0.



From the edit menu select Paste.

If you see an error such as this one:



It means that some of the repeaters that you downloaded are not supported by this radio.

For example the frequencies in the 220 band or the 1.25M band are not supported.

Also digital modes such as P25 are not supported.

Chirp automatically will remove these from your program.

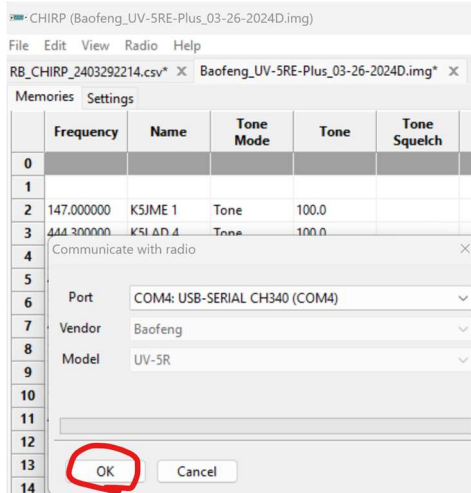
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	Frequency	Name	Tone Mode	Tone	Tone Squelch	DTCs	RX DTCs	DTCs Polarity	Cross Mode	Duplex	Offset	Mode
0												
1												
2	147.000000	K5JME 1	Tone	100.0						+	0.600000	FM
3	444.300000	K5LAD 4	Tone	100.0						+	5.000000	FM
4	146.700000	K5LAD 1	Tone	100.0						-	0.600000	FM
5	444.300000	K5LAD 4	Tone	100.0						+	5.000000	FM
6	145.130000	K5LEE 1								-	0.600000	FM
7	444.450000	KC5FCA								+	5.000000	FM
8	147.285000	KC5TJT	Tone	88.5						+	0.600000	FM
9												
10	145.430000	K1SEGH	Tone	88.5						-	0.600000	FM
11	442.550000	K1SEGH	Tone	88.5						+	5.000000	FM
12	145.250000	K1SUNR	Tone	141.3						-	0.600000	FM
13												
14												
15												
16	444.075000	N5DRW 4	Tone	71.9						+	5.000000	FM
17	147.120000	N5DRW 1	Tone	88.5						+	0.600000	FM
18	147.150000	N5LW 14	Tone	88.5						+	0.600000	FM
19												
20	442.050000	N05R 44	Tone	88.5						+	5.000000	FM
21	145.450000	W5DRZ 1	Tone	88.5						-	0.600000	FM
22	443.600000	W5DRZ 4								+	5.000000	FM

At this point you can save your radio program. Give it a new filename.
 Once you have saved the program, from the Radio menu select Upload to radio.



Once Chirp has finished writing to the radio, disconnect the programming cable.
 I recommend turning the radio off and back on again.
 Before you transmit, make sure that you are a licensed amateur radio operator.
 Hope to hear you on the airwaves.

Good Luck!