Introduction To The Icom Frequency Search System

Introduction

This tutorial was created as an introductory aid for new users to learn how to use the Icom Frequency Search system. This document is entry level and should benefit users of all skill levels.

## Frequency Search Overview

Selecting A Database

The main page of the Icom Frequency Search system lists all available searches. The searches are divided into categories and can be used to find frequencies from the FCC's Master Frequency database. To select a search, click on the link for any search.

Transmitter Location

- Transmitters in a City
- Transmitters in a County

Geographic / Radius

- Radius Search from Lat/Long
- Radius Search from Lat/Long with Frequency Range
- Radius Search from Zip Code
- Radius Search from Zip Code with Frequency Range

Database
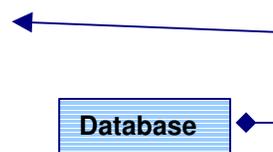
Pop-Up Help: Click on any field name to display pop-up help.

All of the entry forms displayed within the search system link to pop-up help windows. The pop-up windows are designed to help new and experienced users. By clicking on the field name on any form will display the help window and depending on the field type, various instructions and trouble-shooting information will be provided.

Text Fields: Click on a field and enter the search criteria.

Depending on the database and search selected, the entry form will display one to ten text entry fields. In the space provided, the user can enter the criteria for their search.
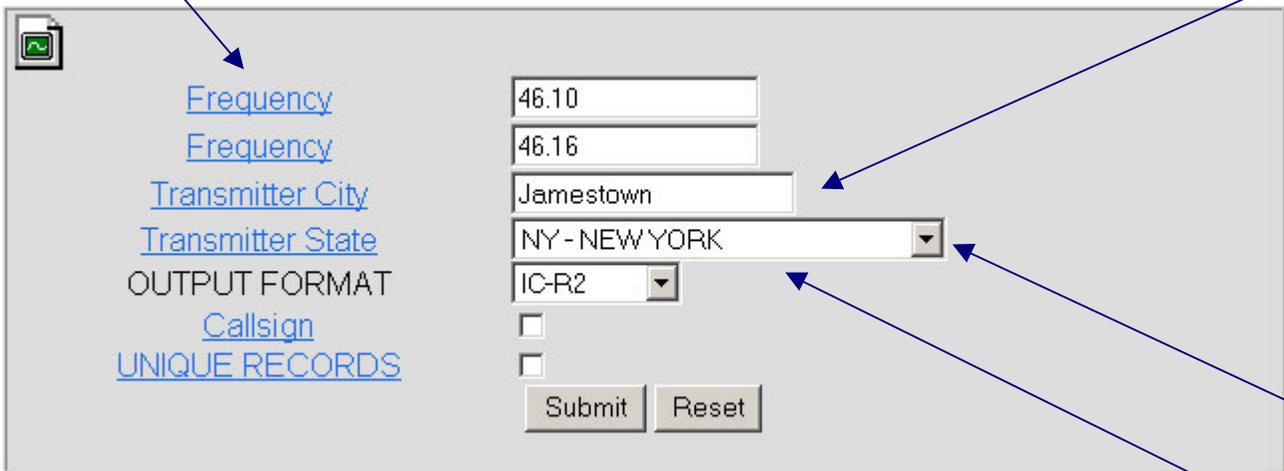
Frequency   46.10

Frequency   46.16

Transmitter City   Jamestown

Transmitter State   NY - NEW YORK

OUTPUT FORMAT   IC-R2

Callsign   ☐

UNIQUE RECORDS ☐

[Submit] [Reset]

List Box: Click on the field and select a value from the list of available options.

Depending on the database and search selected, the entry form may contain a list box. The list box contains pre-defined criteria used in a search such as states or radio service codes. Click on the arrow at the end of the list to select an option.

Output Format: Click on the field and select the output format from the available choices.

The Output Format allows the user to define format of the search results. All output options return a file format compatible with a specific Icom receiver. The files are designed for use with various receiver control software that is used to download the search results into the receiver's memory.
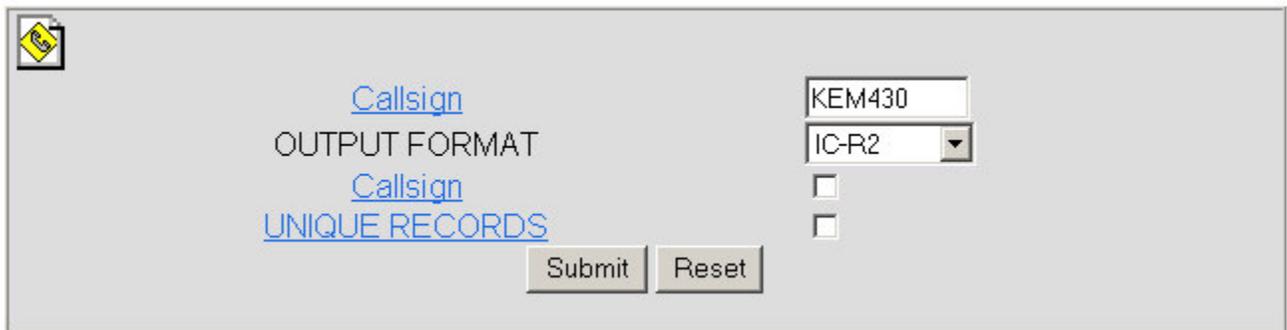
Search FCC Frequency Database By Callsign

To search for records in the FCC Master Frequency File by callsign, do the following:

Step 1: Find the **Callsign** category and select **Callsign In The Region**/**US**.

Step 2: After selecting the Callsign query, a form similar to the one below is displayed. To run a callsign search enter a callsign in the **Callsign** field. A test value that can be used is **KEM430**.

The Callsign field is the only required field, meaning that all of the other fields do not need to be changed before the search is submitted. Changing the optional fields will help tailor the output user-defined requirements, but new users can use the default settings to run a search without understanding all of the optional fields.

For more a detailed description of the output formats, see page 6.

Callsign	KEM430
OUTPUT FORMAT	IC-R2 ▾
Callsign	☐
UNIQUE RECORDS	☐
	Submit Reset

The search criteria shown in the above screen shot is valid and can be used as test values.

Step 3: Once data has been entered into the required fields and any option field values have been modified, click the Submit button to run the search. Click the Reset button to clear all fields.

> **Important:** Once a search has been submitted it cannot be stopped. If you make a mistake, DO NOT click the Stop button on your browser. Let the search finish, click the Back button and re-run the search with the correct criteria.

Step 4: After the search is completed, a page with a file download link is displayed. The results must be downloaded and saved so that the various receiver control programs can access the data. To run another search, click the Back button on the browser toolbar and select a new query.

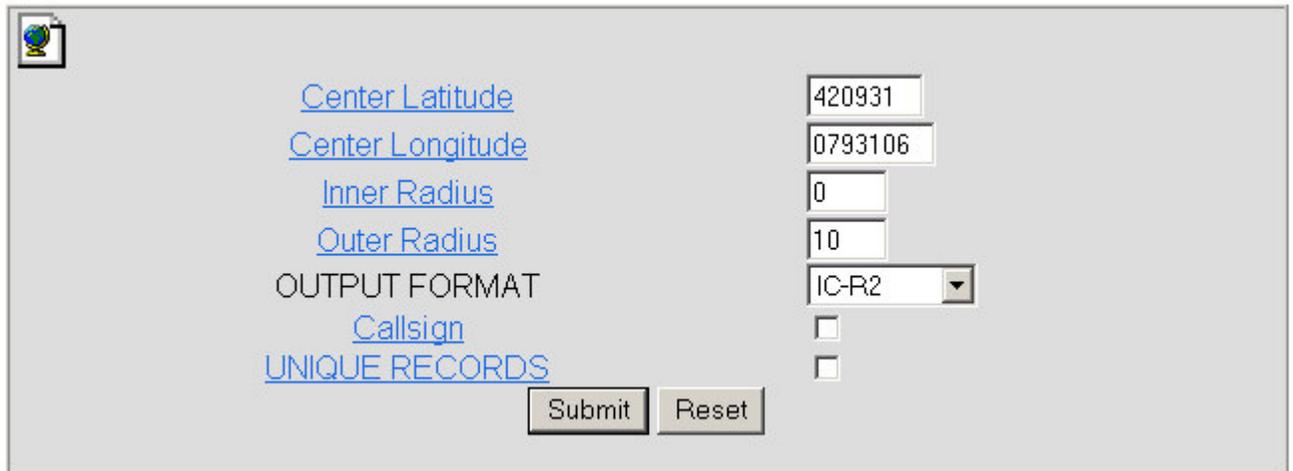## Search FCC Frequency Database By Radius With Lat/Long

To search for records in the FCC Master Frequency File using a radius search, do the following:

Step 1: Find the **Geographic** / **Radius** category and select **Radius Search**.

Step 2: After selecting the radius search, a form similar to the one below is displayed. To run the search, enter center latitude, center longitude and outer radius.

> **Important:** The Center Latitude field requires a 6-digit latitude in DDMMSS form. The Center Longitude field requires a 7-digit longitude in DDDMMSS form. Any longitude less than 100 degrees, requires a leading zero.
> To run a radius search, enter the radius distance in the Outer Radius field. The Inner Radius should be set to its default value of 0. The Inner Radius should only be used when performing donut searches.

For more a detailed description of the Spectrum: Online output formats, see page 6.

Center Latitude	420931
Center Longitude	0793106
Inner Radius	0
Outer Radius	10
OUTPUT FORMAT	IC-R2 ▼
Callsign	☐
UNIQUE RECORDS	☐
	Submit Reset

The search criteria shown in the above screen shot is valid and can be used as test values.

Step 3: Once data has been entered into the required fields and any option field values have been modified, click the Submit button to run the search. Click the Reset button to clear all fields.

> **Important:** Once a search has been submitted it cannot be stopped. If you make a mistake, DO NOT click the Stop button on your browser. Let the search finish, click the Back button and re-run the search with the correct criteria.

Step 4: After the search is completed, a page with a file download link is displayed. The results must be downloaded and saved so that the various receiver control programs can access the data. To run another search, click the Back button on the browser toolbar and select a new query.

Search FCC Frequency Database By Radius With Zip Code

To search for records in the FCC Master Frequency File using a radius search, do the following:
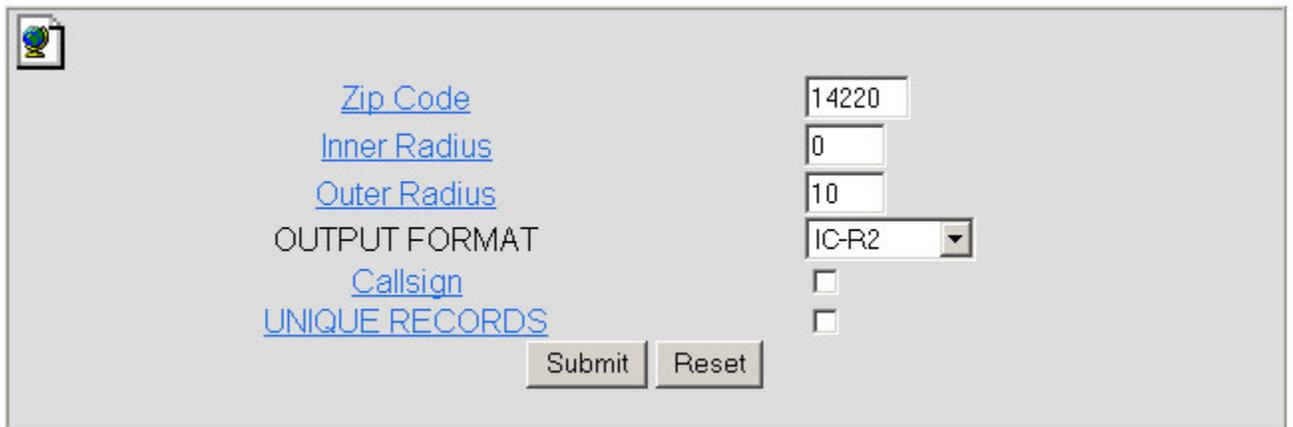
Step 1: Find the **Geographic** / **Radius** category and select **Zip Code**.

Step 2: After selecting the radius search, a form similar to the one below is displayed. To run the search, enter center latitude, center longitude and outer radius.

> **Important:** The Zip Code field requires a 5-digit zip code.
>
> To run a radius search, enter the radius distance in the Outer Radius field. The Inner Radius should be set to its default value of 0. The Inner Radius should only be used when performing donut searches.

For more a detailed description of the Spectrum: Online output formats, see page 6.

The search criteria shown in the above screen shot is valid and can be used as test values.

Step 3: Once data has been entered into the required fields and any option field values have been modified, click the Submit button to run the search. Click the Reset button to clear all fields.

> **Important:** Once a search has been submitted it cannot be stopped. If you make a mistake, DO NOT click the Stop button on your browser. Let the search finish, click the Back button and re-run the search with the correct criteria.

Step 4: After the search is completed, a page with a file download link is displayed. The results must be downloaded and saved so that the various receiver control programs can access the data. To run another search, click the Back button on the browser toolbar and select a new query.

File Output Formats

Overview:

The various file output options allow the user to return search results to a variety of different file formats. The fields in the files will vary depending on the database and file output selected for the search. When the search is complete, a temporary link to the file(s) is provided. The file should be saved to the hard drive and then downloaded to the receiver with various receiver control programs.

> **Note:** The receiver control software referred to in this tutorial is not supplied or supported by PerCon. PerCon cannot provide assistance with any control software or the use of software to download data files to a receiver.

The results of your search are in the following file:

R2
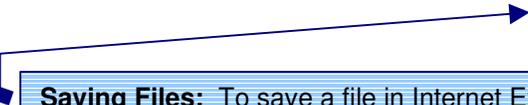
> **Saving Files:** To save a file in Internet Explorer, right-click on the file name and select Save Target As.
> To save a file in Netscape Navigator, right-click on the file name and select Save Link As.
> After the file download is complete, select the appropriate receiver control application to open the file from the hard drive.

Output File List:

The following list is the list of receivers currently supported by the frequency search system.

- IC-R5
- IC-T90A
- IC-2720H
- IC-PCR100
- IC-PCR1000
- IC-R2
- IC-R3
- IC-R5
- IC-R10
- IC-R8500
- IC-W32A
- IC-R75

> **Note:** Because each receiver requires a specific file format, the fields included in the various output formats will vary between receiver types. The output files created for one receiver will not work with other receivers. In addition, the control software used to download the output file data to the receiver may not be compatible with all available file formats.
>
> In addition, the file format output options are subject to change without notice. New options may be added at any time and may not be reflected in this tutorial.

Company Information

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Icom Frequency Search System Tutorials

Tutorial #1:
Introduction To The Icom Frequency Search System