

## Free Boater's GPS App for Your Android Phone

### Marine Ways

Download from Play Store and install

This is a great and free boating app for Android phones. It will provide current latitude and longitude coordinates, speed over ground (SOG), heading (HDG), and bearing (BRG). It uses NOAA charts and provides several different map overlays and a variety of types of weather information. It can also show other boats and obstructions depending on the screen you are using. One can enter routes on the app if desired.

**I like it and use it.**

**Doug**

## Instructions for OpenCPN Free Marine Navigation Program

### Chartplotter and GPS Navigation Software

Chart Plotter and Navigational software program for use underway or as a planning tool.

- Go to <https://opencpn.org/>
- Click "Show Me More"
- Click "Download Version XXX" for your particular device of choice
- Follow prompts and download
- There are lots of How-to Manuals available
- Charts may be downloaded from <https://charts.noaa.gov/RNCs/RNCs.shtml>
- For Ca Charts, click on RNCs by State/CA which will produce a CA RNCs zip file
- Save the zip file in a "Charts" folder on your computer for upload into your OpenCPN program.
- When you open the zip file, you will find a file folder "BSB ROOT". Open that and you will find all of the NOAA chart numbers.
- Select the particular chart numbers (see suggested ones below) and put them into a separate file under BSB ROOT 1 such as Ca Delta, Stockton to Monterey Bay, etc.

- When installing the Opencpn program, you will be prompted to include a chart file. Choose the file you want (either complete Ca list or the selected list you made). You can always change it in the program if you want. (Eg. Documents\Charts\Delta RNCs\BSB\_ROOT)
- Once the program has been installed and is open, go to the California area and zoom in on the area and the chart will show up.
- Now go play with all the things the program does.

**A set up video is available under the videos tab on the website**

Have fun,

Doug

Scale	Number	Description
1:40,000	18649	Entrance to San Francisco Bay
1:20,000	18650	San Francisco Bay Candlestick Point to Angel Island
1:40,000	18651	San Francisco Bay-southern part: Redwood Creek; Oyster Point
2:20,000	18653	San Francisco Bay-Angel Island to Point San Pedero
1:40,000	18654	San Pablo Bay
1:10,000	18655	Mare Island Strait
1:40,000	18656	Suisun Bay
1:10,000	18657	Carquinez Strait
1:20,000	18658	Suisun Bay-Roe Island and vicinity
1:20,000	18659	Suisun Bay-Mallard Island to Antioch
1:20,000	18660	San Joaquin River Stockton Deep Water Channel Antioch to Medford Island
1:40,000	18661	Sacramento and San Joaquin Rivers, Old River, Middle River and San Joaquin River extension, Sherman Island
1:40,000	18662	Sacramento River Andrus Island to Sacramento
1:20,000	18663	San Joaquin River Deep Water Channel Medford Island to Stockton
1:20,000	18664	Sacramento River Sacramento to Fourmile Bend

NOTE: Those charts highlighted in **RED** are the primary charts to get one to San Francisco. Greater detail for a particular area can be found on the larger scale charts.

### Other Charts of Interest

1:1,200,000

18007 San Francisco to Cape Flattery

1:100,000

1:210,668

1:20,000

1:50,000

18645 Gulf of the Farallones

18680 Pt Sur to San Francisco

18682 Half Moon Bay

18685 Monterey Bay