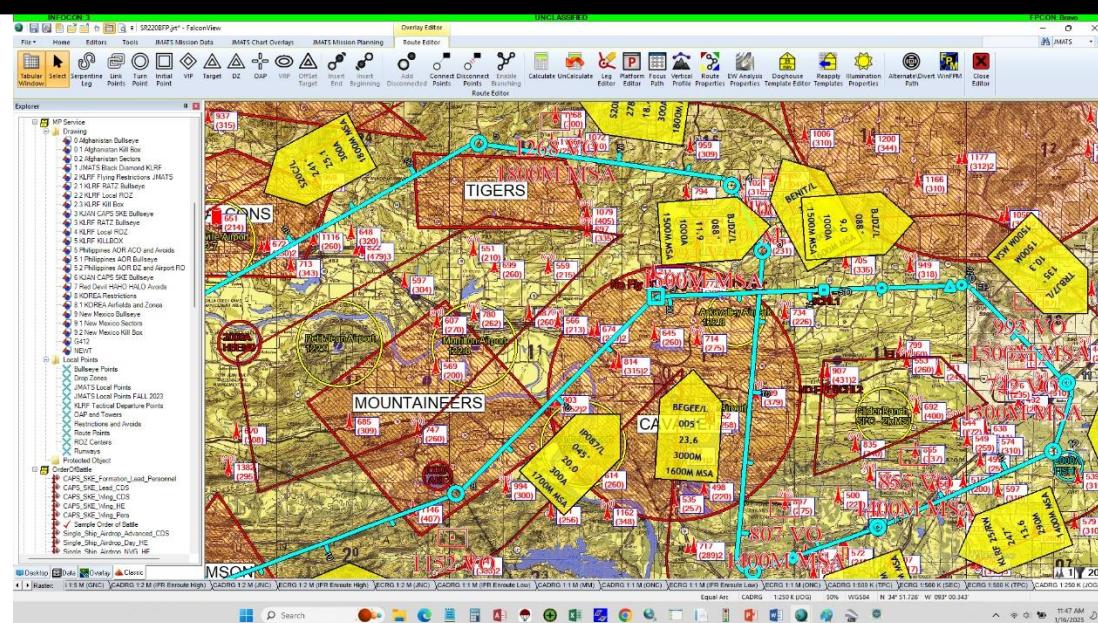


2025

HOW TO: JMPS Charts



Newton

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HOW TO: JMPS Charts in ForeFlight™

Chart Types

Some background: JMATS has used Target Graphic Printing for GoodReader, which mitigated the “paper” size limitations of Microsoft Print to PDF. However, this method had limitations:

- It wouldn’t automatically apply the Vol 3 annotations.
- The available output was an image file, which opens in GoodReader, but doesn’t allow stylus markups. In other words, you can’t scribble on your chart when DARKSTAR updates the threat.
- The image file suffered from “jaggies,” where route lines and other graphics didn’t look good.

The JMPS version 240 master computer images now have Adobe Pro installed, which allows selection of Adobe PDF using the Page Layout Tool in JMPS. Adobe PDF supports large “paper” sizes, which lets you create charts without having to shrink the scale.

This guide will introduce the use of Adobe Acrobat Pro “printer” to create **GoodReader PDF charts**. We’ll also show how to generate charts for ForeFlight using two methods: 1) **Target Graphic Printing**; and 2) **Tactical Map Tool**.

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Use Page Layout Tool (GoodReader)

Pros

- Generates a PDF chart without size limitations.
 - PDF charts are much clearer; no jaggies.
 - PDF can be “written” on in GoodReader.
 - Supports required Vol 3 annotations of chart series, date, VO currency, etc.

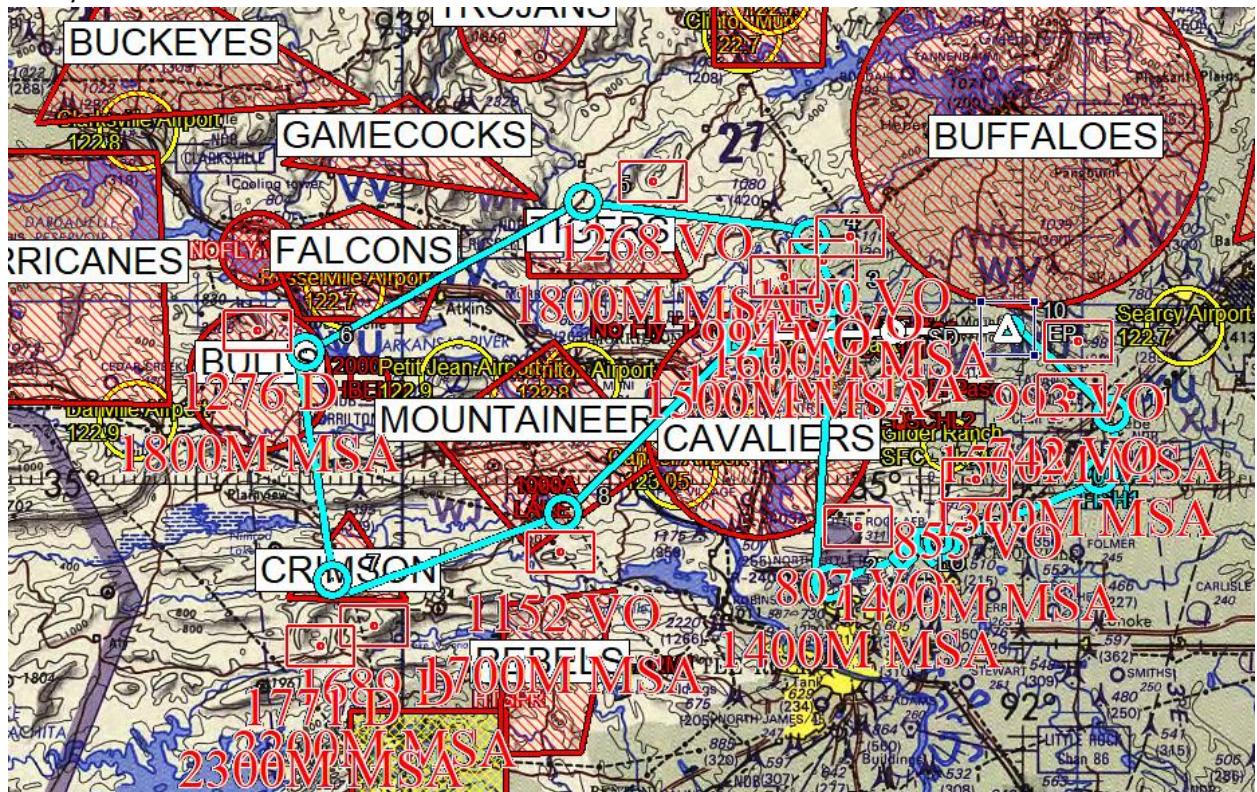
Cons

- Not georectified.
 - Won't overlay correctly in ForeFlight; it will import as a "Document," which is okay if you don't need to use it as a moving map.
 - Requires more clicking in JMAPS to set the size, orientation, and other options before generating.

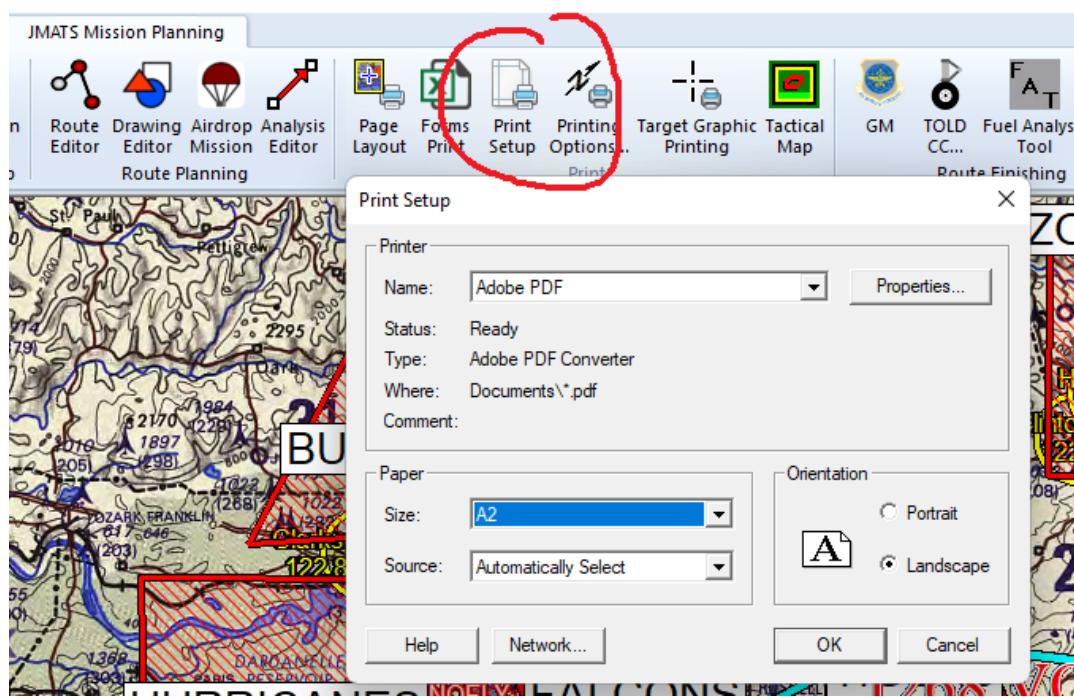
Create the PDF

1. Ensure the route is complete, calculated, and required/desired overlays are enabled.
 2. Select a chart scale that allows you to see the whole route or zoom out on the current scale.

In this example, I used ONC scale with VO and doghouses not shown above 1:500K just for clarity.



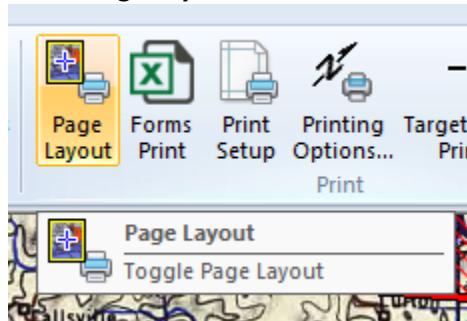
3. Select Print Setup and make it like this (see size list below for some recommendations):



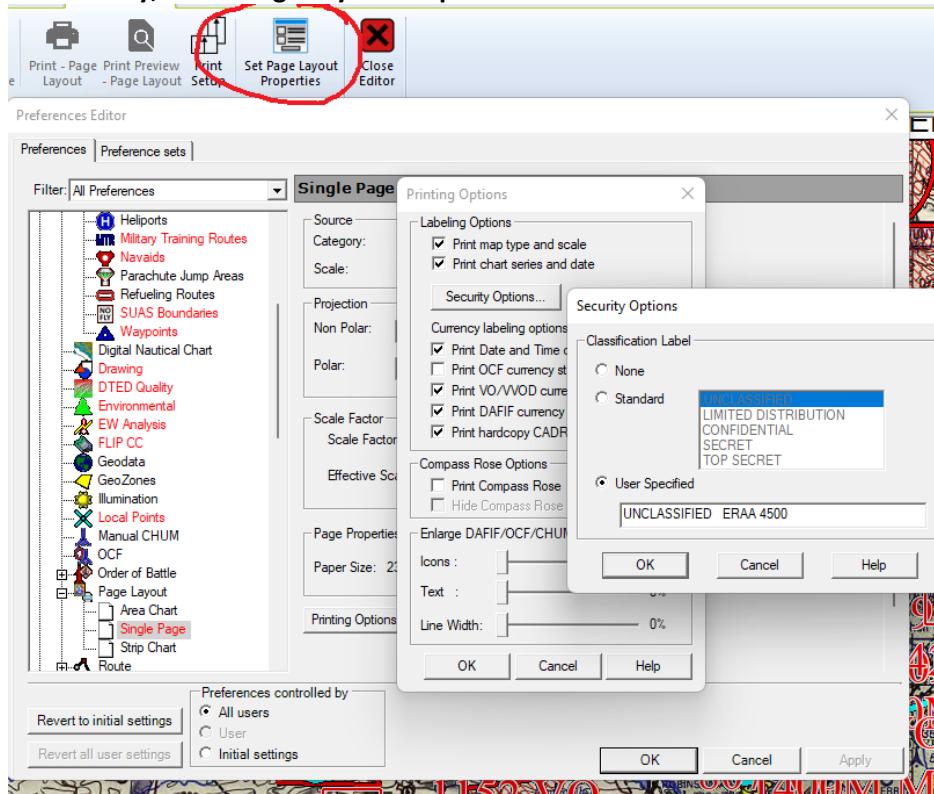
Select Paper Size as A0, A1, A2, or as desired. Size chart below assumes landscape.

- A0 = 46.81" x 33.11"
- A1 = 33.11" x 23.39"
- A2 = 23.39" x 16.54" (fits SR220A/B with ~10nm space from centerline)

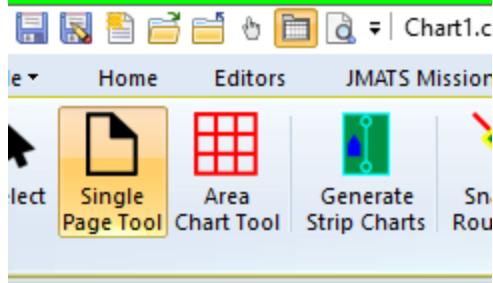
4. Select Page Layout.



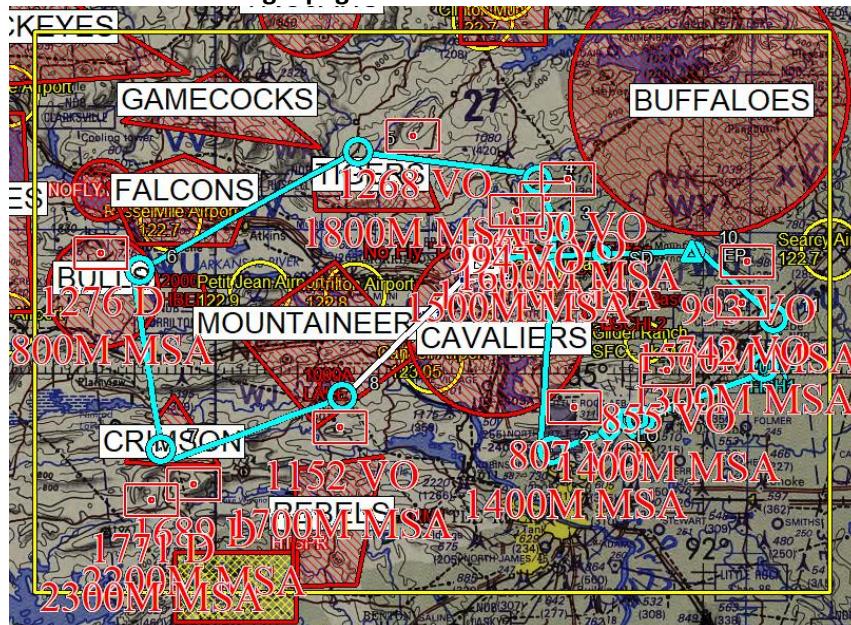
5. If necessary, select Page Layout Properties and edit.



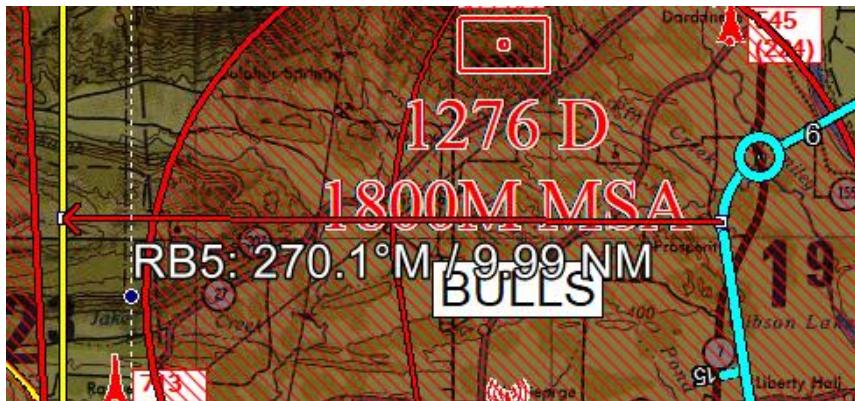
6. Select Single Page Tool.



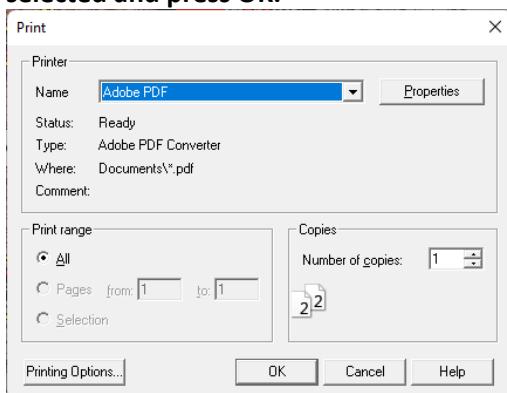
7. Click to insert the single page in a central area of the route.



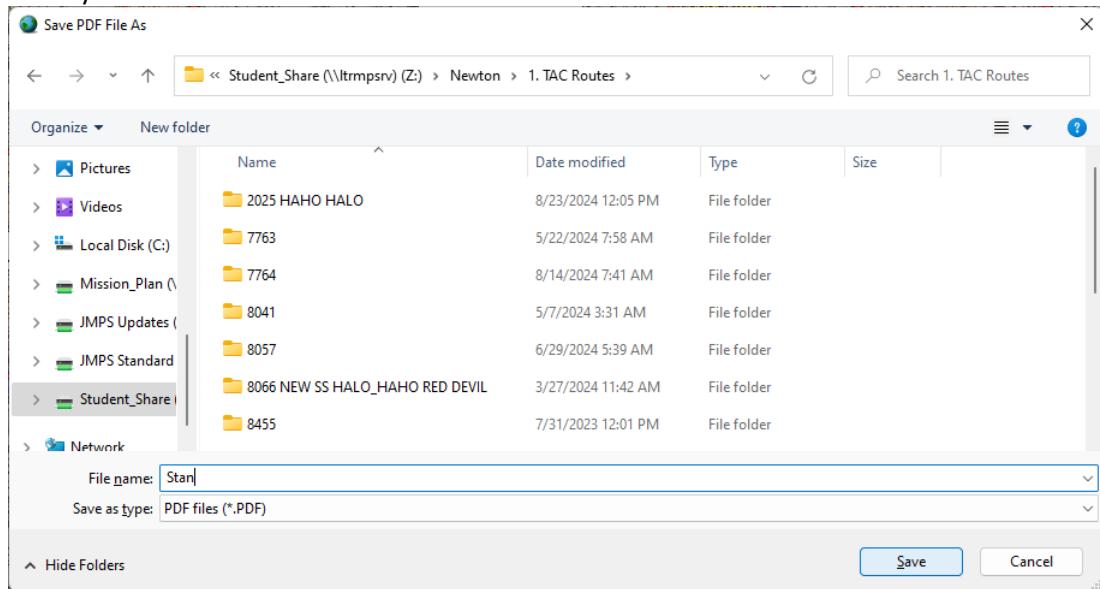
8. Adjust location of the single page if necessary to ensure required 10nm coverage from centerline.



9. Select Print Preview to ensure it looks right, then press Print. Ensure Adobe PDF is still selected and press OK.



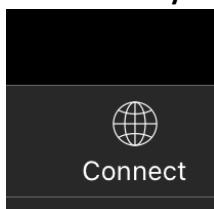
- 10. Name the chart and save it to desired location, something you can find later in GoodReader. I use my Student Share folder.**



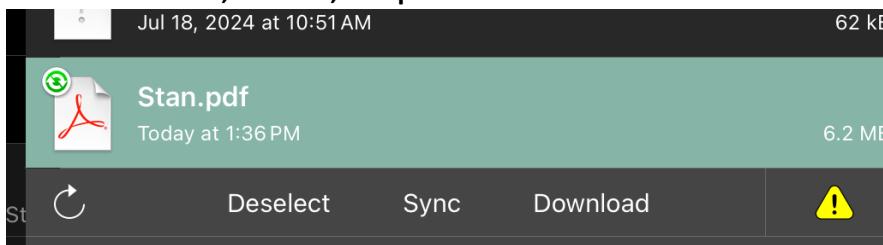
Send to ForeFlight

Now that you have a chart saved, switch to the EFB and GoodReader.

- 1. Press the Connect globe in the main menu and open either Student Share or Instructor Share location that you saved your chart to.**

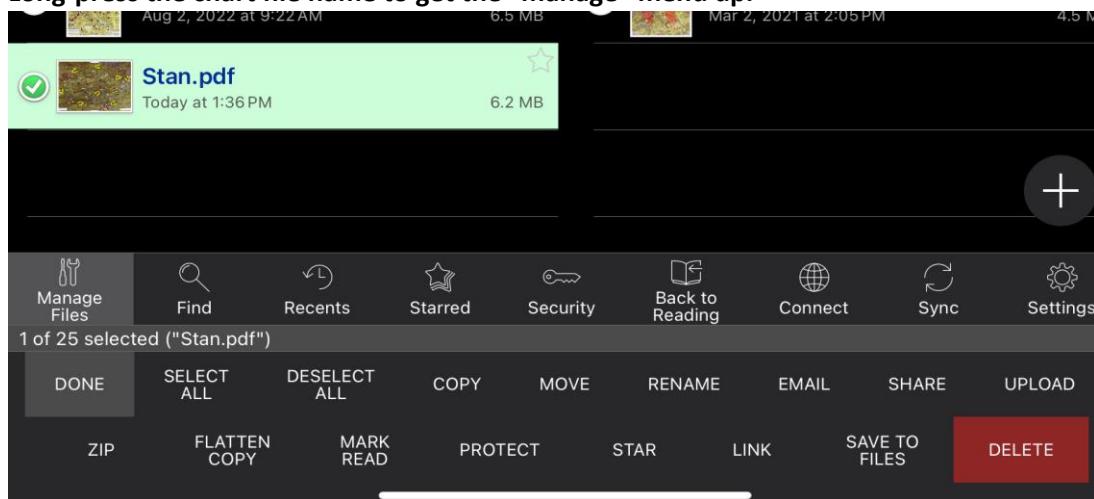


- 2. Browse to the file, select it, and press Download.**

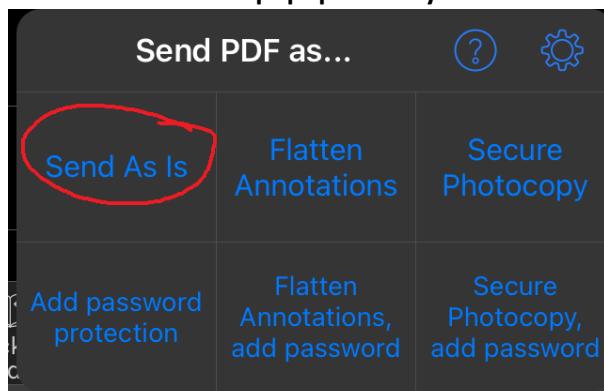


- 3. Select a location in GoodReader (Downloads, Home, etc.) and press Download Here. (If you just want to use in GoodReader, you're done. The chart file can be opened as a reader tab. For ForeFlight instructions, continue.)**
- 4. Go to that location in GoodReader.**

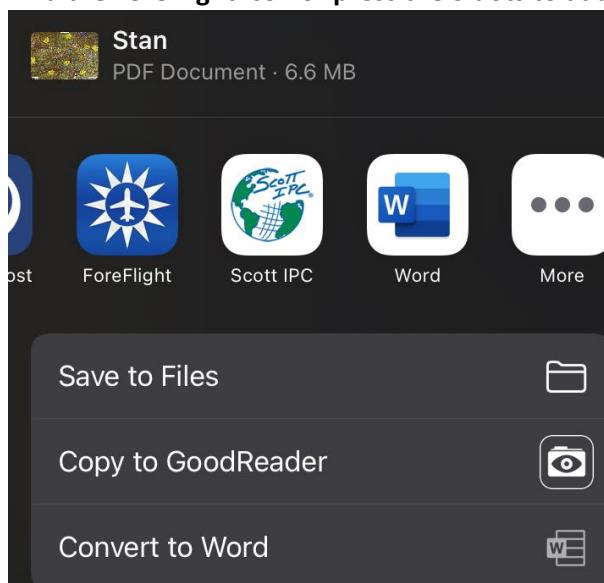
5. Long-press the chart file name to get the “manage” menu up.



6. Select Share. In the popup that says “Send PDF as...” select “Send As Is.”

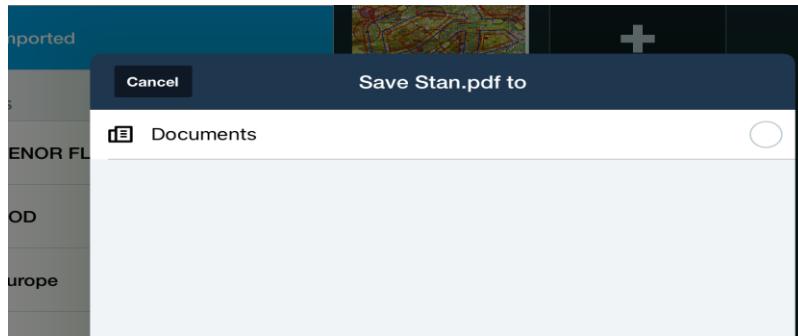


7. Find the ForeFlight icon or press the 3 dots to add it to the share list.

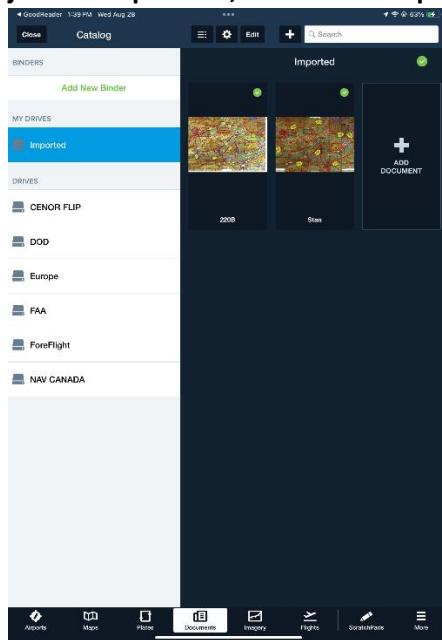


8. Select the ForeFlight icon and it will switch to ForeFlight.

9. Your option is “Documents,” so select the radio button next to that and it will immediately import your chart.



10. Tap the Documents tab in ForeFlight to see the list of imported PDFs. Realize that these are just static pictures, not on the maps.



Use Target Graphic Printing (ForeFlight)

Pros

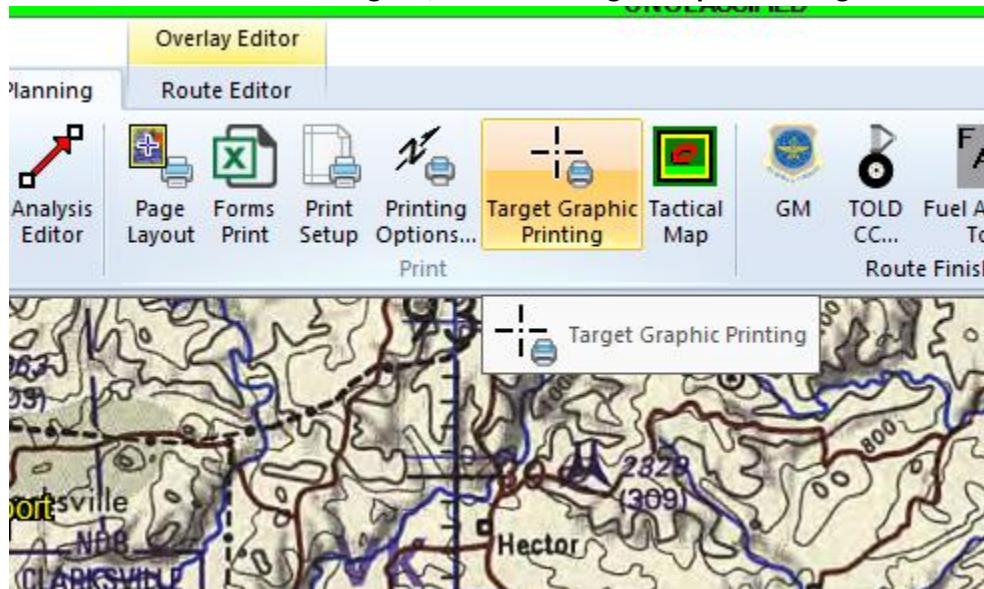
- Is georectified. Selection as a ForeFlight overlay allows it to function like a moving map (if you have GPS feed).
- Not constrained by size or scaling; draw as big a square as you want.
- Brings in all JMAP overlays, and way quicker than generating a file for the digimap.

Cons

- May take a lot longer to generate.
- Some jaggies in ForeFlight (won't matter much if you overlay a ForeFlight flight plan over it.)
- Does not generate Vol 3 annotations of chart series/date or VO currency.
- Quite large file sizes.

Create the Chart Using Target Graphic Printing

1. **Ensure the route is complete, calculated, and required/desired overlays are enabled.**
2. **Select a chart scale that allows you to see the whole route or zoom out on the current scale.**
In this example, I used ONC scale with VO and doghouses not shown above 1:500K just for clarity.
3. **In the JMATS Mission Planning tab, select the Target Graphic Printing button.**



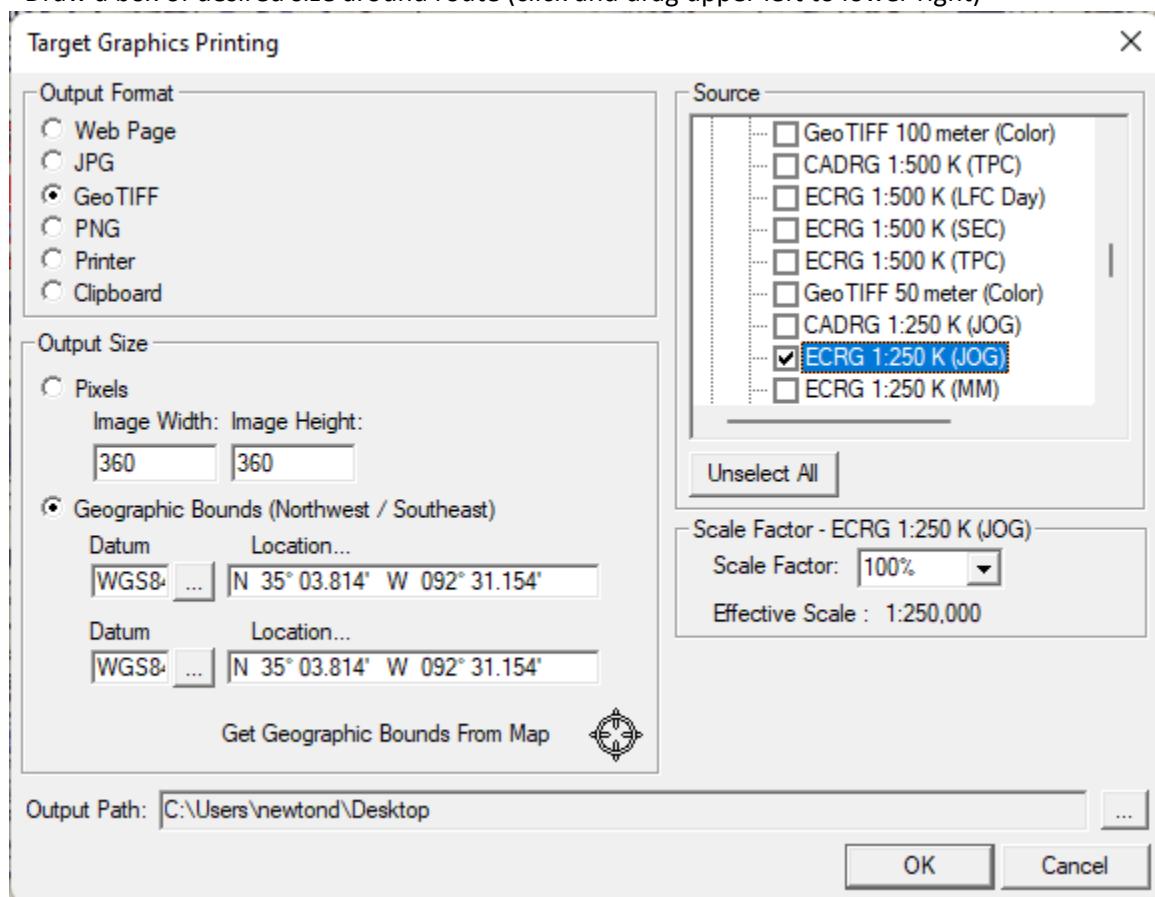
4. The Target Graphics Printing dialog will open.

Select:

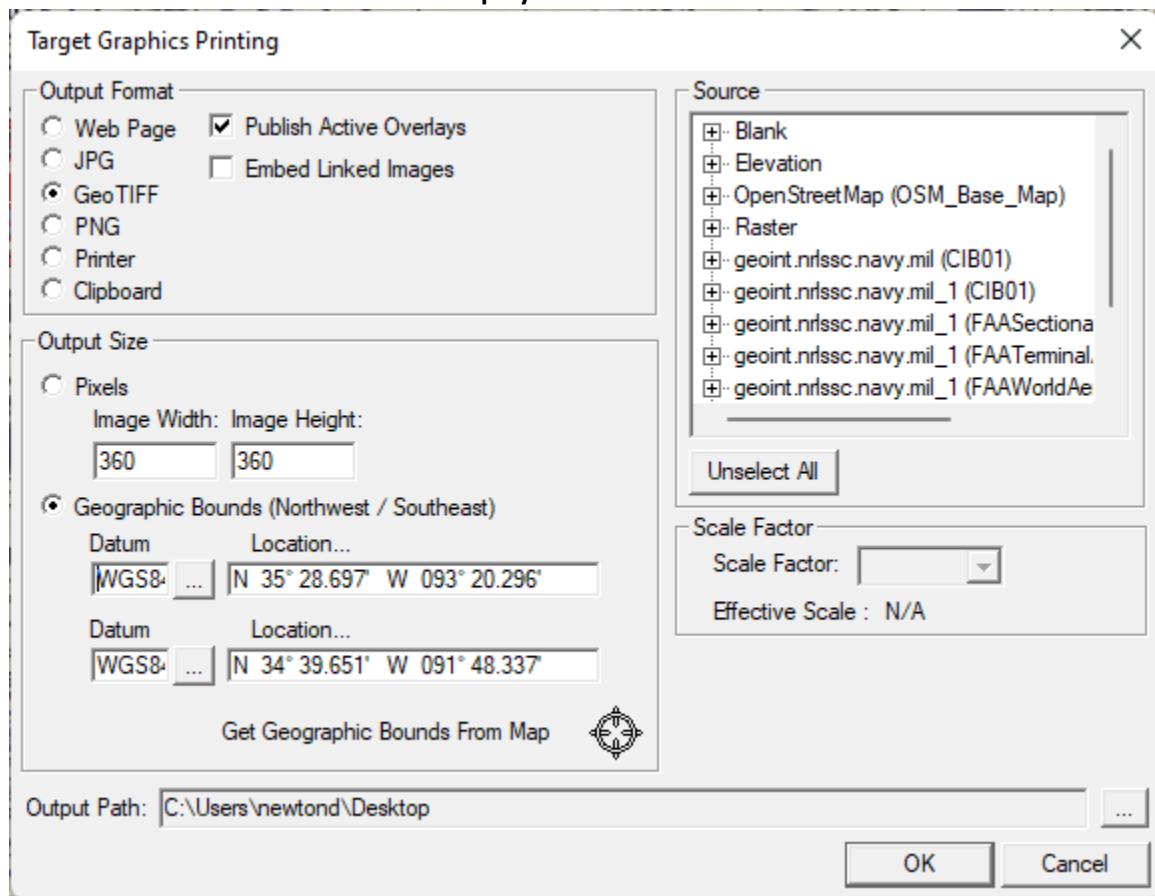
- GeoTIFF as Output Format
- Appropriate Raster scale under Source
- Select Geographic Bounds as Output Size
- Confirm or change desired Output Path

Click:

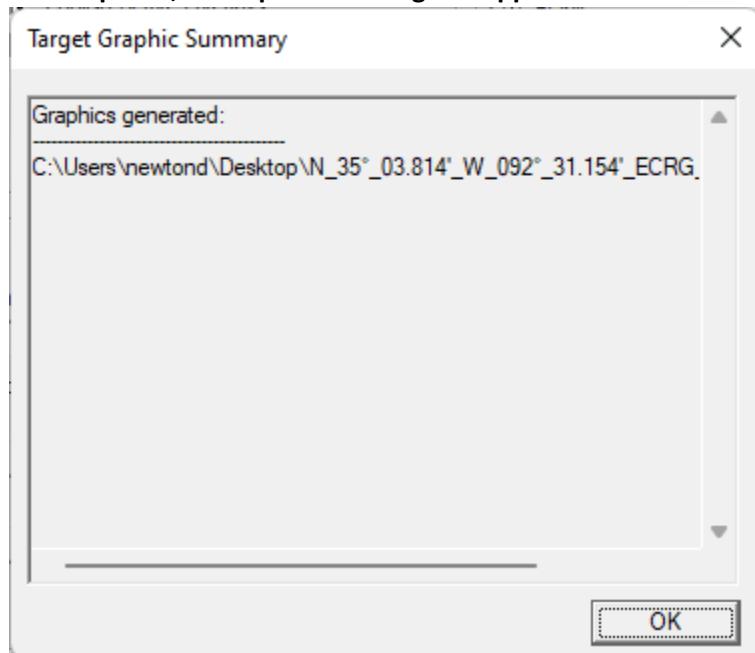
- Get Geographic Bounds From Map (press the crosshair)
- Draw a box of desired size around route (click and drag upper left to lower right)



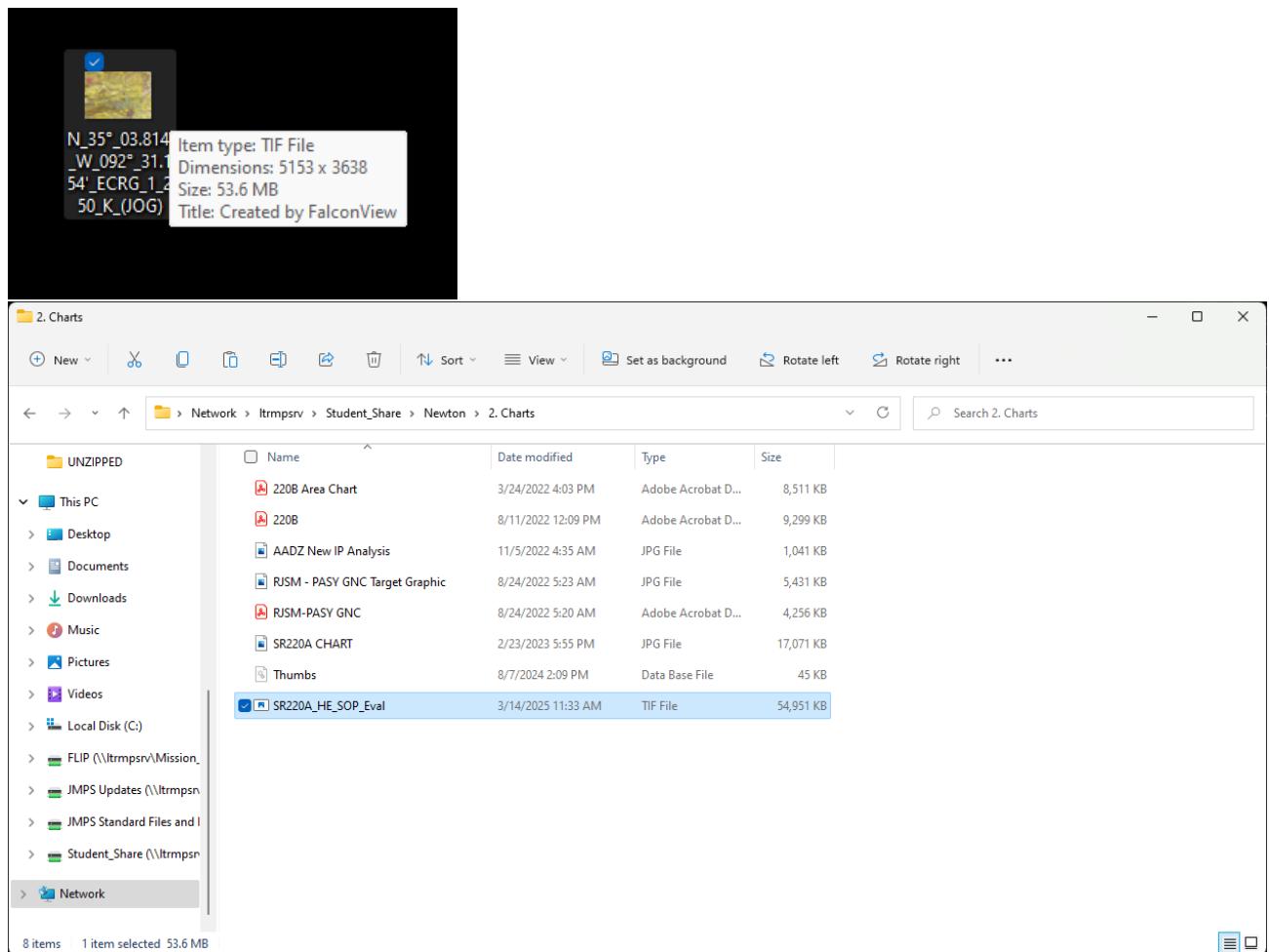
5. Observe the coordinate bounds are displayed. Press OK.



6. After a pause, a completion dialog will appear. Press OK.



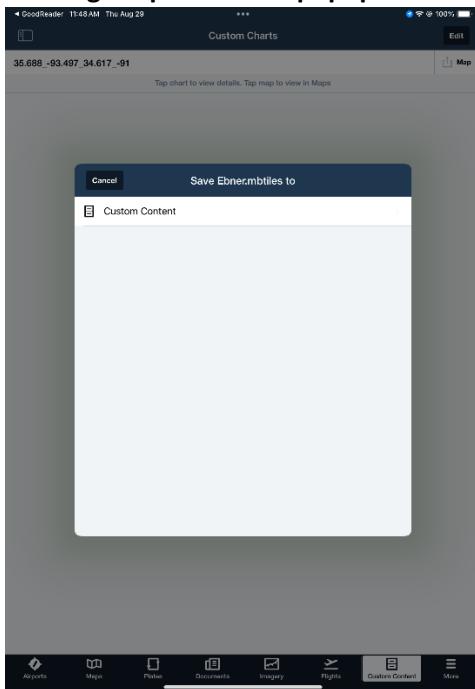
7. Find your file in the generated location and rename to something useful. Save to Student Share folder.



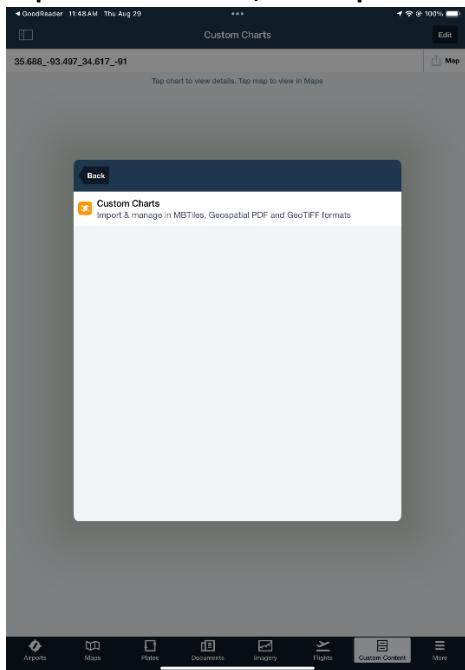
Send to ForeFlight

If you didn't save the file to a share folder, then copy it to either Student or Instructor Share. Now switch to the EFB and GoodReader. Most of these steps are identical to importing a PDF.

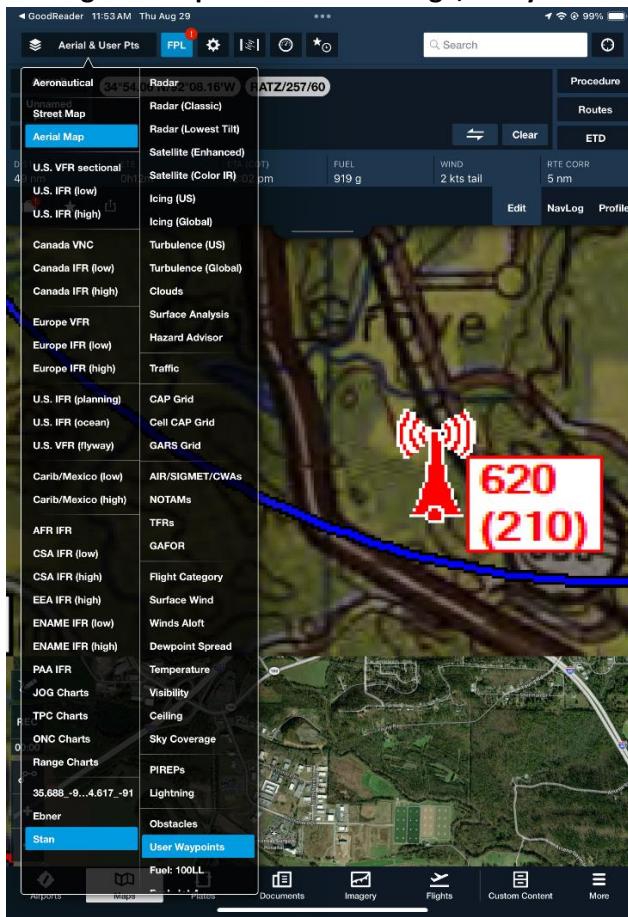
1. Press the Connect globe in the main menu and open either Student Share or Instructor Share location that you saved your chart to.
2. Browse to the file, select it, and press Download.
3. Select a location in GoodReader (Downloads, Home, etc.)
4. Go to that location in GoodReader.
5. Long-press the chart file name to get the "manage" menu up.
6. Select Share.
7. Find the ForeFlight icon or press the 3 dots to add it to the share list.
8. Select the ForeFlight icon and it will switch to ForeFlight.
9. ForeFlight opens with a popup "Save xxx.xxx to". It should show "Custom Content."



10. Tap Custom Content, then tap Custom Charts.



11. You'll get an Import Success message, and your chart is now available in Aerial & User Pts list.



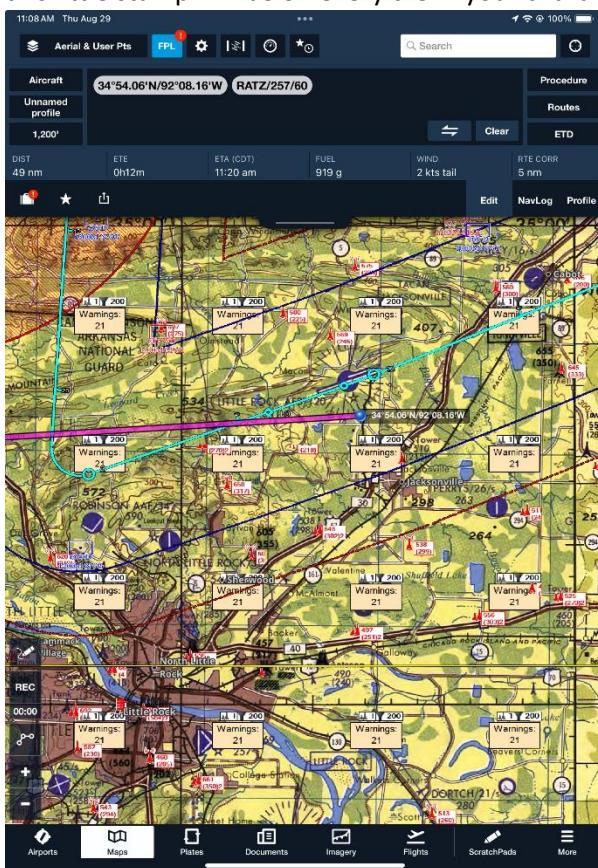
Use Tactical Map Tool (ForeFlight)

Pros

- Is georectified. Selection as a ForeFlight overlay allows it to function like a moving map (if you have GPS feed).
- Not constrained by size or scaling; draw as big a square as you want.
- Brings in all J MPS overlays, and way quicker than generating a file for the digimap.

Cons

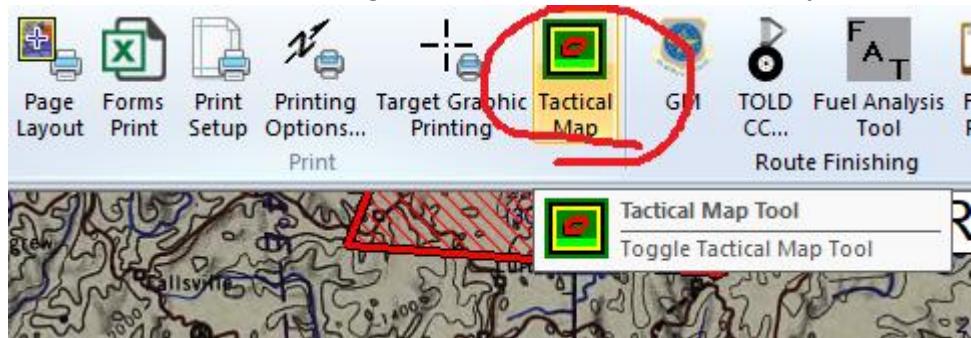
- May take a lot longer to generate.
 - Some jaggies in ForeFlight (won't matter much if you overlay a ForeFlight flight plan over it.)
 - Not usable in GoodReader or desktop applications.
- If you have an airdrop mission (CARP) open in J MPS and there are warnings, this little stamp will be on every tile in your chart. (See screenshot below)



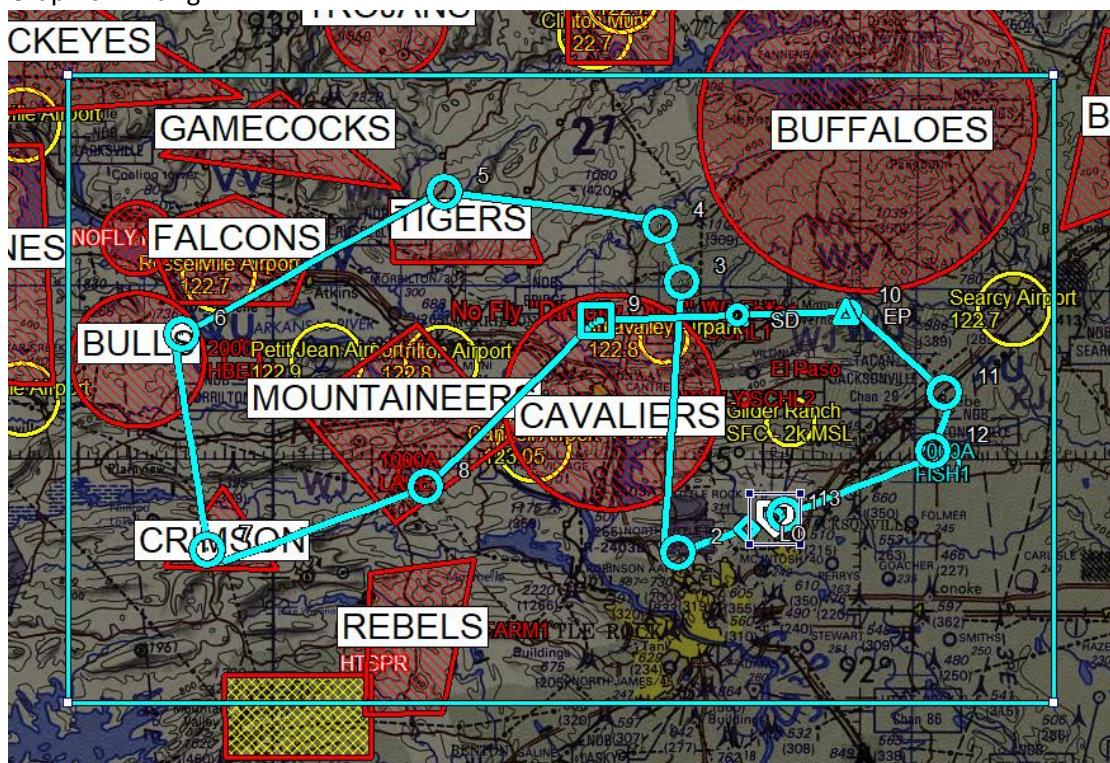
Create the MBTile Chart

8. Ensure the route is complete, calculated, and required/desired overlays are enabled.
9. Select a chart scale that allows you to see the whole route, or zoom out on the current scale.
In this example, I used ONC scale with VO and doghouses not shown above 1:500K just for clarity.

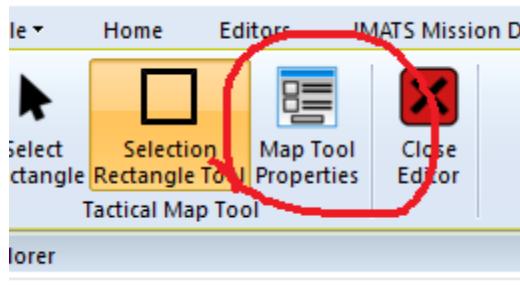
10. In the JMATS Mission Planning tab, select the colorful Tactical Map.



11. It will open with the selection cursor enabled. Click and drag a box just like doing Target Graphic Printing.



12. Select Map Tool Properties.



13. Select Chart Scale.

14. Select a file name if desired.

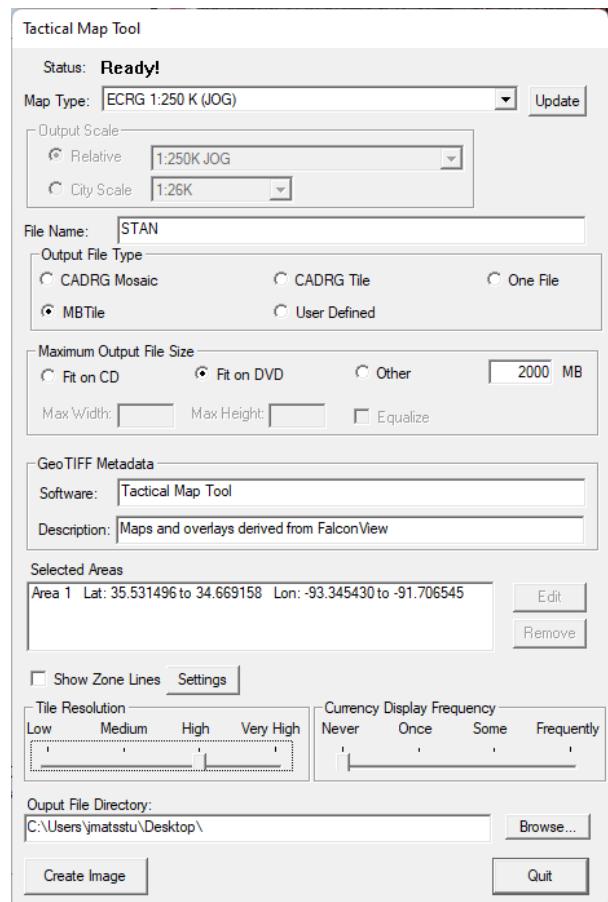
15. Select Output File Type as MBTile.

16. Select Maximum Output File Size as Fit on DVD.

17. Select Tile Resolution as High.

18. Set the output directory of your choice. The easiest method is to save it to your Student Share or Instructor Share folder.

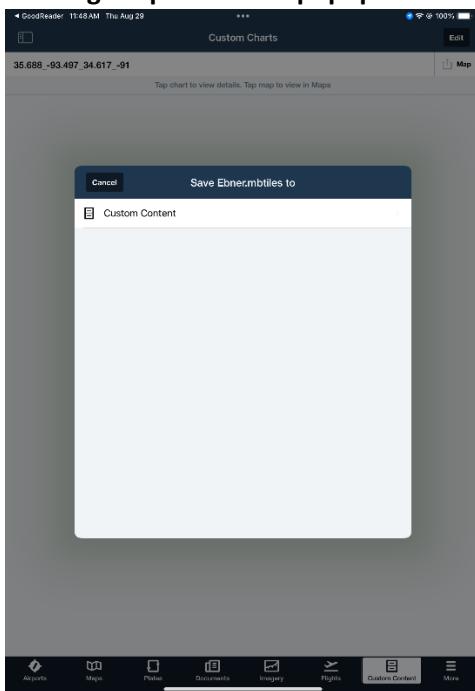
19. Press the Create Image button.



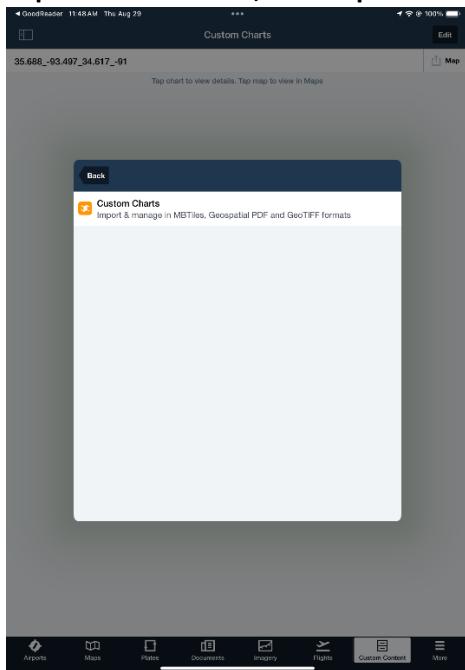
Send to ForeFlight

If you didn't save the file to a share folder, then copy it to either Student or Instructor Share. Now switch to the EFB and GoodReader. Most of these steps are identical to importing a PDF.

- 12. Press the Connect globe in the main menu and open either Student Share or Instructor Share location that you saved your chart to.**
- 13. Browse to the file, select it, and press Download.**
- 14. Select a location in GoodReader (Downloads, Home, etc.)**
- 15. Go to that location in GoodReader.**
- 16. Long-press the chart file name to get the "manage" menu up.**
- 17. Select Share.**
- 18. Find the ForeFlight icon or press the 3 dots to add it to the share list.**
- 19. Select the ForeFlight icon and it will switch to ForeFlight.**
- 20. ForeFlight opens with a popup "Save xxx.xxx to". It should show "Custom Content."**



21. Tap Custom Content, then tap Custom Charts.



22. You'll get an Import Success message, and your chart is now available in Aerial & User Pts list.

