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# iPads in the cockpit

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# Why Listen to Me

- Tall and good-looking
- Seattle Avionics has made aviation programs for 10 years (Voyager)
- Sell ChartData-brand aviation data to all the major iPad vendors
- Only company (except Jepp) to get FAA certification for our data
- US and European data
- Make AOPA FlyQ EFB and Bendix/King myWingMan



# iPad vs. Tablet

- iPad is not the only tablet
  - Android, Windows
  - Kindle doesn't have a GPS
- Size matters
  - 10 inch or 7 inch?



# iPad Not Perfect

- Not designed for aviation use
- Screen glare
- Screen brightness
- Built-in GPS terrible for aviation
- In-cockpit weather limited
- Size
- Connectivity



# Features to Look For

- Easy to use
- Easy to read text
- Fast data downloads
- Split screen
- Wind-optimized automatic routing
- Track Up
- Synthetic Vision
- TAWS
- GPS Simulator
- Synchronization with other systems



# Features to Ignore

- Scratchpad
- Documents



# The Players

- ForeFlight (\$99 - \$149)
  - Easy to use but not especially powerful.
  - Getting “long in the tooth”
- WingX (\$99 - \$299)
  - Lots of features, very powerful
  - Non-standard, awkward user-interface
- AOPA FlyQ EFB (\$69 - \$119)
  - Easy to use and powerful. Missing a few features. Wind-optimized automatic routing, shares plans with FlyQ Web.
- Garmin Pilot (\$49 - \$125)
  - Pretty and some nice features but a bit quirky
- myWingMan by Bendix/King (\$99 - \$149)
  - Unique user interface. Some nice features.



# Weather in the Cockpit

- Downloaded from the Internet
  - No inflight updates
  - Fine for most VFR flights
  - Free
- XM
  - Best data. Higher resolution, more data products
  - \$55 / month
  - \$800 in equipment
- ADS-B
  - Just radar, METAR/TAF, TFRs, AIRMET/SIGMET, Pireps, and Winds Aloft
  - \$600-1200 for the equipment
  - Free (no monthly charge)



# ADS-B Details

- All boxes are a little different, not interchangeable like GPS units
- Limited but “good enough” weather for free
- Coverage is good but not perfect. All CONUS by the end of 2013. East and West coasts now.
- WiFi vs. Bluetooth issue
- Don't worry about TIS-B, FIS-B, 1090ES, 978, Out, In
- Traffic doesn't really work with the iPad / dangerous



# Selecting an App

- Try them all. Free trials.
- Subscribe to more than one for the first year
- Read the documentation, watch the videos
- Call / email the manufacture with questions
- Pay a lot of attention to work-flow rather than features. Does the app work the way you expect and/or in a way that's fast in the cockpit?
- Can you read the text?
- Don't necessarily pay attention to reviews on the app Store. People who post are not representative of most users.



# Tips

- Always check to make sure data is downloaded before the flight
- Ensure the iPad and devices are charged
- Use an external GPS, preferably Bluetooth
- Turn off WiFi unless you are using a device that needs it (saves power, reduces flakiness)
- Use the Lock switch on the app or the iPad
- Practice with a GPS simulator if the app has one



# Bottom Line

- All the major apps will be incredibly helpful
- Pick the one that feels best to you
- Don't focus on features in the current version of each app beyond a point. They'll all have new releases in the next 12 months.
- Don't be afraid to ask the developer questions