## Use of GPS by Marine Pilots

Civil GPS Service Interface Committee

September 8, 2014

Tampa, FL

### "What's a Pilot?"

- \* Specialized Mariner
  - Port Specific
  - \* Mandated by State and Federal Statute
  - Assumes Navigational Control of the vessel
  - Expert Ship Handler
  - \* Traffic Coordination
  - \* Moors the Vessel with/without Tug assistance

#### The Environment we work in







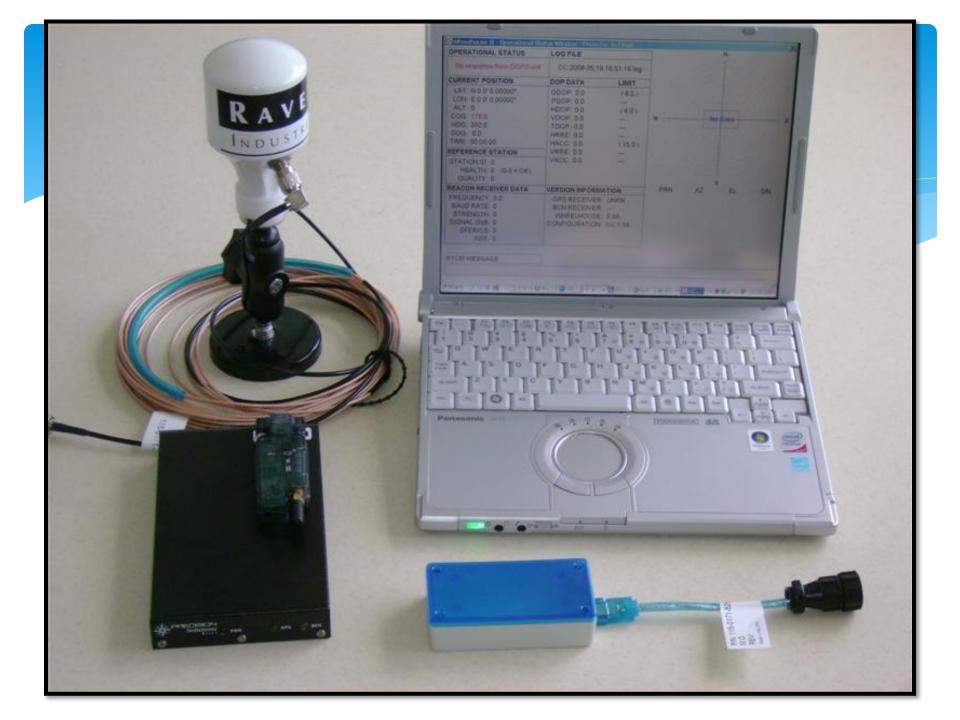


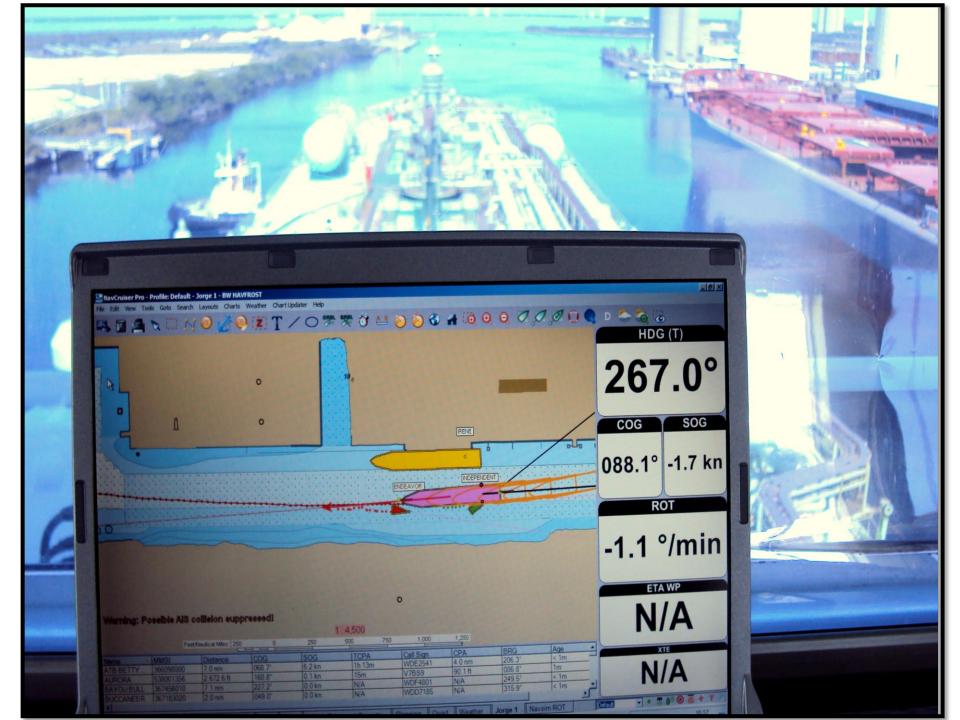
# Portable Pilot Unit (PPU)

- \*American Pilots' Association
  - \* 1,200 State Licensed Harbor Pilots
  - \* Over 2/3 of pilots use some form of PPU
  - \* Constant revision
    - \*User driven

P D





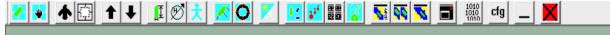


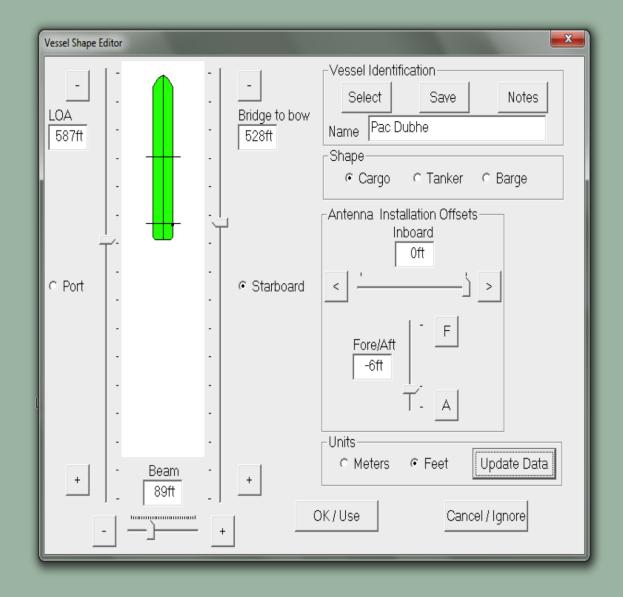


# RAVEN Wireless – Bluetooth DGPS Pilot Unit













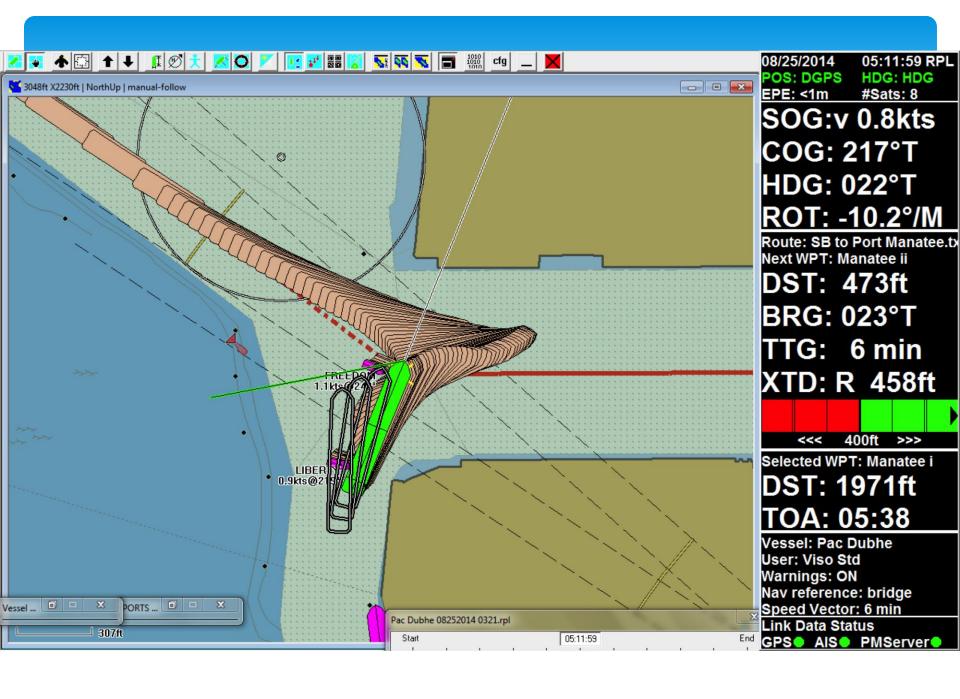












#### Issues

- \* What do you mean by differential?
- \* USCG Differential Beacons
- \* WAAS issues
- \* GPS Accuracy exceeds that of the chart
- \* Crutch
  - \* Training
- \* No fall back for the commercial seagoing mariner
  - \* LORAN C dismantled

