

**Presentation: Smart Phone apps
for the South Bay Cruising Club
<http://www.sbccsail.org/>**

April 21, 2013

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Rich Troy

Agenda

- Hardware considerations
- Why smartphone apps
- Examples of smartphone apps
 - Preparing for the journey
 - During the journey
 - After arrival
- Questions?

You will be able to download this file at
<http://www.sbccsail.org/Presentations.htm>

Disclaimer

- We accept no responsibility for your use or misuse of the information in this presentation

First, let's talk about hardware

- My devices are Apple iThings:
 - iPhone 4s, iPad (2 & 3), iPod touch, AppleTV 2s
- Most good apps are available on other phone platforms like Android
- Caution: if you buy the app from Apple, you'll need to buy it again if you move to Android
- Many phone platforms are compatible with standardized USB chargers and standardized USB external battery packs

Hardware purchasing questions

- If you don't already own a smart phone
 - Decision: iPhone vs Android vs other?
 - What is the advertised battery life?
 - Decision: phone coverage outside of USA?
 - Decision: how much memory (RAM)?
 - Decision: which cellular carrier?
 - Decision: how much monthly service?
 - Voice minutes, data megabytes, text messages
- iPad/tablet additional considerations
 - Decision: WiFi only, or add cellular data service?
 - Does it include GPS and/or compass?
 - No GPS in WiFi only iPad or iPod Touch

Hardware purchasing considerations

- Can you get an extended warranty including:
 - Software support?
 - Hardware replacement if you drop & break it twice?
- Does the phone and the carrier support simultaneous voice & data?
 - AT&T does
 - Verizon recently added that in 4G, on some phones

My purchasing decisions

- iPhone with AT&T; works in almost all countries
- I buy max memory (RAM) – not needed for most people
- I have old unlimited data plan from AT&T
- I have smallest monthly voice plan (450 minutes/mo)
 - Rollover voice minutes build up during winter for use during summer
- I have smallest monthly text message plan, not a pay-per-message (200 text messages/mo)
- For iPad, I buy with AT&T cellular hardware
 - iPad allows buying cellular data coverage only for the months when you want it; no annual contract

Caution: making changes to cellular plans

- If you have an unlimited cellular data plan, be careful making changes
 - You may get dropped out of the unlimited cellular data plan if you turn on WiFi hot spot on your phone
- If you have rollover cellular voice minutes, reducing your monthly cellular voice minutes may reset your rollover minutes to zero

Why I like Apple iPhone

- Tons of apps (over 1,100,000) *
- Some apps have a high resolution version for the iPad; optimizes use of the larger display
- Buy app once, use on all: iPhone, iPad, iPod
 - Most apps: pay once, get iPad high resolution version for free
- Lots of 3rd party accessories are available

* <http://148apps.biz/app-store-metrics/>

Hardware: Bluetooth feature

- Bluetooth (in all smart phones) is a way that your smart phone can exchange sound and data with an external device - wirelessly
- Enables hands-free driving with compatible car radio. Can also play music to radio.
- With compatible Bluetooth radios in car and boat, you can move from the car to the boat and the music continues playing where it left off in the car
- If you install Bluetooth in your boat, be sure to install the microphone

Some hardware to consider:

Battery running low too soon?

- Keep a 12VDC recharger and long cord on board; consider keeping a 2nd backup pair
- Mophie www.mophie.com juice pack plus
 - more than doubles iPhone battery power, \$99
- Mophie juice pack power station PRO
 - Adds about 50% more power to an iPad 3, \$99
- Recharge the Mophie batteries with USB power
- Dual USB charger can do both iPad and iPhone from same device 'MaximalPower', AC or 12VDC

Some hardware to consider:

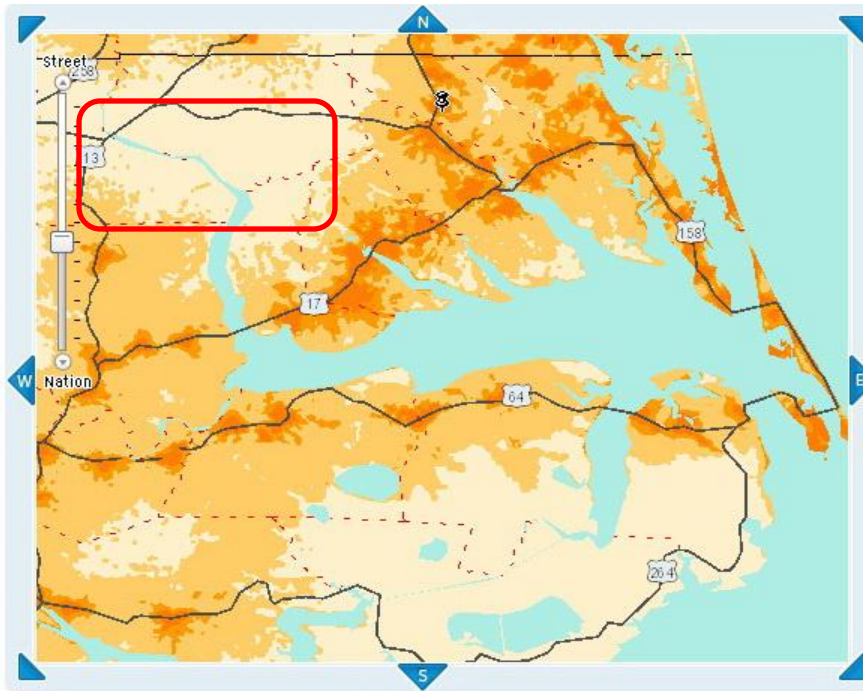
No signal from AT&T?

- There was no AT&T coverage in the ICW's Dismal Swamp of North Carolina
- Solution: Verizon 4G LTE Mobile Hotspot
 - I have the model 890L
 - Uses its own Verizon cellular data plan & creates local WiFi for up to 4 devices
 - Included battery can support over 4 hours of use
 - Plug into USB charger for longer usage
 - Supports up to 10 devices
 - Cellular data plan: 5GB for \$50/month

Cellular data, coverage maps

- Do a web search (google, etc) for
 - “AT&T cellular data coverage map” or
 - “Verizon cellular data coverage map”, etc.
- Scroll through the map to see if there are coverage gaps along the way, at the destinations, etc.

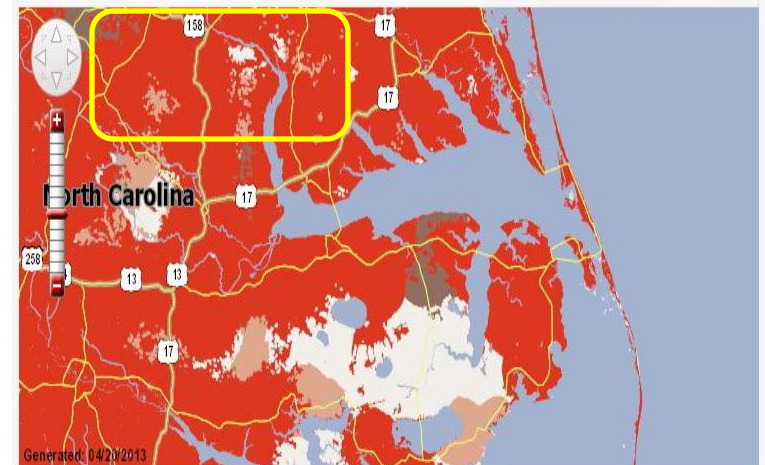
Cellular data coverage example, AT&T vs Verizon near Dismal Swamp



Voice Coverage Legend

- Best
- Good
- Moderate
- Requires 3G Capable Device
- Partner
- No Service Available

AT&T has no coverage
(see red rectangle)



Map Legend

- 3G Data Coverage
- 1X Data Coverage
- Extended 3G Data Coverage
- Extended 1X Data Coverage
- Canada/Mexico 3G Data Coverage
- Canada/Mexico 1X Data Coverage
- No Service

Verizon has coverage
(see yellow rectangle)

All carriers seem to have good
coverage in areas near Long Island

Some hardware to consider: additional items

- Your smart phone is probably not waterproof
 - Unless you have the new smartphone from Sony
 - Get a water resistant fanny pack, as a carrying case
- Your smartphone or iPad/tablet might not be viewable in strong sunlight; need to shade it
- USB extension cables
 - Enable charging phone further away from power source
- Good ear buds for music & conversations
 - Reduce outside noise; improve hearing

iPhone/ iPod/ iPad trick

- Press the circle button from the home screen
- Search window appears with keyboard
- Type in text to find any of these, all at once:
 - Apps by name
 - People in your Contacts list
 - Songs in your Music Library
 - Videos in your Video Library
 - Etc.

Now for the apps

Why smartphone apps

- Smart phone is a very capable computer in your pocket
- Most apps are professional grade
 - Apps = applications, a.k.a. programs
- Usually much less expensive compared to a laptop's version
- Coastal cruisers will typically have Internet connectivity

Two main categories of apps

- 1. Using the Internet
 - Needs Internet connectivity to work
 - Typically no problem for nearby coastal cruisers
- 2. Self-contained
 - All data is in the app; no Internet needed
 - Many self-contained apps need data downloaded first, from the Internet (like map sections)
 - Then they become self-contained for the downloaded data
 - Most valuable for use off-shore or out of country

SmartPhone App pricing

- Many apps are free or \$0.99 (Lucy would approve)
- Some apps are paid by advertisements
- Some apps have a basic free version and then an upgraded version for a higher price
- Some apps sell content in the app (examples: map extensions, magazines)



It should be 5¢

Some apps mentioned today

Category	App Name	Cost
street GPS turn directions	Navigon \$50 (US) - \$60 (incl Canada) by Garmin	\$60
Spreadsheet	DocumentsToGo \$17 by DataViz or iWork \$30 by Apple	\$17
Charts, Tides	Navimatics Charts&Tides, US East	\$20
ActiveCaptain	Navimatics Charts&Tides, US East (included)	\$0
picture editing	iPhoto by Apple	\$5
video editing	iMovie by Apple	\$5
running lights	Navigation Rules \$4-\$5 by Double Dog Studios	\$5
Weather forecast	Weather Channel \$0-\$3.99 or Weather Underground \$0	\$4
Sunrise and sunset	Weather Channel \$0-\$3.99 or Weather Underground \$0	\$4
Weather RADAR, hi def	Hi-Def RADAR \$2-\$4 by WeatherSphere	\$4
Wind forecasts	WindFinder \$0-\$1.99	\$2
Phase of the moon	Tide Graph \$1.99	\$2
Tides and currents	Tide Graph (included)	\$0
Pocket pharmacist	PocketPharmacist \$2 by Michael Guren	\$2
NOAA buoy data	BuoyData \$2 by Verona Solutions	\$2
Offline Reader	Offline Reader	\$0
WebMD	WebMD by WebMD, LLC	\$0
signal flags	Signal Flag Info by Gigs, Inc	\$0
book reader	Kindle app by Amazon or iBooks by Apple	\$0
view home PC	TeamViewer by TeamViewer	\$0
phone call	Skype or Groundwire or Vonage	\$0
video phone call	Skype by Skype or FaceTime by Apple	\$0
anchor alarm	DragQueen	\$0
Total		\$132

free!

Note: iWork= Pages, Numbers, Keynote apps by Apple

Much of the app's info is available free via Internet browsing.
Appsoften add functionality and enable offline usage.

Preparing: Apps to consider, using the Internet

- Weather forecast / weather RADAR
- Wind forecasts
- NOAA bouy data, wave height
- Offline web page reader
downloads & stores web page for later offline use
- Local notice to mariners
<http://www.navcen.uscg.gov/?MenuSection=7>
- TripAdvisor: reviews of destinations, activities, etc
<http://www.tripadvisor.com>

Preparing: apps to consider, self-contained

- Tides and currents
- Sunrise and Sunset [avoid landfall in dark]
- Phase of the moon [if night travel]
- Charts
- Spreadsheet for calculating travel times
- Offline web page reader [for pages previously downloaded]
- User submitted info on destination marinas, shoaling, etc: 'ActiveCaptain'
- PDF reader for owner's manuals
 - Search for key words rather than turn pages

Practical Sailor review of nav apps (as of April 2013)

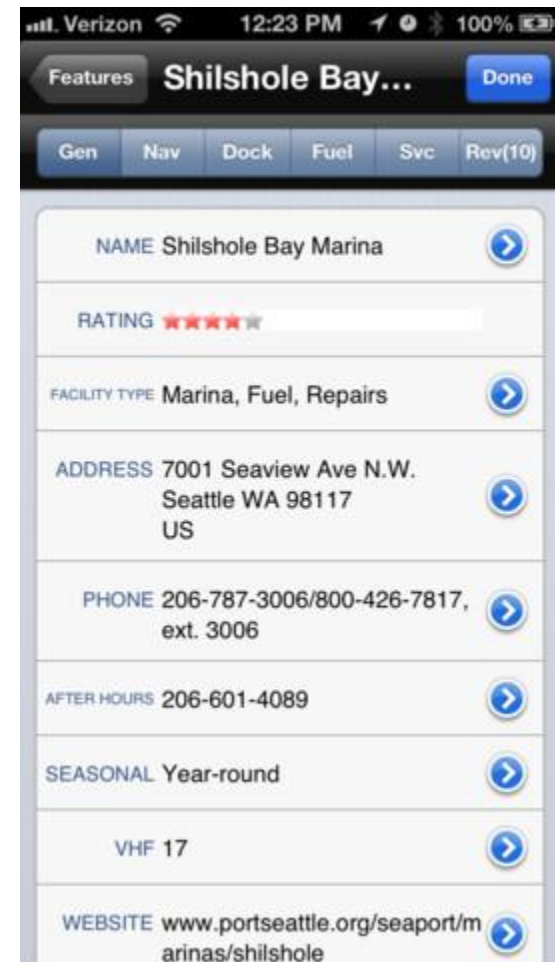
- Based on iPad:
 - For vector charts (scale as you zoom, clearer):
 - #1: Garmin BlueChart Mobile \$30-\$45 depending on charts; NEW; needs iPad 3; no Android
 - #2: Navionics \$35; iPhone/iPad or Android
 - For raster charts (like paper):
 - #1: iNavX \$50; iPhone/iPad; no Android
 - #2: iSailor \$free + \$15 charts; iPhone/iPad; no Android
- Check if your nav app purchase will include Active Captain, for user contributed info
- Get a water resistant cover or gallon zip lock bag

Preparing: Calculating travel times with 'Documents to Go' (2012 cruise)

Leg#	Day	Date	Travel From	Travel To	Travel nMiles	Start Time	Travel Hours	Arrive Time
01	Saturday	7/14	Sore Thumb	Shinnecock, NY	40.0	7:30 AM	8.0	3:40 PM
02	Sunday	7/15	Shinnecock, NY	Montauk, NY	38.0	6:30 AM	7.6	2:10 PM
03	Monday	7/16	Montauk, NY	Southold, NY	21.0	8:00 AM	4.2	12:20 PM
04	Tuesday	7/17	Southold, NY	Shelter Island, NY	3.0	10:00 AM	0.6	10:40 AM
	Wednesday	7/18	Lay Day	Shelter Island, NY				
05	Thursday	7/19	Shelter Island, NY	Block Island, NY	35.0	7:00 AM	7.0	2:10 PM
	Friday	7/20	Lay Day	Block Island, NY				
	Saturday	7/21	Lay Day	Block Island, NY				
06	Sunday	7/22	Block Island, RI	Newport, RI	18.0	8:00 AM	3.6	11:40 AM
	Monday	7/23	Lay Day	Newport, RI				
	Tuesday	7/24	Lay Day	Newport, RI				
07	Wednesday	7/25	Newport, RI	Block Island, NY	18.0	7:00 AM	3.6	10:40 AM
	Thursday	7/26	Lay Day	Block Island, RI				
08	Friday	7/27	Block Island, RI	Shinnecock, NY	45.0	6:00 AM	9.0	3:10 PM
09	Saturday	7/28	Shinnecock, NY	Home	40.0	4:30 AM	8.0	12:40 PM
				Totals	258.0		51.6	
				Cruising speed, knots ->			5.0	

Preparing: Check destination marinas with 'Active Captain' inside 'Navimatics'

- 'Navimatics' has charts, tides, etc
- 'Active Captain' feature includes comments and reviews from other boaters
- User feedback is updated via Internet; updates are stored



Preparing: www.ActiveCaptain.com showing some Jones Beach areas

ActiveCaptain - The Interactive Cruising Guidebook - Mozilla Firefox: IBM Edition

File Edit View History Bookmarks Tools Help

ActiveCaptain - The Interactive Cruising Guidebook

https://activecaptain.com/X.php

Most Visited Getting Started Latest Headlines IBM

ActiveCaptain

Home The Interactive Cruising Guidebook Store Sponsors

Rich T. Long Island (171)

My Account | Logout Contact us

Markers

Markers in View Sorted by Name

- 32. Seaman Yacht Club
★★★★★ (0) Rate it Center / Details
- 33. Seaman's Creek Bridge
Bridge Center / Details
- 34. Shoaling
⚠ (1) Add comment Center / Details
- 35. Sloop Channel Bridge
Bridge Center / Details
- 36. South Oyster Bay Inlet
Inlet Center / Details
- 37. Steve's Marine Service (West)
★★★★★ (1) Rate it Center / Details
- 38. T Smith and Sons Marine
★★★★★ (1) Rate it Center / Details
- 39. Tanner Marine Park Boat Ramp
Boat ramp Center / Details
- 40. Tobay Beach and Boat Basin
★★★★★ (3) Rate it Center / Details
- 41. TowBoatUS Short Beach
Towing Center / Details
- 42. Treasure Island Marina
★★★★★ (2) Rate it Center / Details
- 43. Unqua Corinthian Yacht Club
★★★★★ (1) Rate it Center / Details
- 44. Unqua Corinthian Yacht Club Heading
★★★★★ (2) Rate it Center / Details
- 45. Viking Marina
★★★★★ (0) Rate it Center / Details
- 46. Wantagh Park Marina
★★★★★ (2) Rate it Center / Details
- 47. Wantagh Park Marina Boat Ramp
Boat ramp Center / Details
- 48. Woods Creek Inlet
Inlet Center / Details
- 49. Zach's Bay
★★★★★ (5) Rate it Center / Details

Find Marina
Settings

Location Search
My Card
Route Sharing
Help Card

Map Hybrid Satellite

Great South Bay

Wantagh Park Marina

Ocean Dr

Ocean Pkwy

Gilgo Beach

Thatch Island

Gilgo Island

North Line Island

Middle Line Island

South Line Island

Black Banks Island

Sanford Island

Snipe Island

Deep Creek Meadow

East Island

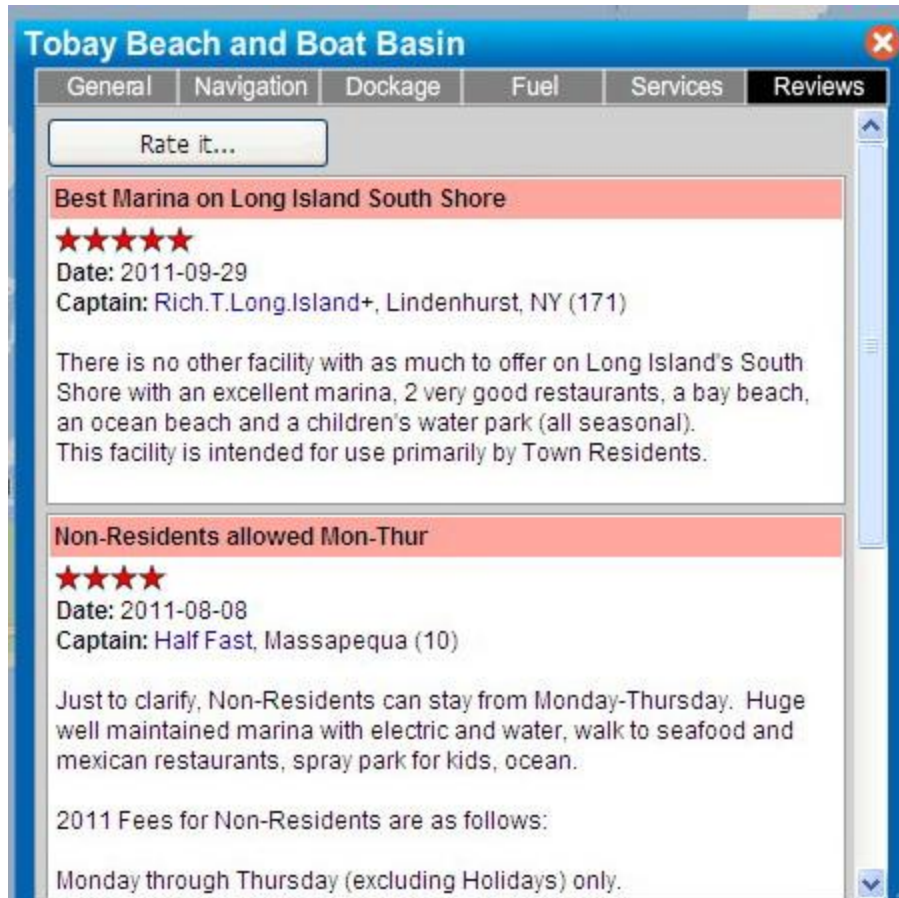
- Cuba Island
- Olivers Island
- Goat Island
- Cedar Creek County Park
- Harbor Green
- Biltmore Chores
- Nassau Shores
- Amity Harbor
- Tanner Park
- County

bing

© 2012 Microsoft Corporation - Bing Maps

Same info available in Navimatics
once downloaded

Preparing: www.ActiveCaptain.com showing reviews of TOBAY marina



TOBAY= Town of
Oyster Bay

Same info available in Navimatics once downloaded

While underway: apps to consider, using the Internet

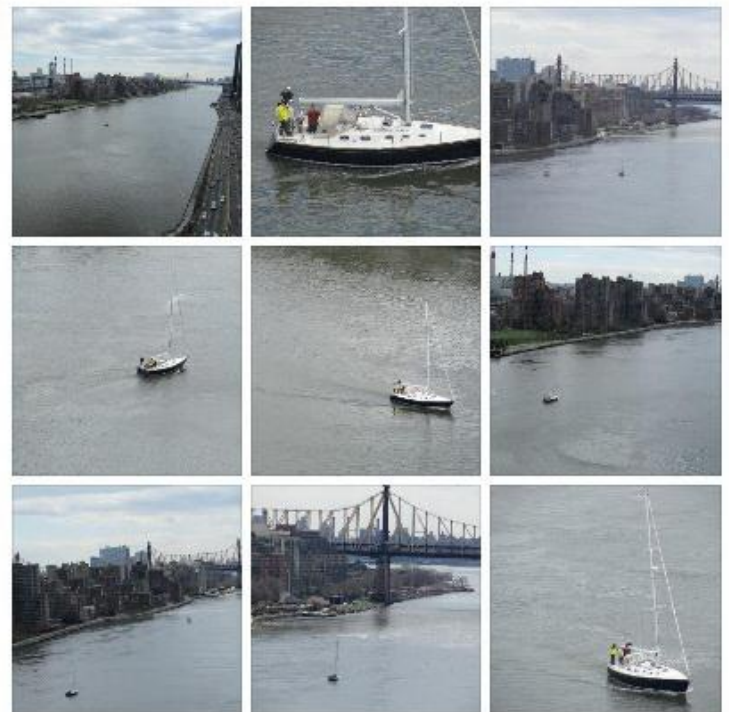
- AIS displays [large ships in our path]
- Weather forecasts / weather RADAR
- WebMD [how to treat symptoms; find doctors]
- SBCC Facebook private group
- Play a movie? NetFlix, etc.
 - Careful: One NetFlix movie could use 2GB of cellular data

While underway: add photos to the private SBCC group in Facebook

- Example: East River pictures recently taken by Kristen from their NYC building's roof deck as Andrew & friends transit the East River
- Comment from 'Barbara L': She crews for Andrew; is not an SBCC member (it's OK)



Andrew Hemingway added photos to April 16, 2013 CT to Fire Island.



Like · Comment · Follow Post · April 16 at 4:51pm

Jarrett Fifield likes this.

Seen by 21



Barbara L Beautiful boat!

April 16 at 10:55pm · Like

While underway: using Facebook

- The SBCC 2 week cruise in 2012 posted about 70 pictures and more than another 70 comments
- Picture taken at Bill & Maureen Danilczyk's Southold house



About the SBCC private group in Facebook

- Content is viewable only to SBCC Members, Associates and accepted friends
- 105 members and growing
- Sample photo albums shown ->



How to join the SBCC private group on Facebook

- Join Facebook
- Search for 'SBCC' (make sure it's us)
- Click on the link to request joining the group
- Rich Troy or Sue Montana approve or reject requests
- Some members ->



Rich Troy
Northeastern University
Joined over a year ago



Jeff Biesel
Dowling College
Joined over a year ago



Richard Tesoro
New York Institute of Technology
Joined over a year ago



Jerry Gravina
Joined over a year ago



Roger Daisley
USNA Annapolis
Joined over a year ago



Justin Schaefer
Suffolk County Community College
Joined over a year ago



Edward Hopkins
Florida Institute of Technology (Jensen Beach Campus)
Joined over a year ago



Bud Rosenberg
University of Alabama @ Tuscaloosa
Joined over a year ago



Richard Mourino
Adelphi University
Joined over a year ago



Adrian Krug
Forest Hills High School
Added by Sue Montana about 3 months ago



William Danilczyk
Joined over a year ago



John R Holst
Financial Advisor at Merrill Lynch
Joined over a year ago



Don Metz
Owner at Creative Logic Marketing Services
Joined over a year ago



Edward Pshedesky
Joined over a year ago



Gaspare Messina
Added by Sue Montana over a year ago



Jennifer Hart DeMarco
Mom at Amityville, New York
Joined over a year ago



Bob Forman
Joined over a year ago



Phillip King
Joined over a year ago



Laurie Gallagher Messina
Works at Process Improvement Consultant
Joined over a year ago



Rick Latorre
Joined over a year ago



Dennis Marzocco
St. John's University
Joined over a year ago

Facebook considerations

- Not necessary to enter all your personal info
 - Maybe enter birth month & year, incorrect date
- Don't post about you being away from home
 - to avoid robberies; OK if the home is occupied
- Check your Privacy Settings

Privacy Settings and Tools

Who can see my stuff?	Who can see your future posts?	Friends	Edit
	Review all your posts and things you're tagged in		Use Activity Log
	Limit the audience for posts you've shared with friends of friends or Public?		Limit Past Posts
Who can look me up?	Who can look you up using the email address or phone number you provided?	Friends of Friends	Edit
	Do you want other search engines to link to your timeline?	Off	Edit

While underway: apps to consider, self-contained

- Phone for pictures & videos
- 'iPhoto' and 'iMovie' editing apps for pictures & videos
- 'Navigation Rules': includes configuration of ship's running lights
- 'Signal Flag Info'
- 'Pocket Pharmacy': drug info & interactions
- Play a game?
- Read a book or the NY Times? Kindle app, iBooks
- Watch a downloaded movie? iTunes, etc

After arrival: apps to consider, using the Internet

- 'Urbanspoon' or 'Zagat' for restaurant suggestions
- 'TeamViewer' attach to home computer for remote control, download files
- Skype or FaceTime: video phone call
- Potentially free WiFi phone calls using Vonage, Skype, etc. (most useful when out of the country)
- 'Find my iPad' or 'Find my iPhone' could help you find your way back to your boat in a crowded anchorage

After arrival: apps to consider, self contained

- Phone for pictures & videos
- 'iPhoto' and 'iMovie' editing apps for pictures & videos
- 'US Sailing Racing Rules' if joining a race
- 'Navigon' street GPS with talking turn-by-turn directions
- 'Star Walk' or 'GoSkyWatch' for star gazing
- DragQueen, anchor watch

After arrival: star gazing with 'Star Walk'

- Hold up to the sky and it shows you the planets and constellations
- Awesome on iPad (StarWalk HD)



After arrival

Drag Queen: Anchor drift alarm

- Set alarm to warn you if your GPS position varies too much



Anchor Latitude

deg min

Set

Anchor Longitude

deg min

Distance Alarm

ft

Alarm Delay

secs

GPS Alarm

accuracy in ft

Instructions

Anchor Distance (ft)

6

GPS Accuracy (ft)

33

Alarms

ON

Use external power

Anchor Bearing (°T)

243°

'Find my iPhone' or 'Find my iPad'

- Displays registered device location on a map
- Could be used in a crowded anchorage to find your boat



- Has option to lock the device with a message enabling finder to only phone you

Questions?

Items on display

- Mophie www.mophie.com juice pack plus
 - more than doubles iPhone battery power, \$99
- Mophie juice pack power station PRO
 - Adds about 50% more power to an iPad 3, \$99
- Verizon 4G LTE Mobile Hotspot, model 890L
 - Cellular data plan: 5GB for \$50/month
- Water resistant plastic fanny pack
- 10' USB to iPhone cord, straight
- 3' USB to iPhone cord, collapsible
- 14' USB extension cable
- iPhone 4S, iPad 3

Bob is doing

- WebMD, Pocket Pharmacist
- Sailing videos
- High Def RADAR
- Ship Finder, AIS
- Weather, Wind Finder, NOAA/NWS
- Atlantic briefing package
- Navimatics as a chartplotter
- (Find out where to buy Gin-Gins for sea sickness)