

Smart Phones and Tablets for Sailors

April 21, 2013

Gold for both racers and Cruisers

- For the Cruisers

- Friendly winds and currents

- Reaching in 10 – 15 kts of wind
 - Running in 10 – 20 kts of wind
 - Favorable tides and currents
 - Minimize beating: Olin Stevens – “gentleman do not go to weather”
 - Track contacts

- For the racers

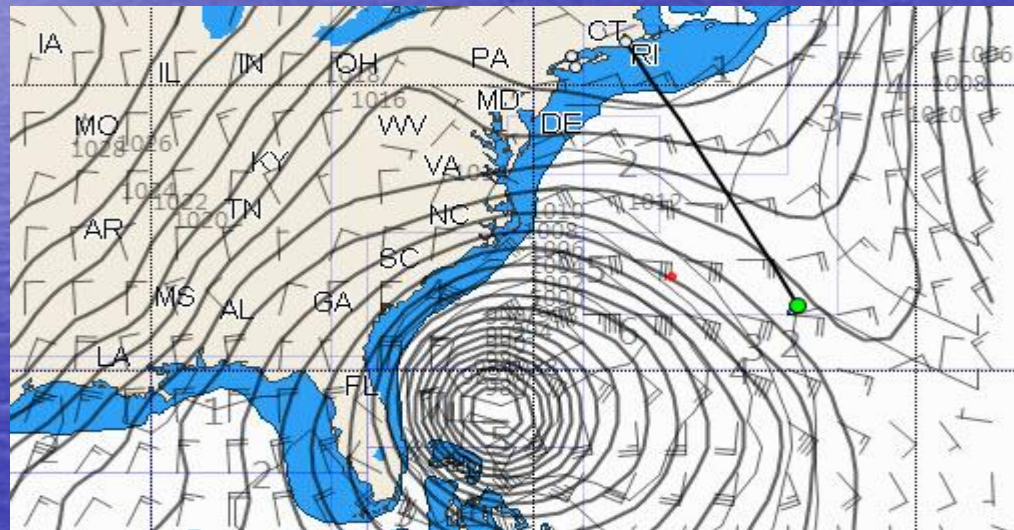
- Hot wind angles and better winds
 - Maximize favorable currents
 - Sail shortest distance
 - Track Contacts and Competition

New Vocabulary

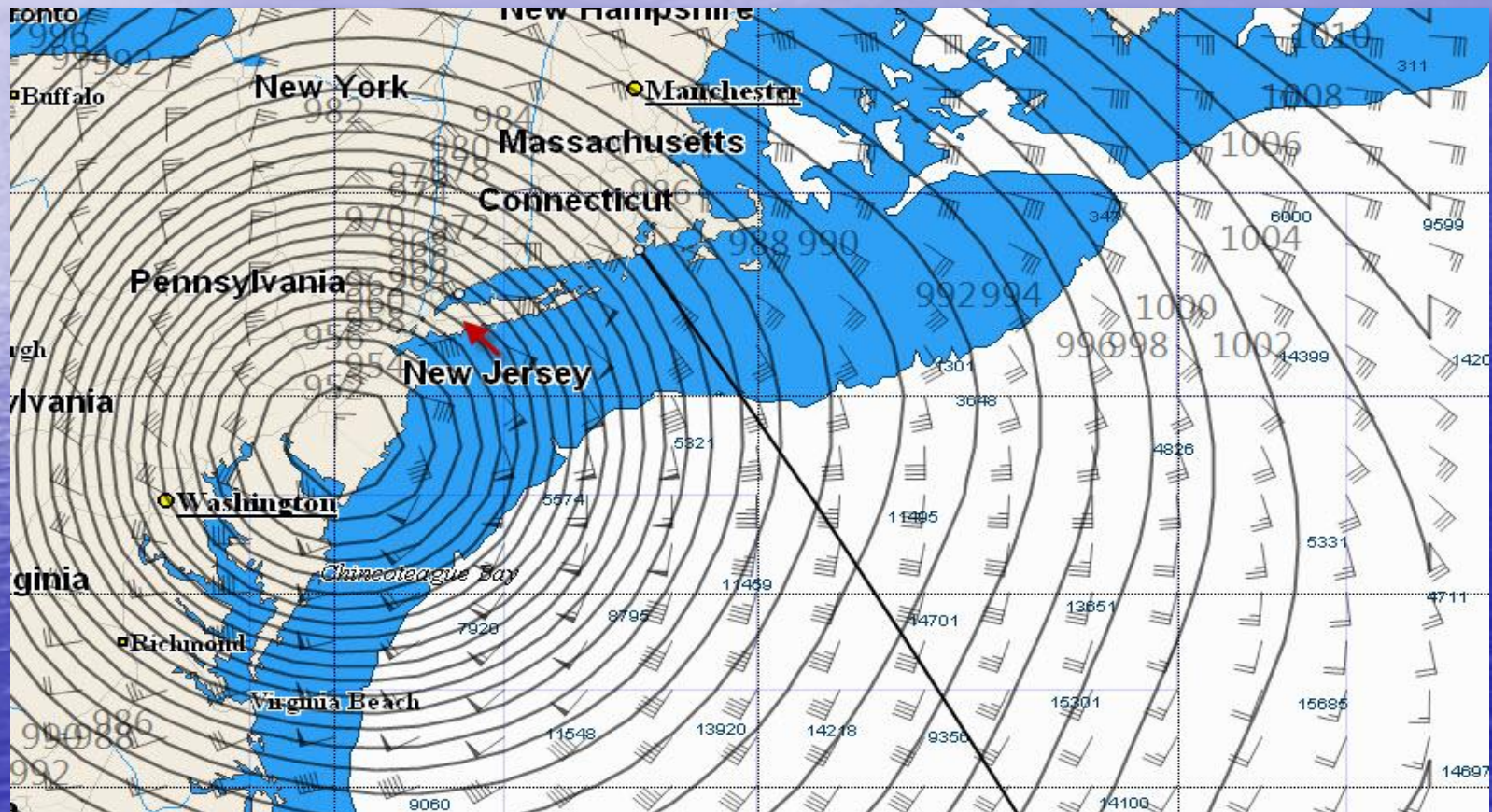
- Wind Models: GFS, NOGAPS, COAMPS, NAM, HRWe
- Wave Models: NWW3, WW3
- Synoptic Weather Charts
- GRIB Files: GRIdded Binary

Special Addition

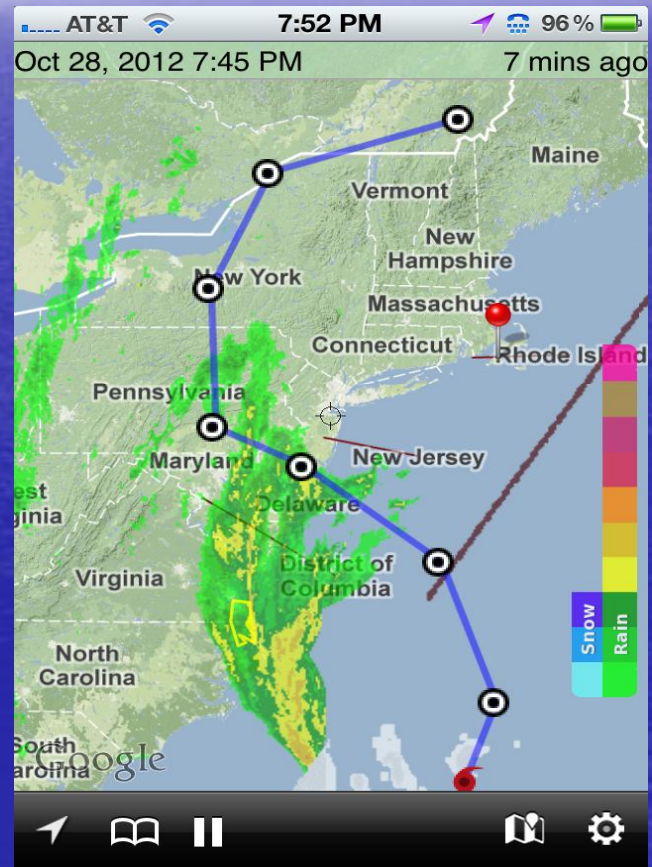
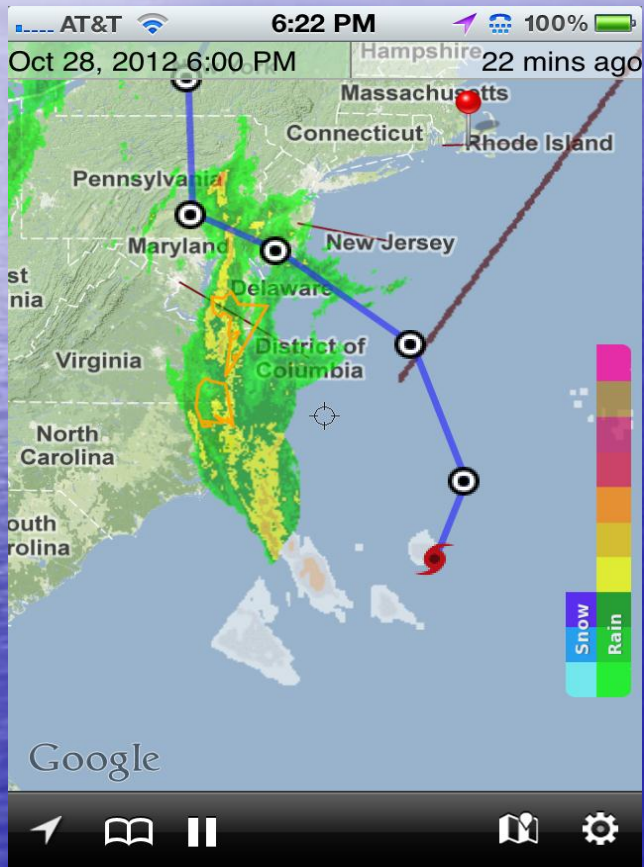
October 27, 2012 0100



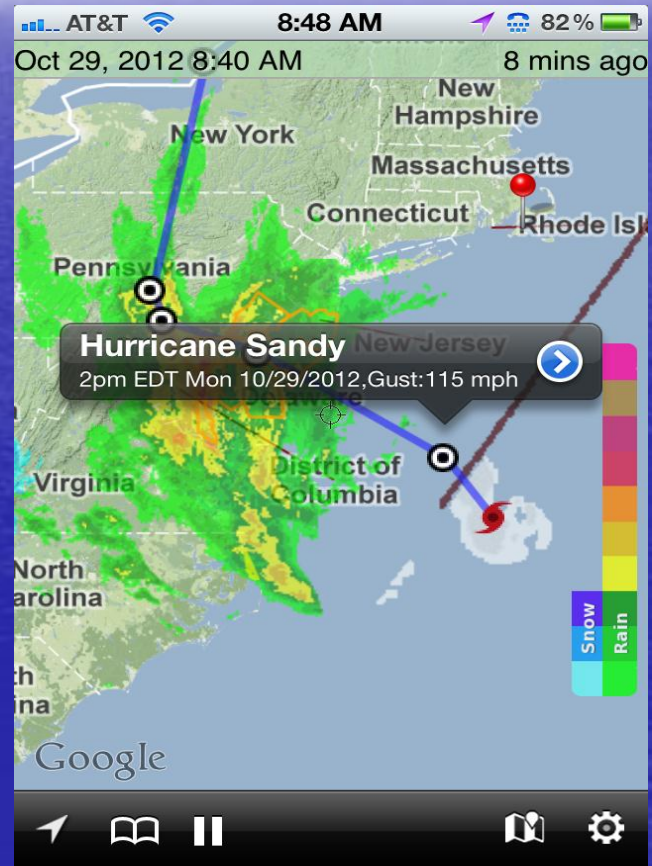
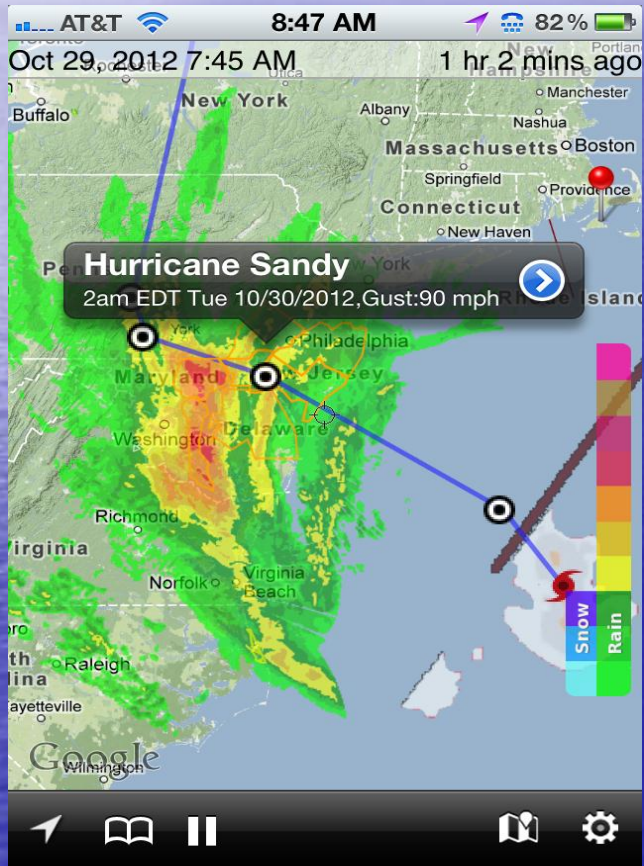
Ugly Sandy



Hi Def Radar



Hi Def Radar

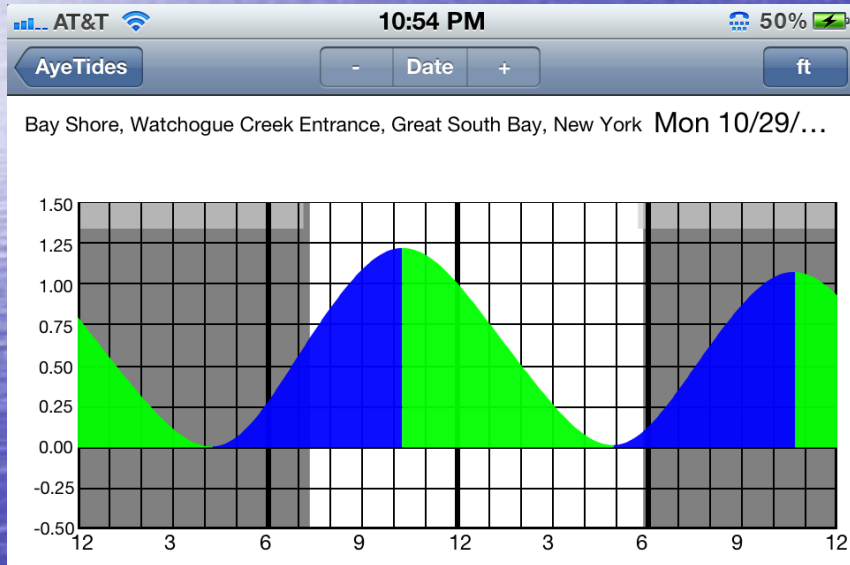




Sandy - wind and surge



Sandy – We had two high tides





Wind Finder Pro App

- Originally developed for Windsurfers, Kite Boarders and Surfers
- Provides information for 30,000 locations around the world
- Based on GFS wind model plus actual input from 10,000 locations around the world
- Provides wind, pressure, temperature, tides, precipitation, wind Grib display
- Six days of information
- Resolution: Forecast – 27 km (16.7 miles), Superforecast – 12 km (7.5 miles)

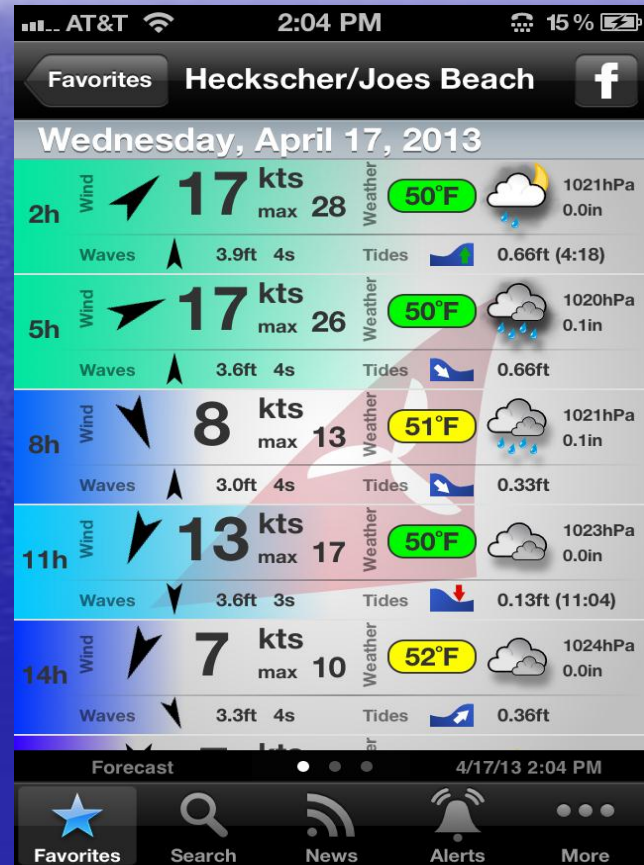


A tranquil night off Positano



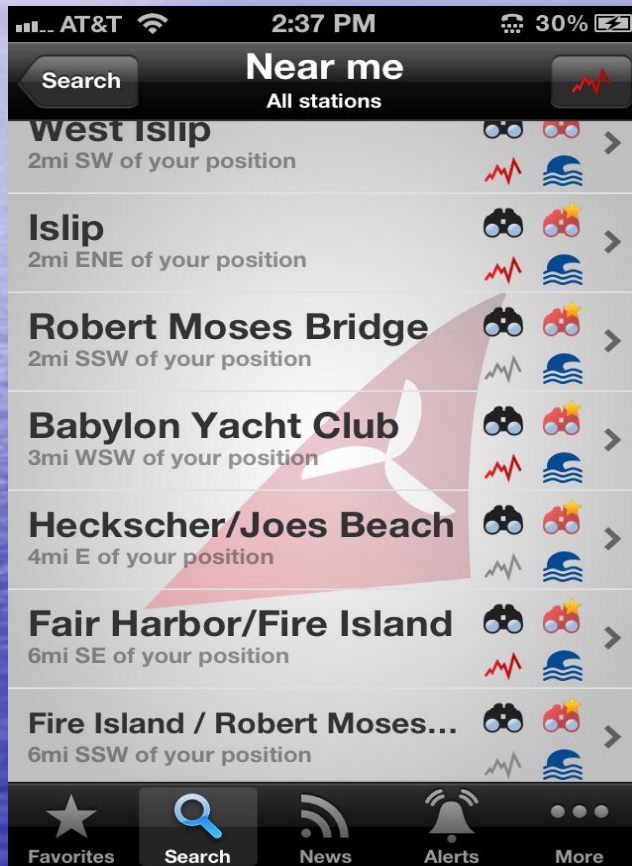


Favorites/Forecast



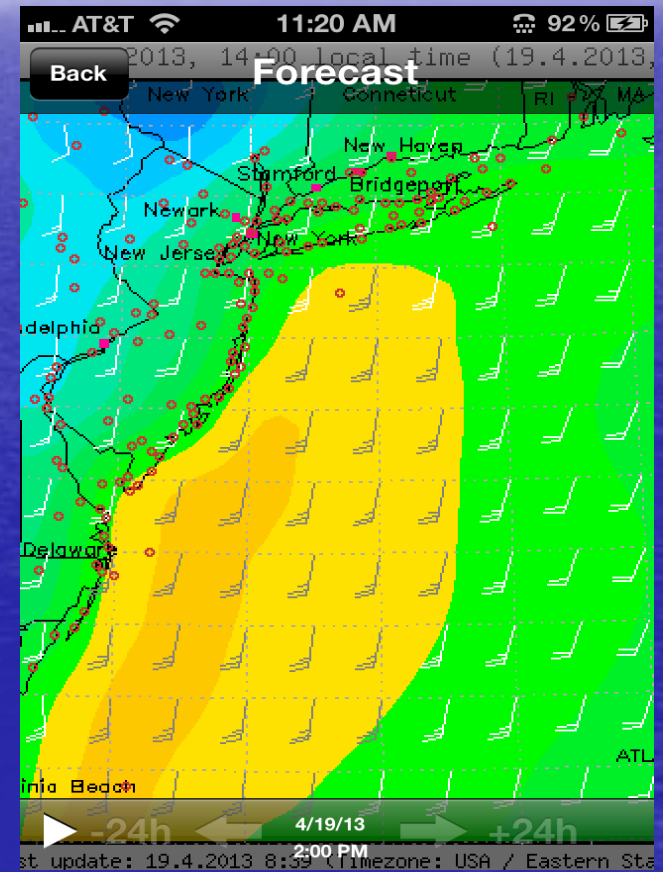
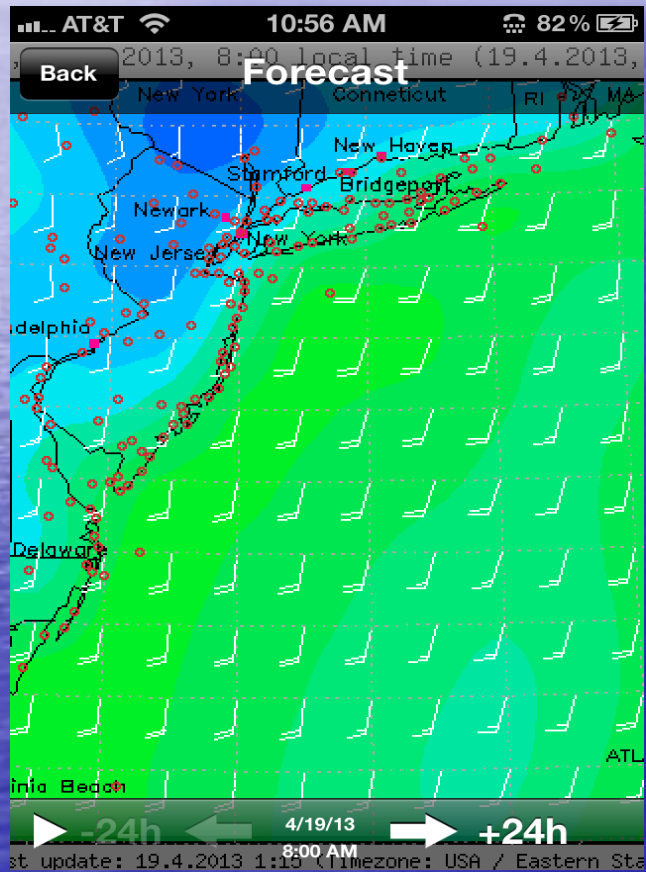


Search – “Near Me”





Wind Finder Pro



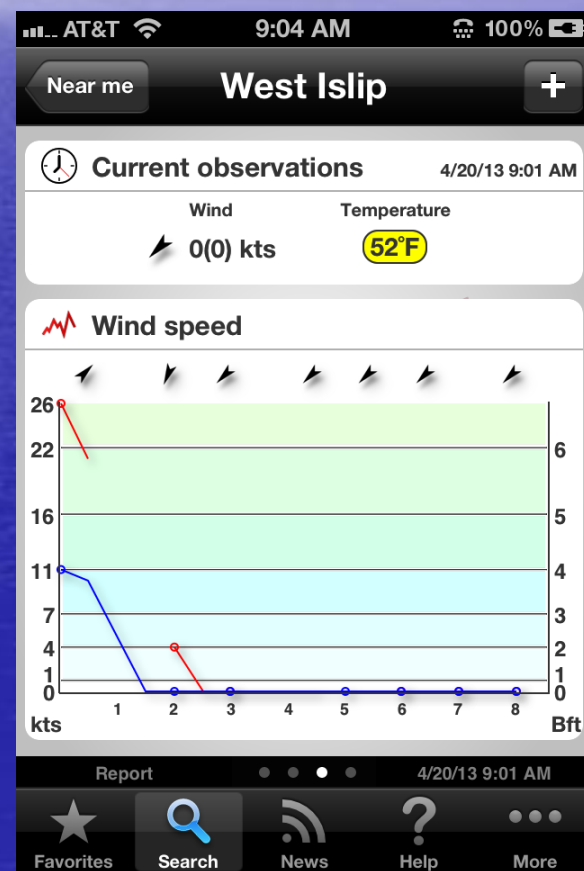
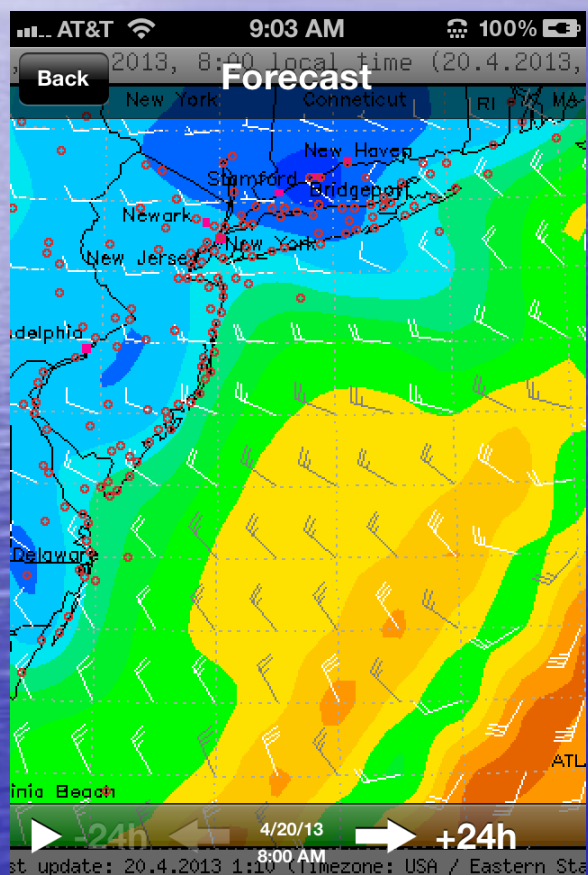


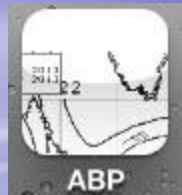
Wind Finder Pro



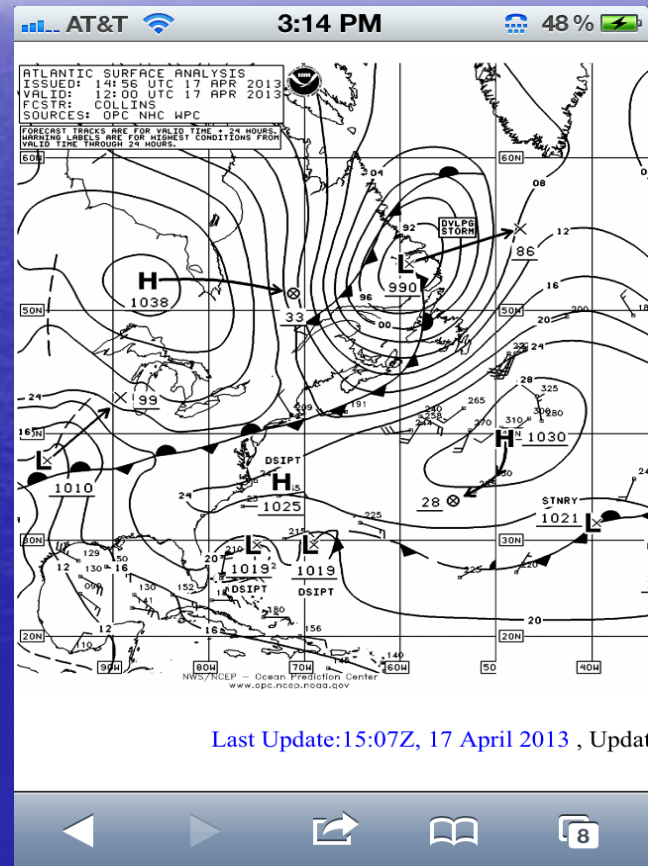
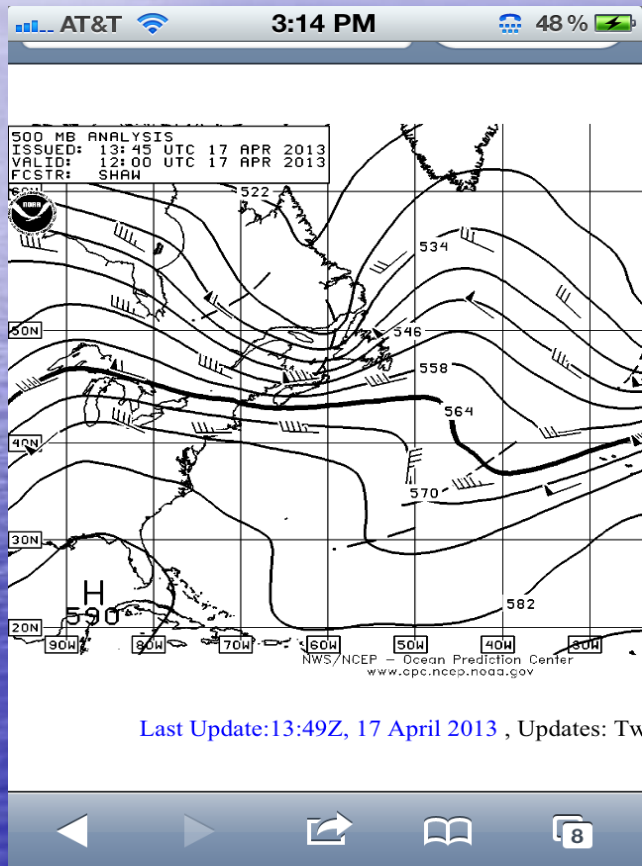


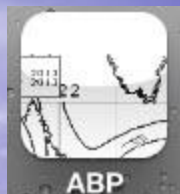
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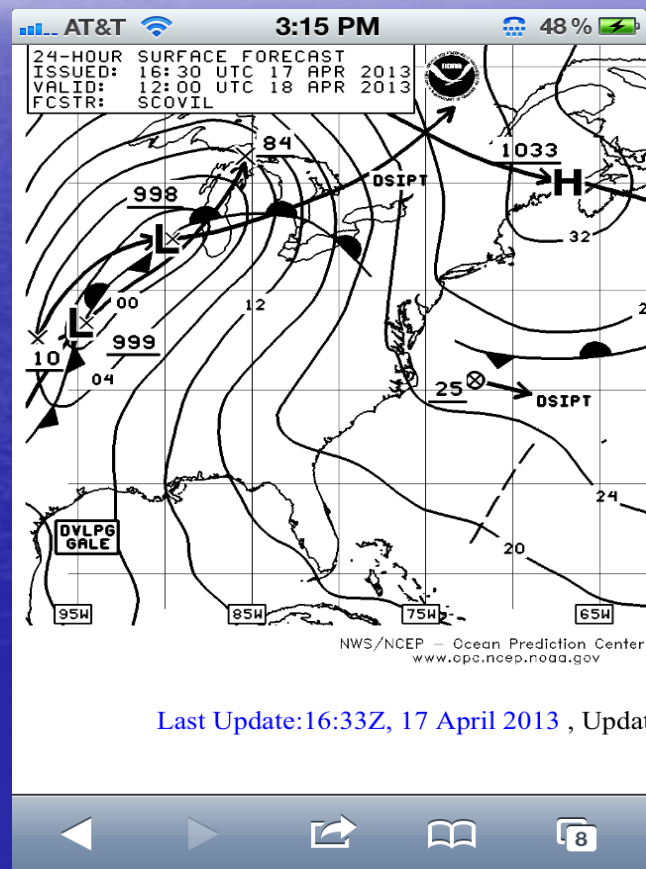
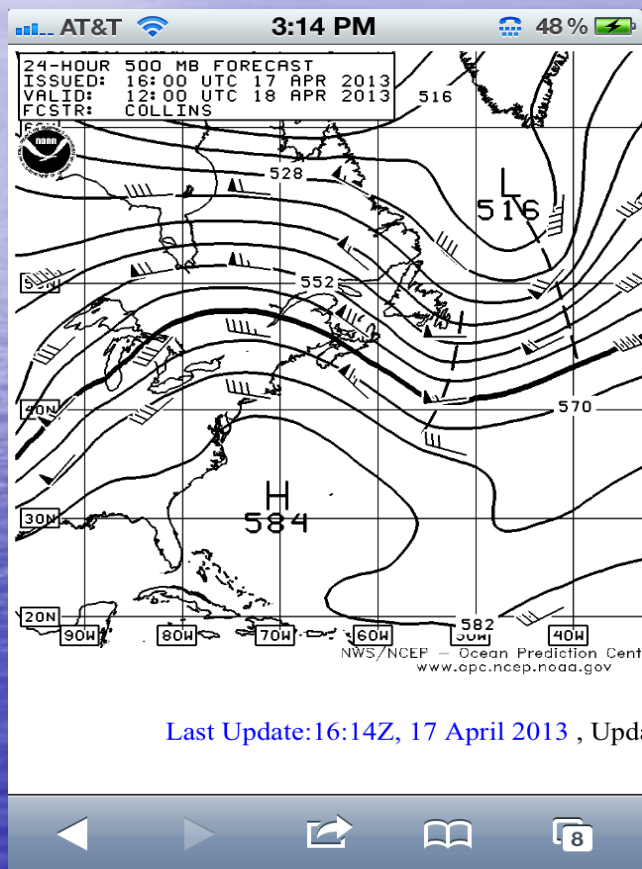


Atlantic Briefing Package



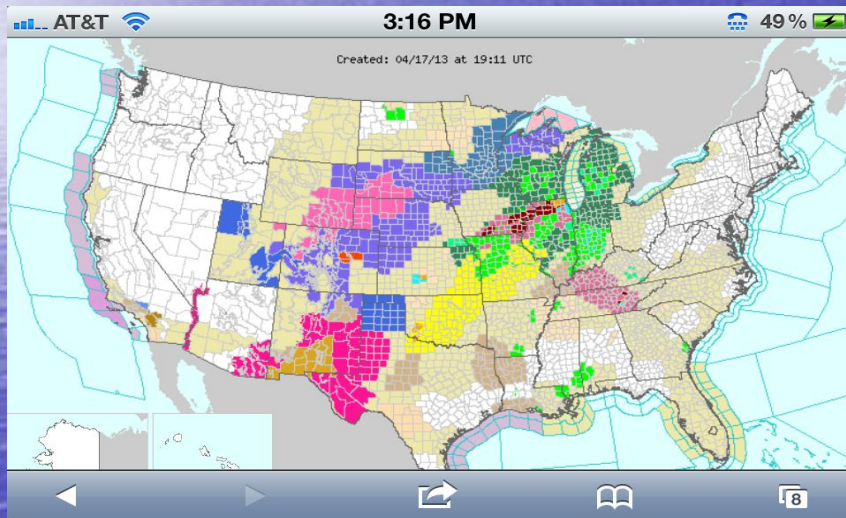


Atlantic Briefing Package





NOAA.NWS





NOAA,NWS Weather Summary

- Check weather summary against GFS

AT&T 3:20 PM 50%

forecast.weather.gov/Ma Yahoo!

Your National Weather Service forecast

Fire Island Inlet NY to Moriches Inlet NY out 20 nm (ANZ353)

Enter Your "City, ST" or zip code Go BOOKMARK E L G

NWS New York, NY
Zone Forecast: Fire Island Inlet NY to Moriches Inlet NY out 20 nm (ANZ353) **Last Update:** 149 PM EDT WED APR 17 2013

Marine Zone Forecast

Synopsis... A COLD FRONT REMAINS STATIONARY SOUTH OF THE AREA THROUGH THU AFTERNOON AS HIGH PRES PASSES TO THE NE. THE FRONT WILL LIFT N TOWARD THE WATERS AS A WARM FRONT THU NIGHT...AND LIFT THROUGH BY EARLY FRI MORNING. A COLD FRONT WILL APPROACH LATER FRI...THEN PASS THROUGH FRI NIGHT INTO EARLY SAT. HIGH PRES WILL BUILD IN LATER SAT INTO SUNDAY.

Today: N winds 5 to 10 kt...becoming SE late. Seas around 3 ft.

Tonight: SE winds around 5 kt. Seas around 3 ft.

Thu: E winds 5 to 10 kt...increasing to 10 to 15 kt in the late morning. Seas around 3 ft.

Thu Night: S winds 10 to 15 kt with gusts up to 20 kt. Seas building to 4 to 6 ft. Areas of fog and drizzle. Vsbty 1 to 3 nm.

Fri: S winds 15 to 20 kt with gusts up to 30 kt. Seas 6 to 7 ft... Building to 7 to 9 ft late. Areas of fog and drizzle in the morning. Patchy fog in the afternoon. Chance of showers in the afternoon. Vsbty 1 to 3 nm.

Fri Night: SW winds 20 to 25 kt with gusts up to 35 kt. Seas 8 to 11 ft. Showers and tsrms

Select Another Point [Move Down]
 Click Map for Forecast Disclaimer
 Atlantic City Map Satellite
 Google Map data ©2013 Google Terms of Use
 Requested Location Forecast Area
 Lat/Lon: 40.48 -72.81 Elevation:0 ft
 XML

Current Conditions [Move Up]
 LONG ISLAND 33 NM South of Islip
 Lat: 40.25 Lon: -73.17 Elev: 0
 Last Update on Apr 17, 1:50 pm EDT

Nearby Observations

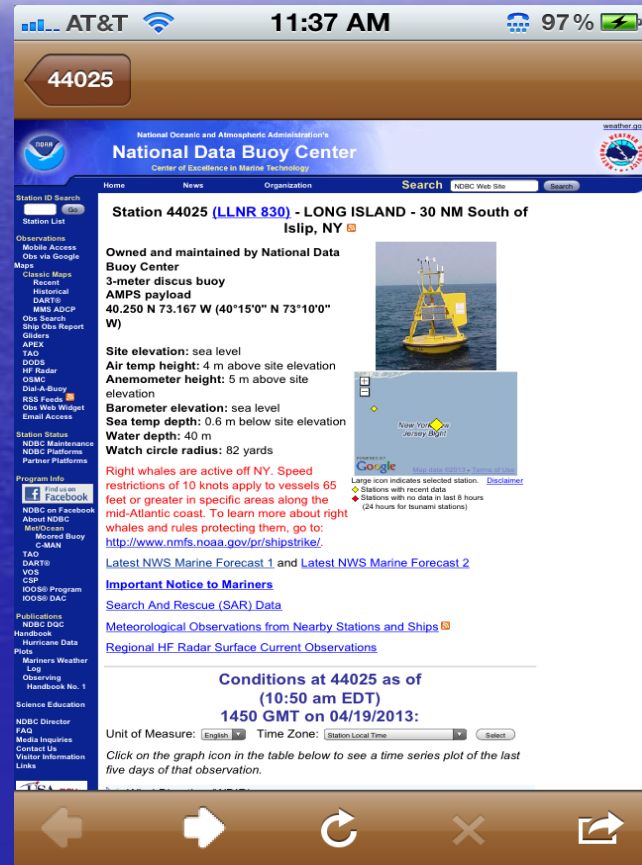
Wind:	NA
Pressure:	1022.9 mb
Air Temperature:	52 °F (11 °C)
Water Temperature:	47 °F (9 °C)
Dewpoint:	44 °F (7 °C)
Wave Hgt/Dir:	3 ft/SE
Dominant Wave Period:	5 sec
Visibility:	NA

Past Observations



Buoy Data

- Validate the Wind Finder Pro data against second source
- NOAA's forecast from the Buoy Data App is a source of this info





Buoy Data

AT&T 11:38 AM 97%

44025

National Oceanic and Atmospheric Administration's
National Data Buoy Center
Center of Excellence in Marine Technology

Home News Organization Search NDBC Web Site Search

Station ID Search Station List Observations Mobile Access Obs via Google Maps Classic Maps Recent Historical DARTS MMS ADCP Obs Search Ship Obs Report Gliders APEX TAO DODS HF Radar OSAC Dist-A-Buoy RSS Feeds Obs Web Widget Email Access

NWS Forecast

FZUS51 KOKX 191433
CWFOXX

COASTAL WATERS FORECAST
NATIONAL WEATHER SERVICE NEW YORK NY
1033 AM EDT FRI APR 19 2013

MONTAUK POINT NEW YORK TO SANDY HOOK NEW JERSEY OUT 20 NM OFFSHORE
INCLUDING LONG ISLAND SOUND...LONG ISLAND BAYS AND NEW YORK HARBOR

ANZ300-200230-
1033 AM EDT FRI APR 19 2013

SYNOPSIS FOR LONG ISLAND WATERS AND NEW YORK HARBOR

A COLD FRONT WILL APPROACH LATE IN THE DAY TODAY...THEN PASS THROUGH TONIGHT. HIGH PRESSURE BUILDS IN TO THE REGION LATER SATURDAY INTO SUNDAY. LOW PRESSURE DEVELOPS ALONG THE MID ATLANTIC LATE MONDAY INTO TUESDAY.

ANZ350-200230-
MORICHES INLET NY TO MONTAUK POINT NY OUT 20 NM-
1033 AM EDT FRI APR 19 2013

DENSE FOG ADVISORY IN EFFECT UNTIL NOON EDT TODAY

SMALL CRAFT ADVISORY IN EFFECT UNTIL 6 PM EDT THIS EVENING

...GALE WARNING IN EFFECT FROM 6 PM EDT THIS EVENING THROUGH LATE TONIGHT...

TODAY
S WINDS 15 TO 20 KT...INCREASING TO 20 TO 25 KT LATE. SEAS 3 TO 5 FT...BUILDING TO 5 TO 8 FT THIS AFTERNOON. A CHANCE OF SPRINKLES. AREAS OF FOG LATE THIS MORNING. PATCHY FOG THIS AFTERNOON. VSBY 1 TO 3 NM.

TONIGHT
S WINDS 20 TO 25 KT...BECOMING W 15 TO 20 KT AFTER MIDNIGHT. GUSTS UP TO 35 KT. SEAS 8 TO 11 FT. A CHANCE OF SHOWERS IN THE EVENING...THEN SHOWERS AND TSTMS AFTER MIDNIGHT. VSBY 1 TO 3 NM.

SAT
W WINDS 10 TO 15 KT WITH GUSTS UP TO 25 KT. SEAS 5 TO 8 FT. A CHANCE OF SHOWERS IN THE MORNING.

SAT NIGHT
NW WINDS 10 TO 15 KT...BECOMING N 15 TO 20 KT AFTER MIDNIGHT. SEAS 4 TO 7 FT...SUBSIDING TO 3 TO 5 FT AFTER MIDNIGHT.

SUN
N WINDS 10 TO 15 KT WITH GUSTS UP TO 20 KT...BECOMING NE 5 TO 10 KT IN THE AFTERNOON. SEAS 3 TO 4 FT.

SUN NIGHT
E WINDS 5 TO 10 KT...INCREASING TO 10 TO 15 KT WITH GUSTS UP TO 20 KT AFTER MIDNIGHT. SEAS 3 TO 4 FT.

MON
E WINDS 15 TO 20 KT. SEAS 6 TO 9 FT. A CHANCE OF SHOWERS THROUGH THE NIGHT.

TUE
NE WINDS 15 TO 20 KT...BECOMING E 10 TO 15 KT. SEAS 6 TO 9 FT...SUBSIDING TO 4 TO 6 FT. A CHANCE OF SHOWERS THROUGH THE DAY. WINDS AND SEAS HIGHER IN AND NEAR TSTMS.

USA.gov

AT&T 11:38 AM 97%

44025

ANZ353-200230-
FIRE ISLAND INLET NY TO MORICHES INLET NY OUT 20 NM-
1033 AM EDT FRI APR 19 2013

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Ship Finder

- Lower power usage and more information than radar
- Identifies ships based on MMSI number
- Provided details and picture of ship when available
- Provides ability to track other ships and determine CPA, course and bearing of contact, course and speed of contact

The screenshot displays the Ship Finder application interface. On the left, a map shows a ship's track. On the right, a detailed information panel for a specific ship is shown.

Ship **Share** Last update: 2013-04-17 21:13:51

Name: PILOT#1
MMSI: 367008090
IMO: 7437068
Type: Reserved
Status: Under way using engine
Speed: 0.5kts / 52.4°
Dest.: SHAOLIN
ETA: ***00 24:60
Location: 40.4468, -73.8162
Size: 55m x 10m
Draft: 5m
Callsign: WZH4694
Flag: United States of America

11 visible



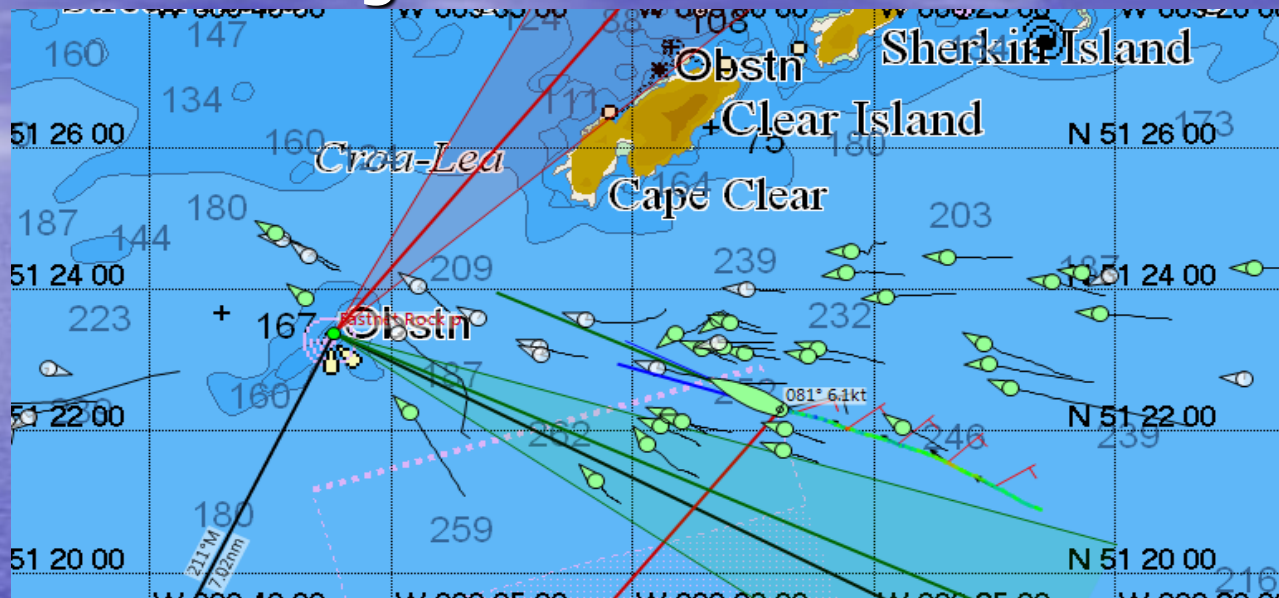
Tracking JIV Coming Home



AT&T		6:31 AM	65%
Close		SLOTERGRACHT	
		Origin: Netherlands	
Ship Data			
Name:	SLOTERGRACHT		
MMSI:	246456000		
IMO:	9197947		
Callsign:	PDBP		
Destination:	SOUTHAMPTON		
ETA:	Sep04 17:00		
Last Update:	05/09/2011 10:22:06UTC		
Speed:	0 kts		
Course:	334.7 degrees		
Length:	551 ft		
Width:	78 ft		
Draft:	22 ft		



JIV Rounding Fastnet Rock in a Drifter



- In 2011 Fastnet Race all yachts had to have AIS
- By putting the curser on another yacht, course and speed of that Yacht was exhibited which gave indication of wind at that location.
- Strategy was to sail to the areas with the best wind

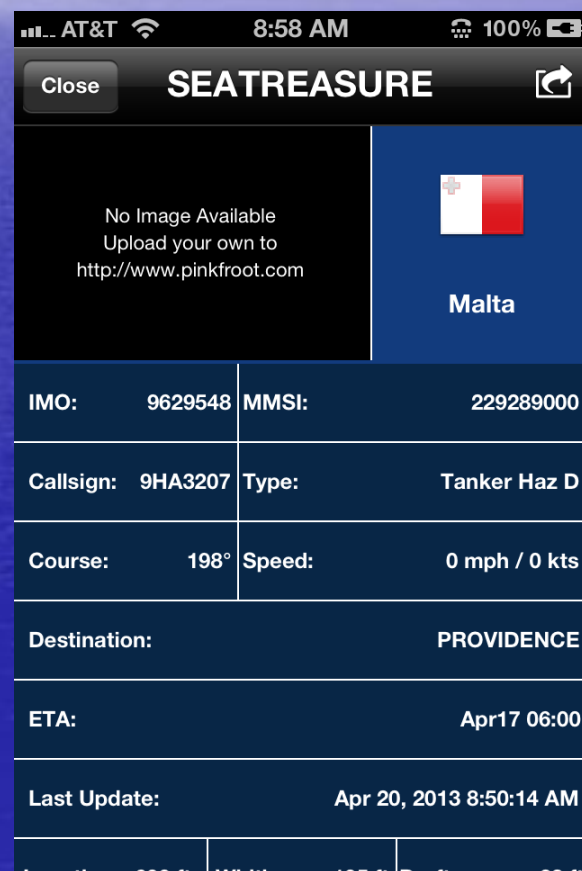


Ship Finder



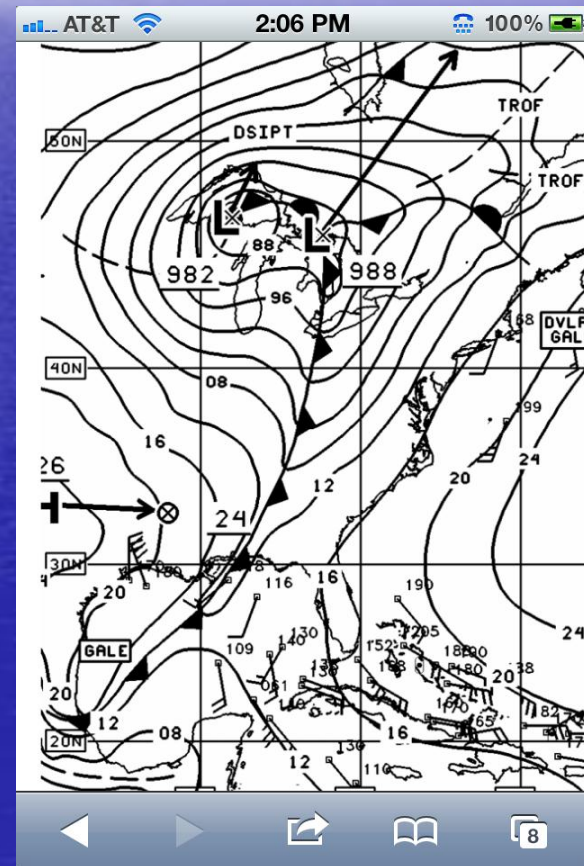
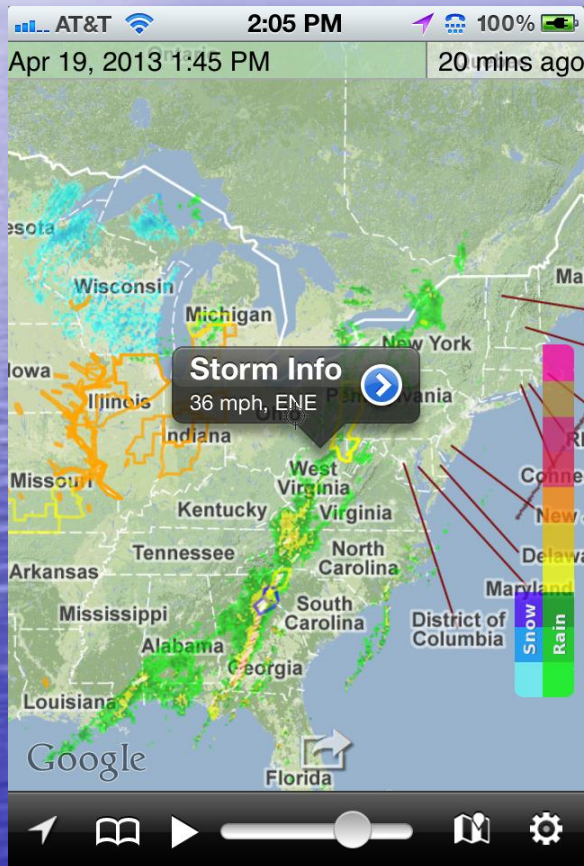


Ship Finder



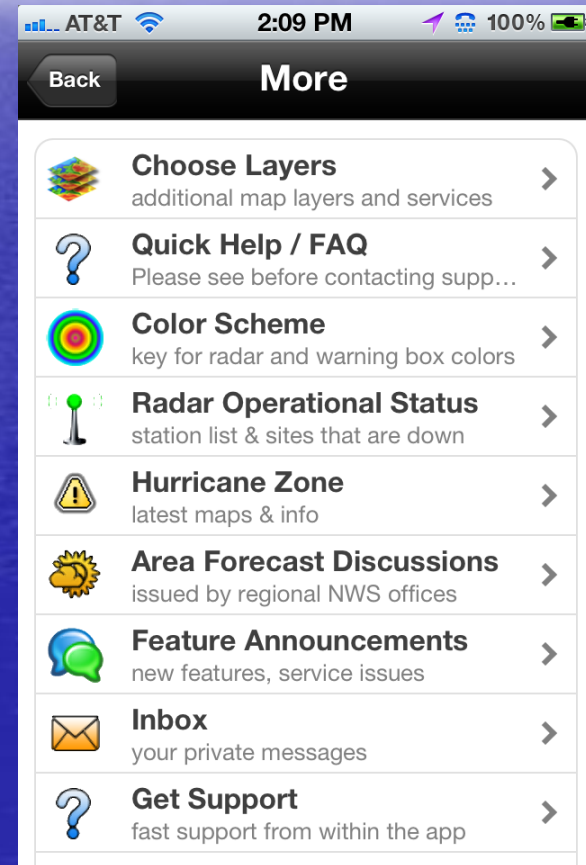
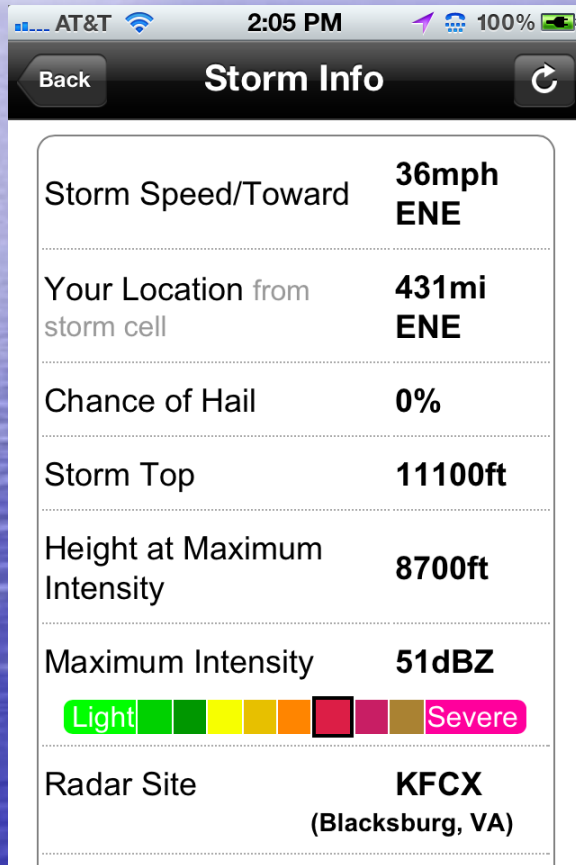


Hi-Def Radar





Hi-Def Radar



GBR
922R

Yachting World

Sail Fast, Sail Safe

ADVANCED SAILING TECHNIQUES

PANTAENIUS
Yacht Insurance



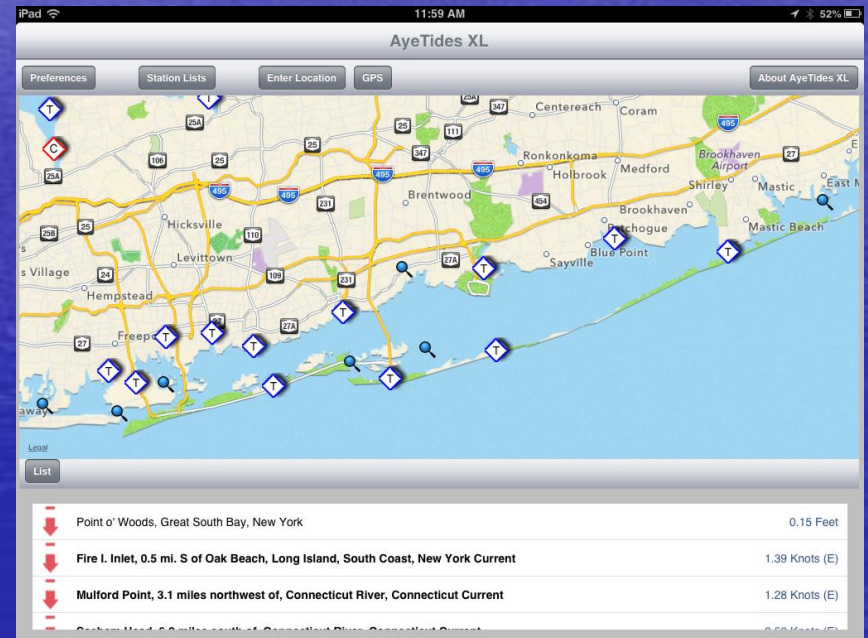
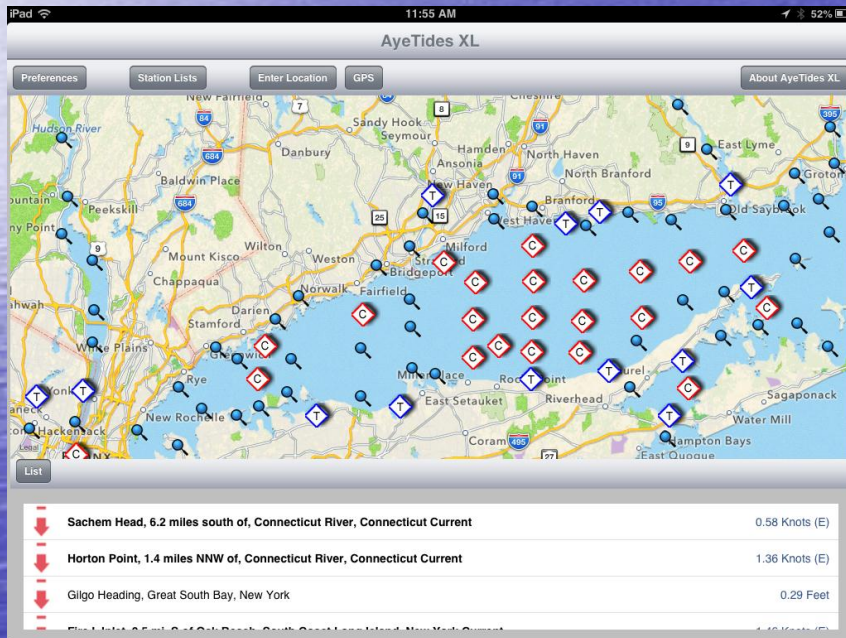


Sail Faster, Sail Safer

- Twelve Videos by Pro sailor Pip Hare
 - Helming Skills
 - Sailing in Light Air
 - Upwind Trim
 - Reaching
 - Downwind Cruising
 - Hoisting Spinnaker
 - Spinnaker Trim
 - Gybing
 - Dropping Spinnaker
 - Avoiding a Chinese Gybe
 - Broaching
 - Spinnaker Problems

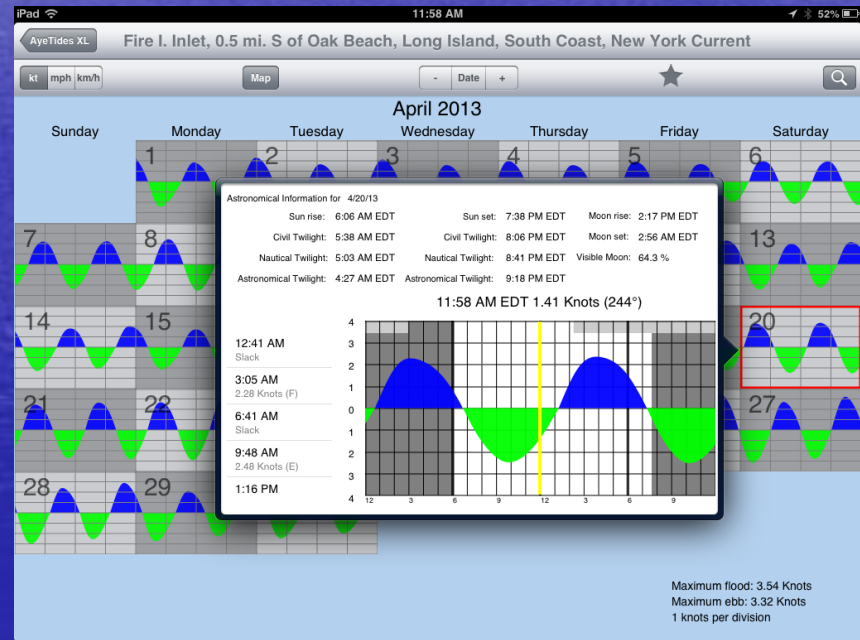
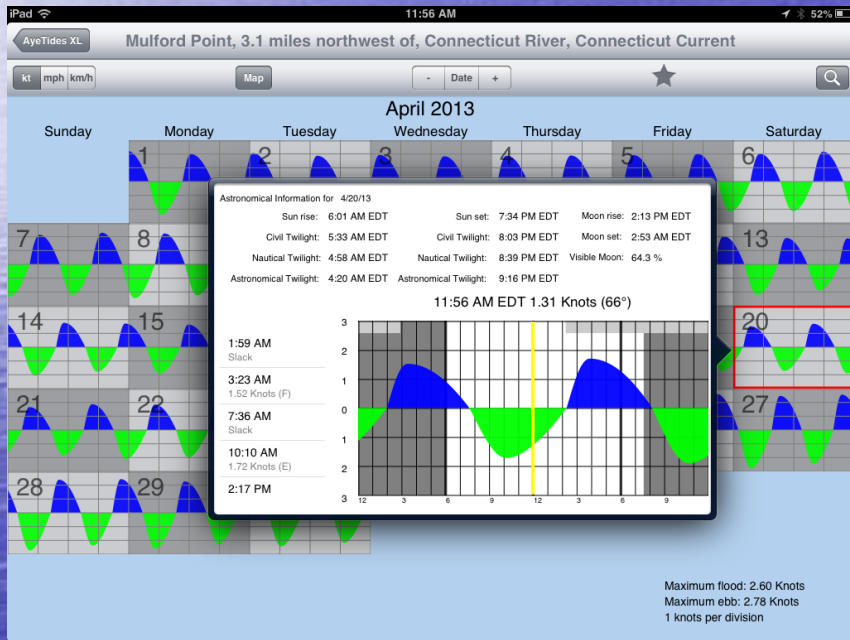


Aye Tides XL



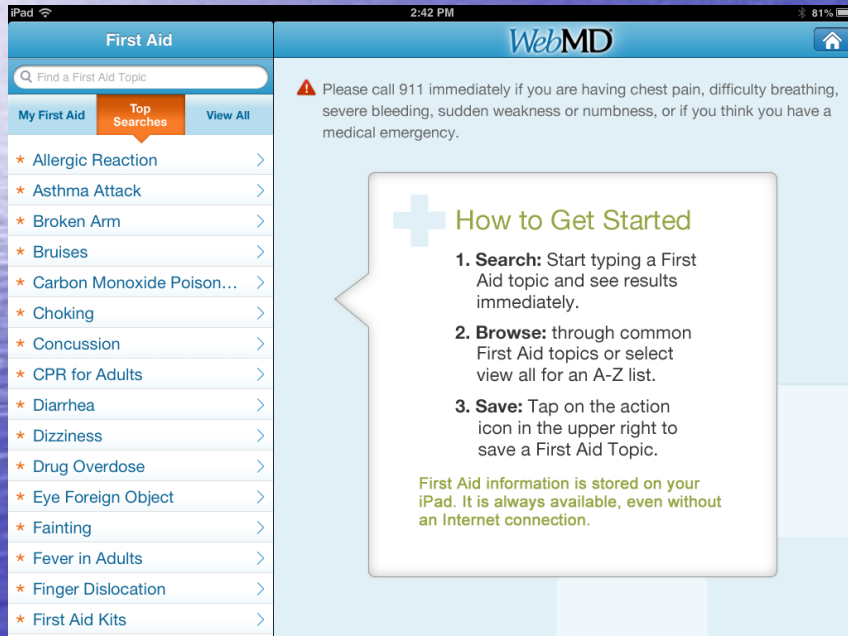


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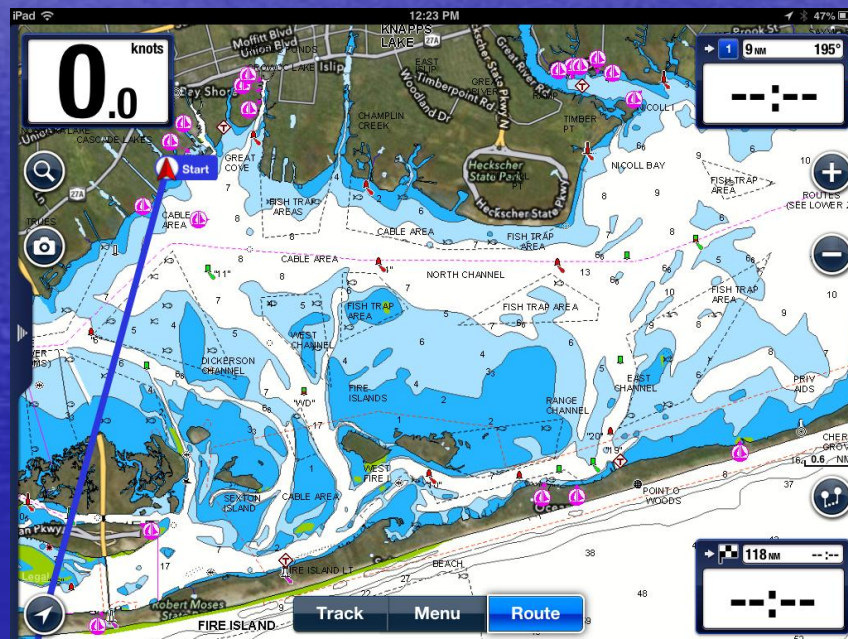


WebMD





Navionics



Smart Phones and Tablets for Sailors

April 21, 2013