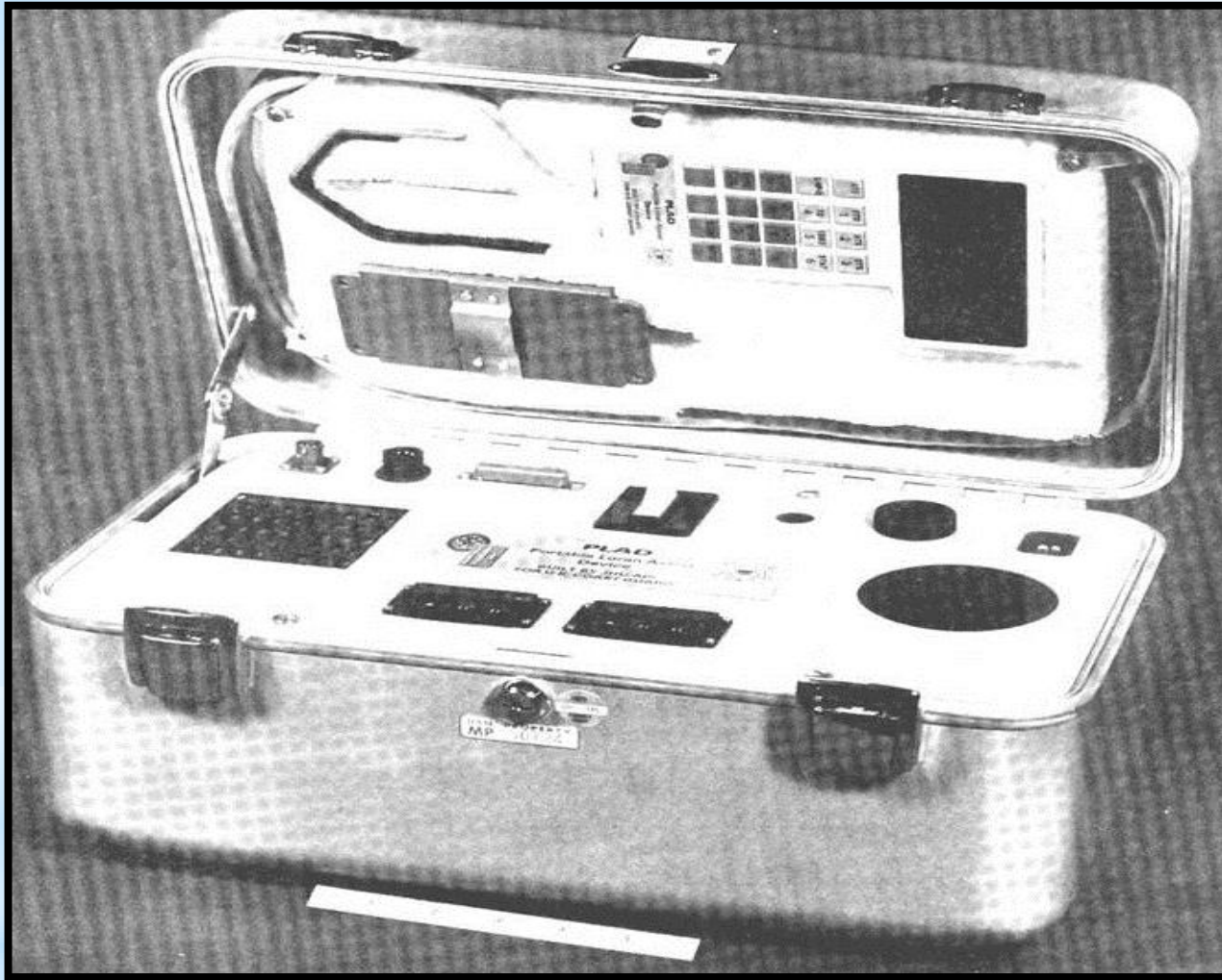


Impacts of e-Navigation on the Marine Transportation System

Transportation Research Board

June 25, 2014



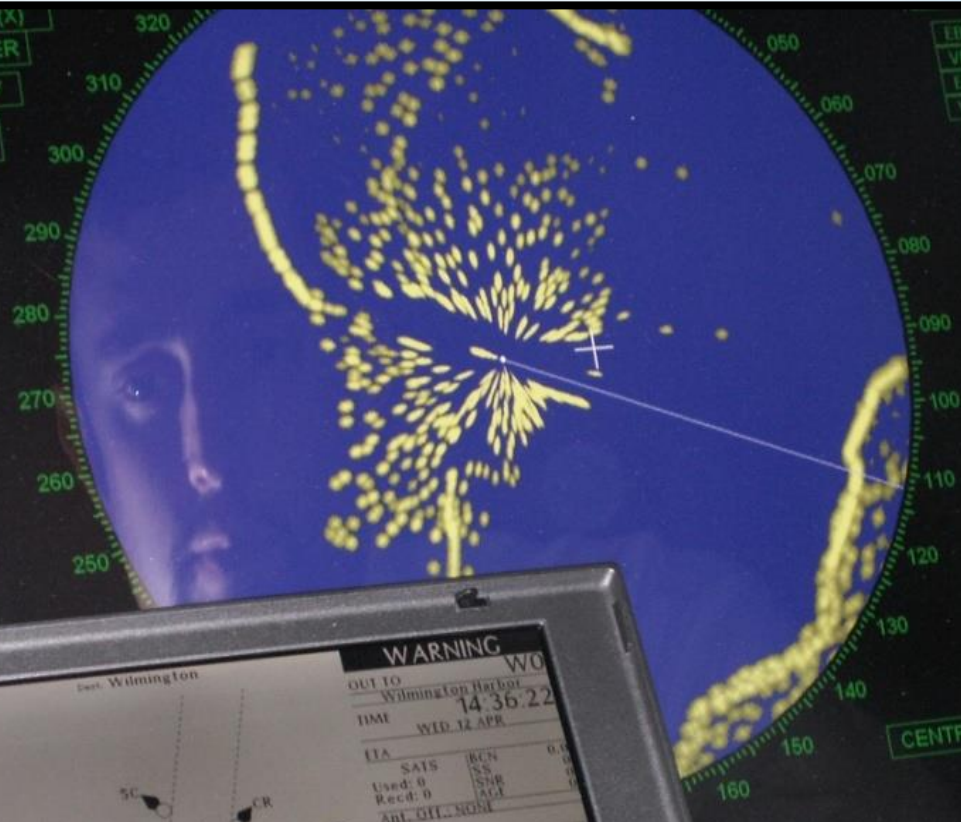


Early PPU, Delaware

TX A (X)
MASTER
STBY
MP

EBL 1	OFF
VRM 1	OFF
EBL 2	OFF
VRM 2	OFF

NO ALARMS



WIND AND DEPT
REL WIND 8.8
DEPTH 900.1

CURSOR POSIT
RNG 0.2
BRG 08
LAT 39°4
LON 075°3

759 ft |

Dist. Wilmington

WARNING W0

OUT TO Wilmington Harbor

TIME 14:36:22

WID 12 APR

EIA

SATS	RCN	0.0
Used: 0	SS	0.0
Recd: 0	SNR	0.0
	AGI	0.0

Ant. Off. Norm

ITC

BRG 113°

COG 000°

DIST 3315 m

SOG 0.0 kts

R 0 m

200 ft

IBM

Start | Wheelhouse, Windows 2.2...

ELL

PORTS Environmental Data

Sensor	TOD	Wind (Gust)	Tide	Current
1 PORT MANATEE	07:30	0 (0)kts@147°	1.0ft--	-.kts@----
2 ST. PETERSBURG	07:30	2 (3)kts@300°	1.1ft--	-.kts@----
3 OLD PORT TAMPA	07:30	5 (6)kts@265°	1.3ft^	-.kts@----
4 MCKAY BAY ENTR	07:30	--(--)kts@----	1.2ft--	-.kts@----
5 BERTH 223	07:24	2 (3)kts@063°	-.ft--	-.kts@----
6 SEABULK	07:24	2 (3)kts@031°	-.ft--	-.kts@----
7 TPA CRUISE IER	07:30	2 (2)kts@018°	-.ft--	-.kts@----
8 SUNSHINE SKYWA	07:26	--(--)kts@----	-.ft--	0.2kts@077°
9 OLD PORT TAMPA	07:30	--(--)kts@----	-.ft--	0.2kts@024°
10 C-CUT	07:30	4 (5)kts@271°	-.ft--	-.kts@----

Exit Time 07:44 Last Update 00:30 Timeout(min) 30



05/12/2009 07:44:13
 POS: GPS DGPS HDG: AIS
 EPE: <1m #Sats: 10

SOG: ^ 9.4kts
COG: 184°T
HDG: 186°T
ROT: 1.8°/M

Route: Alafia River to SB.txt
 Next WPT: Hillsborough Buoy 12

DST: 4629ft
BRG: 186°T
TTG: 5 min
XTD: L 30ft

<<< 500ft >>>

Selected WPT: Hillsborough Buoy
DST: 4629ft
TOA: 07:49

Vessel: Rhone
 User: Viso2day
 Warnings: OFF
 Nav reference: bridge
 Speed Vector: 3 min
 N1: dsbl N2: dsbl N3: dsbl

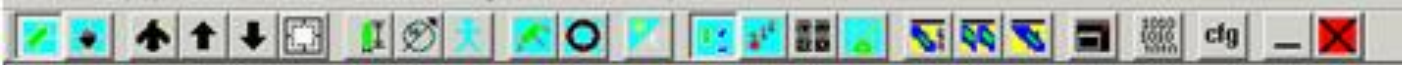
Start PilotMate Display Sof...

SA
 FLE
 MINI-R
 LOA 77
 DEPTH
 TONN

X40

100% 7:44 AM

PrSc ScrLk Pause Insert Home PgUp
 End PgDn



10/03/2009 19:32:33 local
POS: GPS DGPS HDG: AIS
EPE: <2m #Sats: 10

SOG: ^ 9.8kts
COG: 186°T
HDG: 188°T
ROT: -0.0°/M

Route: East Bay to SB.txt
Next WPT: Hillsborough Buoy 12

DST: 4.1nmi
BRG: 185°T
TTG: 25 min
XTD: L 0ft



Selected WPT: Cut C, Buoy 6C
DST: 14.2nmi
TOA: 21:00

Vessel: Brother Glory
User: Viso2day
Warnings: OFF
Nav reference: bridge
Speed Vector: 3 min



Tampa Bay PORTS, NOAA/NOS 2014-06-16 13:54 EDT

-----Water Levels (above MLLW)-----

Port of Tampa CSX	2.2 ft, Rising	Old Port Tampa	1.7 ft, Rising
St. Petersburg	1.9 ft, Rising	Port Manatee	2.1 ft, Rising

-----Winds-----

	Spd	Dir	Gusts		Spd	Dir	Gusts
TPA Cruise Term. 2	5 kn	NE	8	East Bay Causeway	2 kn	ENE	5
Seabulk	4 kn	ENE	7	Berth 223	*** kn	***	***
Old Port Tampa	6 kn	WSW	7	St. Petersburg	3 kn	SE	4
Middle Tampa Bay	6 kn	NE	7				

-----Air and Water Temperature-----

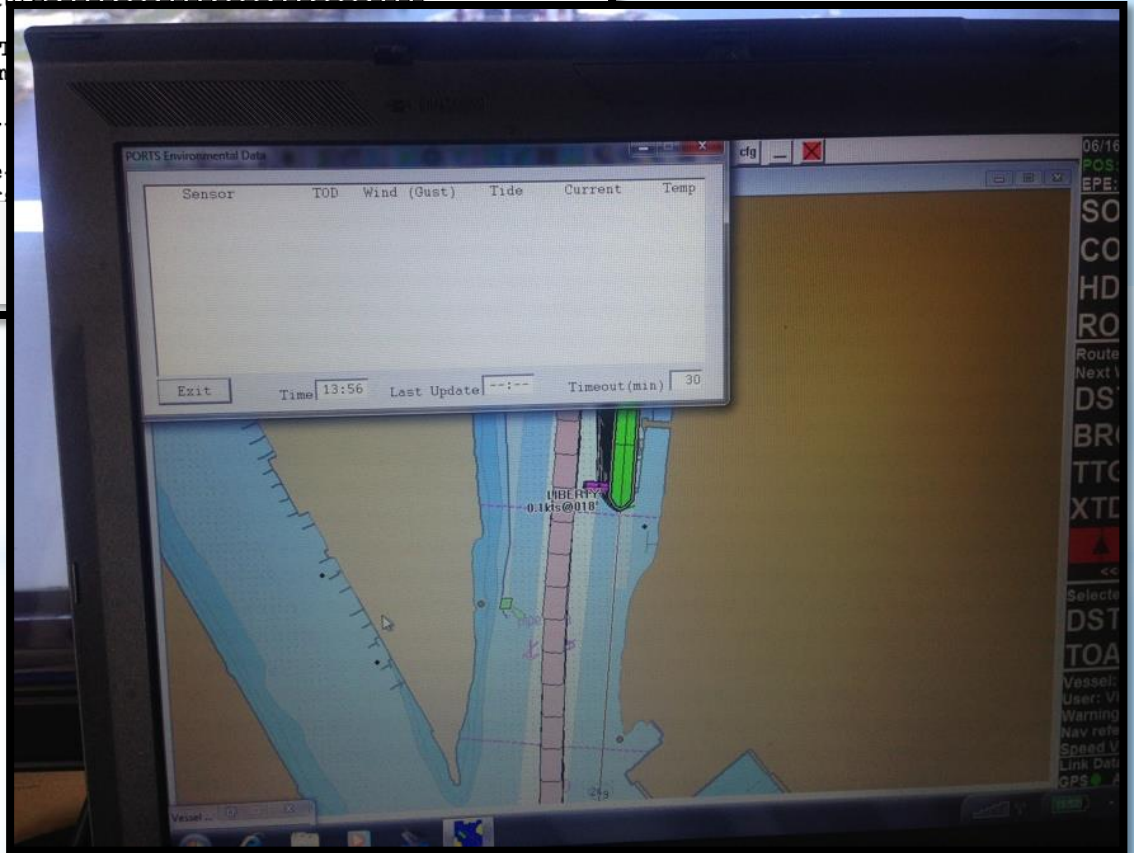
	Air	Water	
Port of Tampa CSX		86 °F	Old Port T
St. Petersburg	85 °F	87 °F	Middle Tam
Port Manatee	84 °F	85 °F	

-----Relative Humidity-----

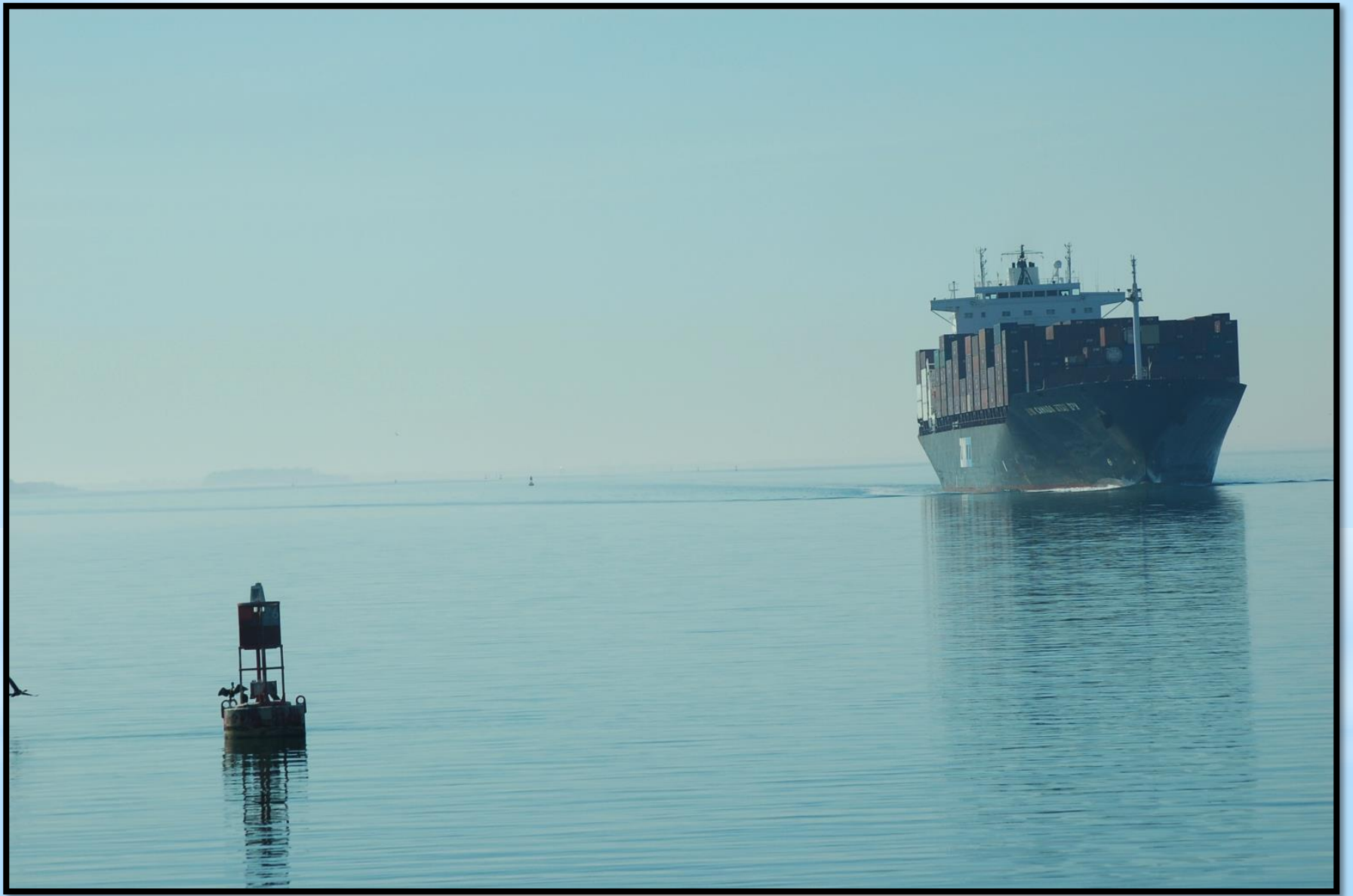
Middle Tampa Bay 60%

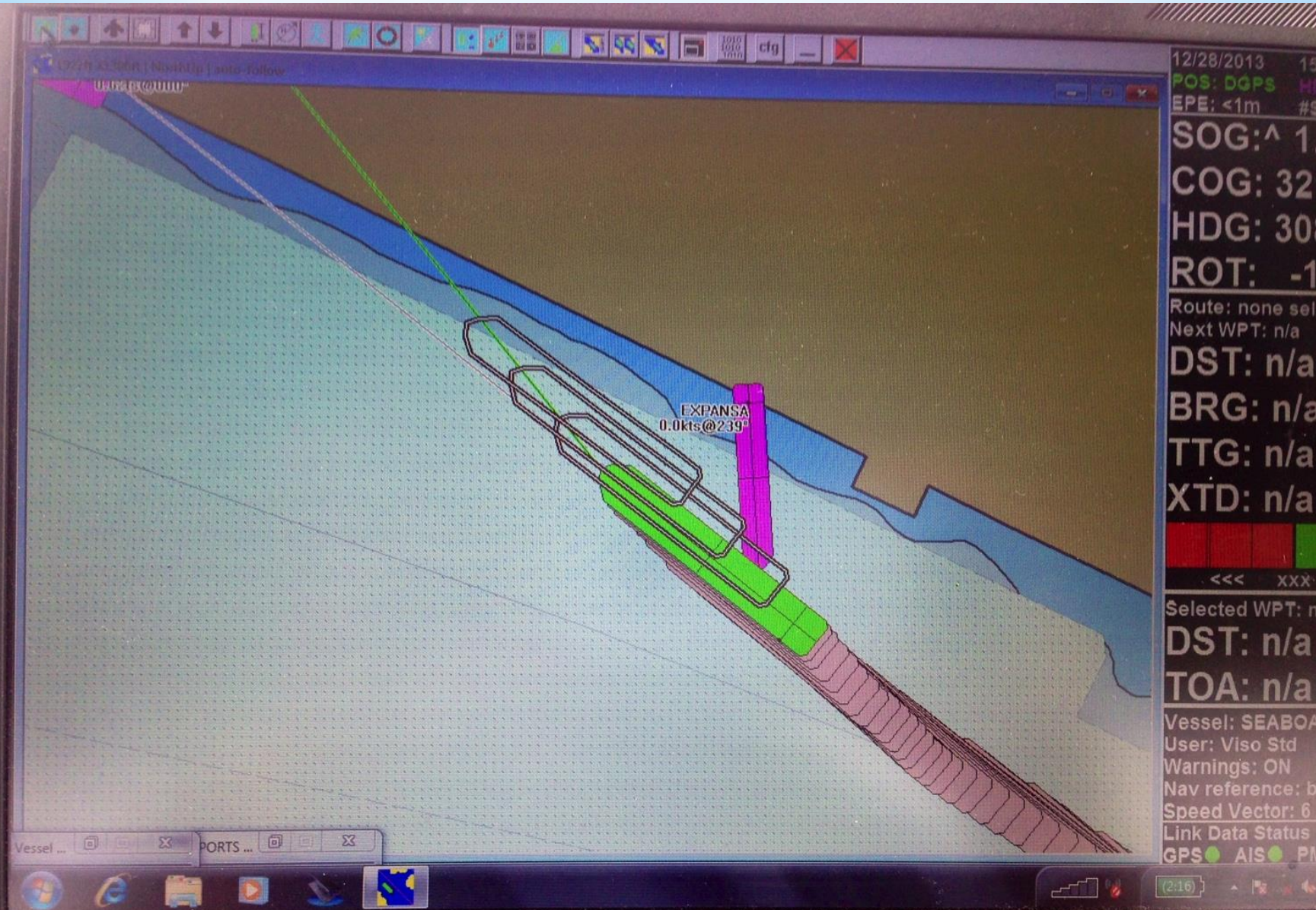
-----Barometric Pressure-----

Old Port Tampa 1022 mb Falling St. Peter



06/16
POS:
EPE:
SO
CO
HD
RO
Route
Next
DS
BR
TTC
XT
TOA
Vessel:
User: V1
Warning
Nav rate
Speed V
Link Data
GPS





12/28/2013 15
 POS: DGPS HI
 EPE: <1m #S
 SOG: ^ 1.
 COG: 32
 HDG: 30
 ROT: -1
 Route: none sel
 Next WPT: n/a
 DST: n/a
 BRG: n/a
 TTG: n/a
 XTD: n/a
 Selected WPT: n
 DST: n/a
 TOA: n/a
 Vessel: SEABOA
 User: Viso Std
 Warnings: ON
 Nav reference: b
 Speed Vector: 6
 Link Data Status
 GPS ● AIS ● PW

lenovo

