

# Tug-boat Dispatching

Charting your course of tug-boat dispatching



Responder w Battleship New Jersey 2025



*One Step Ahead*

## Situational Awareness

**This booklet is not meant to be inclusive. This booklet introduces best practices of tug-boat dispatching**



Captain Ray Head of Tide  
N Branch

“This booklet is designed to help dispatchers new to maritime operations, especially in the Mid-Atlantic region (Delaware River, C & D Canal, Chesapeake Bay, Port of Baltimore).

This booklet is viewed as an asset in assisting dispatchers who may not be fully familiar w the local, regional, national and global maritime, the role of tug-boats and cargo movements and as background to America’s National Marine Highways. Its focus is regional. Material provides insights into different areas of operations, promotes an understanding of local and regional waterways and emphasizes situational awareness, professionalism and self-motivation.

This booklet’s content has been drawn together from the accumulated best practices and experiences of many in the maritime industry.

It is meant as a general tool for dispatchers . It is not meant to replace hands-on real-time dispatching. This booklet is a pivot-point introductory resource for best practices in day-to-day tug-boat dispatching.



## Booklet Provides General Information on Best Practices for Tug-boat Dispatchers

This booklet allows dispatchers to gain an understanding of dispatchers role in the maritime industry. Maritime transportation of water borne freight is the least expensive way to move cargo. Ships move cargo 24/7/365. Ships require tug-boats to move cargo, to maintain shipping schedules and to address any emergency's, including and not limited to a bridge collapsing.

- Nomenclature
- Distance
- Times
- Local Knowledge
- Transits Issues
- Delaware River
- Chesapeake Bay
- Tug-boats
- Maritime Highway
- Vessels
- Community
- Other

Dispatching is demanding. It's easy to get confused. Its easy to get over-whelmed. Dispatching is a puzzle. Dispatching is a "puzzle" that you as a dispatcher guide together. Dispatching will cause stress. Dispatchers perform their duties in an efficient, honest, professional, business like manner.

There is an organized, collaborative process to tug-boat dispatching. Tug-boat dispatching takes place in a busy and at times in a fast-paced hectic work environment. Dispatchers learn best practices from criticism, by doing and by asking questions and collaborating.



Tug-boat dispatching requires confidence, independence, accountability and sound judgements. Tug-boat dispatching has its own language (nomenclature), its own rules, its own protocols and its own way of communication. Tug-boat dispatchers have their own best practices.

What's "Beta"? "Beta is information, communication and situational awareness. "Beta" is professionalism, accountability and the life blood of dispatching. It is the data you need to assign tug-boat jobs.

In order to help you succeed as a tug-boat dispatcher this booklet is designed to introduce you to the best practices of dispatching tug-boats and tug boating. Its goal is to enhance your understanding of tug-boat dispatching. Beta is communication. Beta is observing. Beta is listening.

Best Practices are cultivated by using tools like a computer and the internet to help you gather information to make a decision. Beta is using your experiences to guide tug-boats. Beta is using your experiences to guide tug-boats and allows you as the dispatcher to make decisions as to where and when you send a tug-boat for a job. Making use of best practices so it's functional requires experience. One doesn't get dispatching best practices right off.

Self-motivation is a big part of gathering beta for dispatching tug-boat jobs. Confidence is cultivated. Resources are available 24/7/365 to navigate your way on safe, efficient and appropriate dispatching.

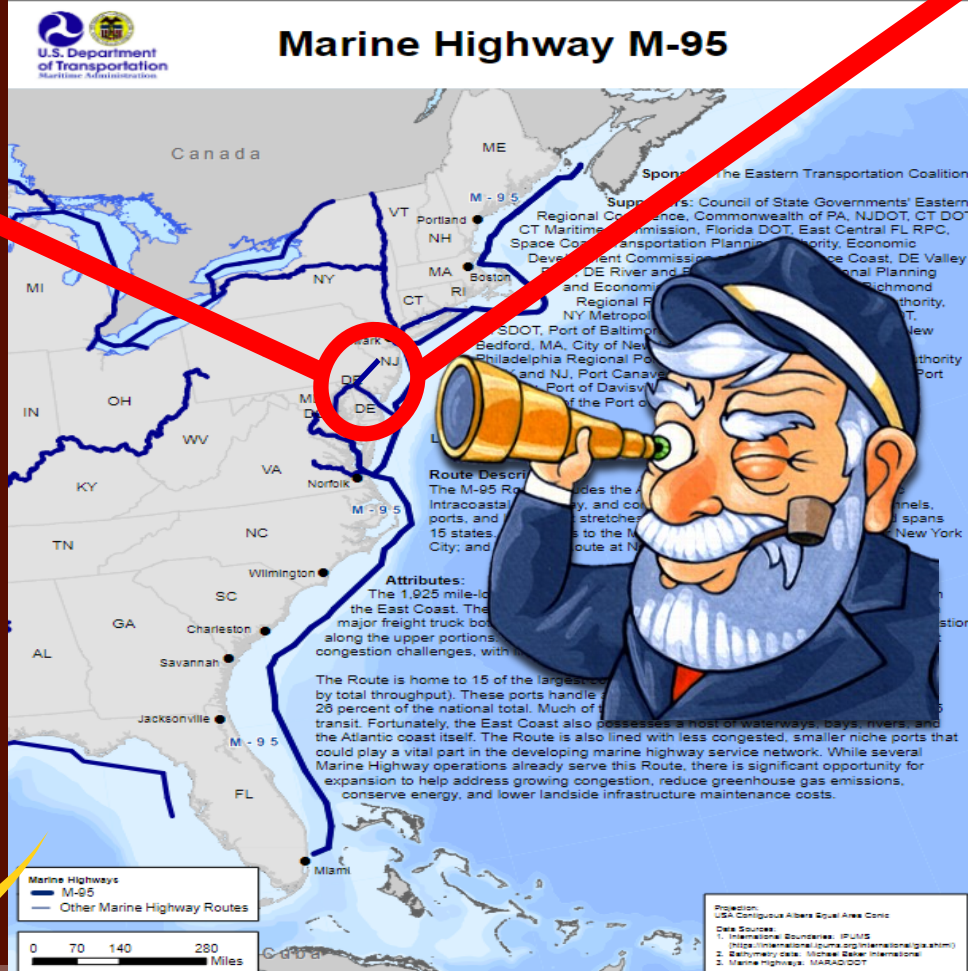
This booklet "Dispatching for Tug-boats" introduces one to the world of tug-boat dispatching. It's a unique career. Maritime commerce runs 24/7/365. So do tug-boats.

Dispatching brings a feeling of satisfaction when numerous tug-boats and ocean going vessels move with precision, accuracy and routine. Because a shift as a dispatcher is not always routine. Dispatchers organize tug-boat operations and schedules in a fast-paced, vibrant and dynamic atmosphere.



[illegible]

- Ref: Marine Highways**
- MARAD**



## America's Marine Highways: Delaware River, C & D Canal, Chesapeake Bay

## Nomenclature

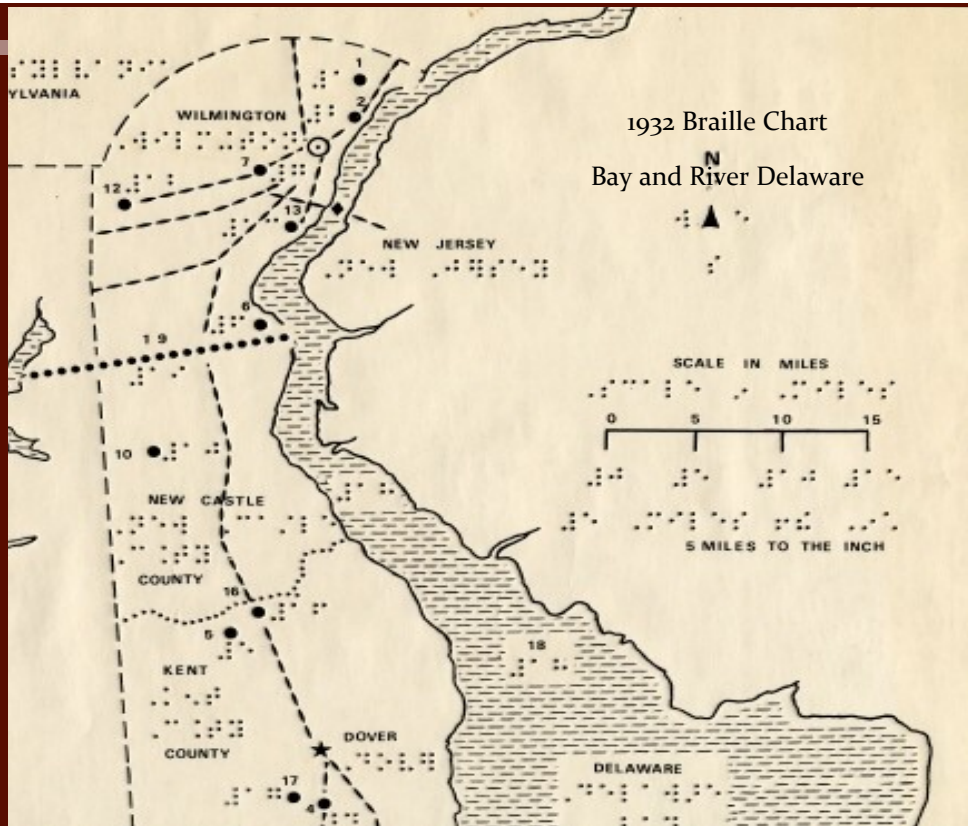
Tug-boat dispatching has its own language and uses of communication. A few examples are provided:

**Situation for Dispatching:** Ocean going cargo vessel offloading Packer, 1430F, SST. 1250. Working BT 800 HP. / McAllister Sisters (COB) require assist to dock at 4 SMT, then shift to Trade Point East.

This translates to: A container ship at Packer Marine Terminal, which is on the Delaware River in Philadelphia. The docking master is to be at the pier with tug-boats at 2:30 PM. The vessel is Starboard Side To, with a 800 HP working bow thruster.

Container on barge (COB) is a weekly service to Baltimore and docks at 4 Seagirt Marine Terminal then moves over to the Trade Point Piers.

“Salty” language and maritime slang are used to communicate on a regular basis.



## Decision Making, Collaboration, Accountability

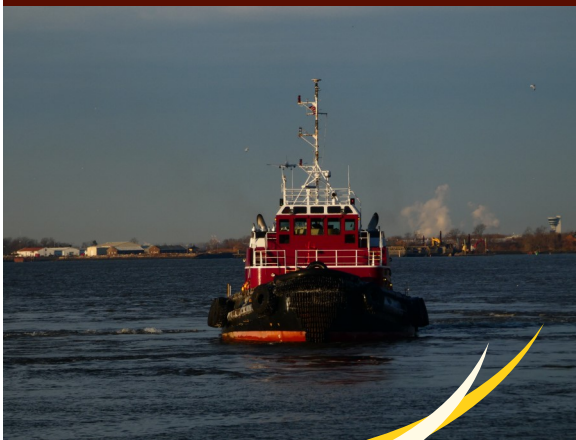
Blind individuals see (communicate) by feeling, hearing, listening. A tug-boat dispatchers situational awareness requires the same attention to detail. A single tug-boat job or dispatch movement involves or could involve:

- Shipping Agents
- Shipping Companies
- Docking Masters
- River Pilots
- Tug-boat Crews
- Line Runners
- USCG
- EMS
- Other Maritime Dispatchers
- Day to Day Issues
- Others



Ref: Annie Moran, 1942

Knowing where to go to get beta is crux. Dispatchers desk tops have links to the National Weather Service, the Maritime Exchange, to the River Pilots, to docking masters, to other McAllister Tug-boats and other stakeholders found in the Mid-Atlantic Marine Highway ports and harbors. If you thrive on bringing order to complexity, of doing a job well done well then check out tug-boat dispatching.



## Distances

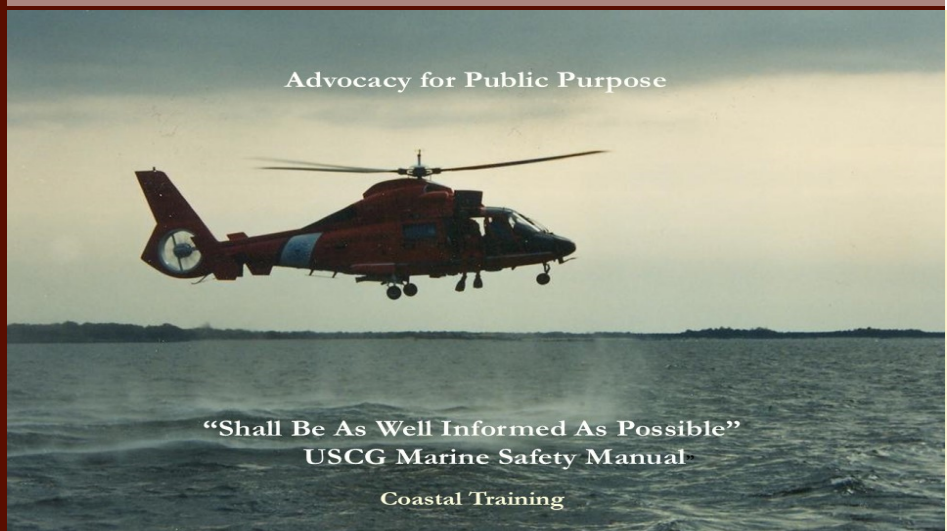
Knowing the distances along the Delaware River and the Port of Baltimore anchors dispatching. Dispatching is the process that keeps cargo moving in the maritime. Dispatchers play an important role in ensuring vessels arrive and depart.

## Muti-Tasking

Multi-tasking is an area new dispatchers struggle with. In the beginning you are not alone. It takes time to develop the skills to handle multiple issues at the same time. You can work to improve multi-tasking by mastering individual skills and then connecting them.

## Geography

Learning the lay of the land, where tug-boat operations are taking place is a huge help in dispatching. Become familiar with the areas of operations, discover and explore other areas. As you learn you will find out knowing the area of operations is most important information to have to dispatch.



### Decisions in Dispatching

Your decision as a dispatcher engages three interacting sources of information. Local knowledge, transit/job specific information and knowledge of tug-boats.

Local knowledge permits you to maintain orientation to tug-boats, fix and anticipate tug-boat operations and anticipate fast moving tug-boat jobs.

Transit and Job Specific “beta” builds on before, during and after a job. Transits “beta” is a source of constant review. Its “beta” about the day to day, hour by hour, minute by minute dynamics of tug-boat jobs and areas of operations.

Tug-boat knowledge serves as background to all your decisions.

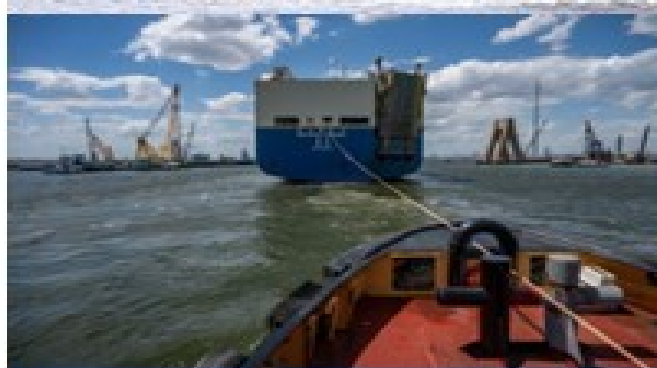
Ref: Amended ACOE, Port of New York. Operations Study. 1976.

Dispatchers connect various aspects of transportation, including scheduling, tracking and managing resources along shipping routes. They serve as a crucial link between customers, carriers and others.



**Clear, timely communications, keeps operations smooth and tug-boats moving**

**Any time you think you have the game conquered, the game will turn around and punch you right in the nose. Mike Schmidt, Philadelphia Phillies (like it even had to be said...)**



*Clockwise: Delaware River, Port of Baltimore, Delaware River, Port of Baltimore, Port of NYC (1949), Delaware River, Port of Baltimore*

**Tug-boat dispatchers are responsible, versatile and knowledgeable. Tug-boat dispatchers coordinate tug-boats to vessel movements and jobs across a broad spectrum of maritime, port, terminals, shipping, container on barge and other cargo areas.**

**Shipping agents act on a clients behalf. Dispatchers are the link to ensure cargo moves. Agents negotiate for their clients needs for the efficient movement of cargo, help their clients navigate cargo and vessel movements, connect clients to resources and speak frequently with dispatchers. Dispatchers provide advice to shipping agents and others.**

October 2025
Partial List of Shipping Agents and Tugboat Ops on the Delaware River and the Port of Baltimore
Norton Lilly NL
Moran
Terminal
Sandpiper
JS Conner
Atlantic Ship
New England Steamship
GAC Shipping
K3 Maritime
Wilhelmsen Shipping WWP
EMR
Trans Atlantic
Host
Biehl
Inchcape Shipping
Gulf Harbor
Capes
New England Shipping
Miami Tugboat
Wilmington Tugs WMT
Moran Tugboats
Hayes Tugboats
Vane Brothers Tugboats

**Dispatchers coordinates and communicates activities between the captains and numerous others in maritime commerce Dispatchers are responsible for and not limited to :**

- **Directly interfacing with customers to provide the best possible level of service and satisfaction.**
- **Processing job/work requests which includes generating work orders and issuing orders to the assigned tug-boat.**
- **Dispatching information (beta) to Captains.**
- **Tracking tug-boats and other vessels coming and going to terminals.**
- **Maintaining a log of all job orders issued**
- **Reconciling discrepancies**
- **Other**

**Company's are often referred to through initials**



Port of Baltimore

## Common Cargo Vessels



Bulk Carrier



Oil Tanker



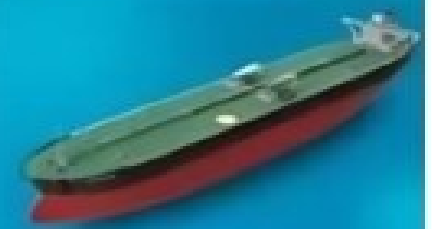
Container Ship



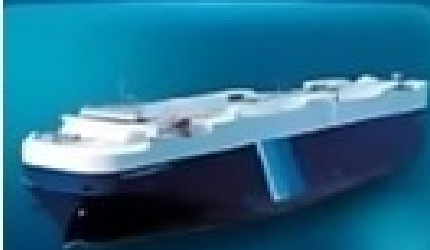
Chemical Tanker



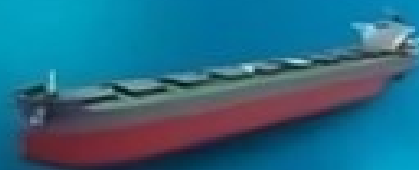
LNG Ship



VLCC



RORO Ship



General Cargo



Livestock Ship

# DISPATCHING IS INTENSE

Always ask self how can I do better !

Your pencil  
and eraser  
are your  
best tools.

Dispatching  
Anchors  
Opportunity.



## Assignments

Dispatching requires  
intense focus,  
politeness,  
and listening

The art of successful  
dispatching involves  
analysis alongside  
technical aspects.

**Dispatching is  
Fast Paced**

Always ask self how can  
I do better !

## Tug-boat Characterizations: Classification/Horsepower/Bollard Pull w Types of Tug-boats

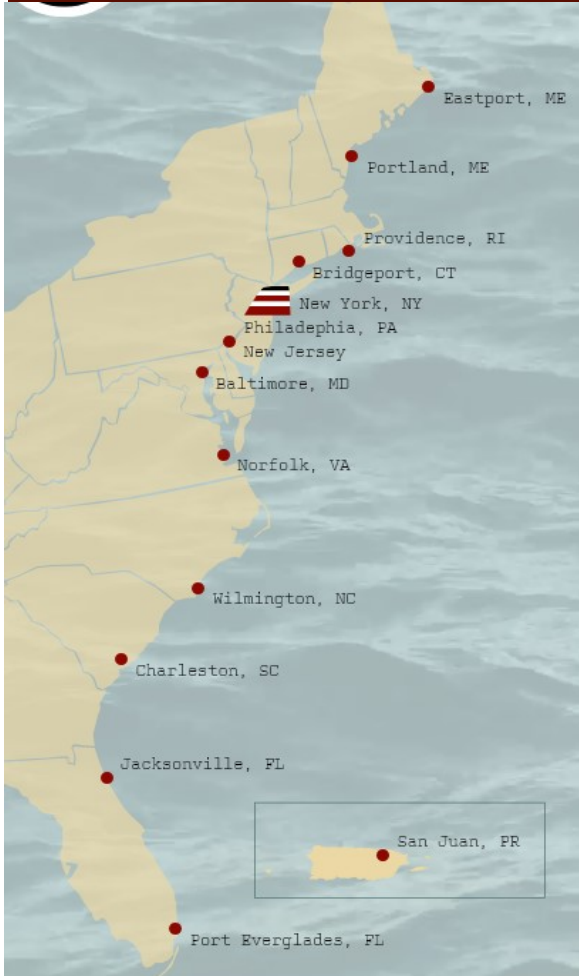
Philadelphia	Horsepower	Bollard Pull in Tons		Tug Type
		Ahead	Stern	
Bevelry	4,400	61		Tractor
Responder	2,800			Twin Screw/Kort
Reid	4,000	50		Tractor
Robert	4,000	50		Tractor
Suzanne	6,700	80		Tractor
Teresa	2,200			Single Screw
Point Comfort				Utility Launch
Total	24,100	241		
Baltimore	Horsepower	Bollard Pull in Tons		Tug Type
		Ahead	Stern	
Isabel	6,770	81.6		Tractor
Vickie	4,650	60		Twin Tractor
Bridget	5,080	65	62	Twin Tractor
Total	16,500	206.6		

### Dispatchers Note:

Delaware River Pier H/BWC Jobs  
Must be Reid or Robert

## McAllister Tug-boats

### Area of Operations



## McAllister Tug-boats

McAllister Tug-boats operate a fleet of more than 60 tug-boats, crew boats, and barges in 13 locations along the U.S. East Coast from Eastport, ME to San Juan, PR. The fleet includes 38 Z-Drive/tractor tugs and 20-plus vessels involved in coastal towing with more than a combined 270,000 H.P. In each port, McAllister is engaged in ship docking (servicing more than 1,000 steamship companies), general harbor towing, coastal towing, windfarm support, and bulk transportation.

McAllister Towing is one of the oldest and largest family-owned marine towing and transportation companies in the United States. Founded by Captain James McAllister in 1864 with a single sail lighter, the company has served the maritime community continuously, earning a reputation for unsurpassed excellence.

McAllister operates a balanced and extensive fleet of tugs, barges, and ferries in the major ports on the U.S. East Coast and in Puerto Rico. B. Buckley McAllister is the Chairman and CEO and a great-great-grandson of the founder, representing the fifth generation of McAllisters at the helm.

McAllister's tradition is one of being the vanguard of an innovative force in marine transportation





# **Tug-boats**

## **Classifications**

**Conventional Tug-boats have fixed propellers, double screws and good bollard pull**

**Azimuth driven tug-boats use pitch propellers**

**Tractor tug-boats propulsion of a fully controllable pitch propeller blades. Maneuver deep draft limits at specific areas.**

**Rotar tug-boat or Triple “Z” Drive**

**Ocean Tug-boat—Offshore**

## **Situational Awareness**

### **Outline of a typical Dispatcher Watch**

**Arrive 15 minutes before your watch**

**Get Pass Through Report from prior dispatcher.**

**Maintain continuity of tug-boat operations**

**Reviewing assignment sheet**

**(see next page for sample assignment sheet)**

**Ask questions and clarify issues w other dispatcher and operational concerns. Review operations log book. Take notes on assignments.**

**Log into dispatchers programs. Check e-mails. Reviewing Baltimore Maritime and Philadelphia Maritime and Pilots data bases.**

**Coordinating with port partners to maintain up to date information, telephone calls, texts, e-mails, radios, data sheets and more.**

**Log into Port Vision. Comparing assignment sheet w databases. Regularly check and update vessel traffic based on maritime reports.**

**Monitoring vessel progress as the transit areas of operations.**

**Set priorities.**

**Commence Watch.**

**Any time you think you have the game conquered, the game will turn around and punch you right in the nose. Mike Schmidt, Philadelphia Phillies (like it even had to be said...)**



## A sampling of Dispatch/Run times

### Dispatch/Run Times:

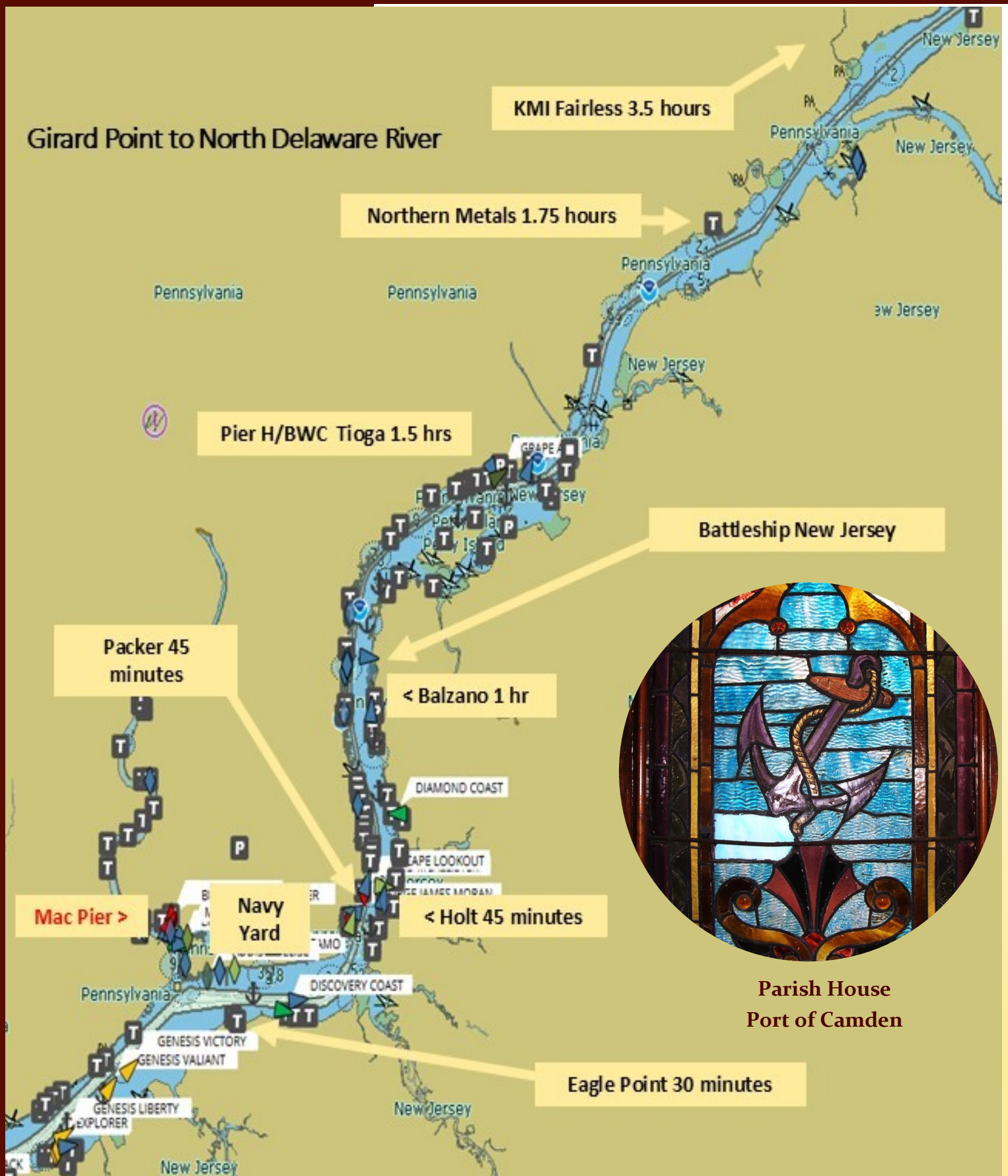
Mac Pier Girard Point to North Delaware River Berths

Dispatch/Run times are the foundation of dispatching

**For Docking Pilot pickup, add 30 minutes to the dispatch/run time**

<u>Northern Berths</u>	<u>Dispatch/Run Times</u>
Grows/KMI Fairless	3.5
Riverside (Bristol)	3
Croydon	2.5
Northern Metals	1.75
Pier H/Pier 179/BWC	1.5
Ben Franklin Bridge	1
Penn's Landing	1
Balzano Terminal	1
Broadway Terminal	1
Pier 122/Holt/Packer/80-84	45
Eagle Point Terminal	30
Navy Yard	15

## Girard Point to North Delaware River



Parish House  
Port of Camden



A sampling of Dispatch/Run times

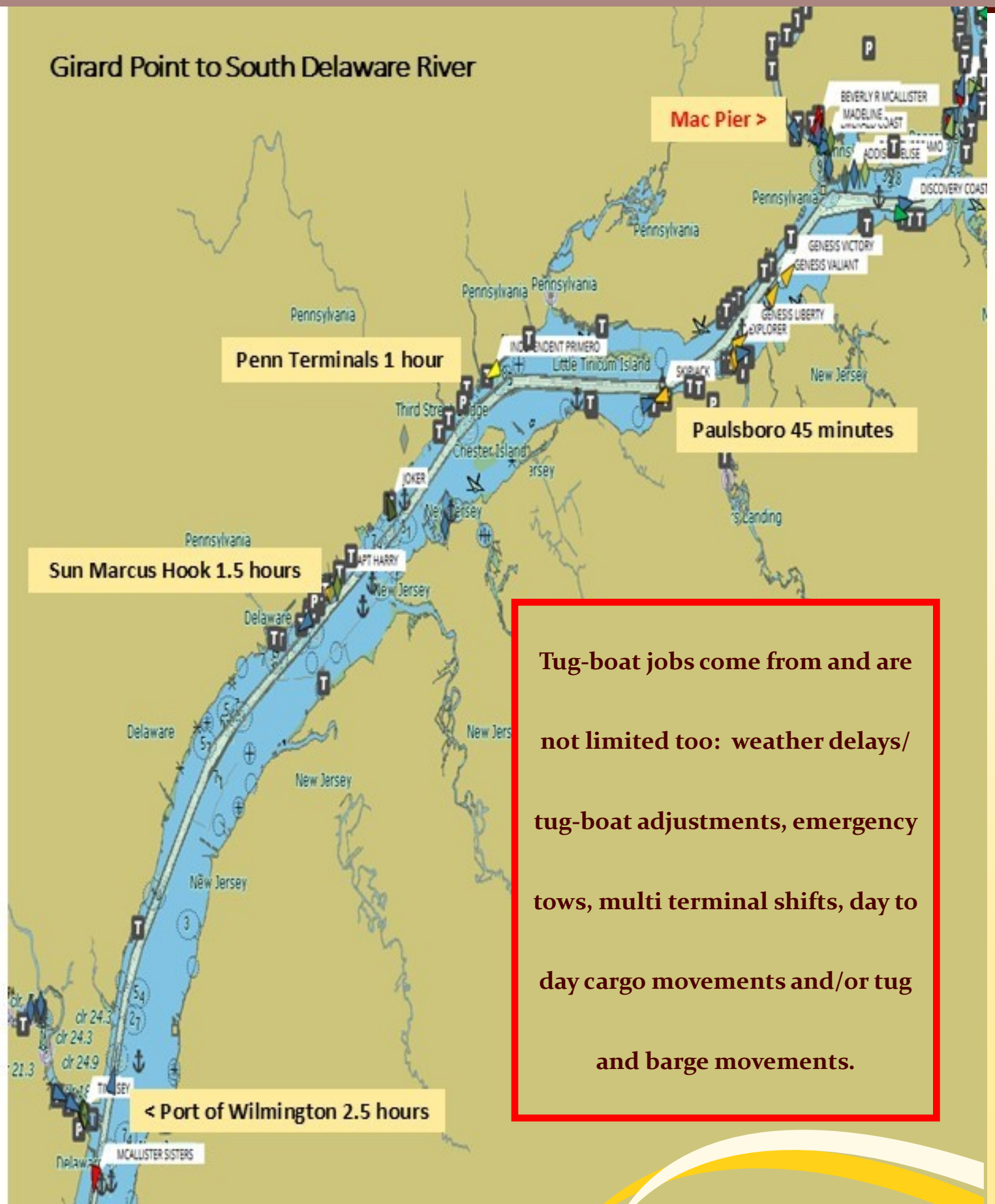
Dispatch/Run times are the foundation of dispatching

Dispatch/Run Times: Mac Pier Girard Point to South Delaware River Berths

For Docking Pilot pickup, add 30 minutes to the dispatch/run time

<u>Southern Berths</u>	<u>Dispatch/Run Times</u>
Schuykill	15
PBF Paulkboro/Crown Point	30
Repauno Terminal	45
Penn Terminal/Eddystones	1
Monroe Terminal	1.5
Sun Marcus Hook	1.5
Oceanport/Claymont	1.5
Port of Wilmington (POW)	2.5
Delaware Memorial Bridge	2.5
PBF Delaware City	3.5
C & D Canal	3.5
POW to Big Stone Anchorage	6

## Girard Point to South Delaware River



Tug-boat jobs come from and are not limited too: weather delays/ tug-boat adjustments, emergency tows, multi terminal shifts, day to day cargo movements and/or tug and barge movements.

## Examples of Different Situations that you might encounter as a dispatcher.

There are many solutions to many situations. You as a dispatcher establish common ground as a starting point. These listed situations come from real life dispatching. They are presented to allow you to review examples real-life scenarios, to get a peek into dispatching and allows you to practice problem solving and decision making.

As a dispatcher you get a call from the docking master at 0915. *Catfish* moored to 4/5 Widget Terminal. Underway at 1325. Moored directly ahead a chemical barge. Stern *Evergreen Turning*. Two tug-boats are present, required to sail the *Evergreen* ship at 1015F. Docking Master needs barge moved in under 30 minutes. How many tug-boats does a *Evergreen* vessel require? What additional action would you take?

It is called into dispatch that a coal cargo hatches has caught on fire in Baltimore mid-channel, Curtis Bay. Tug-boat calling in report requests immediate assistance. All other tug-boats in the harbor are currently on jobs. Where is the closet tug-boat? How long will it take to get the closet tug-boat to the requested location? What steps are taken in this situation? What actions did you take? And why?

Tug-boat captains, Docking Master, Line Runners and a River Pilot dispatcher ask to be called when a specific vessel carrying flagged cargo reaches Buoy 61 of the Delaware River Federal Navigation Channel. Who is called first? In what precedence? What information that is common-ground is presented to all parties?

1 hour before a 2345 docking on a Delaware River tide-job, a shipping agent calls and changes arrival time to 0300. Your assignment sheet is booked solid. Describe how you will resolve this situation?

You flub completely assignments in Baltimore. Crews are voicing varying levels of agitated aggravation. The issue is corrected, jobs are completed. What is the next thing you need to do? How do you report your screw-up to operations.

There are many acceptable solutions to situations. The acceptable one that suits all party's is the acceptable one. It takes training, experience and self-evaluation to communicate common ground among at times often competing requirements.

## Typical Dispatcher Watch Assignment Sheet

## McAllister Towing of Philadelphia

MARCUS HOOK - 1HR 23M  
TIDES-PHILADELPHIA HIGH:

## Condor

Teresa

Reid

**Beverly**

**Robert-OOS**

### Asterisks Show that Jobs and Tugs are Assigned

[illegible]

**ROBERT-OOS AT 0700; CREW ON TERESA**

## Go Beyond Traditional; Presence and Ability

## Asterisks Show that Jobs and Tugs are Assigned



PILOTS  
MC  
DW-OFF/JC-O/N  
KS

Jobs and Tugs are Assigned		FINISH	TUGS	MASTER IN CHARGE	DRAFT	OWNER OR CHARTERER	REMARKS
01115 0115	0130 0130	2. Beverly* Reid*	DW*	11.4M			DP requested 2 tractors for sa
0300	0335	Teresa*	**			Rose Cay	Teresa OOT after this job
		2. Beverly* Responder>*	BH/0615*			ICL	Mike Edwards will get on Beve this job
		2. Reid* Responder>	KS	26'3		BP Shipping?	591ft long
		1? Beverly	MC	10.5m		msc	
		1	**			Rose Cay	
		1	**			Reinauer	
			KS				
		Responder	**				
		2	JC				
Times on Job		Tug-boat and Docking Master		Customer		Assignment Notes and Remarks	
						NEXT PQ deliveries: 9/27(leaving 26th)	
				UNTIL FURTHER			

**Any time you think you have the game conquered, the game will turn around and punch you right in the nose. Mike Schmidt, Philadelphia Phillies (like it even had to be said...)**

# Note: Compare with Delaware River Area of Ops

## BALTIMORE

Tug Name	Isabel		Bridget		Vicki		(Spare)		Order
Crew Member:		2hr		2hr		2hr			Isabel
		2hr		2hr		1/2hr			Bridget
		O/B		O/B		2hr			Vicki
		O/B		O/B		O/B			

Note→

Tugs Left	JOB READY	NAME OF VESSEL	FROM	TO	TUGS ALONG SIDE	START	FINISH	TUGS
C	0030F*	Grande Lagos	Stream	13DMT	0030	0035	0140	Bridget*
					0030	0035	0145	Vicki*
C	0340F*	Atlantic Sun	Stream	12 DMT	0345	0350	0445	Isabel*
XXXX	0500F	Sluisgracht	Canton 11	Stream	XXXX	XXXX	XXXX	XXXX
C	0600F*	ARC Defender	SDMT	Stream	0545	0600	0640	Isabel*
					0550	0610	0640	Bridget*
	1500F	Bravey Ace	Chesapeake	Stream				Vicki
								Isabel
	1730WC	Mandarin Penghu (X- CL Rizhao)	Balt. Anch.	ConsolW				Vicki
								Isabel
	1900F	Heroic Leader	Stream	1DMT				

Billing

Assignment  
time

Vessel  
Loading/Docking/Escort/Other

Job Times

Tugboat

Pilots and  
Docking  
Masters

## BALTIMORE

**Note: Compare with Delaware River  
Area of Ops**

MASTER IN CHARGE	DRAFT	ORDERED BY	RECEIVED BY	TIME RECEIVED	LOCAL AGENTS	OWNER OR CHARTERER	REMARKS
	29'6"			1635/25th	N/L	Deepsea	FOLLOWS GRANDE DAKAR
	29'			1900/25th		ACL	0305 - 0700 Vicki OOS
	23'4"			1950/25th 26th 0030		Moran	cancelled 0
	28'10"			1210/24	WPS	ARC	
				1030/26th	Host	Moran	
	25'3"				Host		Following Magic Thunder
	27'11"			1730/25th	N/L	NYK	

Vessel Draft

Shipping  
Agents

Remarks  
Comments

## A sampling of Dispatch/Run times

### Dispatch/Run Times: Port of Baltimore

#### Dispatch/Run Times are the Foundation of Dispatching

##### Baltimore Harbor

##### Dispatch/Run Times

North Locust Point

15

Seagirt Marine Terminal

30

Dundalk Marine Terminal

30

Fairfield Terminal

30

Curtis Bay

45

Curtis Bay Orgin

1

Key Bridge

30

Trade Point`

1

The "Y"

90

South Locust Point

30

Annapolis Anchorage to Bridge

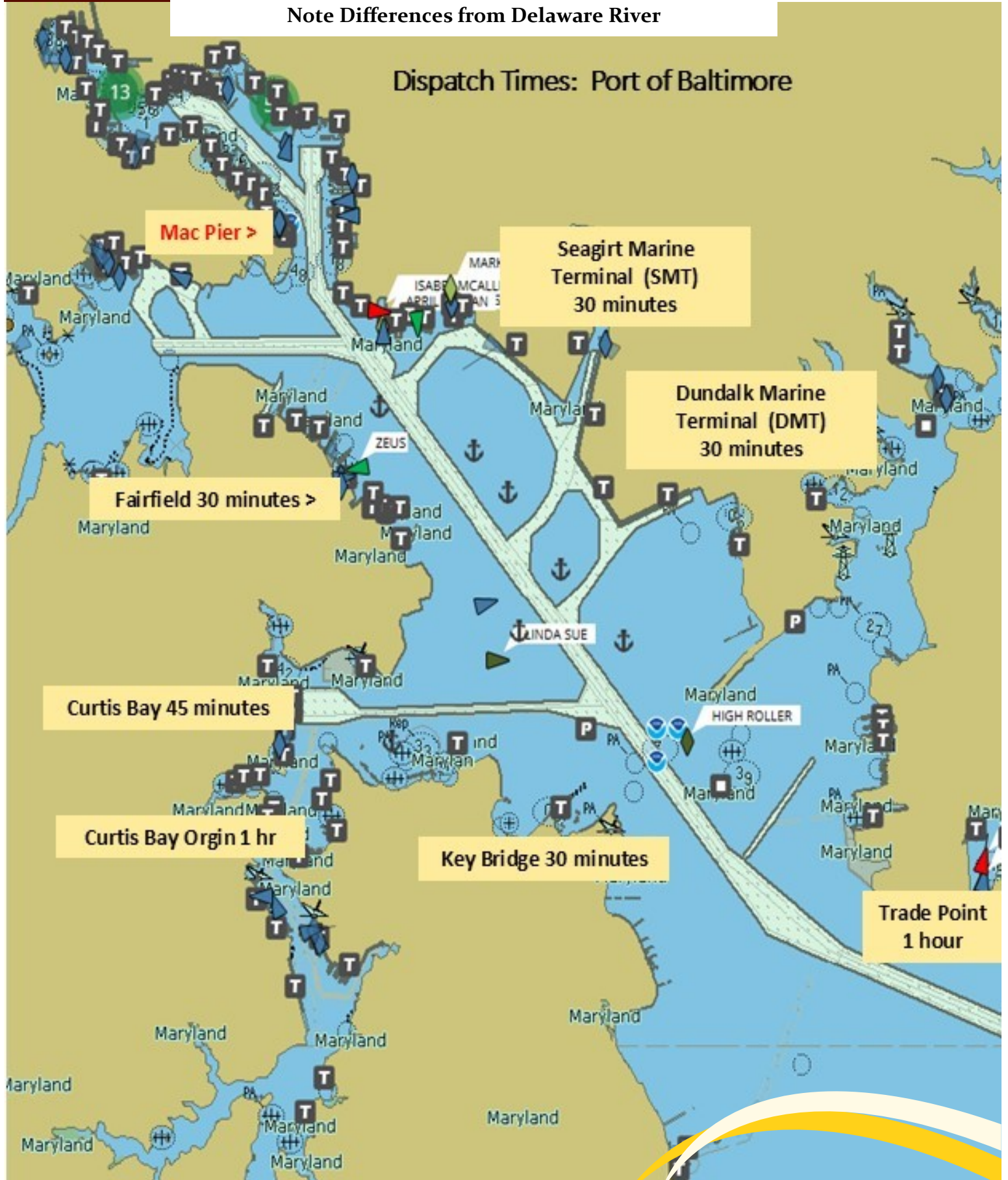
2



**Note: Compare with  
Delaware River  
Area of Ops**

Note Differences from Delaware River

## Dispatch Times: Port of Baltimore



Baltimore

## Delaware River & Bay: Ports

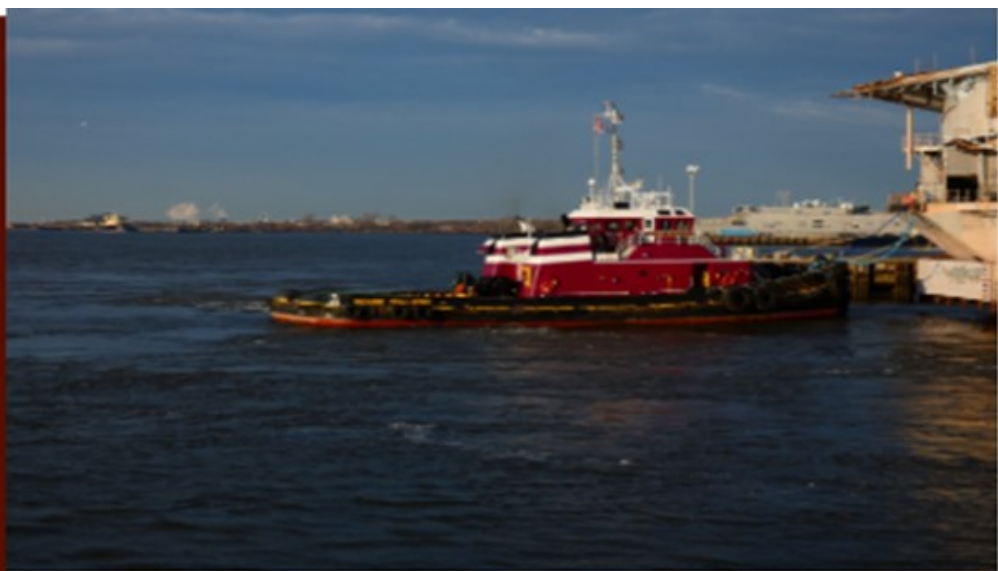
Tugboat Dispatchers cover different areas of operations, ports and harbors. 80 nautical miles connects Delaware River Harbors and Ports via the C & D Canal to the Chesapeake Bay's Port of Baltimore. This is the core region of tugboat areas of operation on the Mid-Atlantic Marine Highway.

### Times

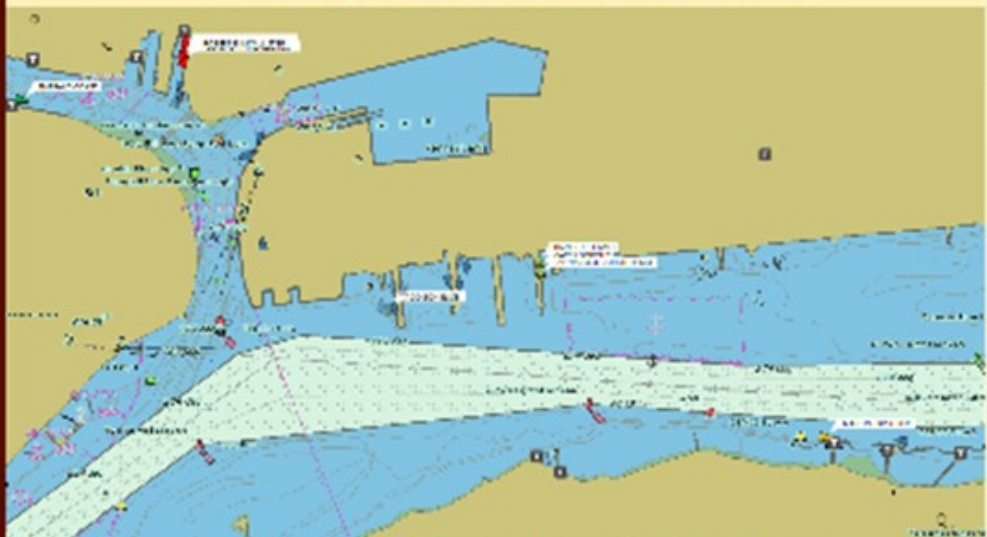
Delaware River is home to several key ports, that play a vital role in regional shipping and trade, contributing significantly to the local economy. The ports along the Delaware River are crucial for facilitating trade and commerce in the region. They serve as vital links for importing and exporting goods, supporting local industries, and contributing to the overall economic vitality of the area.

### Future of Dispatching

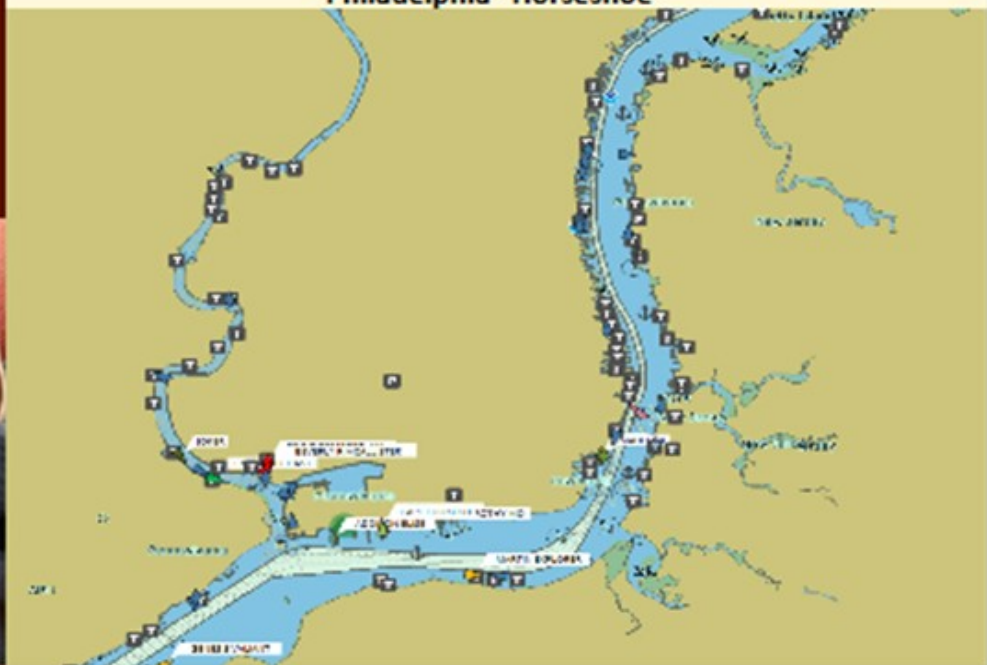
The Delaware River serves as a vital waterway for marine transportation and economic activity. Several significant ports are located along the Delaware River, including the Port of Philadelphia, the Port of Wilmington, and the Port of Camden. These ports collectively form one of the most busily navigated river systems in the country.



**Snap Shot Delaware River Federal Navigation Channel  
Philadelphia Navy Yard and River Terminals**



**Snap Shot Delaware River Federal Navigation Channel  
Philadelphia "Horseshoe"**



## Location

**Port of Baltimore Info.** The Port of Baltimore's location shows why Baltimore's unique geographic advantage as the closest East Coast port to the Midwest is a tremendous asset.

The Port is an economic engine for Greater Baltimore, the State of Maryland, and the Mid-Atlantic region as a whole. It is a major contributor to the economy .

It is the provision of employment and income to individuals; revenues to businesses engaged in handling cargo. Tax revenues go to local governments; custom fees to the Federal government.

Port of Baltimore allows business to get their goods into the market-place quickly and with competitiveness. Tug-boats are one of the cogs of cargo movements and day to day port operations.



## Port of Baltimore: Ref: State of Maryland



**Helene Delrich Bently Port Terminal Map**





# DELAWARE RIVER 101

## Frequently Used Acronyms

<b>A/LM</b> Bureau of Administration, Office of Logistics Management	<b>ATB</b> Articulated Tug & Barge	<b>CISA</b> Cybersecurity and Infrastructure Security Agency
<b>ABS</b> American Bureau of Shipping	<b>ATD</b> Actual time of departure	<b>CPSC</b> Consumer Product Safety Commission
<b>ACE</b> Automated Commercial Environment	<b>ATF</b> Bureau of Alcohol, Tobacco, Firearms and Explosives	<b>DCMA</b> Defense Contracts Management Agency
<b>ACOE</b> Army Corps of Engineers	<b>BCO</b> Beneficial Cargo Owner	<b>DDTC</b> Directorate of Defense Trade Controls
<b>ADA</b> Actual date of arrival	<b>BIS</b> Bureau of Industry and Security	<b>DEA</b> Drug Enforcement Administration
<b>ADD</b> Actual date of departure	<b>BLS</b> Bureau of Labor Statistics	<b>DeIDOT</b> Delaware Department of Transportation
<b>AI</b> Artificial Intelligence	<b>BOEM</b> Bureau of Ocean and Atmospheric Management	<b>DEMA</b> Delaware Emergency Management Agency
<b>AIS</b> Automatic Identification System	<b>BTS</b> Bureau of Transportation Statistics	<b>DHS</b> Department of Homeland Security
<b>AMS</b> Agricultural Marketing Service (USDA)	<b>BUDM</b> Beneficial Use of Dredged Material	<b>DIS</b> Document Imaging System (CBP)
<b>APHIS</b> Animal Plant and Inspection Service (USDA)	<b>CBP</b> Customs and Border Protection	<b>DNREC</b> Delaware Department of Natural Resources & Environmental Control
<b>AQI</b> Agriculture Quarantine Inspection (USDA)	<b>CDC</b> Center for Disease Control and Prevention	<b>DWT</b> Dead Weight Tonnage
<b>ATA</b> Actual time of arrival or American Trucking Assn.	<b>CFS</b> Consolidated Freight Station or Container Freight Station	



**EDA**  
Estimated date of arrival

**EDD**  
Estimated date of departure

**EDI**  
Electronic Data Interchange

**EIA**  
Energy Information  
Administration

**ETA**  
Estimated time of arrival

**FDA**  
Food and Drug  
Administration

**FEU/FFU**  
Forty-foot Equivalent Unit

**FinCEN**  
Financial Crimes  
Enforcement Network

**FMC**  
Federal Maritime  
Commission

**FMCSA**  
Federal Motor Carrier Safety  
Administration

**FSIS**  
Food Safety and Inspection  
Service (USDA)

**FTZB**  
Foreign Trade Zones Board

**FTZ**  
Foreign Trade Zone

**FWS**  
Fish and Wildlife Service

**GIS**  
Geographic Information  
System

**IA**  
Import Administration

**ILA**  
International  
Longshoremen's Association

**ILO**  
International Labor  
Organization

**ISO**  
International Organization for  
Standardization

**ITB**  
Integrated Tug and Barge

**ITC**  
International Trade  
Commission

**LO/LO**  
Lift on/Lift off

**LOA**  
Length Overall

**MARAD**  
U. S. Maritime Administration

**MHW**  
Mean High Water

**MLW**  
Mean Low Water

**MS/MV**  
Motor Ship/Motor  
Vessel

**NRC**  
Nuclear Regulatory  
Commission

**NOAA**  
National Oceanic and  
Atmospheric Administration

**NOS**  
National Ocean Service

**NVOCC**  
Non-Vessel Operating  
Common Carrier

**OEM**  
Original Equipment  
Manufacturer

**OES/OCM**  
Bureau of Ocean and  
Internal Scientific Affairs

**OFAC**  
Office of Foreign  
Assets Control

**OFE**  
Office of Fossil Energy

**OGC**  
Office of General Council

**OSW**  
Offshore Wind

**PADEP**  
Pennsylvania Department of  
Environmental Protection

**PEMA**  
Pennsylvania Emergency  
Management Agency

**PennDOT**  
Pennsylvania Department of  
Transportation

**PHMSA**  
Pipeline Hazardous Material  
Safety Administration

**PIDP**  
Port Infrastructure  
Development Program

**PPQ**  
Plant Protection and  
Quarantine (USDA)

**PSGP**  
Port Security Grant Program



**RO/RO**

Roll-On/Roll-Off (vessel)

**RTG**

Rubber-Tired Gantry (crane)

**SCAC**

Standard Carrier Alpha Code

**TEU**

Twenty-foot Equivalent Unit

**TTB**

Alcohol and Tobacco Tax and Trade Bureau

**TWIC**

Transportation Worker Identification Credential

**ULCV**

Ultra-Large Container Vessel

**USACE**

U.S. Army Corps of Engineers

**USAID**

U.S. Agency for International Development

**USCB**

U.S. Census Bureau

**USCG**

U.S. Coast Guard

**USDA**

U.S. Department of Agriculture

**USTR**

U.S. Trade Representative

**VECS**

Vessel Entrance and Clearance System

## Collaboration

Tug-boat dispatching requires collaboration among different firms, agencies, organizations and others entities.

Dispatchers should have a working understanding of other tug-boat firms and their resources.

Dispatchers get to know others in the spirit of presence and abilities.

This attitude organizes and carries out the carriage of goods as efficiently as feasible.

Other tug-boat firms on the Delaware River and the Port of Baltimore. Common everyday interactions take place among dispatchers on the Delaware River and in the Port of Baltimore. A partial list is shown.

Moran Tug-boats

Wilmington Tug-boats

Hayes Tug-boats

Philadelphia Barge

Crowley



**Annabelle Dorothy Moran**

ASD Tractor Tug  
5,100 HP



Tug dispatching is a multifaceted process that requires a comprehensive understanding of Delaware River Ports, the Port of Baltimore and the C & D Canal.

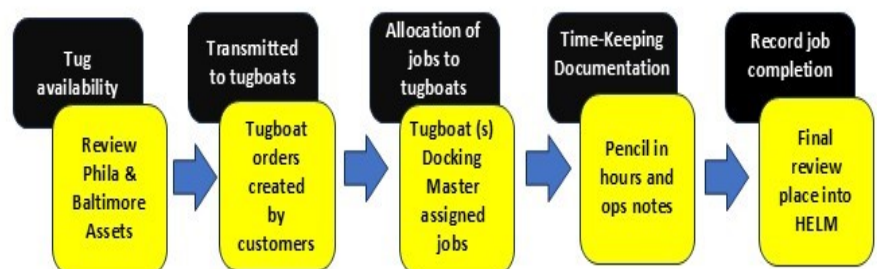
Tug-boat allocation/assignments involves determining where and when what type of tug-boats are needed.

Port dynamics vary from the Delaware River to the Port of Baltimore. Different Port dynamics create additional issues for tug-boats. The volume of incoming vessels, the size, and types of vessels, and port-specific infrastructure all contribute on how tug-boats are assigned to different jobs.

Youve made it this far in your reading! Remaining is an appendix of maritime terms, the heritage of respective maritime exchanges, sketches of tug-boats maneuvers and comments on professionalism. A career in the maritime is robust, enjoyable and a challenge. Discover ways to wind down after your watch.

The demand for tugs is inherently variable and influenced by the type and frequency of vessel arrivals and departures. Operational requirements tied to vessel movements impact tug-boat assignments. Port regulations, shipping agents and the docking masters dictate the number of tug-boats needed for specific jobs. Only certain tugs can perform specific jobs at specific piers and terminals.

Flowchart illustrates the general process of dispatching





This is an inclusive listing of maritime terms.  
There are some terms you will never use.

## DELAWARE RIVER 101

### Key Maritime Terms

<b>Adrift</b>	Without motive power and neither anchored or moored
<b>Aft</b>	At or toward the back/stern of the vessel
<b>Allision</b>	The striking of a vessel against a fixed object
<b>Anchor</b>	A heavy object attached to a vessel which is thrown overboard to prevent drift
<b>Anchorage</b>	An area suitable for a ship to lay anchor
<b>Army Corps of Engineers</b>	The department of the U.S. Army responsible for flood protection and providing safe navigation channels, building and maintaining shipping channels and levees, floodwalls, and spillways that keep major rivers out of low-lying communities
<b>Backhaul</b>	To haul a shipment back over part of a route which it has already traveled; a marine transportation carrier's return movement of cargo, usually opposite from the direction of its primary cargo distribution
<b>Barge</b>	A large, flat-bottomed boat used to carry cargo from port to shallow-draft waterways; barges that are not ocean-going have no locomotion, pushed by towboats, and carry dry bulk and liquid bulk cargo
<b>Berth</b>	The wharf space at which a ship docks; a wharf may have one or multiple berths
<b>Bill of lading</b>	A contract between a shipper and carrier listing terms for moving freight between specific points; document of title
<b>Bollard</b>	A line-securing device on a wharf around which mooring and berthing lines are fastened
<b>Bonded warehouse</b>	A building designated by customs & border protection for storage of goods without payment of duties until goods are moved
<b>Box</b>	An alternative term for shipping container
<b>Bow</b>	The front of the vessel
<b>Breakbulk cargo</b>	Non-containerized general cargo stored in boxes, bales, pallets, or other units to be loaded onto or discharged from ships or other forms of transportation (examples: iron, steel, machinery, and wood pulp)
<b>Bulk cargo</b>	Loose cargo (dry or liquid) that is loaded (shoveled, scooped, forked, mechanically conveyed, or pumped) in



double facing page

	volume directly into a ship's hold (examples: grain, coal, or oil)
<b>Bulkhead</b>	A structure used to protect against shifting cargo and/or separate the load
<b>Buoys</b>	Floats that warn of hazards such as rocks or shallow ground to help ships maneuver through harbors
<b>Capacity</b>	The available space for or ability to handle freight
<b>Captive cargo port</b>	A term describing when most of a port's inbound cargos are being shipped short distances and most of its export products come from nearby areas
<b>Cargo</b>	The freight (goods) carried by a ship, barge, train, truck, or plane
<b>Carrier</b>	An individual, partnership, or corporation engaged in business of transporting goods or passengers
<b>Chandler</b>	A supplier (groceries, paper products, engine parts, electronics, hardware) to a ship or its agent
<b>Chock</b>	A piece of wood or other material put next to cargo to prevent it from shifting
<b>Clerk</b>	An individual who checks the actual count of the goods (number of boxes, drums, bundles, pipes, etc.) Versus the amount listed on the ship's manifest when cargo is unloaded, noting shortages, overages or damage to make claims if needed
<b>Common carrier</b>	A shipping, trucking, railroad, barge line and some pipelines, licensed to transport goods or people
<b>Consignment</b>	A shipment of goods, the buyer of which is the consignee, the seller is the consignor
<b>Consolidator</b>	A person or firm that combines cargo from a number of shippers into a container that will deliver the goods to several buyers
<b>Con/RO</b>	A hybrid of a RO/RO (see below) and a container ship that has a below-deck area used for vehicle storage while stacking containerized freight on the top decks
<b>Container</b>	A box made of aluminum, steel, or fiberglass used to transport cargo by ship, rail, truck, or barge
<b>Container freight station</b>	The facility for stuffing and stripping a container of its cargo
<b>Container crane</b>	A large piece of equipment used in ports and shipping terminals to move cargo containers from ships to the shore and vice versa



<b>Container terminal</b>	A specialized facility where ocean container vessels dock to discharge and load containers, equipped with cranes with a safe lifting capacity
<b>Containerization</b>	The technique of using containers to store, protect, and handle cargo while it is in transit, a shipping method that has expedited the speed at which cargo moves from origin to destination and lowered shipping costs
<b>Contraband</b>	Goods prohibited in trade (weapon going to Iran, anything to Cuba), smuggled goods
<b>Craft</b>	A boat, ship, or plane
<b>Customs</b>	A duty tax on imported goods
<b>Customs broker/ Customhouse broker</b>	A licensed individual who prepares needed documentation for importing goods (as a freight forwarder does for exports.), filing entries and other information related to documentation, cargo clearance, trade/quote requirements
<b>Dead weight tonnage (dwt)</b>	The maximum weight of a vessel including vessel, cargo, and ballast; the difference between a ship's displacement light and displacement loaded
<b>Deck barge</b>	A vessel which transports heavy or oversize cargos mounted to its top deck instead of inside a hold (examples: machinery, appliances, project cargos, recreational vehicles)
<b>Demurrage</b>	A penalty fee assessed when cargo remains on a wharf after the free-time allowance ends
<b>Dock</b>	A structure built along or at an angle from a navigable waterway so vessels may lie alongside to receive or discharge cargo
<b>Dockage</b>	A charge by a port authority for the length of water frontage used by a vessel tied up at a wharf
<b>Draft</b>	The depth of a vessel in the water taken from the level of the waterline to the lowest point of the hull of the vessel; depth of water, or distance between the bottom of the ship and the waterline
<b>Dredge</b>	(Noun) a waterborne machine that removes unwanted silt accumulations from the bottom of a waterway; (verb) the process of removing sediment from harbor or river bottoms for safety purposes and allow for deeper vessels
<b>Dry bulk</b>	Cargo (e.g., minerals or grain) stored in loose piles moving without mark or count



	vessel's enclosed spaces; it applies to cargo
<b>Harbor</b>	A place of security and comfort, refuge; a water protected and deep enough to furnish anchorage
<b>Heavy lift</b>	Very heavy cargo that require specialized equipment to move, such as shipboard or shore cranes, floating cranes, and lift trucks
<b>Hopper car</b>	A freight car used for handling dry bulk, with an openable top and one or more openings on the bottom through which the cargo is dumped
<b>Intermodal</b>	Involving two or more different modes of transportation in conveying goods
<b>Intermodal shipment</b>	When more than one mode of transportation is used to ship cargo from origin to destination
<b>Knot</b>	A measure of ship's speed equaling one nautical mile per hour
<b>Labor union</b>	An organization of workers formed to serve members' collective interests with regard to wages and working conditions, including such maritime unions as the ILA and ILWU
<b>Launch service</b>	A company offering "water-taxi" service to ships and anchorages
<b>League</b>	A measurement of depth equal to three nautical miles
<b>Length overall (LOA)</b>	Linear measurement of a vessel from bow to stern
<b>Lift on/ lift off (LO/LO)</b>	A cargo-handling technique involving transfer of commodities to and from the ship using shore side cranes or ship's gear
<b>Long ton</b>	A unit of measure equaling 2,240 pounds
<b>Longshore worker</b>	An employee who loads and unloads ships or performs administrative tasks associated with the loading or unloading of cargo
<b>Manifest</b>	The list of individual goods that make up the ship's cargo
<b>Marine surveyor</b>	A person who inspects a ship hull or cargo for damage and quality
<b>Master</b>	The officer in charge of the ship, usually the captain
<b>Marshalling yard</b>	A container parking lot or open area where containers are stored in a precise
<b>Mean low water (MLW)</b>	The lowest average level water reaches on an outgoing tide



<b>Project cargo</b>	Large/oversized, heavy-duty, high value, or complex pieces of equipment, such as wind turbine blades and tractors
<b>Reefer</b>	A container or ship with refrigeration for transporting perishable and frozen foods (meat, ice cream, fruit, etc.)
<b>Refrigeration or reefer units</b>	The protective cooling of perishable freight by ice, liquid nitrogen, or mechanical devices
<b>Roll on/roll off (RO/RO)</b>	A ship designed with ramps that can be lowered to the dock so cars, buses, trucks, or other vehicles can drive into the hold rather than be lifted aboard
<b>Rubber-tired gantry (RTG) crane</b>	Cranes designed for the swift movement and stacking of containers in ports, with the added advantage of mobility on rubber tires
<b>Sheddage</b>	A one-time fee charged to a ship for use of shed space and/or waterside rail track space
<b>Short ton</b>	A measure equaling 2,000 tons
<b>Spreader</b>	A device for lifting containers by their corner posts
<b>Starboard</b>	The right side of vessel when facing forward
<b>Steamship</b>	Ships powered by steam, sometimes used generically to refer to cargo ships of any type
<b>Steamship agent</b>	A local representative acting as a liaison among ship owners, local port authorities, terminals, and supply/service companies and handles details for ship arrival/departure, cargo inspections, arranges pilots/tugs, and other functions; ensures crew is supplied with food, water, mail, medical services, etc.
<b>Steamship company</b>	A business owning ships that operate in international trade
<b>Steamship line</b>	An ocean carrier service running on a specific, scheduled international route
<b>Stern</b>	The rear of a vessel
<b>Stevedore</b>	The act of loading/unloading cargo or a company that hires labor to do so
<b>Stripping</b>	The process of removing cargo from the container
<b>Straight bill of lading</b>	A document that covers the shipment of goods from the point of origin to the final destination without any stops in between
<b>Stuffing</b>	The process of packing a container with loose cargo prior to inland or ocean shipment



---

<b>Tank barges</b>	Used for transporting bulk liquids, such as petroleum, chemicals, molasses, vegetable oils and liquefied gases
<b>Tariff</b>	A schedule of duties imposed by a government on imported/exported goods; also, the charges, rates and rules of a transportation company as listed in published industry tables
<b>Terminal operator</b>	The company that manages cargo handling activities at a port, overseeing unloading cargo from ship to dock, checking the quantity of cargos versus the manifest, transferring of the cargo into a warehouse, shed, checking documents authorizing truckers to pick up the cargo, overseeing the loading/unloading of railroad cars, etc.
<b>Through bill of lading</b>	A document that covers the shipment of goods from the point of origin to the final destination (door-to-door or door move)
<b>Tow boat</b>	A snub-nosed boat with push knees used for pushing/pulling barges
<b>Tramp ship</b>	A ship operating with no fixed route or published schedule
<b>Transit port</b>	A place from and/or to which the majority of cargos are not coming or destined, also known as a "through port"
<b>Transshipment</b>	The unloading of cargo at a port or point where it is then reloaded, sometimes into another mode of transportation, for transfer to a final destination
<b>Tug boat</b>	A strong v-hull shaped boat used for escorting, guiding, docking, and undocking ships
<b>Twenty-foot equivalent unit (TEU)</b>	A unit of measurement equal to the space occupied by a standard twenty-foot container; used to define the capacity of container vessels or storage area
<b>Forty-foot equivalent unit (FEU/FFE)</b>	A unit of measurement equal to the space occupied by a standard forty-foot container
<b>Unit weight</b>	A term frequently used in break bulk shipping where commodities are inherently unitized, (e.g. Pallets of fruit, bags of cocoa, bales of wood pulp, coils of wire rod, et al) knowledge of average unit weight is helpful in determining stevedoring production and projecting work hours for vessel operations. Knowledge of actual unit weight is absolutely necessary to properly prepare lifting gear and equipment so as to stay within load weight limitation.
<b>Vessel</b>	A craft for traveling on water, usually larger than a rowboat; a ship or boat

**Vessel operator**

A firm that charters vessels for its service requirements, handled by their own offices or appointed agents at ports of call; may also manage vessel on behalf of the owners

**Warehouse**

A place in which goods or merchandise is stored

**Way bill**

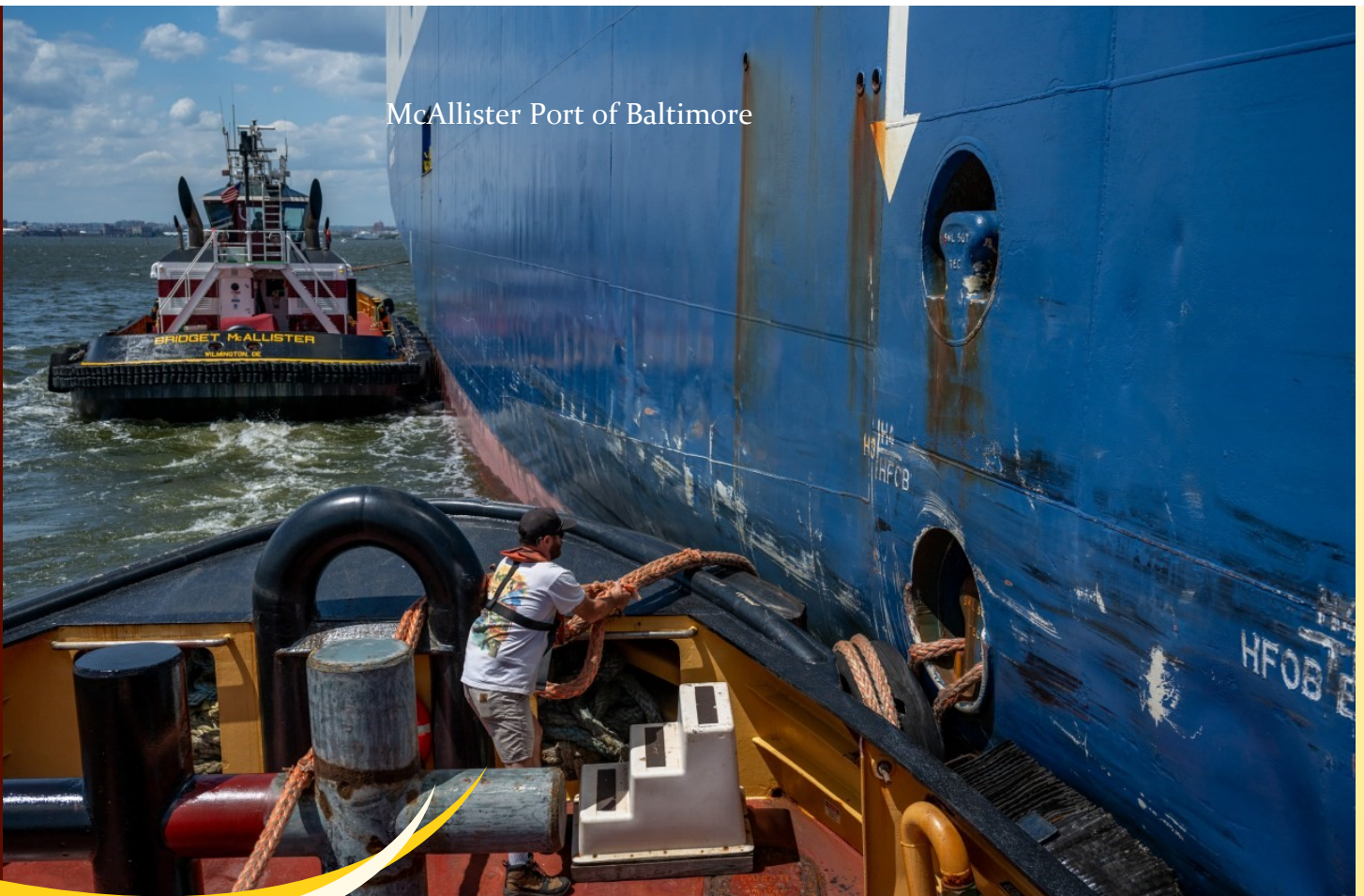
The document used to identify the shipper and consignee, present the routing, describe the goods, present the applicable rate, show the weight of the shipment, and make other useful information notations

**Wharf**

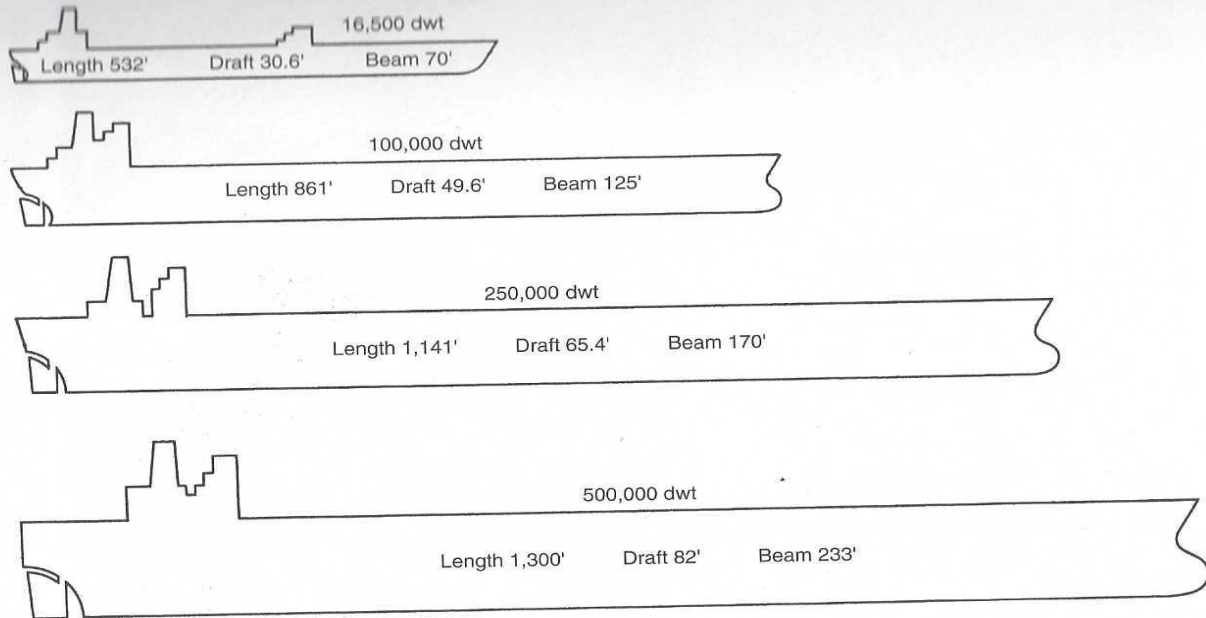
The place at which ships tie up to unload and load cargo, typically having front and rear loading docks (aprons), a transit shed, open (unshedded) storage areas, truck bays, and rail tracks

**Wharfage fee**

A charge assessed to a vessel for using space along the wharf



## Dispatchers Note: Diagrams of different size vessels.



## Relative Size of tankers. Different tankers require different number of tug-boats

**Tug-boating is complex.**

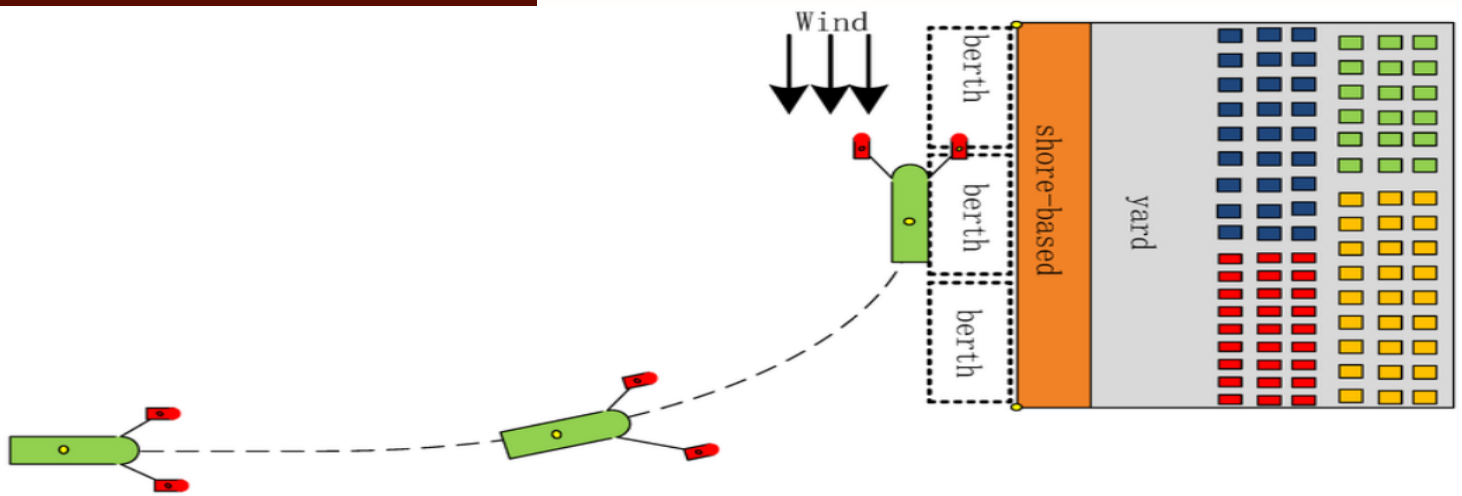
It is beyond the scope, purpose and intent of this booklet to discuss anything related to day-day to tug-boat operations.

That is best left for those on the boats, in operations and engineering, proper.

These drawings show the scale of tankers, how tug-boats work, how tug-boats are involved in mooring complexities. Dispatchers need to be aware that different vsls require different tug-boats

**Tug-boat crews operate under a very fixed schedule. Best practice is not to disrupt established tug-boat crewing and other operational considerations.**

## Dispatchers Note: Diagrams of tug-boat operations.



Schematic diagram of tugboat assisting ship maneuvering.

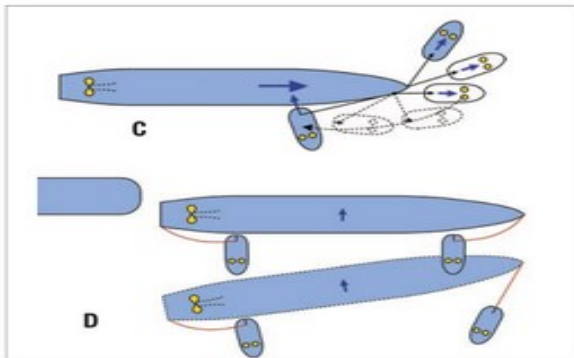


Figure 2B.25C and D: Fast forward/aft: Changing position to come alongside for pushing. To be done at low speeds, up to about 2 knots.

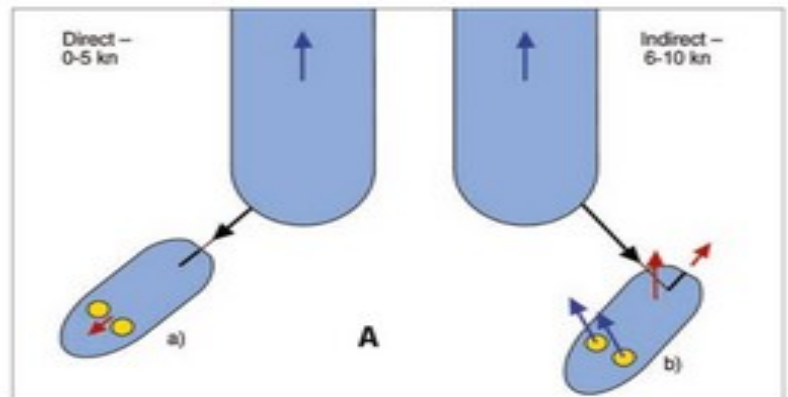


Figure 2B.25A: Direct and indirect assist modes.

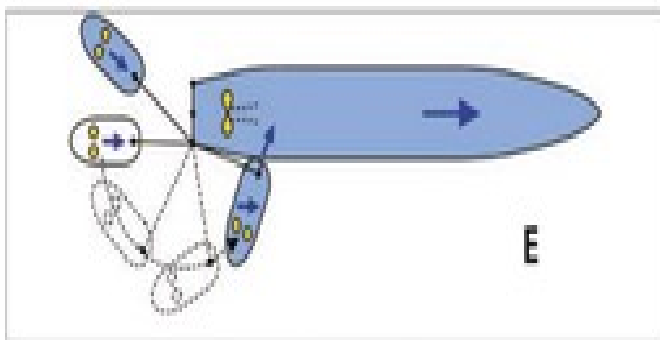


Figure 2B.25E: Push-pull while berthing.

Dispatchers frequently have to relay on various parties to know what side a vessel is being berthed or tied off for loading/unloading.

That info comes from the agents, Ship Captains, Docking Masters and Pilots.

Port Side To (PST)  
Starboard Side To (SST)

**Dispatchers Note:  
Example of a Mooring Diagram**

**Broken mooring lines  
are a source of tug-boat  
jobs.**

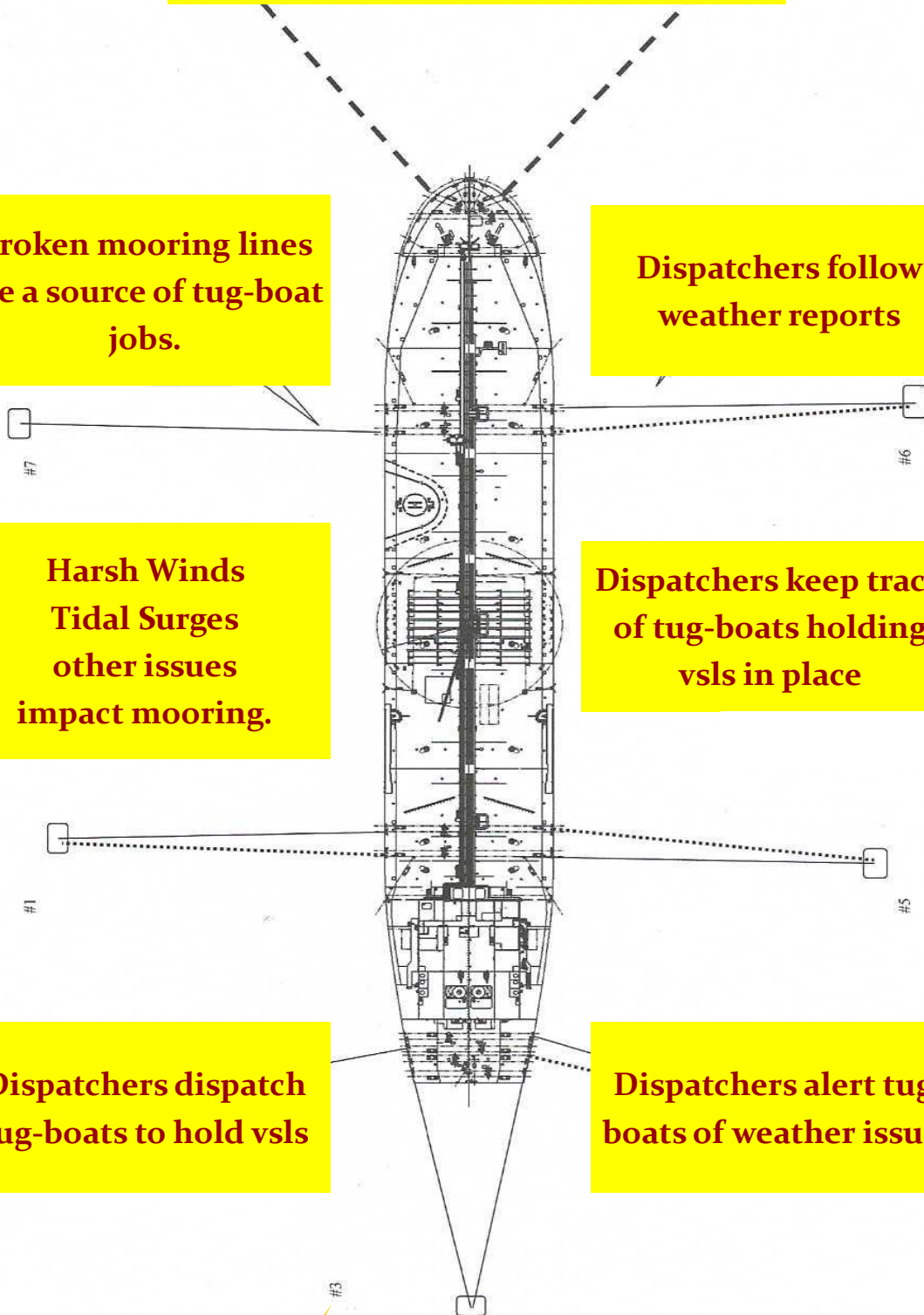
**Dispatchers follow  
weather reports**

**Harsh Winds  
Tidal Surges  
other issues  
impact mooring.**

**Dispatchers keep track  
of tug-boats holding  
vsls in place**

**Dispatchers dispatch  
tug-boats to hold vsls**

**Dispatchers alert tug-  
boats of weather issues**



## Dispatchers Stay Informed

Dispatchers are the “nerve center” of tug-boat operations . You will have numerous e-mails and messages that pass across your desk. The relevance of this information, “beta” , is dependent on the message itself . Some messages have little or no relevance to actual dispatching. Some messages/e-mails require additional skills, education and practical knowledge. Reviewing material that you encounter enhances your awareness of issues and concerns around these Ports .

As an example: NOAA Bulletins are posted in the messages, A common one concerns the Northern Right Whale.



Search NOAA Fisheries



ENDANGERED SPECIES CONSERVATION

### Reducing Vessel Strikes to North Atlantic Right Whales

North Atlantic right whale vessel speed restrictions reduce the likelihood of lethal collisions between vessels and these endangered whales.

### Seasonal Management Areas - Mid-Atlantic



**Dispatchers Note:** Where do vessels come from? Where do vessels go? What does their vessel name mean?

When you get comfortable with dispatching there are always ways to enhance your knowledge of the maritime.

One fun, little, ole mental exercise to work out are vessels names. Look up the vessel name. See where they are coming from, what cargos might they be carrying into what terminals. Background info allows you see these connections first hand, anticipate the number of tugs needed and introduces you to ULCV - Ultra Large Container Vessels.

## Knowledge of Territory and Areas of Operations

Dispatchers should be familiar with locations around the Delaware River and the Port of Baltimore. Dispatchers should know time required of jobs, locations of terminals, where tug-boats are going, what information is needed to provide times of jobs and are used. Dispatchers should be aware of what areas have navigation limits, or where special instructions are required for tug-boat operations, for instance “tide-jobs”.

**Dispatchers Note:**

**New York Harbor  
North River also called the Hudson River**



This chart is an example of an area outside of the Philadelphia Area of Operations

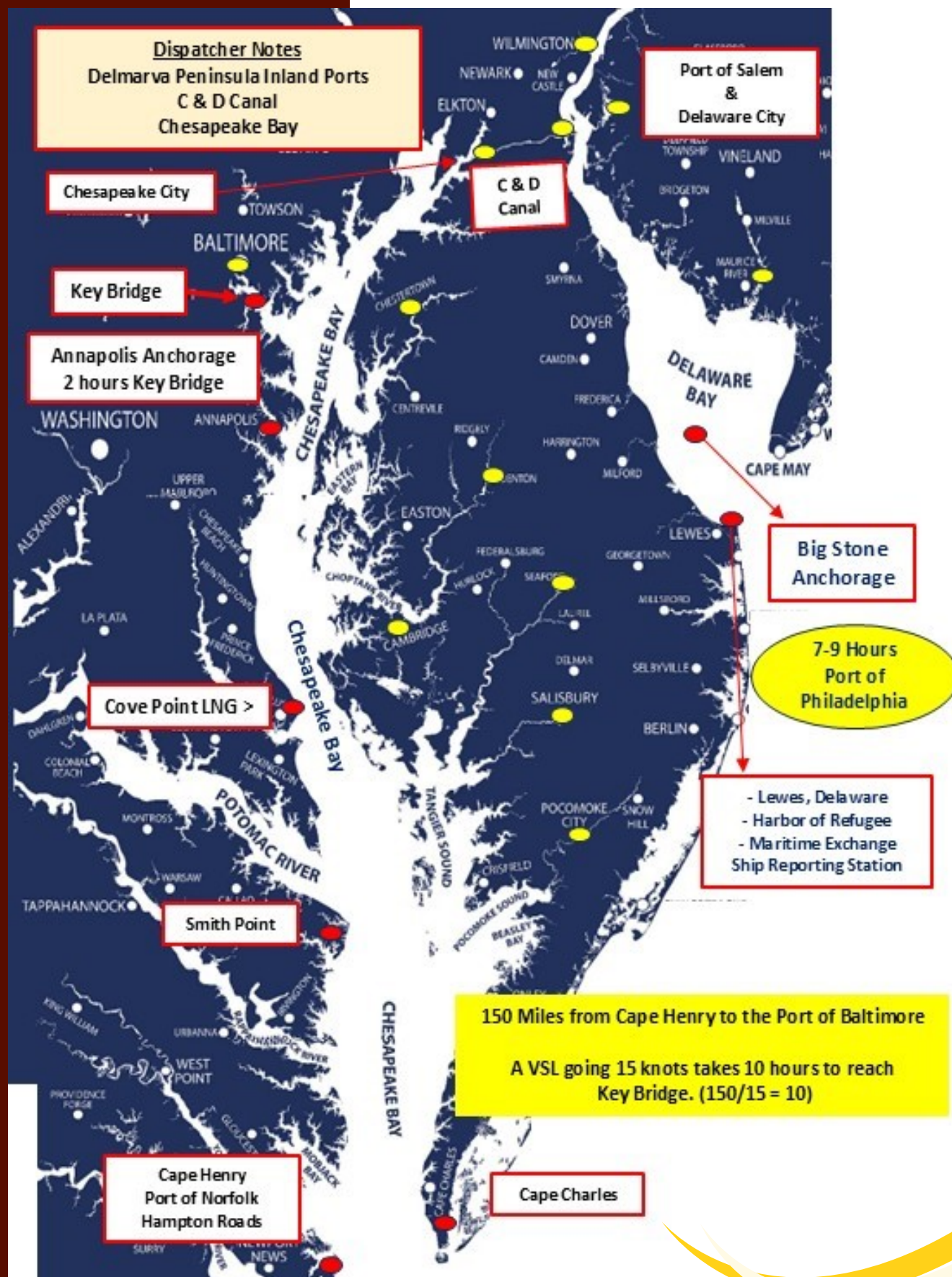
### Dispatchers Stay Informed

Dispatchers should stay informed about issues that are taking place in and around areas of operations. Dispatchers have to plan in advance and take into consideration details that will impact tug-boats and vessel movements.

Plans change. Plans are flexible. Plans are updated. Plans guide your actions as a dispatcher.

Dispatchers knowledge of area of operations extends beyond the Delaware River and Port of Baltimore. A dispatcher should be aware of what local and regional issues affect tug-boat movements.

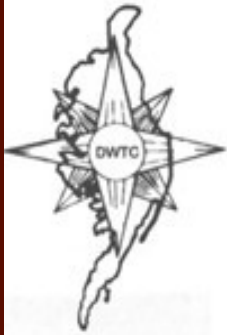
Dispatching is critical to the safety and efficiency of tug-boat and maritime operations. Dispatchers work out ways to anticipate areas that change, monitor maritime traffic, tug-boat movements and anticipate further actions, consult with numerous others to gain an early indication of dispatching issues and concerns, and are proactive.



# PORT OF SALISBURY

## HOME OF MARYLAND'S 2ND LARGEST PORT

The Wicomico River, specifically port terminals in Salisbury constitute Maryland's second busiest port by tonnage, after Baltimore, and the port area plays an important role in supplying fuel, aggregate, and agricultural products to the Delmarva peninsula. The Wicomico River's navigable channel is congressionally authorized to be maintained up to a depth of 14 feet, with a width up to 150 feet. Currently, the terminals on the Wicomico River are privately owned and operated, and the cargo they handle is dedicated to their respective firms. However, there may be benefits to providing additional industries on the Delmarva peninsula with opportunities to access to barge shipping through the creation of a publicly-owned multi-user port terminal. Ref: Port of Salisbury



Since 1974 the Delmarva Water Transport Committee has proudly represented hundreds of businesses on the Delmarva Peninsula. DWTC provides a collective voice in expressing concern, opposition, or support on waterway issues affecting our members that arise before various government bodies. We continue to work closely with the U.S. Army Corps of Engineers, U.S. Coast Guard, and local and state governments on matters concerning Eastern Shore waterways.



## Dispatch Efficiency

Efficient dispatch operations are critical to the success of tugboat movements. Dispatchers play a vital role in ensuring that jobs are delivered on time, reducing the risk of delays, and minimizing costs. Dispatchers proactively managing potential issues, and help to maintain a competitive edge in the maritime.

Dispatch refers to the process of coordinating tugboat jobs. The full scope extends beyond just transportation and encompasses a range of activities crucial to the tugboat and shipping industry. Dispatch plays a pivotal role in ensuring timely and efficient movements of cargo vessels.

**Professional dedicated tug-boat dispatchers are assigned to every maritime cargo movement as a single point of contact.**

**Dispatchers have an enhanced awareness of the local and regional maritime trade and marine highway that promotes organizational best practices and interests.**





Philadelphia Port 1859

## Baltimore Maritime Exchange

**Founded 1790, their mission is to provide accurate, timely, and actionable information that supports safe, efficient, and environmentally sound maritime operations.**

**Today, BME leverages advanced technology to track vessel movements days in advance, not just hours. 24/7 access to real-time updates on vessel arrivals, shifts, and departures—empowering them to plan ahead and respond quickly to changes.**

**This is the central communications hub, sharing critical updates on weather conditions, marine incidents, and other events—like the pandemic—that impact port operations.**

## Philadelphia Maritime Exchange



Founded in 1875 the Exchange is a Delaware River maritime asset. The Exchange monitors and communicates vessel traffic, publishes a daily ship list of vessels movements on the Delaware. The Exchange is what allows dispatchers to track vessel movements; 24/7/365.

### The Way of the Ship, An Abundance of Plenty

Delaware River Ports and the Port of Baltimore are the fulcrum of East Coast maritime heritage. Since the late 1600's cargos have been sailed, barged or transferred via the tidewater into and out of these Mid-Atlantic Ports.

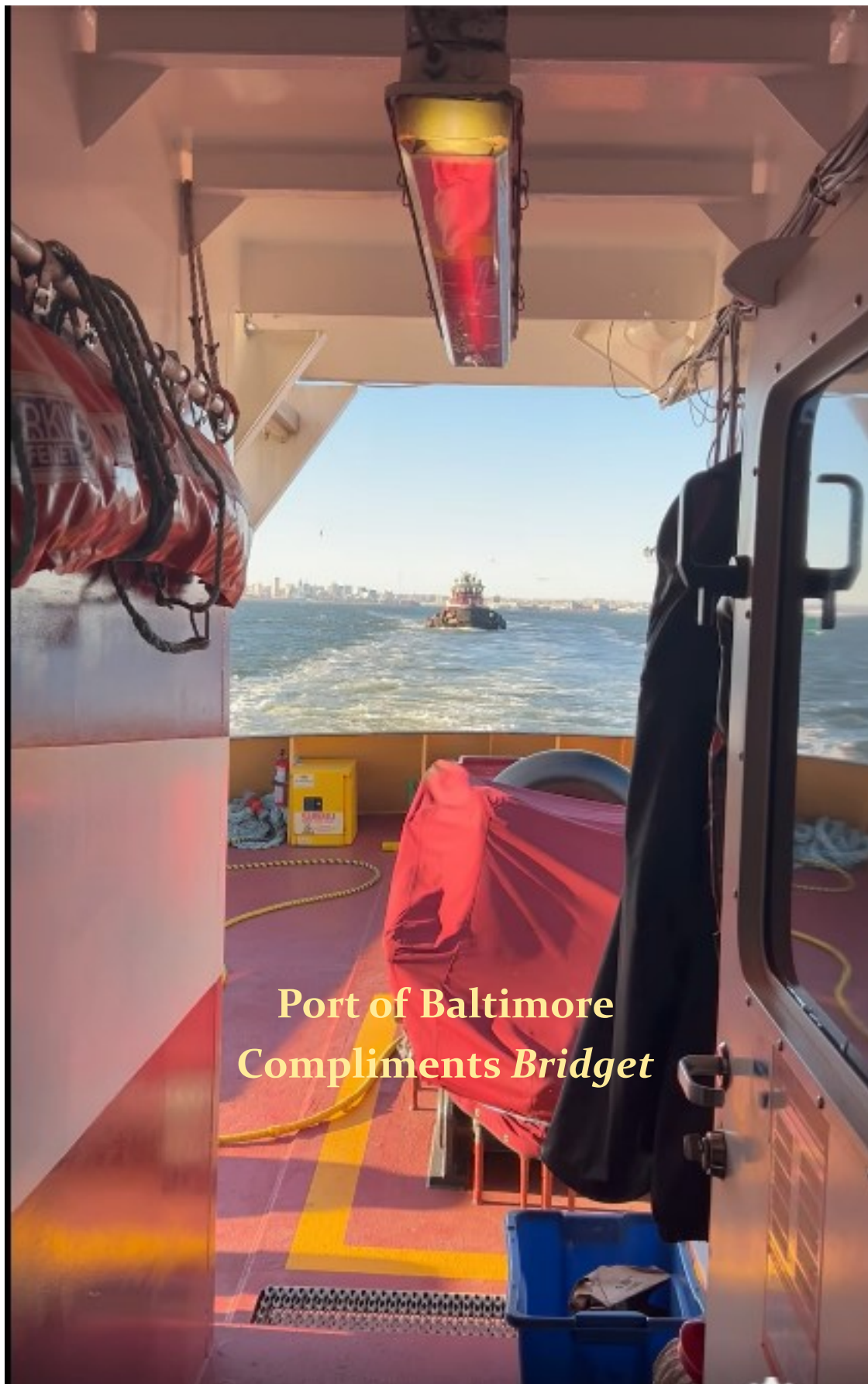
The central theme of tug-boats are people, crews, engineers' deckhands, Captains and Mates and numerous others in these port communities.

In this common ground of the maritime industry, traditions run deep.

While computers and social media eat away at these core values, ultimately your job as dispatcher is one of a pencil, a piece of paper, the connections with others and your personal interests in doing a job well done.

The general purpose of this booklet is to enhance your awareness of the maritime industry.

This booklet is a "dispatchers guide" along America's Mid-Atlantic maritime highway.



Port of Baltimore  
Compliments *Bridget*

end