

## Get ready before you take off!

- Nothing quite so satisfying as completing a trip
- Preparation and planning Safety, food, sleep...
- What do you do out at sea?

## What's it really like?

- WARNING Impossible to simulate the motion, or the feelings, but this presentation should be helpful to all trawlers owners whether or not you have ventured out of sight of land or not.
- I am a yacht broker! 30+ years of working with clients including dozens of offshore trips training owners out at sea have provided the basis for this information

#### Some questions...

- How many of you have been aboard out of sight of land?
- How many of you have been underway through the night?
- Anyone have experience with modern navigation electronics?
- How many have your own boat?
- Anyone have a Captains license?

#### About this presentation...

- \*Get familiar with your boat before you leave the dock.
- \*Your best strategy and my strongest recommendation learn it all!
- \*What to be aware of underway
- \*My boating background

#### HANDOUTS EMBEDDED -

This PowerPoint (PDF) and all handouts are available for your own private use. I will post on www.JMYS.com two weeks after class.

Please fill out your contact details on my mailing list form and I will email you a reminder

## Trawlerfest

**BOATSHOW • EDUCATION • RENDEZVOUS** 

**Heading Offshore - Handout Table of Contents – 2023** 

#### Cover page

- 1 Table of contents
- 2 Trawler Performance Table RPM
- 3 Owner Operator Hands on Knowledge
- 4 -Skipped missing page-
- 5 USCG Requirements (Northern Ranger II example)
- 6 Cruising Log Book Daily Report
- 7 Start Up Check list
- 8 Ready for Sea pre-Departure

#### You (the Owner) need training

- US Power Squadron = America's Boating Club
- Boating classes online, classroom
  - Anchoring
  - Docking
- Seamanship
- Weather
- Navigation
- Rules of the road

#### You (the Owner) need skills

- Charter? Crew with friends?
- Familiarity with machinery and operations
- Boat handling
- Hiring a Captain to train with you
- Education...online, local colleges, professional schools any suggestions from the class?
- Boaters University online

## Expert Instruction From The Brands You Trust.

#### **Offshore Cruising: Preparing Craft & Crew**

Preparation is key to successful cruising. Regardless of the size, make or model of your boat, understanding its critical systems and having a plan is crucial to keep your craft performing efficiently and safely. Join yacht broker, boatbuilder and TrawlerFest instructor Jeff Merrill in this exclusive online course designed to help you prepare yourself, your boat and your crew to get the most out of your offshore boating adventures.



#### Two excellent schools

Chapman's School of Seamanship Stuart, Florida 772.283.8130 | www.chapman.org/

Training Resources Maritime Institute
San Diego, California
(619) 263-1638 | www.trlmi.com

## YouTube videos

## OFFSHORE TRAINING





#### INSURANCE (for those shopping)

Getting coverage to be an owner operator has become more <u>difficult</u>.

Looking into insurance coverage NOW is just as important as figuring out the trawler you want to buy.

#### Your boat must be ready too!

- Learn RPM variations, speed and fuel burn (Develop a Performance Card Handout\* p. 2)
- Understand operation of every system
- Acquire the right tools, spare parts, etc.
- Routine maintenance: filters, fluids, impellers, etc.

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#### Tools

Keep the right tool near the service item







## Spare Parts and Service Manuals

(When you get a spare replace the existing item and keep the item that was in service as a spare)

















#### Organize your manuals

- Keep them in organized bins
- Go online to get electronic PDF versions
- Keep a list of vendors with contact information phone and email
- Manuals can help you stock spare parts and learn service intervals

## Vessel Vanguard - monitoring

You will be happier if you are organized

Do you like to create spreadsheets?

**Vessel Vanguard** offers a systematic maintenance system that is fantastic and worth considering.

#### Learning more about your boat

- USCG Auxiliary inspection?
- Through hulls and bilges
- Clean fuel. Fuel Valves, Tanks and Hoses
- How to "Stop" anchor and windlass
- Make sure you AND your trawler are ready to go BEFORE you take off...

#### Pre-departure preparation

- Book smarts <u>AND</u> practical experience
- Navigation & Communications equipment
- Checklists, maintenance procedures, routines
- Join Vessel Assist, Sea Tow, Tow Boat US
- You need to be mentally <u>and</u> physically ready, preparation provides peace of mind

#### Electrical Panel – understand each breaker



#### Owner Hands-on Knowledge

## Hand Out\* p. 3

7/5

For insurance coverage you need to be familiar with the items on the attached hand out, please review...



#### **JMYS Owner Operator Hands on Knowledge**

As the captain of your own yacht, you are responsible for the safety and well-being of all aboard. You should also realize the requirement for some basic Hands-On skills to keep your vessel operational. Most insurance underwriters require some essential skills for owners to be comfortable with. This is a simple summary of some important aspects you should be acquainted with:

#### Ships papers and documentation

USCG Document, Dinghy registration, personal papers for all crew members, etc.

#### Rules of the road

USCG navigation rules, buoys, lights, crossing situations (overtaking and bow to bow), etc.

#### Weather

How to use NOAA forecasts and other resources to anticipate conditions during your trip.

#### **Navigation**

Understanding of all navigation and communication equipment. How they are powered, how they are adjusted, set up for day mode and night mode, interactions between radar/plotter/autopilot, etc.

#### Safety

First aid, USCG requirements (flares, fire extinguishers, life jackets, etc.) life raft, EPIRB, abandon ship Ditch bag, etc. Fire suppression gear.

## Know before you Go...

- Simulate a "Day in the Life"
- Spend time aboard at the dock (24 hours)
- Anchor out overnight (pick a local spot)
- Learn where everything is and how it works, sounds, and how to service it
- Hire a captain to gain their insights
- The best thing you can do is use your boat locally, before you take off on a big trip

## USCG Requirements - example

\*Handout p. 4 - USCG Nordhavn 50
Good practice to identify all of the safety gear you have on board and note the location. This is a helpful quick reference document to have laminated and keep in your pilothouse.



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#### US Coast Guard Requirements EXAMPLE: Nordhavn 5017 Northern Ranger II

#### Minimum Coast Guard Safety requirements (and locations)

- 6 Ea. Type II life jackets dock box on boat deck
- 1 Ea. Bernard Oil Discharge placard ER door on inside
- 1 Ea. Bernard Waste Discharge placard under galley sink locker door
- 1 Ea. Safety blaster pilothouse starboard locker door under dash
- 1 Ea. Chrome bell-pilothouse inside (starboard side)
- 1 Ea. Jim Buoy Life ring (cockpit)
- 1 Ea. Flare kit-pilothouse wet hanging locker
- 5 Ea. Fire extinguishers (three required)
- a) Saloon aft locker by door
- b) Saloon stairs to pilothouse (outboard).
- c) Pilothouse forward stair locker starboard
- d) Master head forward

# Lifejackets – comfortable – wear them, don't forget kids and pets



## SOSpencers - inflatable life vest, comfortable, attach with tether to jack lines for on deck moving about





#### Personal Locator Beacons





# Weather Factors before you depart... Go/No Go parameters

- \*Sea state Swell 6' and smaller
- \*Period between Swells 8 seconds or longer
- \*Winds below Gale force (40 knots)
- \*Barometer dropping usually signifies stormy weather

#### Weather Websites

```
www.noaa.gov - National Weather service
www.buoyweather.com - Sea State
www.sailflow.com - Wind speed and direction
www.darksky.com - Local weather
www.intellicast.com - Weather
www.stormsurf.com - Weather
```



### Weather Forecasts Underway:

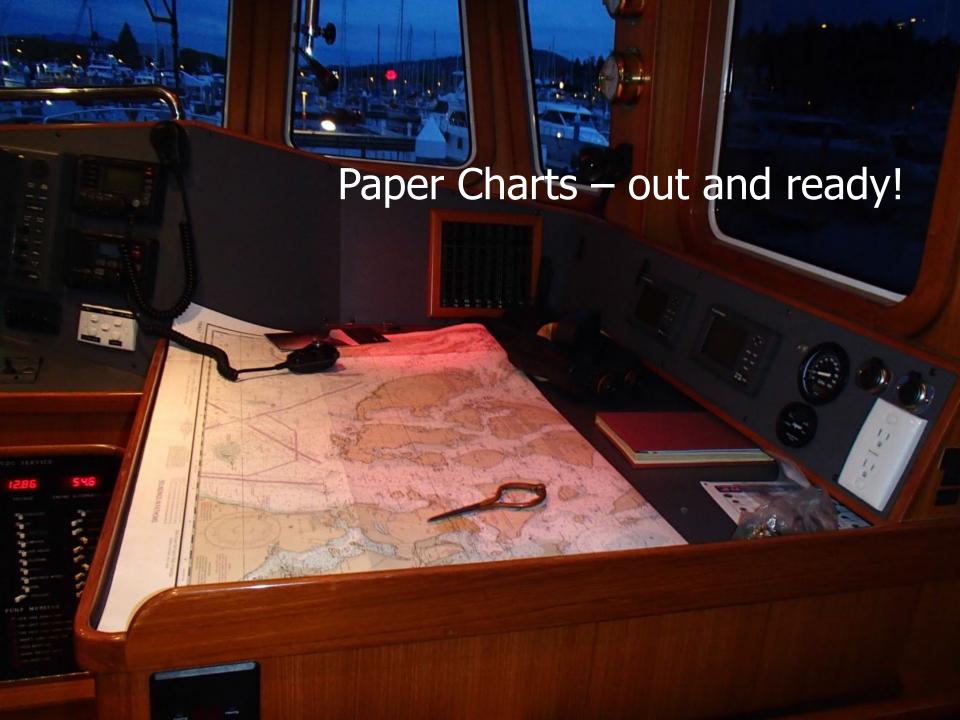
- \*IridiumGo (with Predict Wind offshore app)
- \*Satellite Radio XM/Sirius forecast service
- \*VHF channel 3 and 4
- \*Professional Weather Routers Chris Parker
- \*Internet, if you have it aboard

## Rough Weather Suggestions

- Anticipate and prepare, sometimes you have to go through it...it won't last forever
- Make sandwiches in advance
- Secure all moving parts
- Change course and/or reduce speed to make it a more comfortable ride
- Head back the way you came?

#### Basic Navigation — Paper Charts

- Know how to read a paper chart
- Continually cross reference with electronic charts
- Tools Dividers and Parallels
- Depth safe waters, shoals, etc.
- Shipping Lanes
- Obstructions, wrecks
- Buoys and aids to navigation
- Organize charts in the order you will use them



#### Pilothouse Tools

- Binoculars "long eyes"
- Night vision (FLIR), hand held monocular
- Barometer
- Clock local and GMT
- Calculator

#### Pilothouse Tools

- Closed Circuit TV
- Spot light built in, hand held

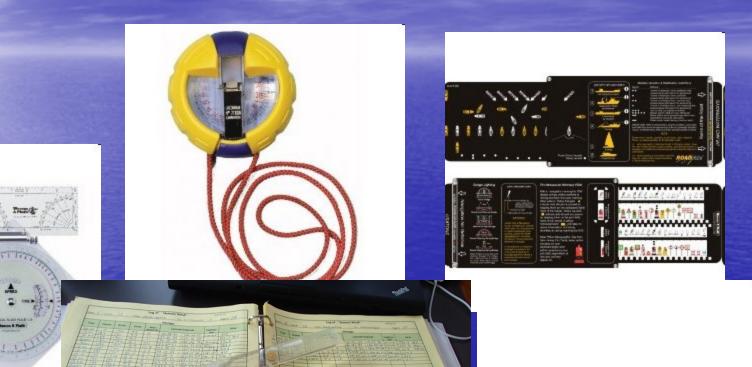
- Chart Guide
- Hand held compass

#### **Pilothouse Tools**

- Binoculars "long eyes"
- Night vision (FLIR), hand held monocular
- Closed Circuit TV
- Spot light built in, hand held
- Flash light, red lens
- Good pencil & sharpener

- Barometer
- Clock local and GMT
- Calculator
- Chart Guide
- Hand held compass
- Back up navigation on laptop
- Nav lights "slide rule"

## Navigation Tools







**Read The Factory Manual** 

Mar/Apr 2021

**Prized Pilothouse Possessions** 

Jan/Feb 2021

### Ships Log – buy or make your own

THE SHIP'S LOG

Date: Destination:

Skipper: Planned Port of Arrival:
Port of Departure: Acroal Time of Arrival:

## Cruising Log Handout\* P. 5

Date:	30 m	45' 12	From: 19	NA COVI	Autumn Wind" To:	Hull 621	ige # 12
					Pilotage:		
Time	Course	R.P.M.	Knots	Wind speed/dir	Latitude/longitude	Visibility/	Other
7:10		1450	11.2	9.71	48°17'50 / 122'50'95	CLUM	LV. DOCK
3:00	248	1450	8.5	5.4	48 2639 / 123 07 79	rencem	OVEVERST
0:30	SA	PETY 1	DEETIN	6	48-19-96 1		CAP. KIRK
2:00	265	1450	7.2	214	48 19 96 1 123 52.6	7 NUBL	57 Mi - JEFF.
1:00	260	1450	8.4	4K	42-23,96 /124,16.0		72.5
:00	250	1450	9.2	8.4	48 26 14 / 124 40 0		89
:00	182	1450	10.6	6.2	481299 1,24419		n
00	174	1450	6.4	5	480096 /124469	-	~
:00	160	1450	7.0	21	47 47 89 1124 39 8		12 131 NM
00	136	1450	7.4	15	47 33 96 1129 362	6 NIGH	T 145/94 gd
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Notes:

Barometer: Wave Height: Wind:
Narrative:

Places/Events to Remember: What and Where We Ate: Where We Shopped and What We Bought: Who We Met:



LOG BOOK & JOURNAL



CRUISING LOG BOOK DAILY REPORT					
Date:					
Starting location:	Dock Departure time:				
Destination:	Destination arrival ETA time:				
Departure Engine hours:	Sunrise:     Sunset:				
People on board:					
Float plan person called:	Departure Arrival				
Weather forecast:	Actual weather:				
Barometer:	Wind speed and direction:				
Sea conditions:	Wave height/chop/swell:				
Underway comments: Sights, events, places					

# Ships Log (Where are you?)

- Record your position, departure and arrival plus machinery hours of operation
- Hourly on the hour recordings
- Typical details Lat/Lon, speed, RPM, heading, miles offshore, distance to waypoint, wind and sea conditions

## Crossing Situations — Part One

- Identify Targets in advance (Head On and Overtaking)
- Hail on VHF 16 to discuss passing
- Pass Port to Port traditional

## Crossing Situations — Part Two

- Make your intentions clear –
   EXAGGERATE your heading
- Understand the rules for "Give Way" (You alter) vs. Stand On" (Maintain course and speed)
- Slow or change course to avoid a collision.
  Pass Behind! Crossing in front is scary...



- Autopilot modes: Auto,
   Standby and Nav
- Depth Sounder

- Radar Targets, Rings, AIS ship tracking Distance, CPA

VHF – 16, how to talk and switch channels

How to communicate

Chart Plotter – Waypoints, Routes

Chart and Radar overlay

- <u>Autopilot</u> modes: Auto,
   Standby and Nav
- Radar Targets, Rings,
   Distance, CPA
- <u>VHF</u> 16, how to talk and switch channels
- Chart Plotter Waypoints, Routes
- GPS Latitude/Longitude

- Depth Sounder
- AIS ship tracking
- Features:
- Chart and Radar overlay
- How to Dim
- How to Mute (Alarms)
- Waypoints / Route

#### VHF (Very High Frequency)

Primary source for ship to ship communications.





#### VHF Communications

- VHF radio Ship to Ship (line of sight)
- Hi vs. Lo settings (close range or far away)
- Weather channel on VHF (Channel 3 or 4)
- Radio check (Channel 27)
- Channel 22A "Twenty Two Alpha" USCG communications to a boat
- Working channels –switch to 68, 69, 71, 72, 78
- MOB Latitude/Longitude distress signal
- Fog horn, Hailer

## VHF — calling for Help

- This is like 9-1-1. Captain should make the call
- "Mayday Mayday" (Broadcast if you are in imminent danger and need immediate assistance)
- The USCG will ask... "Your coordinates?" "How many souls are aboard?" "Describe your boat colors"
- All crew will be asked to put on life jackets

# Depth Sounder Fish Finder shows bottom contours



# Depth

If you don't have water under the keel...

What does your boat draw?

- Set transducer to measure from keel
- Someday you will run aground (Tow Boat US/ Vessel Assist). Back off, wait for tides

#### GPS – Global Positioning System

Knowing your Latitude and Longitude is a key navigational development, surely much easier and more accurate than a sextant — revolutionary development — has allowed cruising to become more mainstream



## AIS (Automatic Identification System)

- Integrates a VHF transceiver with GPS coordinates and navigation sensors to "exchange" information between ships
- Details like ships name, length, speed, heading, destination – and time to closest possible approach
- Very helpful, don't forget Radar blips that are also targets without AIS



## AIS details



Beam Length Position Object Detail

266.1

EVER ELITE Name MMSI 235554000 COG 290.0 °T 16.8 kt ROT +0.0 °/m CPA 2.383 nm TCPA -1m41s Range 2.403 nm 209.3 °T Destination KAOHSIUNG Ais Status Normal

Ais Status Normal
Call Sign VSJG7
Beam 42.0 m

Position 48°19.9430' N; 124°05.9380' W

vStatus Under way using engine

#### RADAR



"Charts are legend, GPS is theory, Radar is TRUTH!" Author unknown

Radar rings help with distance (Zoom in and Zoom out frequently)

Targets – ARPA – Auto Radar Plotting Aids



#### Plotting: (Paper and Electronic Charts)

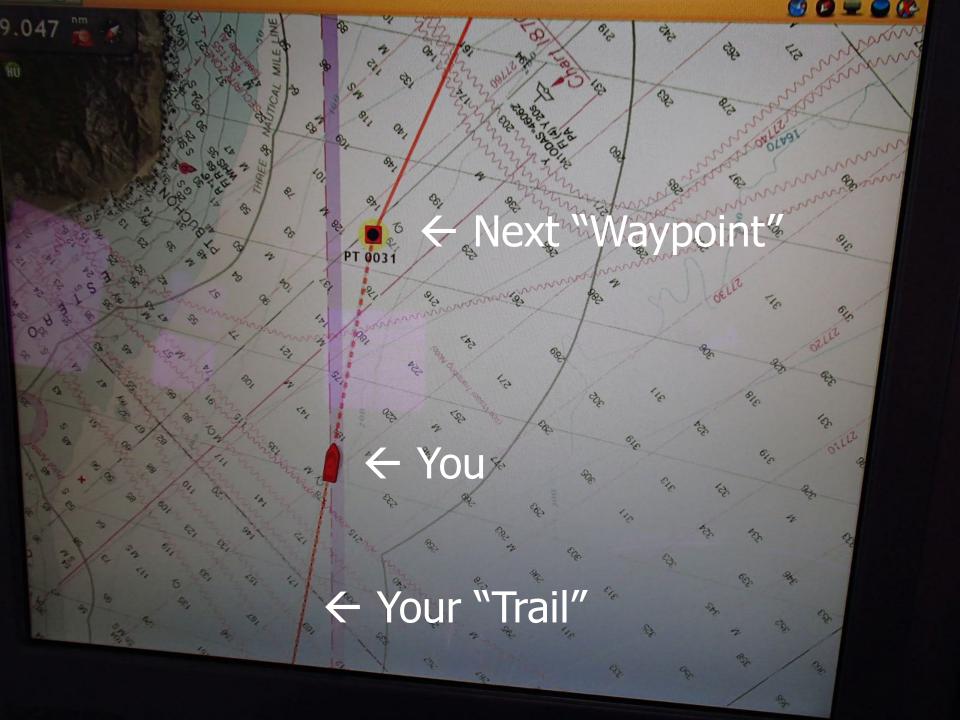
Hourly pencil Lat/Lon on Paper Chart

Paper Charts are a reliable back up if you lose electronic navigation plotting

Electronic charts are not fool proof...

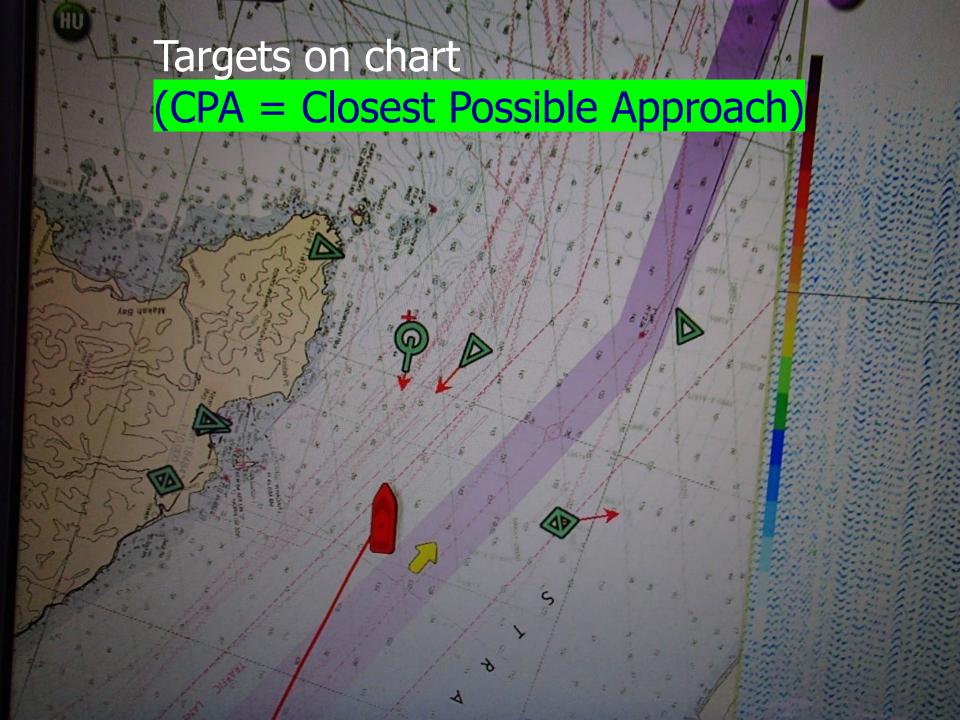
#### Chart Plotting – Electronic Chart features

- Set up Waypoints (GPS coordinates)
- Create a Route (connect Waypoints)
- Can save Routes, also pre-program trips
- Move Cursor and "Go-to" it on Chart
- Connect Autopilot to Navigate the Route
- Leave a "bread crumb" trail
- Can overlay Chart and Radar
- Center Boat on Screen



#### "Bread Crumb Trail"

- This is a very useful feature
- Shows where you have been good if you need to retreat
- Keep tides/depths in mind when using same trail
- Helps orientation, especially at night
- Also works with anchoring alerts



# Autopilot









## Autopilot settings

"Hands Free" much easier than steering

"A" Autopilot –Digital compass course

"N" Navigate – Route to next Waypoint

"S" Standby – Hand steer

## What's Up? Electronic Navigation

- Radar and Chart can be Course Up,
   Heading Up or North Up
- If your boat is heading North, it's easy
- When heading South, it's confusing
- Know how to change the screen orientation so that it is logical to you



# LET'S TAKE A BREAK Navigation Priorities Class Drill

- There are 15 primary navigation items on this list.
- Rank them in your priority order 1 15
- This is subjective
- Once you are done hand in and we will review.



## What is the most dangerous thing on a boat?





"All cruising plans should be etched in the sand ... at low tide."

## Pre-Departure Check List

- Handout\* Start Up Pg. 6
- Rain-X on windows
- Fresh Impellers, Belts, Clean Filters
- Clean Fuel and confirm Valves correct
- Clean out intake Strainers
- Test run all equipment at the dock

<b>CREW ORIENTAT</b>	ON A PROPERTY OF THE A LA POSSIBLE OF THE PROPERTY OF THE POSSIBLE OF THE POSS
	location, safety and first aid
Discuss trash plan	是一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个
Discuss Captain in	charge, and what docking assistance if any would be helpful, with respect to lines, fender
etc.	Make the property of W. on DC parets K. J. broaters actives Stabilizers Turniter
Float plan - travel i	tentions told to other parties
Confirm all hatches	windows and doors secure
Confirm all interior	pelongings and equipment are secure
ENGINE ROOM	
Wipe Belt area clea	
Clean drip pad	
	for loose tools or parts
Check bilge for exc	ess oil or water
Check intake throu	h hulls and strainers for all raw water requirements
Clean out bilge pur	p strainer
Check fuel valves t	make sure the appropriate fuel valves are positioned correctly for the trip planned
	d "from" fuel directions). Suggest draw from one tank and return only to supply tank.
Check fuel quantity	in main tank sight glasses - port and starboard
Supply tank bottom	- water or sediment drained off?
Check engine oil -	tarboard side dip stick
	nt - expansion tank lid

#### **Common Questions:**

- \*How far offshore will you travel?
- (Close? Far? Sea state? Wind? Currents?)
  - 100 Fathom line = crab/lobster pots.
- \*Avoid shipping lanes and high traffic areas?
- \*Getting sleepy on watch what do you do?
- \*What if it is too rough to continue?

## Watch Standing Essentials

- Keep water under the keel don't hit anything!
- Compass Heading: Correct direction
- Navigation: Position and intended course
- Radar: Awareness of targets, boats and land



Looking for your ideas...let's make a list



## The Captain plans the route Handout\* Ready for Sea p. 7

- \*Review boat safety and overview of plan with crew
- \*Departure time Daylight, Tides
- \*Distance to travel, speed average (Arrival ETA?)
- \*Anticipated Sea and Weather conditions
- \*File a Float Plan let people know your itinerary
- \*Keep looking back, you may need to retreat...

READY FOR SEA PRE-DEPARTURE CHECK LIST FOR	Manual	Spares	Sign off	Comments
SHORE BASE - Paperwork preparation	Iviariaar	Орагоз	Oigit Oil	Comments
Float plan - travel intentions told to other parties - fill out form   SPOT or InReach			4 No. 10 No.	
Check VHF radio - radio check, local NOAA weather forecast				
Paper charts and chart kits to cover intended cruising grounds				
Electronic nav charts to cover intended cruising grounds				
Back up plan contingency - alternative ports of arrival				
All necessary flags - US, Q, countries to visit - provision to fly				
Passports, visas   US contact - embassy phone number			Car William	
Customs procedures and paperwork required				
Fuel bunkering - agent for fuel (refill after arrival)				1.7.7.24%
Weather router - subscription, phone contact				人"是不是一种是
Marina reservation and local hospital at arrival port	10年至10月			
Ships papers in order and in an accessible location				
HULL				
Haul out to inspect underbody and insure all ready - cutlass bearing, props, zincs, bottom paint			No. of the last	
All through hulls fully operational and emergency bungs affixed to each location in case of failure?		Tag said		
Hull puncture kit? Sea anchor and or Drogue ready?	· · · · · · · · · · · · · · · · · · ·			
Rudder turning freely? Stabilizers clear? Thrusters clear? Shafts and props clear?		To the same		<b>一种一种一种</b>
CAPACITIES	100	· 一直		
Fuel tanks filled?Diesel fuel - tanks clean, fuel clean, transfer and polish. New Racors and spares			Para	( - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
Water tanks filled?			The same of the sa	
Propane tanks filled?		W		
Dinghy gasoline fuel tank full?	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7.5 A. S.		
EQUIPMENT INSPECTIONS	CHARLES			The second
Steering - pressurized, good fluid, spare hydrauilc fluid, emergency tiller			37,67	
Windlass and ground tackle. Anchors secure, snubbers?				
Active Fin Stabilizers - hose chafe, reservoir level, actuator seals, kelp cutters			Section 1	
Windlass and ground tackle			10.000	
Thrusters - header tank oil levels, hoses, cables, blades clean				
Main engine /transmission. Recent oil change (needed on trip?). Coolant? Mounts? Shaft seal?	144		at the same of	
Generator(s)  Inverter(s)   Chargers   Alternators				
Engine 2   Wing engine /transmission/ stuffing box		ALTER TOTAL		
Inverter(s)   Chargers   Alternators   Batteries charged				
Air conditioning   Watermaker				
Fire suppression   Bilge pumps - strainers, hoses, through hulls, pumps				Page

# What do you record in the log? Underway Log Handout\* p. 8

Heading, course – following the route?
Latitude and Longitude position
Trip Log – fill out details
Speed of your boat – RPM, Knots
Fuel burn/consumption
Weather – Wind: speed/direction,
Sea state: – wave height and period
Barometer
Traffic, obstacles on the water, concerns
Battery levels – voltage good?

UNDERWAY TRIP LOG FOR N		DATE:		DESTINATION:	DESTINATION:		
	Time:	Time:	Time:	Time:	Time:	Time:	
Watch stander		The state of the s		A PARTY OF THE PAR		The same of the sa	
Latitude							
Longitude							
Trip log - distance				HEATTER THE STREET		Trade-Section 18	
Distance from shore							
Course/Heading	19	The second of the second					
Next Waypoint	97		and the same of the			All a start	
AIS/Radar Targets w/in 6 miles		No.	and the second second			The state of the s	
All nav com working?							
Running lights on?							
Depth							
Wind speed	Note that the same of the same						
Wind direction							
Sea state -(wave ht/period)							
Water temperature						1-1-1	
Engine RPM							
Speed in knots (SOG)	Wald Look		A CONTRACTOR OF STREET	TO A TOTAL	The second secon		
Fuel burn gal/hr					many and the second		
Engine coolant temp		The second secon	man Section Section 2				
Engine oil pressure - PSI		to the second se			The state of the s		
Top Aux engine gauge			The second secon	T WITT			
Murphy Gauge		and a second second					
VHF on 16?							
CCTV camera run through							
2011 INCHESTORY OUT					Mary Cale Control of the Control of		

#### While On Watch:

Monitor engine gauges – engine oil pressure, coolant temp, etc.

Monitor all electrical – battery voltage, amperage consumption

Radar: Targets - speed and heading CPA "Closest Possible Approach" (time to intersect?)

Plotter: Waypoint – Are you on course?

Heading – Hand steer or Auto/Nav?

Listen to VHF radio, Update the Ship's Log

#### 15 minutes

Use an egg timer or other reminder to look outside of the boat.

Visually, with naked eye and binoculars, look outside by dividing your surroundings in zones. Search for traffic and objects

15 minutes is the time a fast moving ship can appear out of no where...

## **Changing Watch**

#### Watch Schedule\* hand out page 9

- Identify all Ships Traffic (coming and going)
- Confirm Course, Route and next Waypoint
  Any observations? Record in the log
- Make sure new Skipper knows history and is ready before handing over the helm

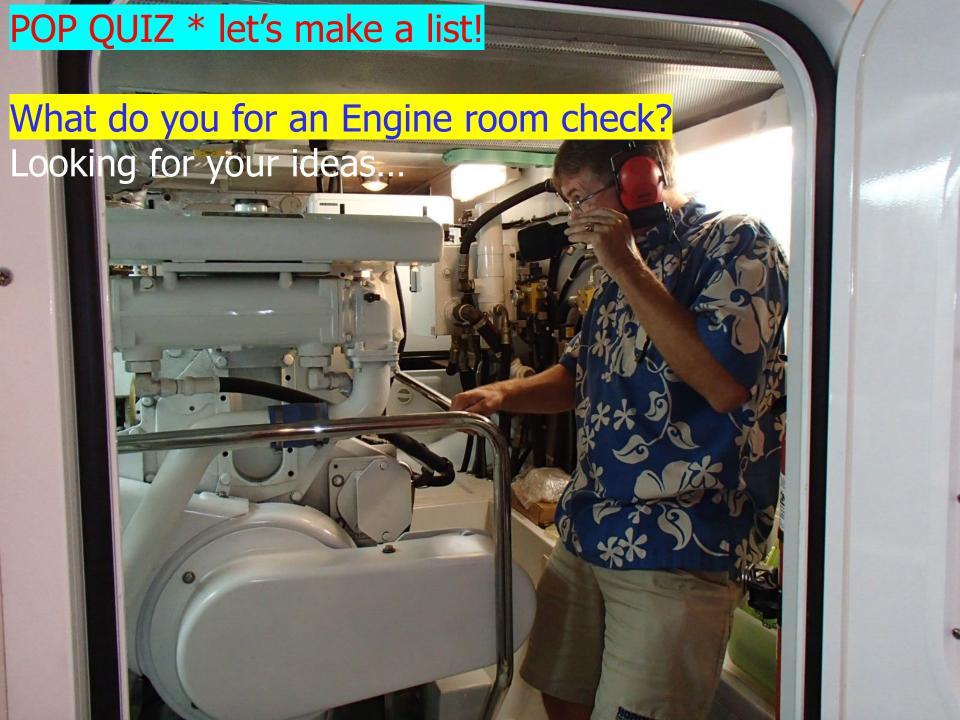
#### JMYS 3 person watch schedule

Time of Watch	Watch Name		Name			
0000 - 0300	Mid – Watch	A				
0300 – 0600	Morning Watch	В				
0600 – 0900	Breakfast Watch	C				
0900 – 1200	Forenoon Watch	A				
1200 – 1500	Early Afternoon Watch	В				
1500 – 1800	Mid Afternoon Watch	C				
1800 – 2100	Evening Watch	A				
2100 – 2400	Night Watch	В				

Oncoming watch standers should report to the wheelhouse 15 minutes prior to scheduled start for a briefing from the current watch stander who should identify course, next way points, settings and targets. Prior to standing watch, a thorough engine room inspection should be conducted (use head, bring up snack, drink, etc., before reporting). Arrive at your watch alert and ready to take over. Turn over your watch once you are certain that



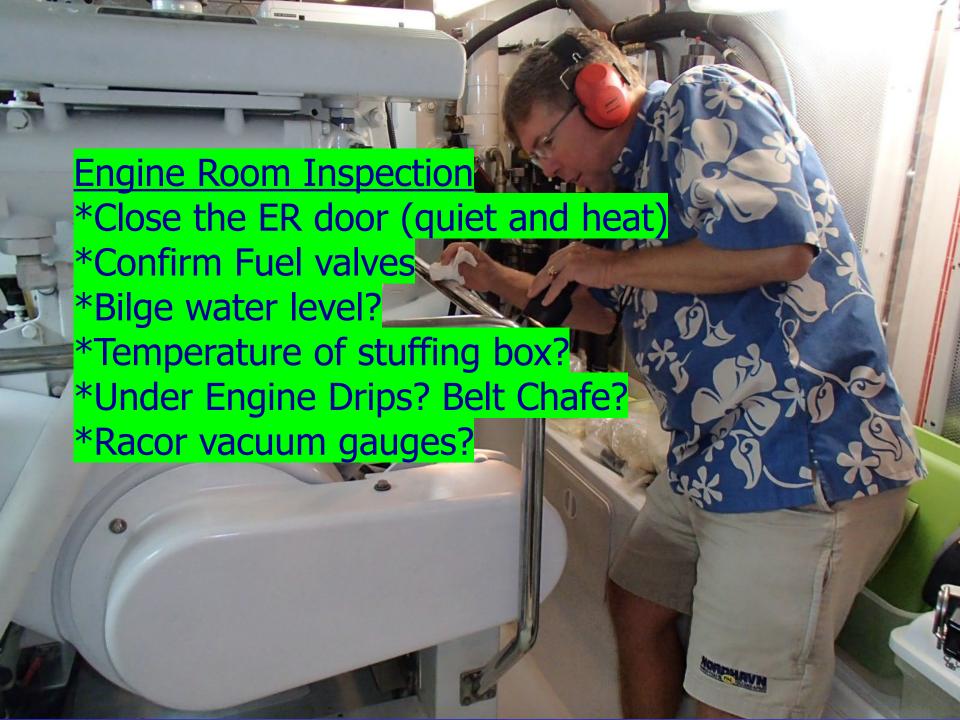




### **Engine Room Checks**

- \*Handout: Hourly Temperature Watch List p 10
- Wear ear muffs. Eyes? Knees?
- Does everything look right?
- Does everything smell right?
- Do you see any evidenced of chafe or drips?

		ENGINE ROOM TEMPERATU	DE WAT	TH AND IN	SDECTION	VI IST FOR	S NOBDHA	VN 4748 C	Shost Ride	• 1
		Date/Time of Day	:	:	:	:	:	: :	:	
		Target	Temp	Temp	Temp	Temp	Temp	Temp	Temp	Temp
		ENGINE ROOM - FWD		E ENGLISHED	FEEL	S INVESTIGATION				
1	V	Starboard Active fin locker	1.1.1				1			
2	T	Forward bulkhead	lon9 i j	dmb11	- cmef	(dine)	gneri	que n	CORIE	CERTAIN.
3	_	Supply tank gallons, valves	1 1 1	111	124 301	7 2 1	1			
4		Alternator belts - chafe?	1 (1							
	#	Stabilizer pressure gauge						140		
6	٧	High water bilge chamber		HE ENERGY				T Y		
		ENGINE BOOM SO								
		ENGINE ROOM - PORT								
	_	Port Active fin locker	1-1-1-							and the second s
8	V٦	Hydraulic tank level and temp	+++		e di managani					
9	V	Main engine Racor vacuum								
10	٧	Fuel return manifold valves				-			4-1-1	
11	T	Thermostat							141	1-1-11
12	T	Oil cooler						18-14-1-1-	1-1-1-1	1-1-1-1
13	-	Alternator - Engine start		1		1		The state of the s	1-1-1	
14	V	Engine mounts - port forward					and the state of the	1314		1-1-11
15	T	Fuel pump		Commence of the second				17/7/21	Mariante de America	A marine and a second
16	Т	Exhaust manifold		and the second	and the same			1351		
17	Т	Starter						LOISLOY		
18	V	Engine mounts - port aft						1345131	The Letter III	-211
		至1年的女子一方法				- Link	In the second second	LALLES		
		ENGINE ROOM - STBD		Jan Salada		man white		The same of the sa		1 1811
19	T	Coolant tank	1-1-1-1			12 20 30			Control of the second	1 1 1 1 1 1 1 1
20	Т	Keel cooler out			English and		A STATE OF THE STA			THE PARTY OF



## Ear Muffs – noise canceling

Essential for the engine room – at least two pair



#### Infrared Temperature Gun

Equipment to observe? Hold gun close, shoot same spot



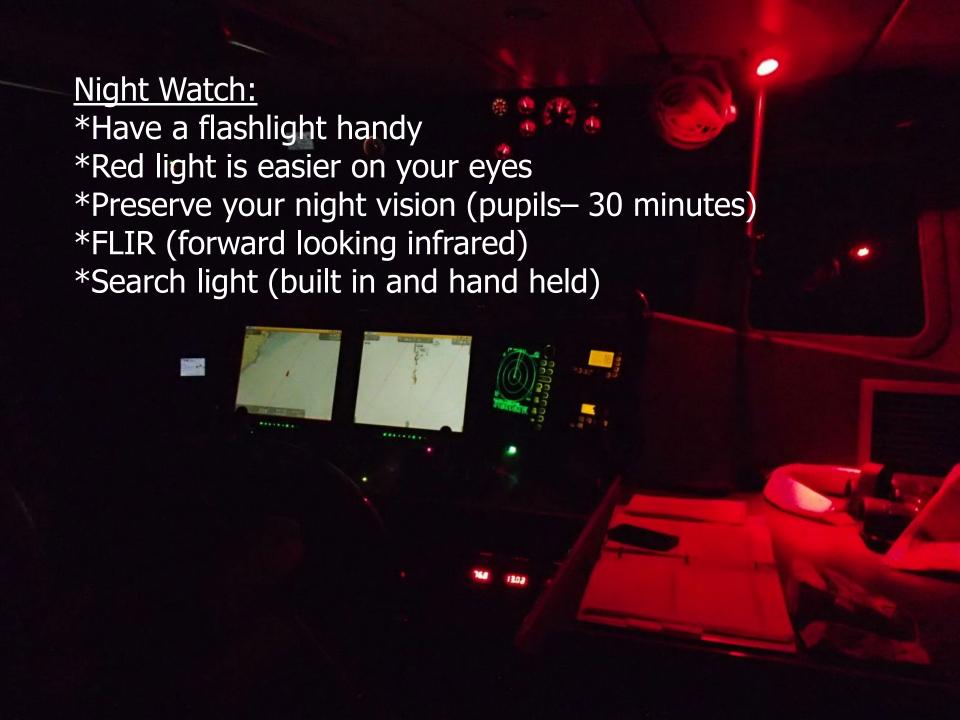


- \*Running lights make sure they are all on
- \*Interior lights: courtesy red, overhead red
- \*Pilothouse command dim and mute electronics
- \*Wake the Captain if there is a concern
- \*Stay awake, be extra vigilant use VHF to communicate with other ships

#### Ready for night? (Red lights)

Don't forget spare bulbs for your Navigation running lights! (Better to upgrade to LED)







## \*Hourly Watch - page 11

\*Top of the hour

\*Why each hour?

#### JMYS HOURLY WATCH UNDERWAY CHECK LIST **ENGINE ROOM** Be careful - no loose clothing or jewlery, metal items will be hot, take your time Wear ear muffs and gloves. Take a rag, flashlight and temp gun with you Note temperature on thermometer - "shoot" temps on key locations and fill in ER Temp Watch Log Does the ER smell normal? Check engine room for loose tools or parts Check bilge for excess oil or water Check bilge pump strainer for debris Go aft centerline to check stuffing box, is it dripping, is it cool or hot? Check throttle (port) and gear (aft) connections - pinned properly on engine? Check stabilizer panel - working smoothly? Engine room blowers on? Air circulation Fuel valves positioned correctly? Check fuel quantity in main tank sight glasses - then close valves Check the Racor sight vacuum gauge and look at Racor bowls Check transfer and return manifolds - are they valved correctly? Confirm battery select switches are correctly positioned "Normally ON" Look for belt chafe powder, leaks, lift up floor boards, drips, smoke...

#### LAZARETTE

Check all steering gear for firm fasteners and no leaks

Inverter panel correct

Close door between ER and Laz

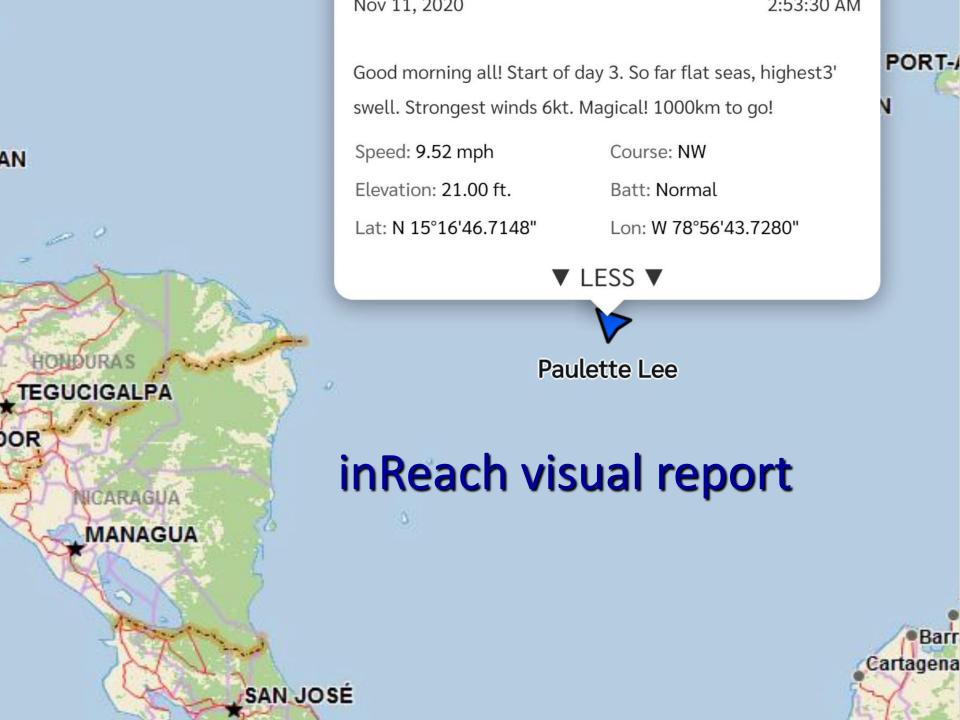
WHEEL HOUSE

#### Garmin inReach

\*Two Way Texting

\*Subscription you can
turn on/off.





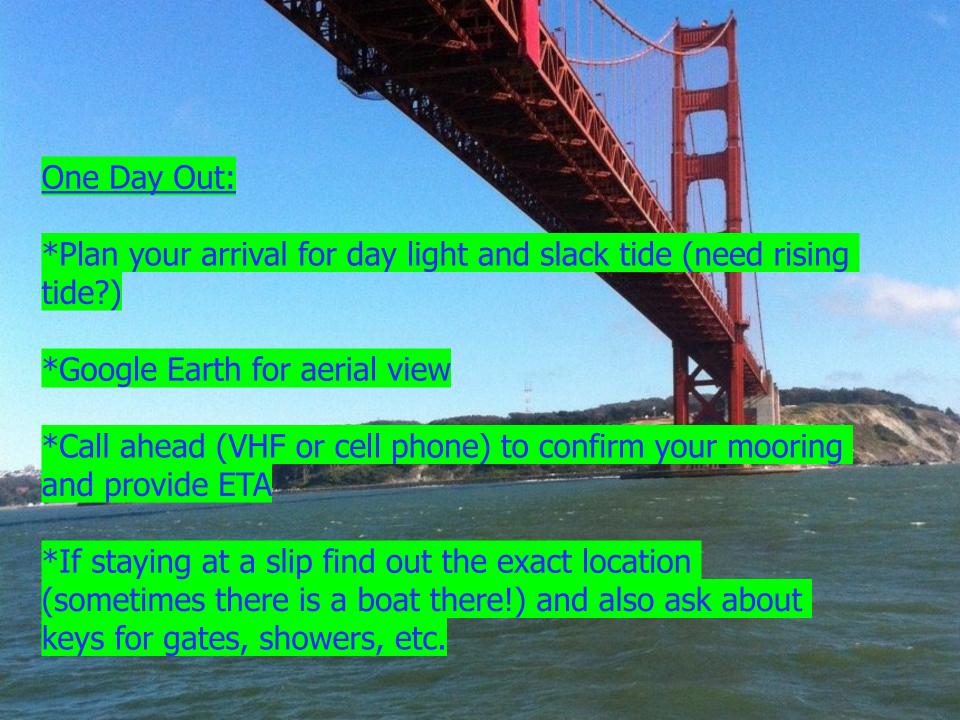
## Iridium Go – very popular

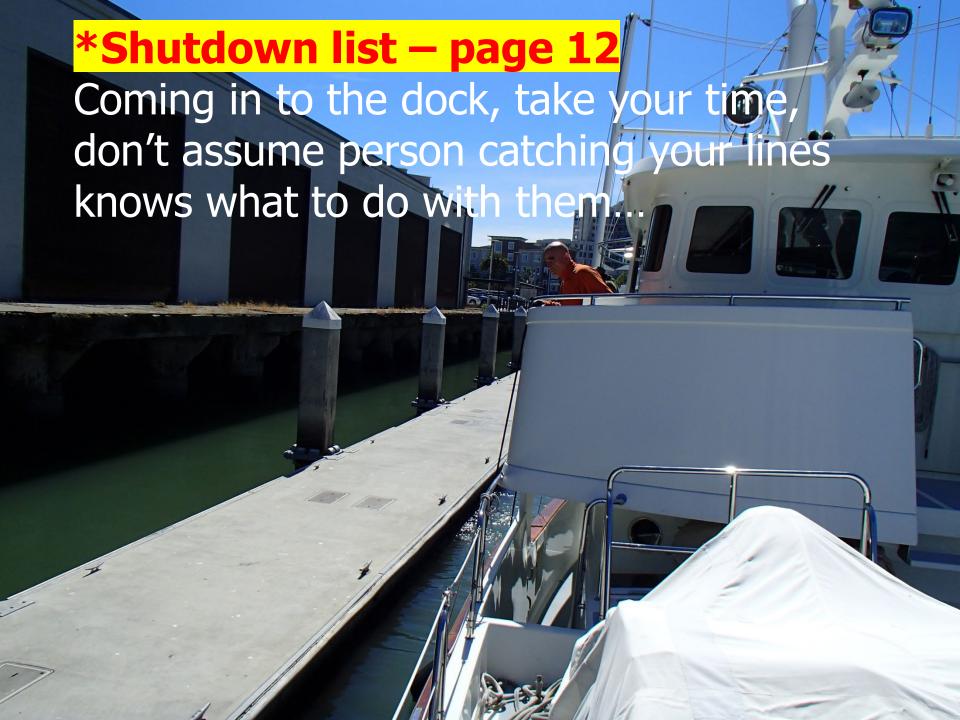
Text, talk, email and download weather max plan \$140/Mo.

Antenna box — connects to satellite — Wi-Fi signal to apps on phone.

Worth investigating







#### JMYS SHUT DOWN CHECKLIST (ARRIVAL AT DESTINATION) HARBOR APPROACH Run main engine hard for 10 - 15 minutes to blow out soot (during last hour before arrival) Holding tank? (5 miles off shore) then close valves Fenders and dock lines ready? Slip location - contact harbor master for arrangements? -hours, dock hand, slip assignment, tides, VHF, gate key, wifi password, etc. FINAL APPROACH Make sure fenders and dock lines are ready and crew knows intended docking maneuver Center fins on stabilizers Confirm thruster(s) ready SECURE AT DOCK OR ANCHORED AT MOORING? **ENGINE ROOM**

Check engine room for loose tools or parts

Check bilge for excess oil or water

Make sure bilge pump strainer is cleaned out

Check fuel valves to make sure the appropriate fuel valves are positioned correctly for next start up

Check fuel quantity in all fuel tank sight glasses - then close valves



