

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

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 <u>NOW</u> 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*
- Understand operation of every system
- Acquire the right tools, spare parts, etc.
- Routine maintenance: filters, fluids, impellers, etc.

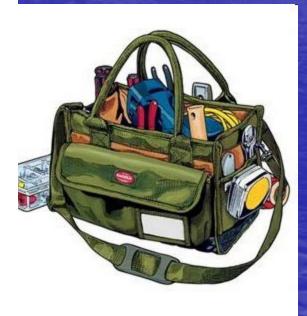
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Tools

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/Wheelhouse

You will be happier if you are organized

Do you like to create spreadsheets?

Vessel Vanguard /Wheelhouse 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*

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.

Diesel engines

Fuel management, supply and return valves. Racor filters. Belts and Impellers. Coolant. Through hulls and strainers. Oil filters, fuel filters.

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 <u>use your boat</u> locally, before you take off on a big trip

USCG Requirements - example

*Handout - 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.



3010 Old Ranch Pkwy, Suite 440, Seal Beach, CA 90740 +1 949.355.4950 | www.JMYS.com

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
- e) Engine room just inside forward door to port
- f) Boat Deck inside dinghy

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



SOSpenciers - 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
```

Remember, there are nice days out there too... Your loved ones can track your AIS on www.marinetraffic.com Also www.vesseltraffic.com

Weather Forecasts Underway:

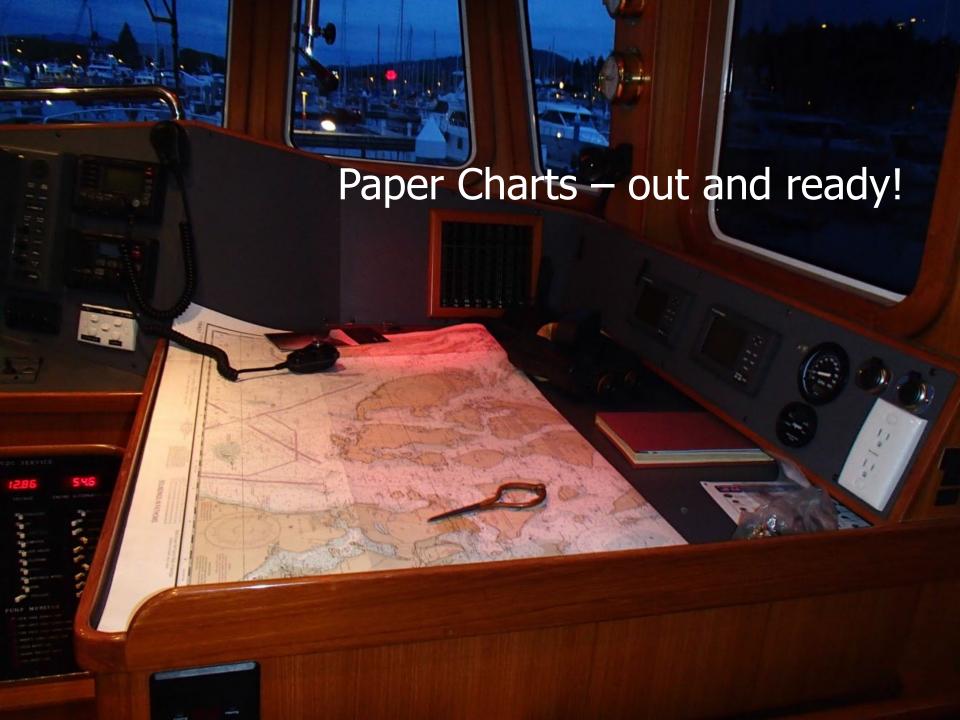
- *IridiumGo (with Predict Wind offshore app)
- *Satellite Radio XM/Sirius forecast service
- *VHF channel 3 and 4
- *Professional Weather Routers Chris Parker
- *Internet, if you have it aboard

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:
Skipper
Port of Departure:

Time of Departure: Planned Port of Arrival: Actual Time of Arrival: Gear/Checklist:

Wind

Destination:

Cruising Log Handout*

		1			Pilotage:		
Time	Course	R.P.M.	Knots	Wind speed/dir	Latitude/longitude	Visibility/ seas	Other
5:10		1450	11.2	9.71	48'17'50 / 122'50'95	CLEM	LV. DOCK
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rometer: Wave

Wave Height:

Narrative:

Places/Events to Remember:

What and Where We Ate:

Where We Shopped and What We Bought:

Who We Met:

LOG BOOK & Journal



Notes:

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:
	More height/show/smalls
Sea conditions:	Wave height/chop/swell:

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,
 Distance, CPA
- AIS ship tracking

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 talkand 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



286.1 CDG

466

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 Call Sign 42.0 m Length

> sition 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)

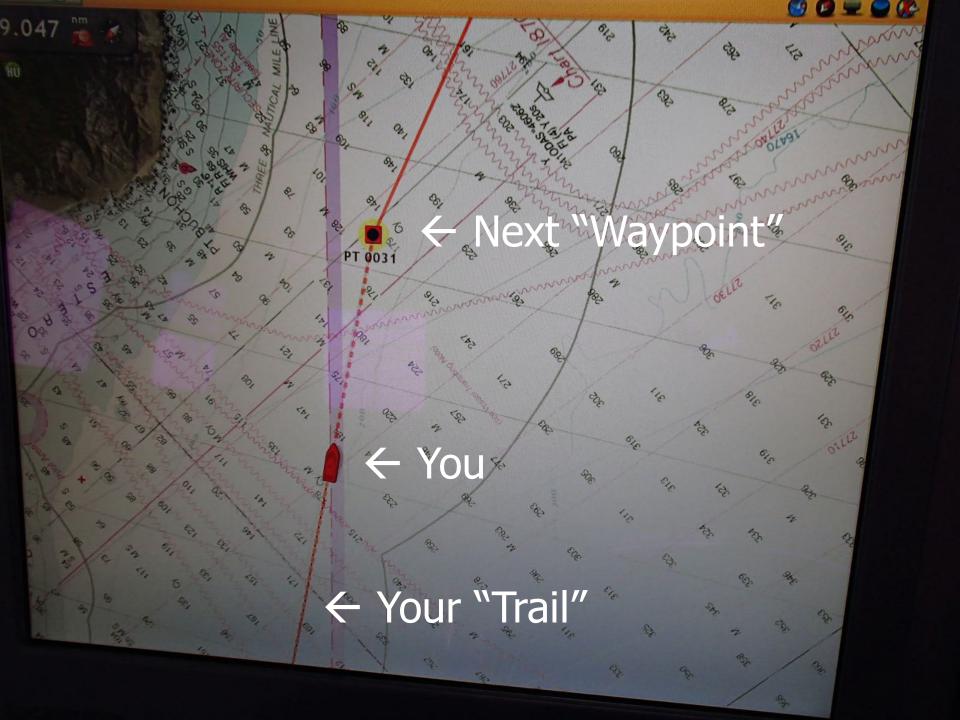
Hourly pencil Lat/Lon on Paper Chart

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

Electronic charts are not fool proof...

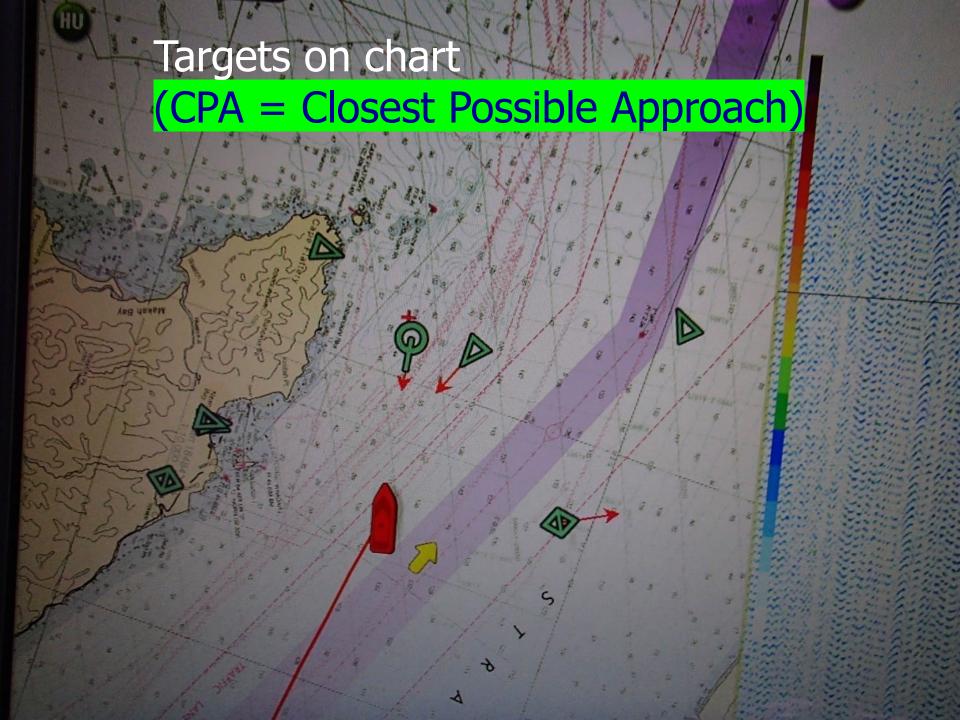
Chart Plotting – Electronic Chart features

- 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
- 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

START UP CHECK LIST FOR NORDHAVN 5017 Northern Ranger II CREW ORIENTATION Discuss life jackets location, safety and first aid Discuss trash plan and toilet operation Discuss Captain in charge, and what docking assistance if any would be helpful, with respect to lines, fenders. etc. Float plan - travel intentions told to other parties Confirm all hatches, windows and doors secure Confirm all interior belongings and equipment are secure **ENGINE ROOM** Wipe Belt area clean Clean drip pad Check engine room for loose tools or parts Check bilge for excess oil or water Check intake through hulls and strainers for all raw water requirements Clean out bilge pump strainer Check fuel valves to make sure the appropriate fuel valves are positioned correctly for the trip planned understand "to" and "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 - starboard side dip stick Check engine coolant - expansion tank lid Check alternator belts Check transmission oil level - port side aft (make sure you have oil, proper test after warmed up and in neutral) Check throttle and gear connections - pinned properly on engine? Check Racor filters, select correctly valved, gauges, drain off sediment or water Check wing engine oil, coolant, transmission, stuffing box, fuel valves and belt Check generator oil, coolant, breakers and fuel valves all gens and belt

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

*Review boat safety and overview of plan with crew

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- *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)				100
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?	· 第一次十分完全			
Rudder turning freely? Stabilizers clear? Thrusters clear? Shafts and props clear?		To the same		一种一种一种
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			
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		and 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*

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?

INDERWAY TRIP LOG FOR N	VAY TRIP LOG FOR Nordhavn 55		DATE:		DESTINATION:				
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Distance from shore						and the second s			
Course/Heading			COMPLETE AND REAL PROPERTY.						
Next Waypoint				TO DESCRIPTION OF THE PARTY OF		18.			
AIS/Radar Targets w/in 6 miles						. 04.			
All nav com working?									
Running lights on?									
Depth			THE TOTAL PROPERTY OF THE PARTY OF						
Wind speed						Action of the second se			
Wind direction		i e e							
Sea state -(wave ht/period)									
Water temperature		THE STREET COMM.				and the same of th			
Engine RPM									
Speed in knots (SOG)	Wall I	Mark State Special State State Control to							
Fuel burn gal/hr		And the second s							
Engine coolant temp									
Engine oil pressure - PSI	Company of the State of the Sta					The state of the s			
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Murphy Gauge									
VHF on 16?									
CCTV camera run through									
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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

- 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

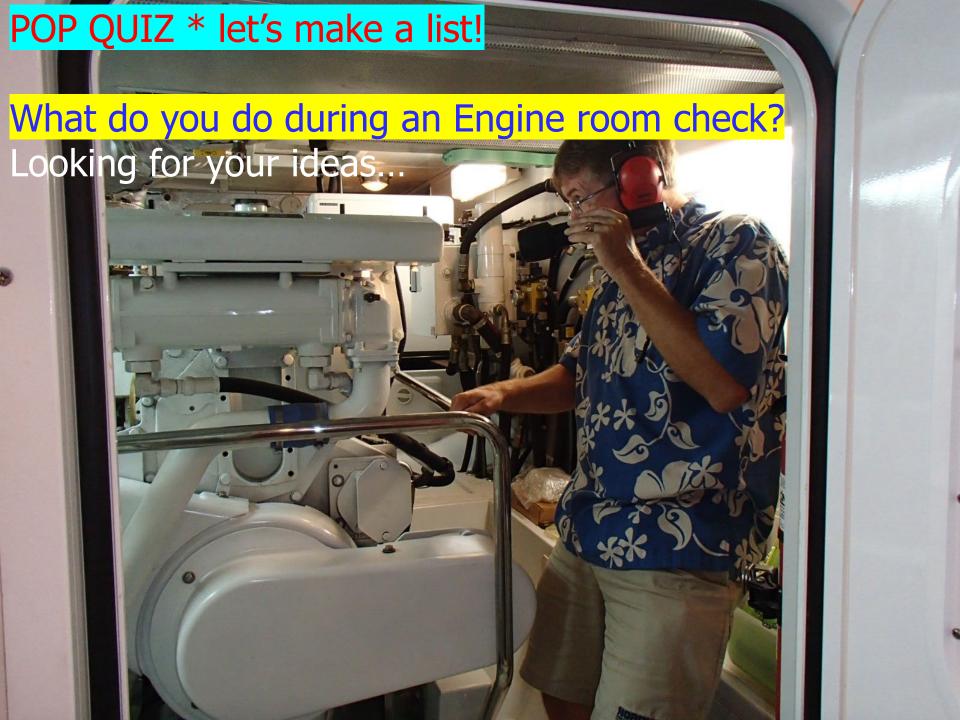
Time of Watch	Watch Name		Name
0000 - 0300	Mid – Watch	A	
0300 - 0600	Morning Watch	В	
0600 - 0900	Breakfast Watch	C	
0900 – 1200	Forenoon Watch	A	
1200 – 1500	Early Afternoon Watch	В	Mark Company
1500 – 1800	Mid Afternoon Watch	C	
1800 – 2100	Evening Watch	A	
2100 – 2400	Night Watch	В	

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 the crew member following is ready to go. It should be clear at all times who is at the helm and on watch. It is a good practice to scan the horizon every 15 minutes – an egg timer set at 15 minutes is a helpful tool.





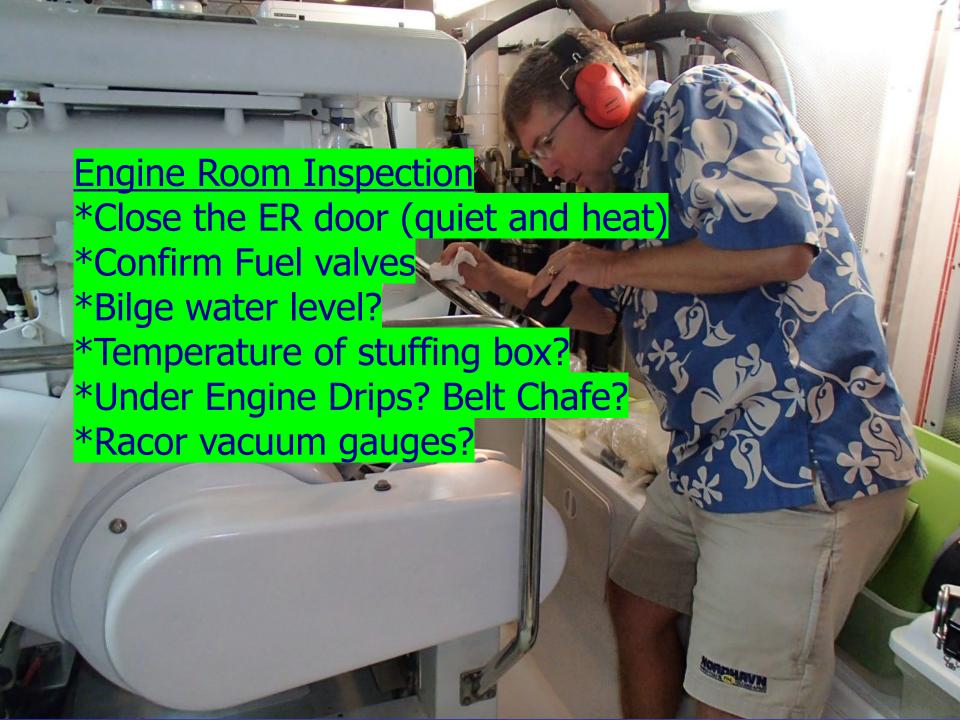




Engine Room Checks

- *Handout: Hourly Temperature Watch List
- 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	I WAT	JII AND III	I LOTTO		I .					
	Date/Time of Day	:	T	Tarre	Toma	Tomo	Temp	Temp	: Temp	: Temp	Toma
	Target	Temp	Temp	Temp	Temp	Temp	Temp	remp	Tellip	remp	Temp
414	ENGINE ROOM - FWD										Link
1 V 2 T	Starboard Active fin locker Forward bulkhead	lome (don't i	dmei	dnel	troat!	(miss)	rnets	otnosti.		
3 V	Supply tank gallons, valves									201	Nace
4 V	Alternator belts - chafe?										Lided
5#	Stabilizer pressure gauge									Controlling to the Section Co.	
6 V	High water bilge chamber								come and b		16
	ENGINE ROOM - PORT					and and					- Charles
7 V											
	Port Active fin locker								The second secon	I I	
	Hydraulic tank level and temp									# 1 mm - m - bullion	1 6 3 3 4
9 V	Main engine Racor vacuum					14 mm		- Horacon parties			
0 V	Fuel return manifold valves								or popular or according to the	to be on the section	194
1 T	Thermostat				No.		and the same	and the sales and the sales and the	11111	To Division Laboratory	
2 T	Oil cooler	-									Aller
3 T	Alternator - Engine start				-		Tribal I				1
4 V	Engine mounts - port forward		1					1111	+		
5 T	Fuel pump					A Comment of the Comment				1 100	
6 T	Exhaust manifold		100	array y						112	101/197
7 T	Starter										Unisity
8 V	Engine mounts - port aft								-	1-1418	
	ENGINE ROOM - STBD									1 1318	
9 T	Coolant tank					Annes anni Alia	- Alexandria	TETRITIE			
0 T	Keel cooler out				01		100	Teta H	1-18-1		146
1 T	DESCRIPTION OF THE PROPERTY OF	The same of		Tight	at tel	13/16/1		A Section 1			
2 V	Keel cooler in	7	DES.	Total Control	a fortunation, some	* washing of			reserve and		1000年
2 V 3 T	Engine mounts - stbd forward	al Thu	E Stal	11 6							
4 7	Alternator - House bank			100				1723	1	100	
4 T	Hydraulic pump										
5 V	Under engine drips				17						
6 T	Oil filter temp	400									Page



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



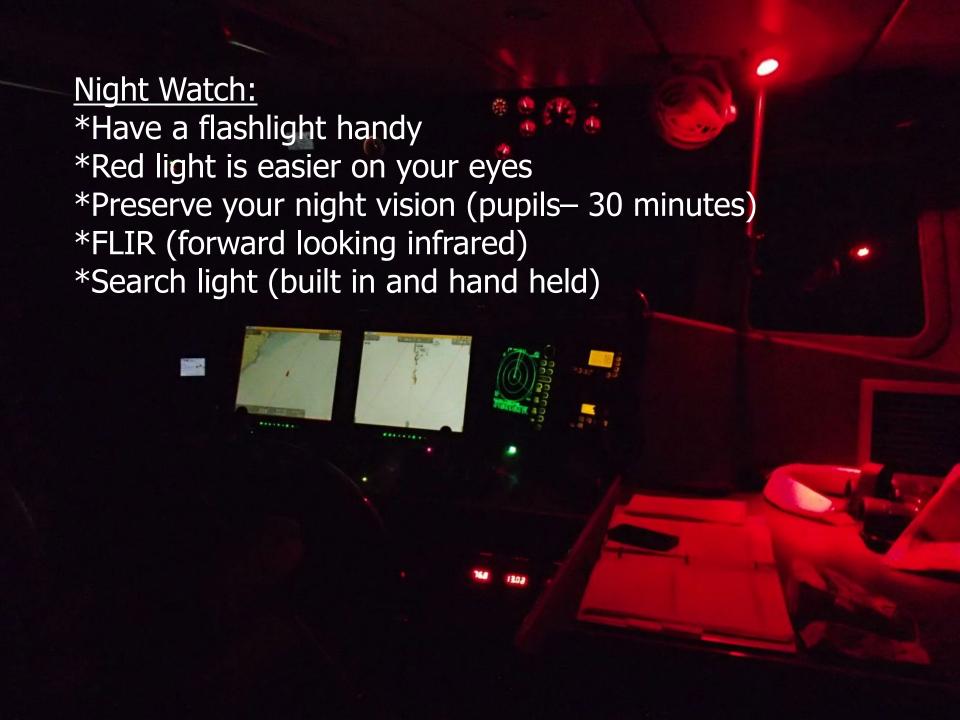


- *Running lights make sure they are all on
- *Interior lights: courtesy red, overhead red
- *Pilothouse command dim and mute electronics
- *Wake the Captain if there is a concern
- *Stay awake, be extra vigilant use VHF to communicate with other ships

Ready for night? (Red lights)

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







*Hourly Watch handout

*Top of the hour

*Why each hour?

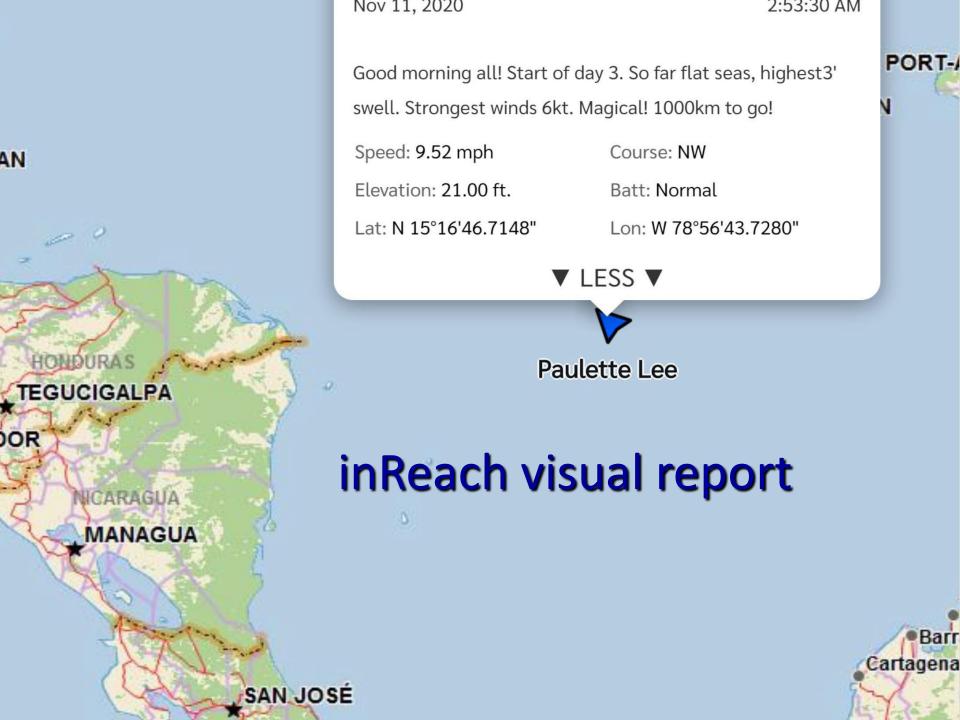
JMYS HOURLY WATCH UNDERWAY CHECK LIST
IMYS HOURLY WATCH UNDERWAT CHECK LIST ENGINE ROOM
Be careful - no loose clothing or jewlery, metal items will be hot, take your time
Wear ear muffs and gloves. Take a rag, flashlight and temp gun with you
Note temperature on thermometer - "shoot" temps on key locations and fill in ER Temp Watch
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
Main engine rpms, oil pressure and coolant temperature Check battery voltage
Alternator output?
Check all displays for proper values

Garmin inReach

*Two Way Texting

*Subscription you can
turn on/off.





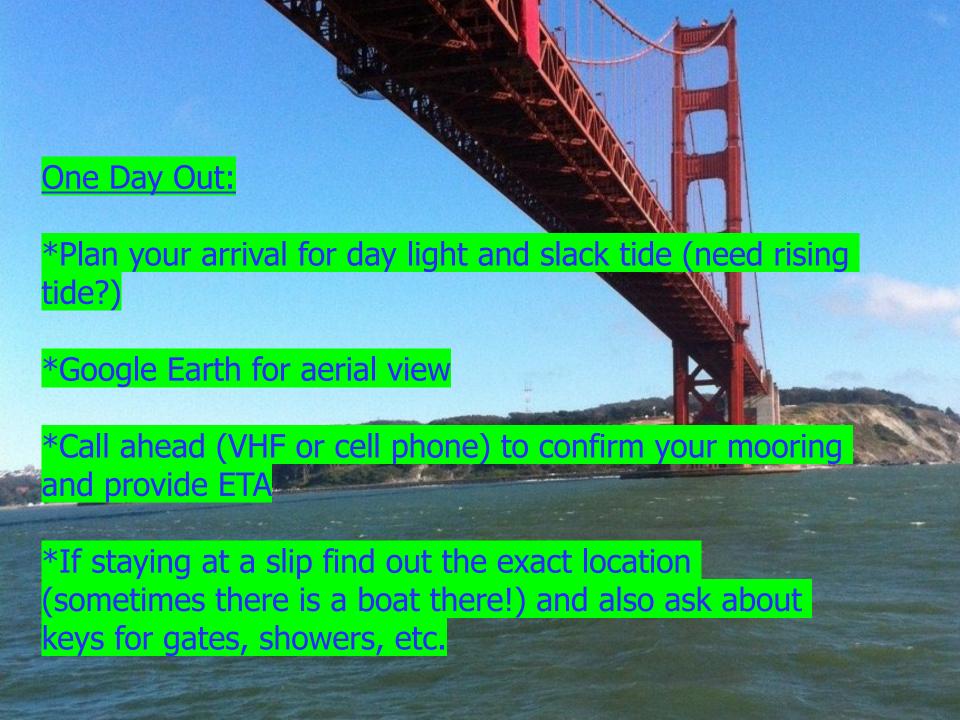
Iridium Go – very popular

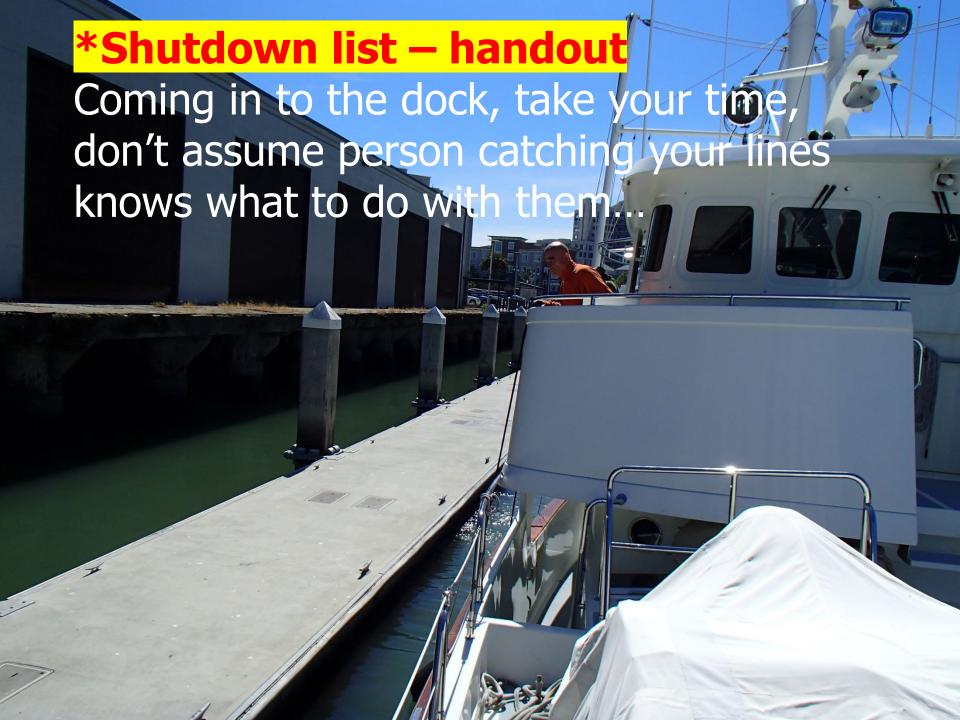
Text, talk, email and download weather max plan \$140/Mo.

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 WHEEL HOUSE Check all battery voltage Shore power selected and coming in on ? AC voltage coming in from dock? Bilge pump breakers on?



