### Marine Route Planning - Bring

- Waggoner tides and currents
- Ports and Passes
- Local knowledge book
- Canada Pilot book and other guides that cover British Columbia



#### **QUARTERMASTER YACHT CLUB – Tech Talk Introduction**

### WELCOME to QYC Tech Talks!

- A Tech Talk is...
  - An <u>exchange</u> of information, ideas and experience
  - More discussion than "teaching"
  - A little structure
- We encourage...
  - Listening, learning & contributing
  - Discussion and debate
  - Questions
- Our next Tech Talk is:
  - Essential Maintenance, May 2, QYC





### Marine Route Planning

- What to consider when planning your route
- Constraints
  - Supplies
    - Ports
      - Shelter
        - Location?
- Passes and rapids...
  - ...and how to navigate



### Route Planning vs Cruise Planning

- Route planning:
  - Define route options, if any
  - Consider risks and opportunities
  - Final route selection decision

- Cruise planning:
  - For an entire vacation
  - Considers resupply & cruise vs relax days



### Marine Route Planning - Considerations...



### Marine Route Planning - Considerations...

- Available time
- Delay tolerance
- Boat speed
  - Cruise speed
  - Top speed
- Boat seaworthiness
- Crew
  - Durability
  - Sea-state tolerance
- Fuel economy preference
- Ports and anchorages

- Weather
- Shelter options
- Passes?
- Tides
- Currents
- Capacities fuel, water
- Factors you control
  - When you leave port
  - If you leave port
  - Your route
  - Your speed (sometimes)



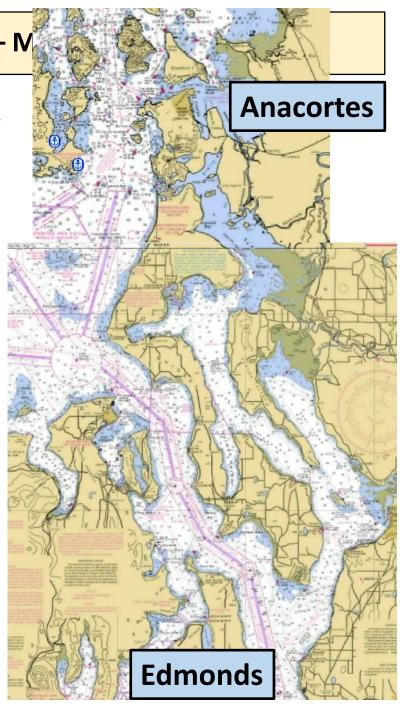
### Marine Route Planning - Basic Approach...

- Identify your preferred destination
- Identify route options, if any
- Identify conditions weather, tides, currents
- Identify constraints eg: a pass that must be crossed at slack
- How much time do you have / how much do you want to use?
- Do you need supplies along the way?
- Evaluate risks and opportunities
- Final destination selection
- Final route selection



Edmonds to Anacortes, depart 8AM

Route options



# QUARTERMASTER YACHT CLUB – M

Route Planning Example

Edmonds to Anacortes, depart 8AM

Three route options:

Admiralty Inlet: 47 Knots

Deception Pass: 50 Knots

LaConnor: 52 Knots

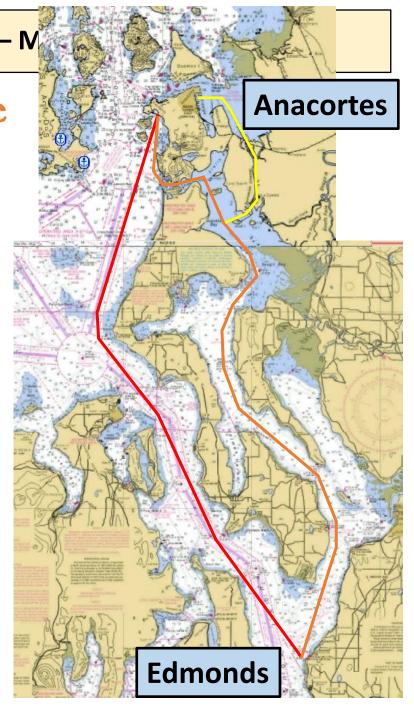
Three arrive times (at 8 knots speed):

Admiralty Inlet: 1:55 PM

Deception Pass: 2:15 PM

LaConnor \*: 3:45 PM

\* 4 Knots through LaConnor





Route risks & opportunities:

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Risk & Opportunit	Admiralty Inlet	Deception Pass	LaConnor	
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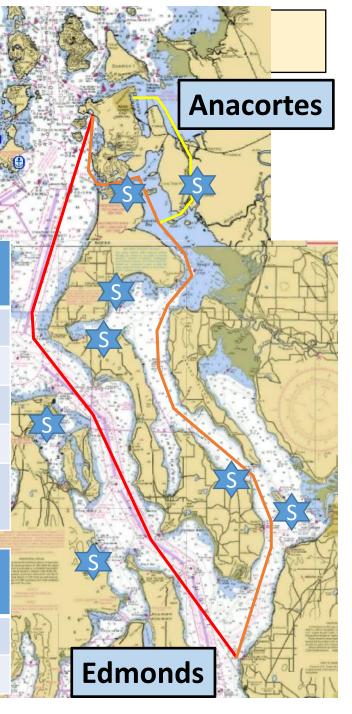


Edmonds to Anacortes, depart 8AM

Route risks & opportunities:

Risks	Admiralty Inlet	Deception Pass	LaConnor
Wind & waves	Highest	Small	Smallest
Passes & currents	No	Yes	No
Swing bridge	No	No	Yes
En-route shelter	Two	Five	Five
Shallow water	No	No	Dredged channel

Opportunity	Admiralty Inlet	Deception Pass	LaConnor
Fuel stop	No	No	Yes
Food stop	No	Not really	Yes



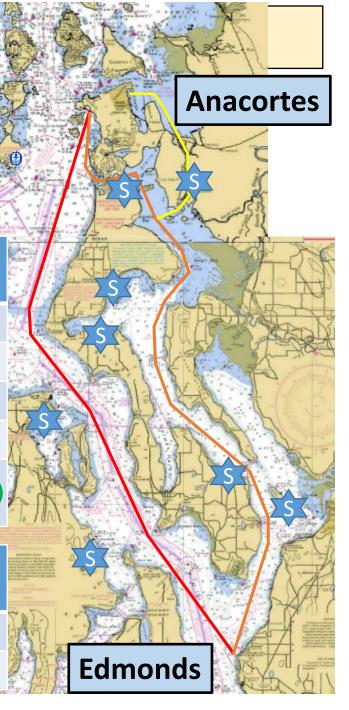


Route Planning Example

- Edmonds to Anacortes, depart 8AM
- Route risks & opportunities:

Risks	Admiralty Inlet	Deception Pass	LaConnor
Wind & waves	Highest	Small	Smallest
Passes & currents	No	Yes	No
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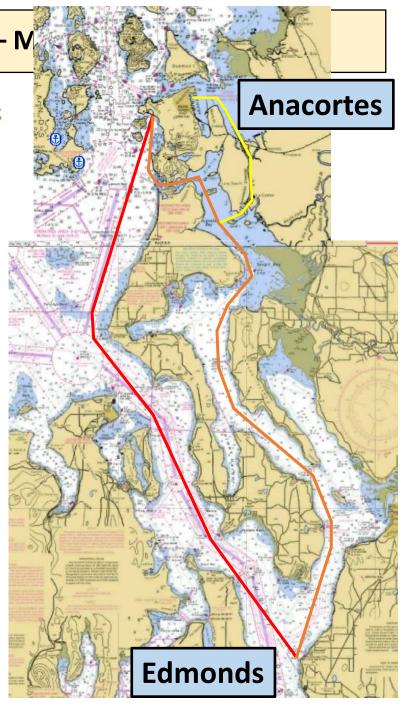
Opportunity	Admiralty Inlet	Deception Pass	LaConnor
Fuel stop	No	No	Yes
Food stop	No	Not really	Yes





Wind & Wave Evaluation:

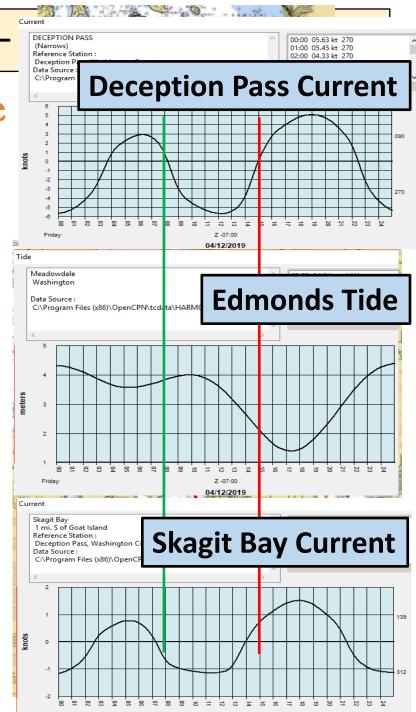
- Windy TV
- NOAA Marine Weather
- Ferry Weather





### Route Planning Example

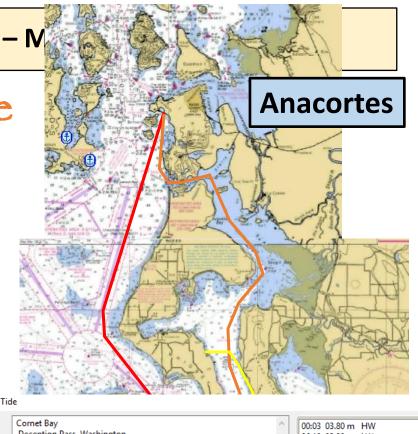
- Edmonds to Anacortes, depart 8AM
- Deception Pass Evaluation:
  - Slack times: 8:10 AM & 3:00 PM
  - Edmonds to Deception: 44 knots
  - Transit time (at 8 knots): 5.5 Hours
  - Arrival time (at 8 knots): 1:30PM
  - Tide: Little impact
  - Current: Adds 1 knot in Skagit Bay
- Depart 9AM, arrive Anacortes 4PM

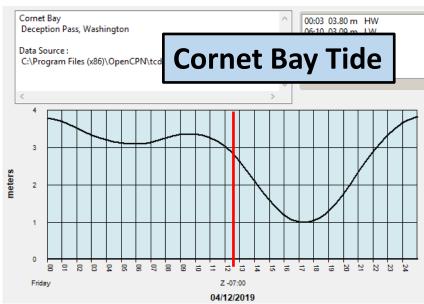


## QUARTERMASTER YACHT CLUB – N

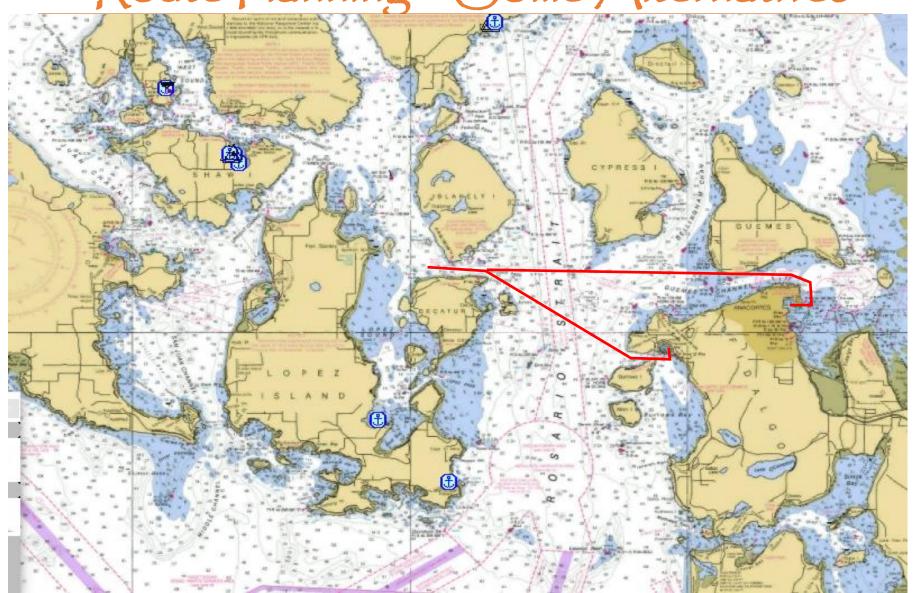
### Route Planning Example

- Edmonds to Anacortes, depart 8AM
- Dredged Channel Water Depth Eval:
  - Edmonds to Channel: 38 knots
  - Transit time (at 8 knots): 4.8 Hours
  - Arrival time (at 8 knots): 12:45 PM
  - Cornet bay tide: 8 ft (falling)
  - Swinomish dredge depth:
    - 12 ft @ LLW
  - Last dredging: Dec 2014
  - Accumulation / year: 1.5 ft (avg)
  - Est'd depth: 6 ft @ LLW
  - Water depth: ~14 ft

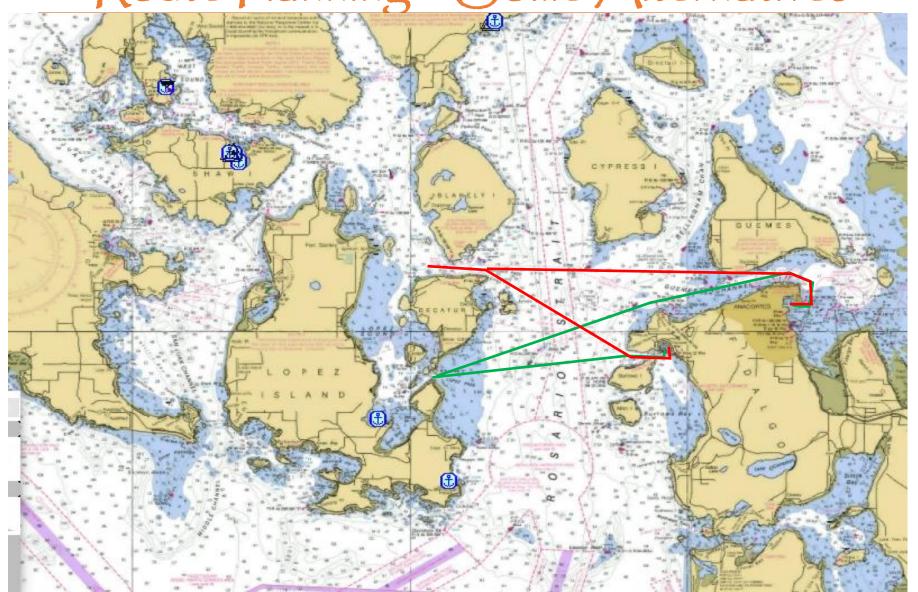








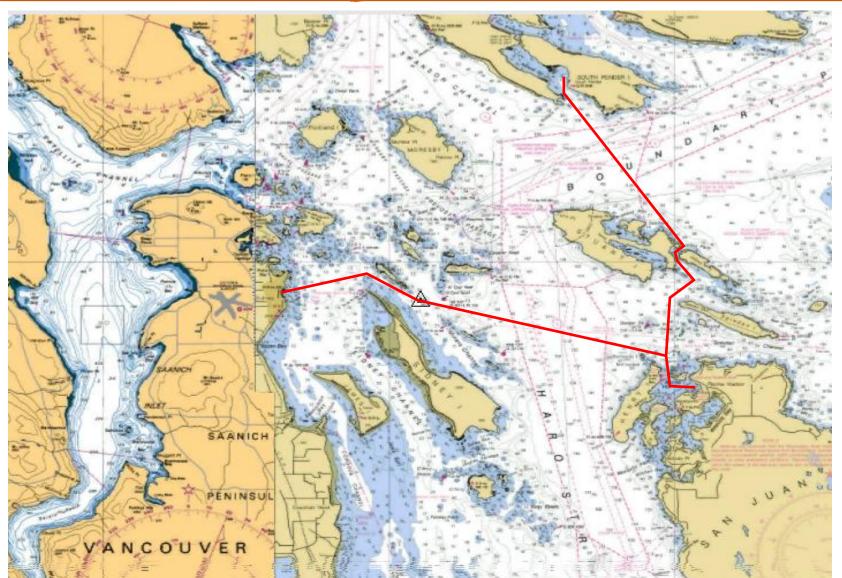




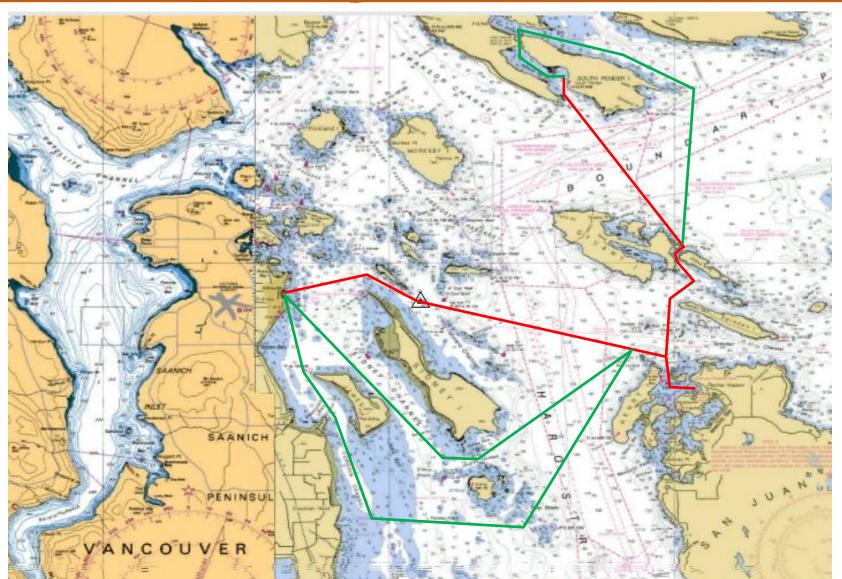




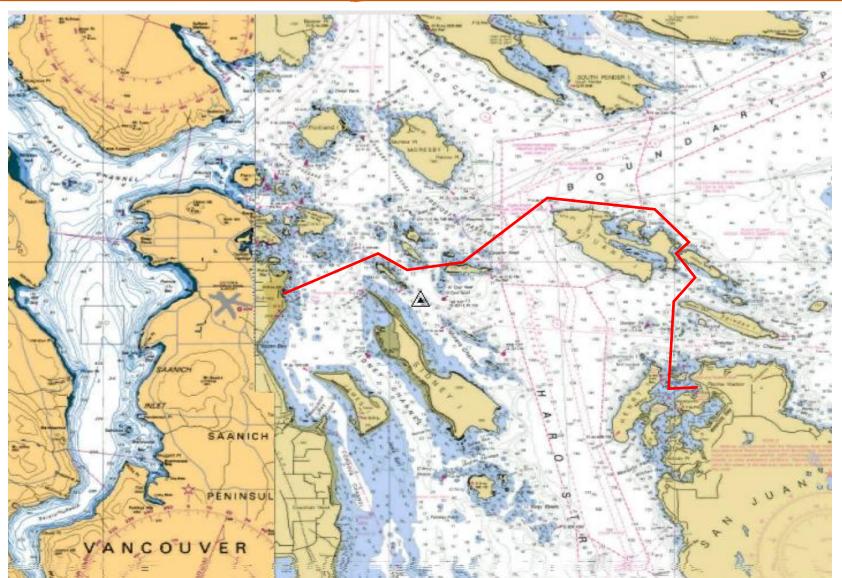




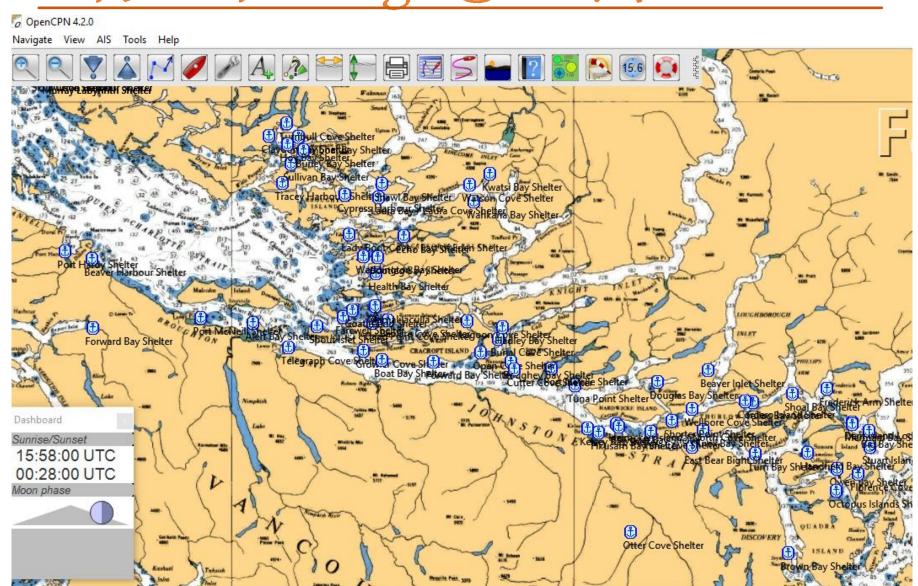




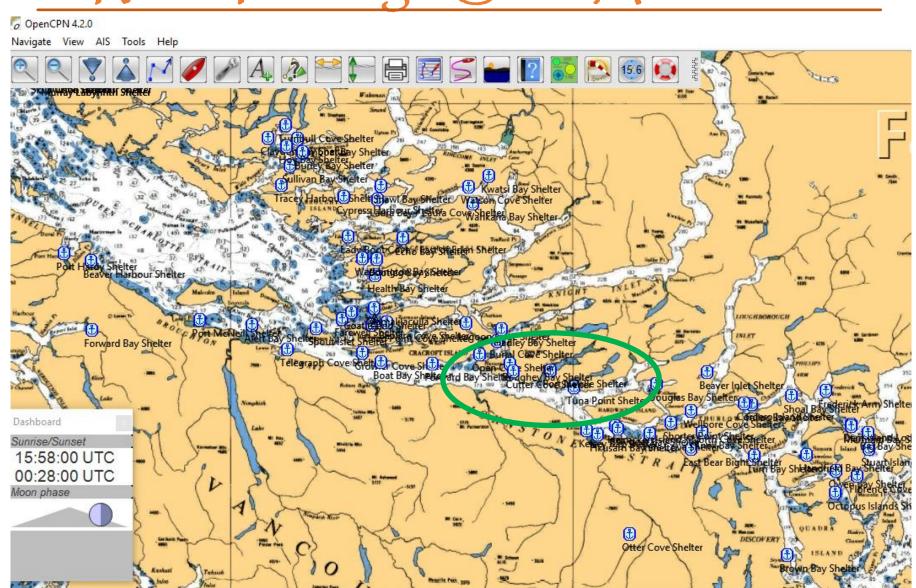




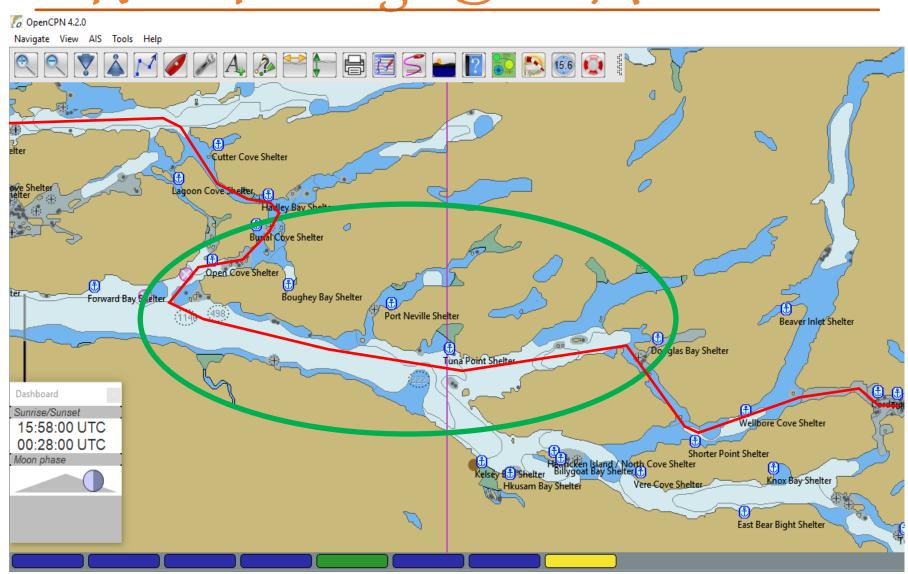














### Marine Route Planning

- Evaluate your route alternatives
  - Risks and opportunities
    - Wind and waves
  - Identify constraints
    - Narrows and straits with currents
  - Pick the alternative that manages risk
- Only you decide if and when to go...
  - Make sure the crew agrees



# Our Next Tech Talk

Location: QYC Meyers Hut

Date: Thursday, May 2



### QUARTERMASTER YACHT CLUB Tech Talk Series

#### Essential Marine Maintenance

Attend this Tech Talk to discuss:



- Dieseland Gas engine maintenance
- How to maintain all those other systems...
- It's not just the boat to keep up....

Where: Quartermaster Yacht Club "Meyers Hut"

23428 Vashon Hwy SW, Vashon, WA 98070

When: Thursday, May 2, 2019, 7 to 9 PM

Why: More boat bucks for you, not the boatyard...

# QUESTIONS?