

# Safe Trip Planning - Project Data

Title: Safe trip planning, and what to do if things go wrong

Objective: Discuss boat trip pre-planning and crew conduct to minimize risks and

what to do in the event of an on-board emergency

Speaker(s): Kevin Jones

QYC Only?: No

Date: 10 May, 2017

Time: 7-9 PM

Duration: 120 minutes

Location: Vashon Library (Meyers Hut as backup)

Space Required: Room with tables, chairs and projection screen

Supplies to bring: Laptop and power cable, projector and power cable, laptop to

projector cable

Tools to bring: None Props & Examples: None

Advertising plan: Advertise tech talk w/ flyer at QMM, library, grocery store, HW store,

Burton Boat, QYC (Meyers Hut, top of hill bulletin board, dock gate),

preview at QYC meeting



### Safe Trip Planning - Agenda

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7:00	Welcome / Overview / Introduce experts
7:05	Planning checklist
7:20	While underway
7:30	When things go wrong
7:45	Group exercise instructions
7:50	Groups split up and perform exercise
8:15	Groups report out – 6 groups / 5 minutes each
8:45	Questions?
8:50	Start teardown / Complete surveys
9:00	Depart



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

# WELCOME to QYC Tech Talks!

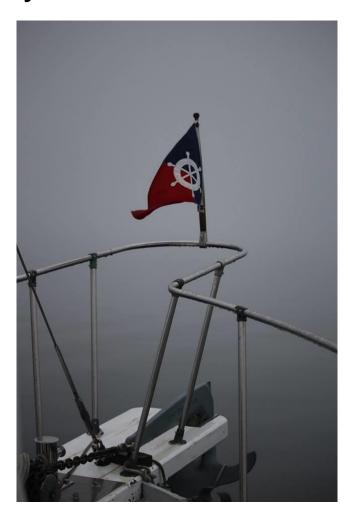
- A Tech Talk is...
  - An <u>exchange</u> of information, ideas and experience
  - More dialogue than "teaching"
  - A little structure
- We encourage...
  - Listening, learning & contributing
  - Discussion and debate
  - Questions
- Our next Tech Talk is:
  - 20/21 May Tech Talk Open House





## Safe Trip Planning - Overview

- Preventing problems before they start
- What to do if things go wrong
- Resource application
- Decision making steps
- Group exercise / report out
- Homework





Trip Planning Checklist
☐ Ideal Trip Plan
☐ Check Weather forecast – adjust plan if required
☐ Pre-Departure briefing plan
Discuss what to expect based on weather, tides, currents
Hazards, hazardous areas and shelter options
☐ Timing constraints
Location of safety equipment on board and how to use it
Need for practice / drill prior to departure or certain hazards?
☐ Clarify crew roles and responsibilities (if more than 2 people on board)
☐ File a Float Plan
☐ Crew emergency contact list in case of emergency
☐ Rescue resources in planned travel area
☐ Methods to contact emergency responders (VHF radio, cell phone, other)
☐ Expected timeline to:
Get message for help to responders, and
☐ For responders to reach party

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#### QUARTERMASTER YACHT CLUB – Safe Trip Planning Tech Talk

# Safe Trip Planning - Pre-Departure Brief

- ☐ Introduce all crew members
- ☐ Route description / schedule
- ☐ Tides / currents / weather & associated hazards
- ☐ Alternate plans (open discussion)
- ☐ Hazards (open discussion)
- ☐ Crew discussions while underway
- ☐ Clarify crew positions for multi-member crews
- ☐ Set communication expectations
- ☐ Summarize: Risks / concerns / questions?
- ☐ Discuss plan to get underway

#### Things to Avoid #1:



Let the crew raise issues, Emphasize teamwork and communication



## Safe Trip Planning - Communication

- Avoid jargon
- Describe non-verbal signals
- Communicate information & intent
- Who, what, where, when, why, how
- Feedback
  - Say it, have it repeated back to you, confirm
- Listen first seek understanding, ask open questions
- Is crew ready, able & willing to listen?

#### Like this:





### Safe Trip Planning - Communication

- Avoid jargon
- Describe non-verbal signals
- Communicate information <u>&</u> intent
- Who, what, where, when, why, how
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  - Say it, have it repeated back to you, confirm
- Listen first seek understanding, ask open questions
- Is crew ready, able & willing to listen?

#### Like this:



#### Not this:



# Safe Trip Planning - When things go wrong

#### Consider a medical emergency while underway

- First aid response <u>plus</u> a boat management requirement
- Accident response process quick summary
- Resource acquisition calling for help quick summary
- Resource application
- Decision making process steps
- Consider options and alternatives location, time of day, time of year, communication availability, type of medical injury and required response

Taking charge and situation assessment - most important first steps



#### QUARTERMASTER YACHT CLUB — Rescue / Lifesaving Tech Talk

### Rescue / Lifesaving - Rescue Response

#### **American Red Cross**

#### **Emergency Action Steps**

- Check
- Call
- Care
- Two different sets of rules
  - How are they different?
  - Why are they different?

# Mountaineers: Freedom of the Hills

#### 7 steps of incident response

- Take charge of the situation
- Guard against another incident
- Render life saving measures
- Protect the patient
- Establish extent of problem or injury
- Develop a plan
- Carry out the plan

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### Marine VHF Radio Use - Distress Calls

- Securite: General information
- Pan-Pan: Immediate assistance required
- Mayday: Life threatening
- Digital Selective Calling (DSC)
  - Maritime Mobile Service Identity (MMSI) #
  - Ship to Ship
  - Distress (Panic Button)

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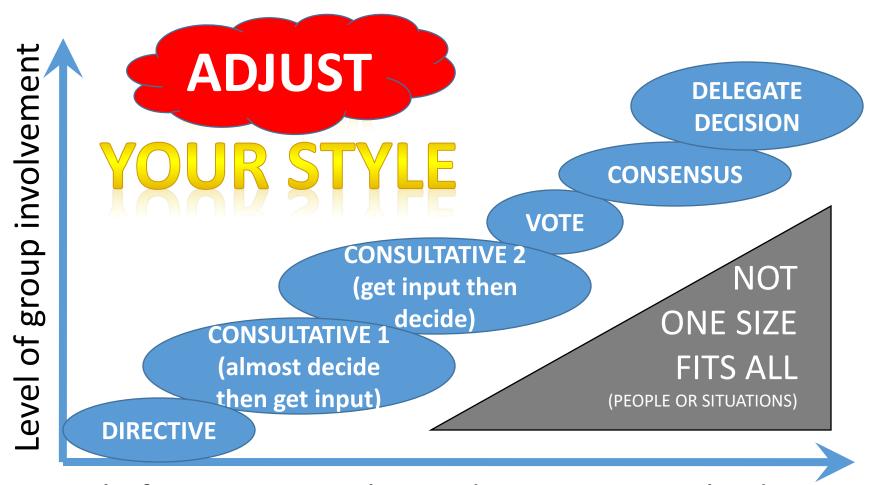
### **QUARTERMASTER YACHT CLUB – Safe Trip Planning Tech Talk**

# hings go wrong - Resource Application

- Use all information / active listening and clear communication / involve all group members in critical decisions
- Decision timeline how urgent / how critical
- Decision making steps
  - Clarify / validate the situation (multiple data sources)
  - Assess team skills against the environment / situation
  - Beware of selfish motivation(s) of the decision maker(s)
  - Involve participants in the decision
  - What decision making style depends on urgency / risk

What resources do you have, what do you need. Involve all crew members.

### Decision Making Styles



Level of group ownership and urgency to make decision

Source: NOLS



### Things go wrong - DECIDE Method

- Define the problem
- Educate yourself
- Consider your options
- Identify your choice
- Design a plan
- Evaluate the decision



- Based on this reflection, should you reconsider?
- Will your actions appear rationale in the "light of day"?

Final decision test - what are the risks and rewards in your plan?



### Things go wrong - Group Exercise

- Divide into groups
  - Family members separate

Each group has a "scenario"

Groups assess the situation / develop a plan

Each group reports out

#### **Things to Avoid #2:**





# Things go wrong - Group Exercise

Assumptions	s:							
	Away from shore							
	Boat is operational an	d remains operation	al					
	There is only the captain and first mate on board							
Condition:	Patient: Captain First Mate	Proximity to safe landing / anchorage or shelter	Proximity to safe landing or shelter with medical personnel	Communication access	Proximity to other boaters	Time of year	Wind / Waves	Location
Range of Condition	Intestinal distress, can communicate, cannot take helm	Within 15 minutes	Within 15 minutes	cell phone / VHF radio	Multiple other boats in view	winter	None / None	Puget Sound
	Severe leg contusion, severe bleeding, no broken bones	Within 30 minutes	Within 30 minutes	VHF radio only	Multiple other boats seen in the last 12 hours	spring	5 - 10Kts / 1 ft	Desolation Sound
	Broken leg, some bleeding	Within 1 hour	Within 1 hour	no cell phone or VHF radio	Multple other boats seen that day	summer	10 - 15 Kts / 2 ft	Broughtons
	Unconscious but breathing	Within 4 hours	Within 4 hours		Saw a boat yesterday	fall	15 - 20 Kts / 3 ft	Head of Knight Inlet
	Unconscious, not breathing	Greater than 4 hours	Greater than 4 hours		Saw a boat last week		20 - 25 Kts / 4 ft	
			Greater than 2 days		Don't recall when last boat was seen		> 25 Kts / > 4 ft	



### Things go wrong - Homework

- Your next boat trip
  - Captain will let first mate know prior to departure that at some time during the trip the captain will turn over the helm to the first mate to emulate a captain disabled situation
  - Talk through "what if" scenarios (eg: transiting Tacoma Narrows during ebb tide, what if the motor stopped right now, what would we do?)
  - First mate identifies something wrong with the boat and alerts captain, who plays out the "what if" scenario



### Things go wrong - Additional Training

- First aid / CPR / AED
- Wilderness or Alpine first aid Recommended
- Weather websites / how to read a weather map Tech Talk (planned)
- Independent research: Crew Resource Management



# Safe Trip Planning





#### Hands-On Tech Talk Open House

Join us for a weekend of hands-on practice!

Saturday, May 20:

8AM-10AM: VHF Radio

10AM-4PM: Man Overboard Life Sling\*

Sunday, May 21:

8AM-Noon: CPR/AED, Flare Use,

KnotTying

Noon - 2PM:

Anchor Rode Inspections \*\*

2PM-6PM:

Anchoring

Practice \*\*



\* Register: http://qycv.org/

\*\* Sígn up: kevínjonvash@gmail.com

Where: Quartermaster Yacht Club Meyers Hut
Down the hill from the pump house at:
23428 Vashon Hwy SW, Vashon, WA 98070