

At 0918 on Sept 3rd, 1995, an 845 foot long container ship collided with a 35' pleasure craft. The owners of the 35' vessel were unaware of the existance of Vessel Traffic Service (VTS) and the Traffic Separation Scheme (TSS) and ignorant of applicable collision regulations and other laws. The collision occurred in the shipping lanes and in foggy conditions.

This information and photo were provided by the Puget Sound Marine Safety Office



National Oceanic Atmospheric Administration

National Ocean Service



Puget Sound Vessel Traffic Service



This brochure is paid for in part by Washington State Parks and Recreation Commission Boating Programs with funds from marine fuel taxes paid by boaters and distributed through the U.S. Coast Guard



Safe Marine Transportation (SMART) Forum University of Washington School of Marine Affairs for more information call (206) 543-7004

Before

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Before Getting underway:

- 1. Consult a proper scale navigational chart of the area and the local tide and current tables.
- 2. Listen to the NOAA Weather Radio broadcast. If the forecast is bad, don't go out.
- 3. If it is foggy, do not leave your dock or your anchorage. Even if you have radar and a GPS, navigation in the fog can be hazardous.
- Be mindful of local traffic patterns, vessel traffic lanes and the VHF channels which commercial traffic uses. Many commercial vessels DO NOT monitor Channel 16 while participating with VTS.
- 5. Improve your chances of being seen on a ship's radar by installing a radar reflector as high as possible above the deck of your boat.

While underway:

- 6. Know and follow the "Rules of the Road". Be aware that specific rules apply in the vicinity of large ships when operating in narrow channels and vessel traffic separation lanes.
- 7. Stay clear of tankers and freighters. They have limited ability to maneuver. When a small vessel forces a tanker or freighter to maneuver, it may place it in danger of grounding or colliding with other vessels.
- Take early positive action to avoid close quarters situations with large commercial vessels. Avoid crossing ahead of, or operating your vessel close alongside a deep draft ship.
- Develop a situational awareness of all the vessels in your vicinity. Be aware that strict adherence to the Rules of the Road is not practical in crowded situations.
- 10. Maintain a proper lookout. The autopilot does not free you from the responsibility of keeping a good lookout.
- 11. Take early and substantial action to indicate your intention to change course and speed.
- 12. Turn on your navigation lights between sunset and sunrise and in restricted visibility. They help to ensure that other vessels can see you.

For More Sinformation Contact:

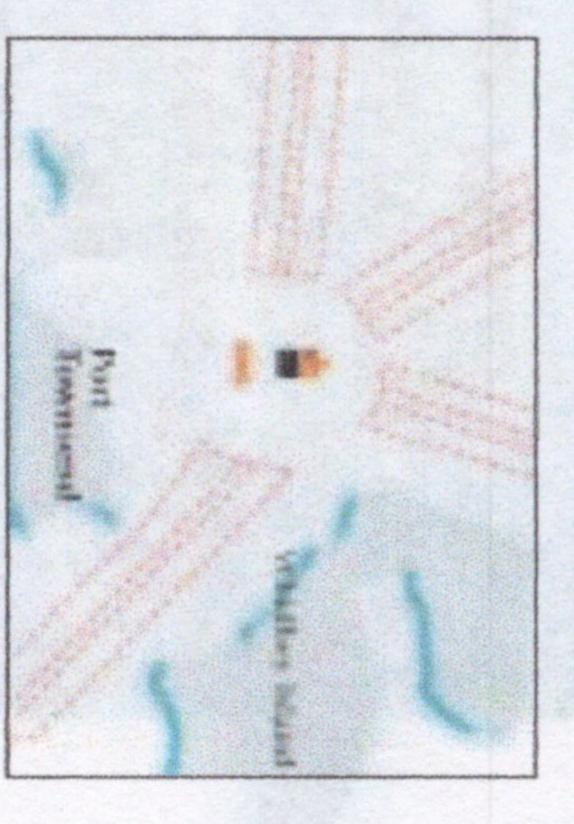
Boating classes and USCG information hot line 1-800-368-5647 on line boating safety courses = www.boatus.com
1-800-982-8813 USCG Auxiliary 13th District
1-800-336-2628 Boats US course line
1-888-367-8777 Power Squadron

puget Sound Marine Highway

The Coast Guard manages the

Puget Sound Vessel Traffic Service (VTS

- Vessels greater than 20 meters (65 feet) in length are required to participate in VTS and should contact Puget Sound VTS to obtain a copy of their User Manual.
- There are charted shipping lanes and conver gence zones.
- Sailboats operating a motor are considered power driven yessels whether or not the sails are rigged.



North of Port Townsend 4 shipping lanes converge and 2.7kts currents combine to make this a challenging area to navigate.

Rules 9 and 10 of the International Collision Regulations establish the following requirements:

Avoid traffic lanes by as wide a margin as possible, if you must cross the lanes, cross them at 90 degrees. Clear the lanes as quickly as possible. Any vessel less than 20 meters (65 feet) shall not impede the passage of a vessel which can safely navigate only within a narrow channel or a vessel which is using a designated shipping lane. Don't cause a grounding or put your life at risk by thinking a ship can get out of your way. It is more prudent to avoid large ships and go astern whenever possible.

Each year, VTS Puget Sound monitors the movement of over 230,000 vessels including 13,700 Deep Draft Ships 2,300 Oil Tankers 31,000 Tugand Tows 176,000 crossing by Washington State Ferries

Radio Communications.

- Cellular phones cannot replace the VHF-FM marine radio's ability to communicate marine safety information with multiple marine users at one time.
- If you only have a cell phone and need assistance call either *CG or #CG
- To reduce interference, always use low power when calling on your VHF-FM radio.
- Never use your radio for Ballard Locks or bridge openings except at night or in an emergency.
- Small recreational and fishing vessels are encouraged to maintain a listening watch on VTS's
 multichannel communications system, and to contact VTS if essential to navigational safety.
- Small boaters are encouraged to contact Coast Guard Search and Rescue on Channel 16 or VTS in an emergency.
- Maintain a passive listening watch and monitor the following radio channels

Channel Location

- 5A Strait of Juan de Fuca and San Juan Islands (Primary VTS frequency)
- 11 Vancouver, Strait of Georgia, Boundary Pass, Haro Strait, and approaches to Victoria (Primary VTS frequency)
- 13 Vessel BRIDGE to Vessel BRIDGE (Secondary VTS frequency)
- 14 Southern Puget Sound (Primary VTS frequency)
- 16 International Distress and Calling (not monitored by VTS participants)
- 74 West of Vancouver Island (Primary VTS frequency)

For More Suformation Contact:

North Pacific Marine Radio Council 206-526-0200

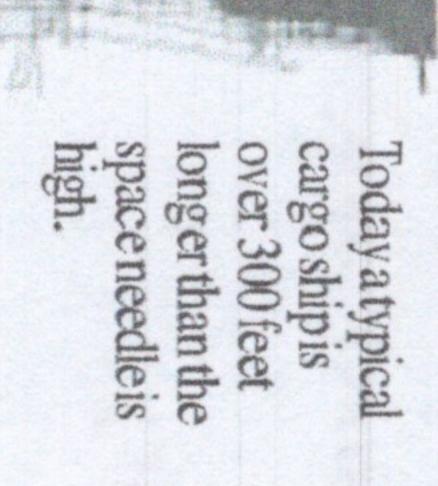
Puget Sound VTS 206-217-6050

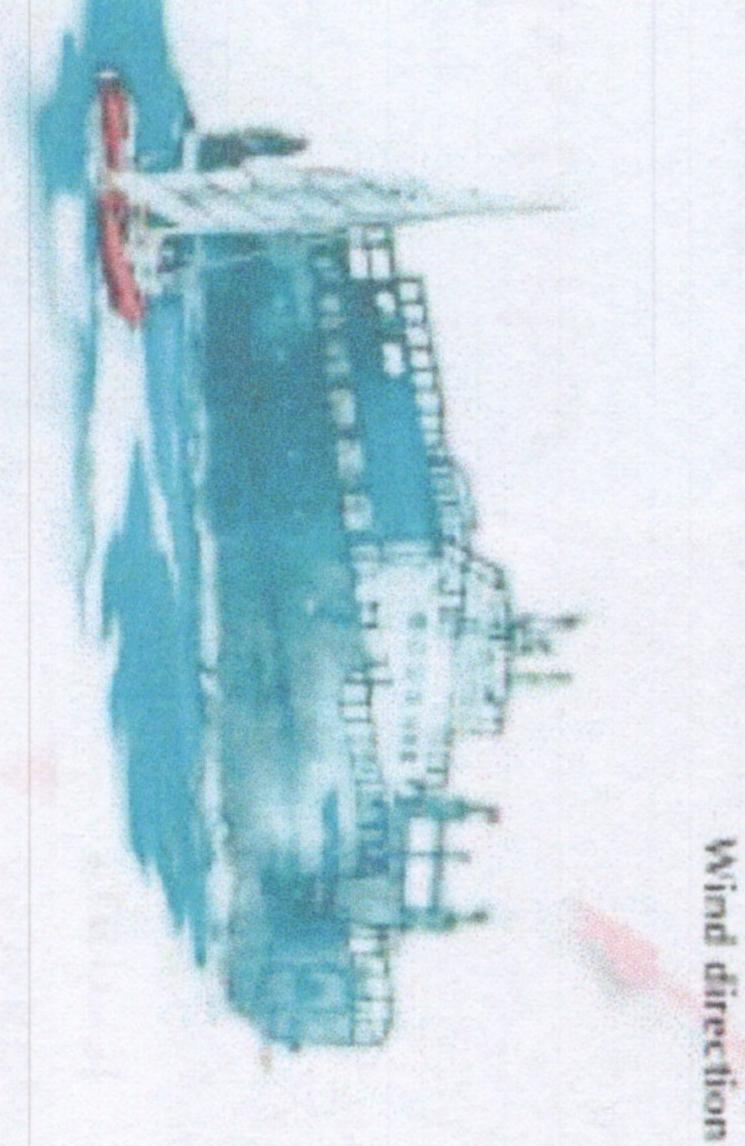
http://www.uscg.mil/d13/units/VTS/boaters.html

Canadian CG Pacific Region Marine Comms and Traffic Services http://www.island.net/~comoxcg/main.htm

USCG Navigation information service 1-703-313-5900







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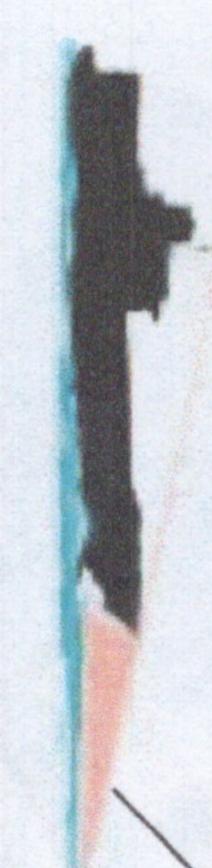
- (over 650' ship mile arad traveling over eight minutes) at 11kts requires ship lengths to come to an emergency stop
- For a typical large ship a 90 degree turn will cover 1/3 of a mile and take two minutes
- No amount of speed will overcome small boats should always pass the well astern of a ship, passenger ferry suction of a large ship's prop wash. Jet skis and or tug and tow.
- you hear five or more short blasts you are standing into danger and you should take

If you hear a very long blast (7-10 seconds) it is likely a vessel attempting to attract your attention.

Stay clear of tanker traffic in Rosario Strait and Guemes Channel. These channels are very narrow.

NEVER 60 between TUG and MOL

Stay clear of the ferry docks. The ferry could depart at any time!



Often large ship is limited (due to cargo). visibility from the bridge of a

Washington anadian /www.uscg.mil/d1 Coast Guard State Pacific 3/units/vts/psvts.html 1-800-843-3779 Region http:/ http://www.wsdot.wa.gov/ferries/ 199.60.85.201

eristics

Time 2hr 3hr Ohr H Hypothermiaresults when abody looses heat faster than it can produce it. Life Jacketshelp protect you against hypothermia Hypothermia cankilly ou in less than an hour in the Puget Sound Puget Sound water temperature vary between 45-55 degrees year-round, If you fall into cold water on a hot day the "gaspreflex" could cause instant 40° 50° Water Temperature safe zone

lides and Currents

- Always check the tide and current tables before handling, fuel consumption, and Estimated time you leave. and arrival They can affect your
- Extreme tides and currents occur during the Full Moon and New Moon.
- Tide rips occur off prominent points and in narrow particularly heavy, off Deception Pass, and Point W llson. Cape Flattery, straits. Race Rocks, Dungeness Currents are
- High tide or low tide times change by See center Chart for maximum current values in critical areas. 50 minutes each day

56-63 kts 20'-30 Waves	48-55-kts	34-47 kts 13'-20' Waves	28-33 kts 13'-20' Waves	22-27 kts 8'-13' Waves	17-21 kts 4'-8' Waves	11-16 kts 2'-4' Waves	7-10 kts 1-2' Waves	Wind Sea Conditions	ind Speed /Sea Height Relationships
	Storm Warming		Calle Porce			Small Craft		Warning	Relationships

Marine Weather

or check the web for the most up to Monitor your NOAA weather radio date marine weather information.

Greater Puget Sound area. Fog is a common occurrence in the

a radar reflector. In fog, a ship's radar may not pick up

of Marine Information:

Current Weather Forecasts for Alaska = http://www.alaska.net/~nwsar Real Time NOAA Data Buoy Information = http://www.ndbc.noaa.gov/index.html Port Operations Predicted Tides and Currents= Marine Global Wave and Water Temperature Information = http://www.fnoc.navy.mil/ weather links & more: Weather Weather Forecasts Info Forecasts for http://www.uscg.mil/hq/g-m/safeports/west_coast/puget_sound/ for Washington = 206-526-6987 http://www.opsd.nos.noaa.gov http://WWw.seauleboating.com/weather.html Janada = http://www.island.net/~comoxcg/main.htm = http://www.seawfo.noaa.gov/