

Vessel Entries And Transits for Washington Waters

VEAT 2009

OVERVIEW

This **Vessel Entries And Transit** - "**VEAT**"- data is offered by the Washington State Department of Ecology (Ecology) in response to public requests for information about commercial vessel traffic in Washington waters. The data identifies vessels tracked by Ecology. These include:

- Cargo and passenger vessels 300 gross tons and larger; and
- Tank ships and tank barges, transporting oil, of any tonnage.
- Starting in 2007, **VEAT** data classifies tankers carrying edible oil or tallow as tank ships and not Cargo & Passenger (C&P) vessels. This change reflects the change in the definition of "oil" under Washington State law. See page 2 - Tank Ship Classifications - in **VEAT** for detailed description of how tank ships are classified and counted for this report.

VEAT lists data by vessel destination and vessel type, and does not reflect specific products or commodities transported or delivered.



Washington State Department of Ecology
Spill Prevention, Preparedness
and Response Program
P.O. Box 47600
Olympia, WA 98504-7600

WDOE Publication 10-08-004
April 2010
For additional copies
call (360) 407-7455

TERMS AND DEFINITIONS

C & P

Cargo and passenger vessels 300 gross tons or larger.

TANK SHIP (TANKER)

A self-propelled tank vessel of any gross tonnage, engaged in the transport of oil, chemicals, tallow or biologically derived plant oils. See next column for detailed description of how tankers are classified and counted for this report.

ENTERING TRANSIT

The passage of a vessel from sea or from Canadian waters into Washington State waters, regardless of destination. The trip back to sea is not counted. A vessel may be credited with multiple entering transits over a specified period, such as a calendar year.

Entering transits on the Columbia River that call at a Washington port *and* an Oregon port during a single voyage on the Columbia River are counted as an entering transit bound for a Washington port.

INDIVIDUAL VESSEL

A vessel counted only once within a specified time period (such as a calendar year), even if the vessel calls in Washington State waters more than once during the specified time period.

TANK BARGE

A barge of any tonnage, engaged in the transport of oil, chemicals, tallow or biologically derived plant oils.

TANK BARGE TRANSIT

Any significant move between two locations, via Washington State waters, while transporting oil or chemicals.

FERRY

Any ferry boat 300 gross tons or larger operating in Washington State waters. Ferries with a fuel capacity of fewer than 6,000 gallons are not regulated by Ecology, even if they are 300 gross tons or larger. There were no ferries of 300 gross tons or larger operating on the Columbia River or in Grays Harbor/Aberdeen during calendar year 2009. A ferry transit is defined as any trip from an origination terminal to a destination terminal.

TANK SHIP CLASSIFICATIONS IN VEAT

CHEMICAL TANKERS

Chemical tankers are counted as petroleum tankers. Prior to 2007, chemical tankers carrying non-petroleum products and edible oil were counted as cargo and passenger vessels. As of 2007, these vessels are counted as tankers to reflect the change in the definition of "oil" under Washington State law. Chemical tankers are included in the tank ship section of VEAT, items 10-18.

OIL TANKERS

Tankers certified to carry oil are counted as tankers. Prior to 2007, oil tankers carrying tallow or biologically derived plant oils (e.g. bio-diesel) were counted as cargo and passenger vessels. As of 2007, these vessels are counted as tank ships to reflect the change in the definition of "oil" under Washington State law. Oil tankers are included in the tank ship section of VEAT, items 10-18.

LNG, LPG, AND LG TANKERS

Liquefied Natural Gas (LNG), Liquefied Petroleum Gas (LPG), and Liquefied Gas (LG) tankers are counted as bulk cargo carriers. These specialized vessels are not certified to transport crude oil, refined petroleum products, or chemicals. Some examples of the products carried by these vessels are: LNG (methane), LPG (propane or butane), and LG (anhydrous ammonia). LNG, LPG, and LG tankers are included in the cargo and passenger section of VEAT, items 1-9.

O/B/O VESSELS (OIL/BULK/ORE)

O/B/O vessels are multi-purpose tanker/bulkers that are certified to transport petroleum products and chemicals. O/B/O vessels that transported oil in Washington during the calendar year are included in the tank ship section of VEAT, items 10-18.

TANKERS BOUND FOR SHIPYARDS

Tankers bound for shipyards for repair and routine maintenance are required to be empty, clean, and gas free. Since these vessels are not transporting petroleum products or chemicals, they are included in the cargo and passenger section of VEAT, items 1-9.

TANKERS BOUND FOR LAY-UP

Tankers bound for lay-up are required to be empty, clean and gas free. These vessels are included in the cargo and passenger section of VEAT, items 1-9.

Department of Ecology

VESSEL ENTRIES AND TRANSITS: 2009

| VESSEL TYPE AND DESTINATION | ENTERING TRANSITS | INDIVIDUAL VESSELS |
|--|-------------------|--------------------|
| 1) C & P bound for Washington ports in Puget Sound via Strait of Juan de Fuca | 1,721 | 699 |
| 2) C & P bound for Washington ports in Puget Sound via Strait of Georgia & Haro Strait | 572 | 179 |
| 3) C & P bound for Washington ports on the Columbia River | 602 | 505 |
| 4) C & P bound for Gray's Harbor/Aberdeen | 42 | 30 |
| 5) C & P bound for Washington ports: (Sum of 1-4 above) | 2,937 | 1,413 |
| 6) C & P bound for Oregon ports on the Columbia River | 684 | 416 |
| 7) C & P bound for Canadian ports via Strait of Juan de Fuca | 1,798 | 1,041 |
| 8) C & P bound for U.S. ports (Sum of 5 & 6 above) | 3,621 | 1,829 |
| 9) C & P grand total (Sum of 5-7 above) | 5,419 | 2,870 |
| 10) Tank ships bound for Washington ports in Puget Sound via Juan de Fuca | 607 | 107 |
| 11) Tank ships bound for WA ports in Puget Sound via Strait of Georgia & Haro Strait | 29 | 25 |
| 12) Tank ships bound for Washington ports on the Columbia River | 57 | 43 |
| 13) Tank ships bound for Grays Harbor/Aberdeen | 5 | 5 |
| 14) Tank ships bound for Washington ports: (Sum of 10-13 above) | 698 | 180 |
| 15) Tank ships bound for Oregon ports on the Columbia River | 54 | 16 |
| 16) Tank ships bound for Canadian ports via Strait of Juan de Fuca | 204 | 120 |
| 17) Tank ships bound for U.S. ports (Sum of 14 & 15 above) | 752 | 196 |
| 18) Tank ship grand total (Sum of 16 & 17 above) | 956 | 316 |
| 19) Grand totals: all vessels, all destinations (Sum of 9 & 18) | 6,375 | 3,186 |

| TANK BARGES (OPERATING AREA) | TRANSITS |
|---|--------------|
| 1) Puget Sound | 3,569 |
| 2) Columbia River | 948 |
| 3) Grays Harbor/Aberdeen | 0 |
| 4) Grand total of transits in Washington waters (Sum of 1-3 above) | 4,517 |
| 5) Total number of individual tank barges operating in Washington State waters in 2009: | 70 |
| 6) Number of barge companies that operate tank barges in Puget Sound: | 6 |
| 7) Number of barge companies that operate tank barges on the Columbia River: | 8 |
| 8) Number of barge companies that operate tank barges in Grays Harbor/Aberdeen: | 0 |
| 9) Total number of barge companies that operate tank barges on Washington waters: | 10 |

| FERRIES (PUGET SOUND) | TRANSITS | INDIVIDUAL FERRIES |
|---------------------------------|----------------|--------------------|
| 1) Washington State Ferries | 161,498 | 20 |
| 2) Alaska Marine Highway System | 104 | 2 |
| 3) Black Ball Transport, Inc. | 1,790 | 1 |
| 4) Total (Sum of 1-3 above) | 163,392 | 23 |

DATA COLLECTION

PREVIOUS DATA

Vessel Entry and Transit Data for Washington waters has been collected by Ecology for sixteen years. To obtain copies of VEAT 1993 through VEAT 2009, please contact the Department of Ecology – Spills Program (360) 407-7455. VEAT 1998 through VEAT 2009 are also available on the Ecology Website, at <http://www.ecy.wa.gov/biblio/spills.html>

FISHING VESSEL CLASSIFICATION

COMMERCIAL FISHING VESSEL

Any commercial fishing vessel 300 gross tons or larger, including: trawlers, seiners, purse seiners, longliners, crabbers, ground fishers, scallopers, etc.

FACTORY FISHING VESSEL/FISH PROCESSOR

Any commercial factory fishing vessel or fish processor 300 gross tons or larger “that commercially prepares fish or fish products other than by gutting, decapitating, gilling, skinning, shucking, icing, freezing, or brine chilling.” [USCG definition contained in *Federal Requirements for Commercial Fishing Industry Vessels*.]

NOTE: All data in this publication are for calendar year 2009.

WASHINGTON STATE

Department of Ecology

VESSEL ENTRIES AND TRANSITS: 2009

| COMMERCIAL FISHING VESSELS AND FACTORY FISHING VESSELS/FISH PROCESSORS | ENTERING TRANSITS | INDIVIDUAL VESSELS |
|--|-------------------|--------------------|
| 1) Commercial fishing vessels bound for Washington ports via Strait of Juan de Fuca | 24 | 17 |
| 2) Commercial fishing vessels bound for WA ports via Strait of Georgia & Haro Strait | 74 | 25 |
| 3) Total commercial fishing vessels bound for Washington ports in Puget Sound via Strait of Juan de Fuca, Strait of Georgia, and Haro Strait (Sum of 1 & 2 above) | 98 | 42 |
| 4) Commercial fishing vessels bound for Canadian ports via Strait of Juan de Fuca | 5 | 2 |
| 5) Total commercial fishing vessels bound for Washington ports in Puget Sound or transiting Washington waters enroute to Canada (Sum of 3 & 4 above) | 103 | 44 |
| 6) Factory fishing vessels/fish processors bound for Washington ports via Strait of Juan de Fuca | 64 | 26 |
| 7) Factory fishing vessels/fish processors bound for Washington ports via Strait of Georgia and Haro Strait | 22 | 18 |
| 8) Total factory fishing vessels/fish processors bound for WA ports in Puget Sound via Strait of Juan de Fuca, Strait of Georgia, and Haro Strait (Sum of 6 & 7 above) | 86 | 44 |
| 9) Factory fishing vessels/fish processors bound for Canadian ports via Strait of Juan de Fuca | 4 | 2 |
| 10) Total factory fishing vessels/fish processors bound for Washington ports in Puget Sound or transiting Washington waters enroute to Canada (Sum of 8 & 9 above) | 90 | 46 |
| 11) Grand total any type fishing vessel bound for all destinations (Sum of 5 & 10 above) | 193 | 90 |

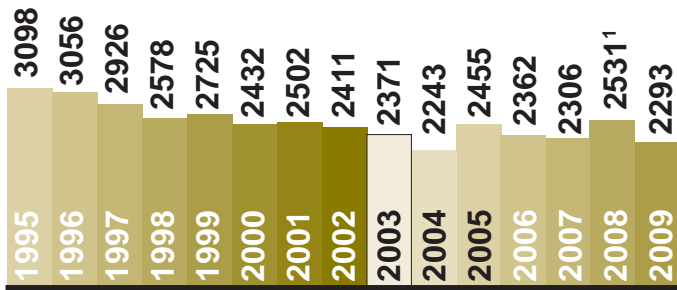
NOTE: Fishing vessels and factory fishing vessels/fish processors are also included in cargo and passenger totals.



COMPARISON OF VEAT 1995 THROUGH VEAT 2009

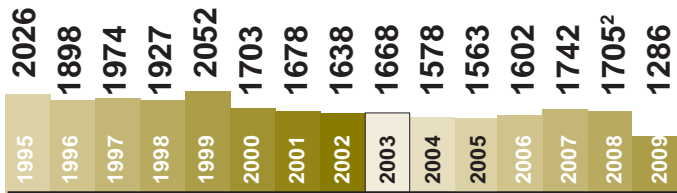
DEPARTMENT OF
ECOLOGY
State of Washington

Cargo and Passenger Vessels: Entering Transits into Washington Waters



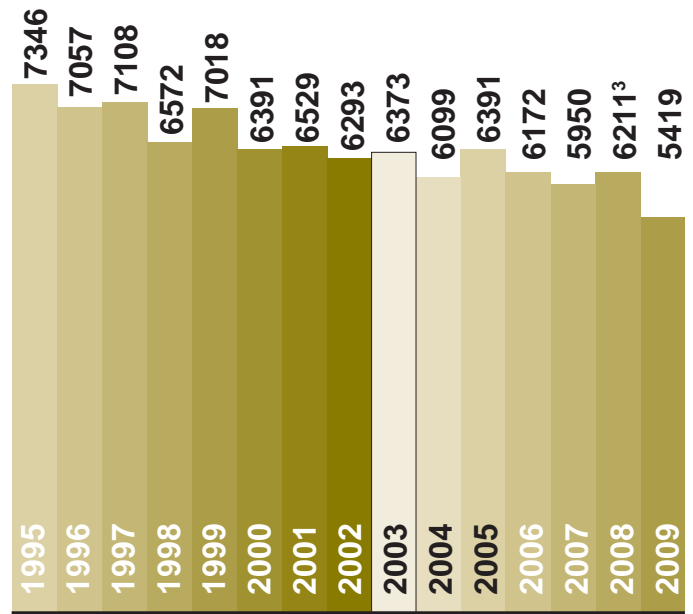
To Puget Sound
Ports Only

¹Sum of 1 & 2: C & P (p.2)



To Columbia
River Ports Only

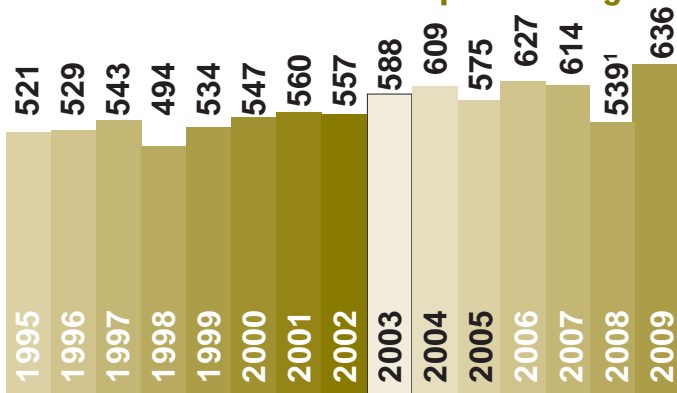
²Sum of 3 & 6: C & P (p.2)



TOTAL (Including Canadian
Ports and Grays Harbor)

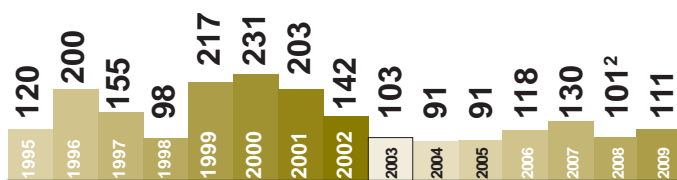
³Item 9: C & P (p.2)

Tank Ships: Entering Transits into Washington Waters



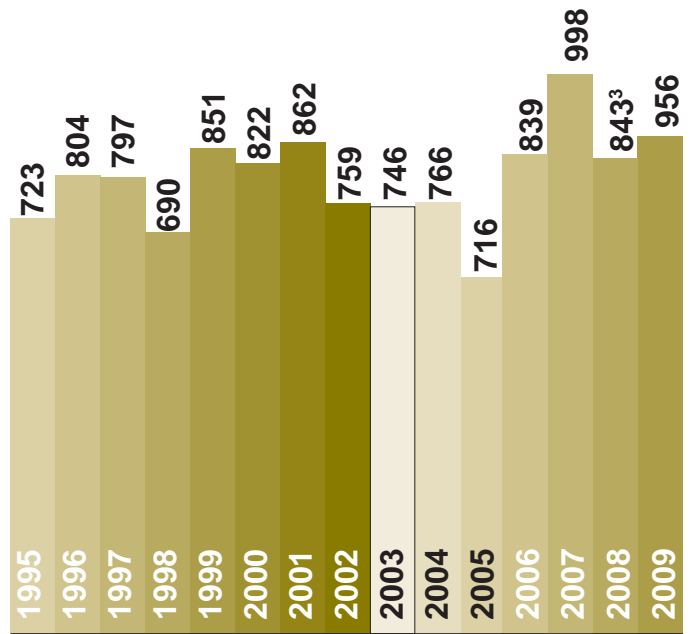
To Puget Sound
Ports Only

¹Sum of 10 & 11: Tank Ships (p.2)



To Columbia
River Ports Only

²Sum of 12 & 15: Tank Ships (p.2)



TOTAL (Including Canadian
Ports and Grays Harbor)

³Item 18: Tank Ships (p.2)

DATA SOURCES

TOFINO VESSEL TRAFFIC (CANADIAN CG)

- *Strait of Juan de Fuca and Puget Sound*

VANCOUVER VESSEL TRAFFIC (CANADIAN CG)

- *Strait of Georgia, Haro Strait, and Puget Sound*

MERCHANTS EXCHANGE OF PORTLAND

- *Columbia, Willamette, and Snake River Systems*

WASHINGTON BOARD OF PILOTAGE COMMISSIONERS

- *Grays Harbor/Aberdeen/Hoquiam*

WASHINGTON STATE FERRIES

- *Puget Sound ferry traffic*

ALASKA MARINE HIGHWAY SYSTEM

- *Washington/Alaska ferry traffic*

BLACK BALL TRANSPORT, INC.

- *Washington/Victoria ferry traffic*

PUGET SOUND PILOTS

- *Tankers bound for lay-up in Puget Sound*

COLUMBIA RIVER PILOTS

- *Tankers bound for lay-up on Columbia River*

TODD PACIFIC SHIPYARDS CORPORATION

- *Tankers bound for Todd Shipyard in Seattle*

CASCADE GENERAL SHIPYARD

- *Tankers bound for Cascade General Shipyard (Swan Is.)*

J.R. SIMPLOT COMPANY – PORTLAND

- *LNG/LPG/LG Tankers calling at J.R. Simplot – Rivergate*

PORT OF VANCOUVER, B.C. HARBOR MASTER

- *Tallow tankers calling Port of Vancouver, B.C.*

ECOLOGY MARINE INFORMATION SYSTEM DATABASE

- *Vessel data collected by the Department of Ecology*

ECOLOGY ADVANCE NOTICE OF TRANSFER DATABASE

- *Oil transfer data collected by the Department of Ecology*

OLYMPIC COAST NATIONAL MARINE SANCTUARY

- *Area To Be Avoided (ATBA) data*

AGENCY CONTACT

For more information about the data in this publication, please contact:

CAPTAIN LAURA STRATTON

Vessel Inspector

Phone: (360) 407-7485 FAX (360) 407-7288

E-mail: laura.stratton@ecy.wa.gov

<http://www.ecy.wa.gov/programs/spills/spills.html>

If you need this publication in an alternate format, call the Spills Program at 360-407-7455. Persons with hearing loss, call 711 for Washington Relay Service. Persons with a speech disability, call 877-833-6341.



Please reuse and recycled

INTERNATIONAL MARITIME ORGANIZATION (IMO)

AREA TO BE AVOIDED

OFF THE WASHINGTON COAST

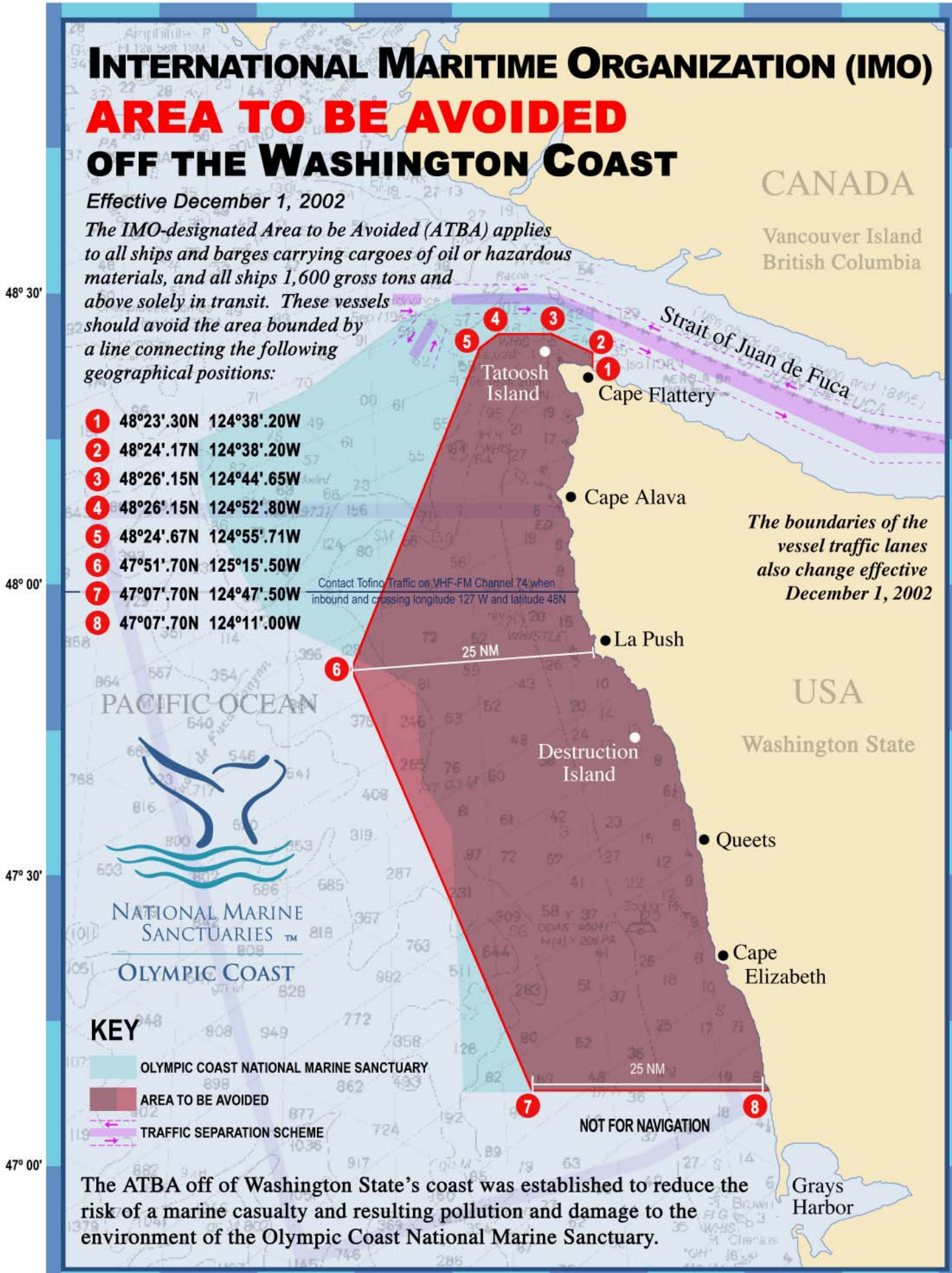
Effective December 1, 2002

The IMO-designated Area to be Avoided (ATBA) applies to all ships and barges carrying cargoes of oil or hazardous materials, and all ships 1,600 gross tons and above solely in transit. These vessels should avoid the area bounded by a line connecting the following geographical positions:

- 1 48°23'.30N 124°38'.20W
- 2 48°24'.17N 124°38'.20W
- 3 48°26'.15N 124°44'.65W
- 4 48°26'.15N 124°52'.80W
- 5 48°24'.67N 124°55'.71W
- 6 47°51'.70N 125°15'.50W
- 7 47°07'.70N 124°47'.50W
- 8 47°07'.70N 124°11'.00W

Contact Tofino Traffic on VHF-FM Channel 74 when inbound and crossing longitude 127° W and latitude 48°N

The boundaries of the vessel traffic lanes also change effective December 1, 2002



The ATBA off of Washington State's coast was established to reduce the risk of a marine casualty and resulting pollution and damage to the environment of the Olympic Coast National Marine Sanctuary.

VESSEL TRANSITS THROUGH THE OLYMPIC COAST NATIONAL MARINE SANCTUARY AND AREA TO BE AVOIDED (ATBA)

See map on reverse side.

During Calendar Year 2009

The International Maritime Organization (IMO), a specialized agency of the United Nations, has designated the Area to be Avoided (ATBA) off the coast of Washington to reduce the risk of marine casualties including oil spills, and the resulting environmental damage in the Olympic Coast National Marine Sanctuary (Sanctuary). Vessels advised to stay clear of this ATBA include all ships and barges carrying cargoes of oil or hazardous materials and all ships 1,600 gross tons and larger. The Olympic Coast National Marine Sanctuary (sanctuary), in cooperation with the U.S. and Canadian Coast Guards, monitors vessel compliance under this voluntary program. The Cooperative Vessel Traffic System (CVTS) collects data on all vessels entering and leaving the Strait of Juan de Fuca.

| Vessel Type | Transits in and out of the Strait of Juan de Fuca recorded by the CVTS ¹ | Transits passing through the Sanctuary ² | Transits passing through the ATBA within the Sanctuary ³ | Estimated ATBA Compliance Rate ⁴ |
|---|---|---|---|---|
| | 1 | 2 | 3 | 4 |
| Articulated Tank Barges | 265 | 257 | 1 | 99.6% |
| Bulk Carriers | 2,747 | 1,776 | 19 | 98.9% |
| Cable Layers | 23 | 10 | 0 | 100.0% |
| Chemical Tankers | 325 | 240 | 1 | 99.6% |
| Container Ships | 2,412 | 1,575 | 15 | 99.0% |
| Cruise Ships | 450 | 280 | 2 | 99.3% |
| Fishing Vessels (in transit) | 111 | 81 | 4 | 95.0% |
| General Cargo Ships | 487 | 366 | 5 | 98.6% |
| Heavy Load Carriers | 15 | 14 | 1 | 92.9% |
| Hopper Dredger | 2 | 2 | 0 | 100.0% |
| Liquefied Petroleum Gas Carriers (LPG) and Liquefied Natural Gas (LNG) Carriers | 6 | 3 | 0 | 100.0% |
| Non-oil Tankers | 73 | 57 | 1 | 98.2% |
| Oil Tankers | 1,056 | 838 | 7 | 99.2% |
| Ore-Bulk-Oil Vessels (OBO) | 12 | 7 | 0 | 100.0% |
| Refrigerated Ships | 6 | 4 | 0 | 100.0% |
| Roll-on Roll-off Vessels (RORO) | 353 | 201 | 2 | 99.0% |
| Vehicle Carriers | 402 | 323 | 1 | 99.7% |
| Tugs with Loaded Chemical Barges | 3 | 3 | 1 | 66.7% |
| Tugs with Loaded Oil Barges | 101 | 91 | 8 | 91.2% |
| TOTALS | 8,849 | 6,128 | 68 | 98.9% |

¹ The vessel transits in this column were provided by the CVTS and include commercial vessels greater than 1600 gross tons, or tugs with laden oil or chemical barges.

² This column includes a subset of the CVTS vessel transits through the sanctuary.

³ This column includes a subset of the sanctuary vessel transits that also go through the ATBA. These are vessels potentially not complying with the provisions of the ATBA. These are identified both by CVTS radar and by Seattle Marine Exchange AIS.

⁴ This column shows the percentage of vessels transiting through the Sanctuary that stayed out of the ATBA {Column 4 = 1 - (Column3/Column2)}. This is used as an estimate of compliance with ATBA provisions.