





Legislative background

- ESHB 1578 was passed in 2019 to reduce the risk of oil spills, and protect Southern Resident Killer Whales
- Ecology's Spills Program tasked to undertake or assist with multiple policy initiatives in the bill, including the development of an oil spill risk model









- Produce a tool to quantitatively assess current and potential oil spills risks from covered vessels in Washington waters
- Provide a framework for future oil spill risk analyses





















USCG AIS Data and Marine Exchange AIS Data

USCG provided data is averaged at 5 minute intervals

Marine Exchange data provides higher temporal resolution

No appreciable difference in geographic coverage



















ECOLOGY

27

<text><text><text><text>

up to 1km











External Rules

Need rules for:

- New rules that might not be apparent in the historical data
- Rules that only come into effect during certain times of the year
- Rules that are based on vessel interactions, i.e. only come into play under specific circumstances



External Rules

Rules to consider including in the VMM:

- Turn Point Special Operating Area
- Eastern San Juan Island Archipelago VTS Special Area Regulations
- Echo Program Voluntary Vessel Slowdown for Haro Strait and Boundary Pass
- Echo Program Strait of Juan de Fuca Voluntary Inshore Lateral Displacement
- Transport Canada Interim Sanctuary Zones
- Swiftsure Bank Voluntary Ship Slowdown Trial



<section-header><section-header><section-header><list-item><list-item><list-item><list-item>

<section-header><section-header><section-header><section-header><list-item><list-item><list-item><list-item><list-item><list-item><list-item>

Vessels Not Represented in AIS

Who isn't required to carry AIS?

- Recreational vessels
 - Sailboats
 - Yachts
- Commercial vessels under 65 feet
 - Whale watching vessels
 - Fishing vessels
- Towing Vessels under 26 feet



Vessels Not Represented in AIS

How to best approach this?

- Review of previous strategies
- Different approaches for different vessel types
- Open to your suggestions

















