A Washington State Ferry on the Kingston to Edmunds run, passing ahead of a container ship at approximately 1.6 nautical miles.

Since the two domains overlap, this model would classify the situation as an encounter.

Both vessels have a ship domain calculated using the Pentagonal model.

Car Ferry (eastbound)

- Length: 134 meters
- Beam: 26 meters
- Speed: 16.3 kts

Container Ship (northbound)

- Length: 294 meters
- Beam: 32 meters
- Speed: 18.2 kts



A Washington State Ferry on the Kingston to Edmunds run, passing ahead of a container ship at approximately 1.6 nautical miles.

Since the two domains do not overlap, this model would not classify the situation as an encounter.

Both vessels have a ship domain calculated using the QSD model.

Car Ferry (eastbound)

- Length: 134 meters
- Beam: 26 meters
- Speed: 16.3 kts

Container Ship (northbound)

- Length: 294 meters
- Beam: 32 meters
- Speed: 18.2 kts



Encounter Candidates 3-4

These maps show vessels ranging in length from 180 to 350 meters, and at speeds from 8 to 22 knots.

These examples illustrate how ship domain size and shape is linked to vessel length and speed.

The examples use the Pentagonal Model.



Eastbound Bulk Carrier: Length 180m; Beam 30m; 8.1kts Westbound Bulk Carrier: Length 235m; Beam 38m; 9.8 kts Eastbound Container Ship: Length 350m; Beam 46m; 10.9 kts Westbound Container Ship: Length: 256m; Beam 36m; 22.3 kts

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Pentagonal ship domain

Encounter Candidates 5-6

These maps show vessels ranging in length from 180 to 350 meters, and at speeds from 8 to 22 knots.

These examples illustrate how ship domain size and shape is linked to vessel length and speed.

These examples use the QSD Model.



Eastbound Bulk Carrier: Length 180m; Beam 30m; 8.1kts Westbound Bulk Carrier: Length 235m; Beam 38m; 9.8 kts Eastbound Container Ship: Length 350m; Beam 46m; 10.9 kts Westbound Container Ship: Length: 256m; Beam 36m; 22.3 kts

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A southbound car carrier overtaking a tug and barge. The tug's ship domain is based solely on the dimensions of the tug. The barge is not represented.

The tug's domain is barely visible as a green dot, just south of the edge of the car carrier's grey ship domain.

Both vessels have a ship domain calculated using the Pentagonal model.

Car Carrier

- Length: 244 meters
- Beam: 32 meters
- Speed: 19.5 kts

Tug

- Length: 22 meters
- Beam: 8 meters
- Speed: 5.4 kts



A southbound car carrier overtaking a tug and barge. The tug's ship domain is based on the combined dimensions of the tug and barge.

The values for the dimension of the barge and the length of the tow are estimated, and included below.

Car Carrier

- Length: 244 meters
- Beam: 32 meters
- Speed: 19.5 kts

Tug and Barge

- Overall Length: 375 meters
- Overall Beam: 29 meters
- Length of Barge: 115 meters
- Length of Tow: .13 nautical miles
- Speed: 5.4 kts



Vessels at Anchor

Two anchored ATBs, one in Vendovi Island South and the other in Vendovi Island East. The map also shows a northbound escort tug underway to Bellingham.

The ship domains are calculated using the Pentagonal model. The ATBs domains are calculated using the length of the tug and barge, and the beam of the barge.

Vendovi South ATB

- Length: 207 meters
- Beam: 23 meters
- Speed: 0.1 kts

Vendovi East ATB

- Length: 172 meters
- Beam: 23 meters
- Speed: 0.1 kts

Escort Tug

- Length: 48 meters
- Beam: 14 meters
- Speed: 9 kts

