

*Ship Drift Analysis for the
Northwest Olympic Peninsula and the
Strait of Juan de Fuca*

Appendix B: Additional Model Simulations

HAZMAT Report 97-5

July 1997

Hazardous Materials Response and Assessment Division
Office of Ocean Resources Conservation and Assessment
National Ocean Service
National Oceanic and Atmospheric Administration
Seattle, Washington

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Appendix B

Additional Model Simulations

This appendix contains extra ship drift scenarios requested by the United States Coast Guard as part of a study of a Tug of Opportunity System in the Strait of Juan de Fuca and the Olympic Coast National Marine Sanctuary. For the original five modeled sites, simulations were run for additional time periods (2 and 6-hour presentations shown in Figures B-1 through B-48). In addition, a full set of model simulations were run for a new location, site 6, at 48° 30.04'N, 124° 58.99'W (shown in Figures B-49 through B-148). Details of the analysis used to generate these scenarios can be found in HAZMAT Report 97-3, *Ship Drift Analysis for the Northwest Olympic Peninsula and the Strait of Juan de Fuca*.

Contents

B-1.	Map of 2-hour probability contours, winter, 2 percent drift for five sites.....	B-1
B-2.	Map of 6-hour probability contours, winter, 2 percent drift for five sites.....	B-2
B-3.	Map of 2-hour probability contours, winter, 4 percent drift for five sites.....	B-3
B-4.	Map of 6-hour probability contours, winter, 4 percent drift for five sites.....	B-4
B-5.	Map of 2-hour probability contours, winter, 6 percent drift for five sites.....	B-5
B-6.	Map of 6-hour probability contours, winter, 6 percent drift for five sites.....	B-6
B-7.	Map of 2-hour probability contours, winter, 8 percent drift for five sites.....	B-7
B-8.	Map of 6-hour probability contours, winter, 8 percent drift for sites 1, 3, and 5.....	B-8
B-9.	Map of 6-hour probability contours, winter, 8 percent drift for sites 2 and 4.....	B-9
B-10.	Map of 2-hour probability contours, winter, 10 percent drift for five sites.....	B-10
B-11.	Map of 6-hour probability contours, winter, 10 percent drift for sites 1, 3, and 5.....	B-11
B-12.	Map of 6-hour probability contours, winter, 10 percent drift for sites 2 and 4.....	B-12

B-13.	Map of 2-hour probability contours, spring, 2 percent drift . for five sites.....	B-13
B-14.	Map of 6-hour probability contours, spring, 2 percent drift for five sites.....	B-14
B-15.	Map of 2-hour probability contours, spring, 4 percent drift for five sites.....	B-15
B-16.	Map of 6-hour probability contours, spring, 4 percent drift for five sites.....	B-16
B-17.	Map of 2-hour probability contours, spring, 6 percent drift for five sites.....	B-17
B-18.	Map of 6-hour probability contours, spring, 6 percent drift for five sites.....	B-18
B-19.	Map of 2-hour probability contours, spring, 8 percent drift for five sites.....	B-19
B-20.	Map of 6-hour probability contours, spring, 8 percent drift for sites 1, 3, and 5.....	B-20
B-21.	Map of 6-hour probability contours, spring, 8 percent drift for sites 2 and 4.....	B-21
B-22.	Map of 2-hour probability contours, spring, 10 percent drift for five sites.....	B-22
B-23.	Map of 6-hour probability contours, spring, 10 percent drift for sites 1, 3, and 5.....	B-23
B-24.	Map of 6-hour probability contours, spring, 10 percent drift for sites 2 and 4.....	B-24
B-25.	Map of 2-hour probability contours, summer, 2 percent drift for five sites.....	B-25

B-26.	Map of 2-hour probability contours, summer, 6 percent drift for five sites.....	B-26
B-27.	Map of 2-hour probability contours, summer, 4 percent drift for five sites.....	B-27
B-28.	Map of 6-hour probability contours, summer, 4 percent drift for five sites.....	B-28
B-29.	Map of 2-hour probability contours, summer, 6 percent drift for five sites.....	B-29
B-30.	Map of 6-hour probability contours, summer, 6 percent drift for five sites.....	B-30
B-31.	Map of 2-hour probability contours, summer, 8 percent drift for five sites.....	B-31
B-32.	Map of 6-hour probability contours, summer, 8 percent drift for sites 1, 3, and 5.....	B-32
B-33.	Map of 6-hour probability contours, summer, 8 percent drift for sites 2 and 4.	B-33
B-34.	Map of 2-hour probability contours, summer, 10 percent drift for five sites.....	B-34
B-35.	Map of 6-hour probability contours, summer, 10 percent drift for sites 1, 3, and 5.....	B-35
B-36.	Map of 6-hour probability contours, summer, 10 percent drift for sites 2 and 4.	B-36
B-37.	Map of 2-hour probability contours, fall, 2 percent drift for five sites.	B-37
B-38.	Map of 6-hour probability contours, fall, 2 percent drift for five sites.	B-38
B-39.	Map of 2-hour probability contours, fall, 4 percent drift for five sites.	B-39

B-40.	Map of 6-hour probability contours, fall, 4 percent drift for five sites.	B-40
B-41.	Map of 2-hour probability contours, fall, 6 percent drift for five sites.	B-41
B-42.	Map of 6-hour probability contours, fall, 6 percent drift for five sites.	B-42
B-43.	Map of 2-hour probability contours, fall, 8 percent drift for five sites.	B-43
B-44.	Map of 6-hour probability contours, fall, 8 percent drift for sites 1, 3, and 5.	B-44
B-45.	Map of 6-hour probability contours, fall, 8 percent drift for sites 2 and 4.....	B-45
B-46.	Map of 2-hour probability contours, fall, 10 percent drift for five sites.	B-46
B-47.	Map of 6-hour probability contours, fall, 10 percent drift for sites 1, 3, and 5.	B-47
B-48.	Map of 6-hour probability contours, fall, 10 percent drift for sites 2 and 4.....	B-48
B-49.	Map of 2-hour probability contours, winter, 2 percent drift for site 6.....	B-49
B-50.	Map of 4-hour probability contours, winter, 2 percent drift for site 6.....	B-50
B-51.	Map of 6-hour probability contours, winter, 2 percent drift . for site 6.....	B-51
B-52.	Map of 8-hour probability contours, winter, 2 percent drift . for site 6.....	B-52

B-53.	Map of 12-hour probability contours, winter, 2 percent drift for site 6.....	B-53
B-54.	Map of 2-hour probability contours, winter, 4 percent drift for site 6.....	B-54
B-55.	Map of 4-hour probability contours, winter, 4 percent drift for site 6.....	B-55
B-56.	Map of 6-hour probability contours, winter, 4 percent drift for site 6.....	B-56
B-57.	Map of 8-hour probability contours, winter, 4 percent drift for site 6.....	B-57
B-58.	Map of 12-hour probability contours, winter, 4 percent drift for site 6.....	B-58
B-59.	Map of 2-hour probability contours, winter, 6 percent drift for site 6.....	B-59
B-60.	Map of 4-hour probability contours, winter, 6 percent drift for site 6.....	B-60
B-61.	Map of 6-hour probability contours, winter, 6 percent drift for site 6.....	B-61
B-62.	Map of 8-hour probability contours, winter, 6 percent drift for site 6.....	B-62
B-63.	Map of 12-hour probability contours, winter, 6 percent drift for site 6.....	B-63
B-64.	Map of 2-hour probability contours, winter, 8 percent drift for site 6.....	B-64
B-65.	Map of 4-hour probability contours, winter, 8 percent drift for site 6.....	B-65
B-66.	Map of 6-hour probability contours, winter, 8 percent drift	

	for site 6.....	B-66
B-67.	Map of 8-hour probability contours, winter, 8 percent drift for site 6.....	B-67
B-68.	Map of 12-hour probability contours, winter, 8 percent drift for site 6.....	B-68
B-69.	Map of 2-hour probability contours, winter, 10 percent drift for site 6.....	B-69
B-70.	Map of 4-hour probability contours, winter, 10 percent drift for site 6.....	B-70
B-71.	Map of 6-hour probability contours, winter, 10 percent drift for site 6.....	B-71
B-72.	Map of 8-hour probability contours, winter, 10 percent drift for site 6.....	B-72
B-73.	Map of 12-hour probability contours, winter, 10 percent drift for site 6.....	B-73
B-74.	Map of 2-hour probability contours, spring, 2 percent drift for site 6.....	B-74
B-75.	Map of 4-hour probability contours, spring, 2 percent drift for site 6.....	B-75
B-76.	Map of 6-hour probability contours, spring, 2 percent drift for site 6.....	B-76
B-77.	Map of 8-hour probability contours, spring, 2 percent drift for site 6.....	B-77
B-78.	Map of 12-hour probability contours, spring, 2 percent drift for site 6.....	B-78
B-79.	Map of 2-hour probability contours, spring, 4 percent drift for site 6.....	B-79

B-80.	Map of 4-hour probability contours, spring, 4 percent drift for site 6.....	B-80
B-81.	Map of 6-hour probability contours, spring, 4 percent drift for site 6.....	B-81
B-82.	Map of 8-hour probability contours, spring, 4 percent drift for site 6.....	B-82
B-83.	Map of 12-hour probability contours, spring, 4 percent drift for site 6.....	B-83
B-84.	Map of 2-hour probability contours, spring, 6 percent drift for site 6.....	B-84
B-85.	Map of 4-hour probability contours, spring, 6 percent drift for site 6.....	B-85
B-86.	Map of 6-hour probability contours, spring, 6 percent drift for site 6.....	B-86
B-87.	Map of 8-hour probability contours, spring, 6 percent drift for site 6.....	B-87
B-88.	Map of 12-hour probability contours, spring, 6 percent drift for site 6.....	B-88
B-89.	Map of 2-hour probability contours, spring, 8 percent drift for site 6.....	B-89
B-90.	Map of 4-hour probability contours, spring, 8 percent drift for site 6.....	B-90
B-91.	Map of 6-hour probability contours, spring, 8 percent drift for site 6.....	B-91
B-92.	Map of 8-hour probability contours, spring, 8 percent drift for site 6.....	B-92

B-93.	Map of 12-hour probability contours, spring, 8 percent drift for site 6.....	B-93
B-94.	Map of 2-hour probability contours, spring, 10 percent drift for site 6.....	B-94
B-95.	Map of 4-hour probability contours, spring, 10 percent drift for site 6.....	B-95
B-96.	Map of 6-hour probability contours, spring, 10 percent drift for site 6.....	B-96
B-97.	Map of 8-hour probability contours, spring, 10 percent drift for site 6.....	B-97
B-98.	Map of 8-hour probability contours, spring, 10 percent drift for site 6.....	B-98
B-99.	Map of 2-hour probability contours, summer, 2 percent drift for site 6.....	B-99
B-100.	Map of 4-hour probability contours, summer, 2 percent drift for site 6.....	B-100
B-101.	Map of 6-hour probability contours, summer, 2 percent drift for site 6.....	B-101
B-102.	Map of 8-hour probability contours, summer, 2 percent drift for site 6.....	B-102
B-103.	Map of 12-hour probability contours, summer, 2 percent drift for site 6.....	B-103
B-104.	Map of 2-hour probability contours, summer, 4 percent drift for site 6.....	B-104
B-105.	Map of 4-hour probability contours, summer, 4 percent drift for site 6.....	B-105

B-106.	Map of 6-hour probability contours, summer, 4 percent drift for site 6.....	B-106
B-107.	Map of 8-hour probability contours, summer, 4 percent drift for site 6.....	B-107
B-108.	Map of 12-hour probability contours, summer, 4 percent drift for site 6.....	B-108
B-109.	Map of 2-hour probability contours, summer, 6 percent drift for site 6.....	B-109
B-110.	Map of 4-hour probability contours, summer, 6 percent drift for site 6.....	B-110
B-111.	Map of 6-hour probability contours, summer, 6 percent drift for site 6.....	B-111
B-112.	Map of 8-hour probability contours, summer, 6 percent drift for site 6.....	B-112
B-113.	Map of 12-hour probability contours, summer, 6 percent drift for site 6.....	B-113
B-114.	Map of 2-hour probability contours, summer, 8 percent drift for site 6.....	B-114
B-115.	Map of 4-hour probability contours, summer, 8 percent drift for site 6.....	B-115
B-116.	Map of 6-hour probability contours, summer, 8 percent drift for site 6.....	B-116
B-117.	Map of 8-hour probability contours, summer, 8 percent drift for site 6.....	B-117
B-118.	Map of 12-hour probability contours, summer, 8 percent drift for site 6.....	B-118

B-119.	Map of 2-hour probability contours, summer, 10 percent drift for site 6.....	B-119
B-120.	Map of 4-hour probability contours, summer, 10 percent drift for site 6.....	B-120
B-121.	Map of 6-hour probability contours, summer, 10 percent drift for site 6.....	B-121
B-122.	Map of 8-hour probability contours, summer, 10 percent drift for site 6.....	B-122
B-123.	Map of 12-hour probability contours, summer, 10 percent drift for site 6.....	B-123
B-124.	Map of 2-hour probability contours, fall, 2 percent drift for site 6.	B-124
B-125.	Map of 4-hour probability contours, fall, 2 percent drift for site 6.	B-125
B-126.	Map of 6-hour probability contours, fall, 2 percent drift for site 6.	B-126
B-127.	Map of 8-hour probability contours, fall, 2 percent drift for site 6.	B-127
B-128.	Map of 12-hour probability contours, fall, 2 percent drift for site 6.	B-128
B-129.	Map of 2-hour probability contours, fall, 4 percent drift for site 6.	B-129
B-130.	Map of 4-hour probability contours, fall, 4 percent drift for site 6.	B-130
B-131.	Map of 6-hour probability contours, fall, 4 percent drift for site 6.	B-131

B-132.	Map of 8-hour probability contours, fall, 4 percent drift for site 6.	B-132
B-133.	Map of 12-hour probability contours, fall, 4 percent drift for site 6.	B-133
B-134.	Map of 2-hour probability contours, fall, 6 percent drift for site 6.	B-134
B-135.	Map of 4-hour probability contours, fall, 6 percent drift for site 6.	B-135
B-136.	Map of 6-hour probability contours, fall, 6 percent drift for site 6.	B-136
B-137.	Map of 8-hour probability contours, fall, 6 percent drift for site 6.	B-137
B-138.	Map of 12-hour probability contours, fall, 6 percent drift for site 6.	B-138
B-139.	Map of 2-hour probability contours, fall, 8 percent drift for site 6.	B-139
B-140.	Map of 4-hour probability contours, fall, 8 percent drift for site 6.	B-140
B-141.	Map of 6-hour probability contours, fall, 8 percent drift for site 6.	B-141
B-142.	Map of 8-hour probability contours, fall, 8 percent drift for site 6.	B-142
B-143.	Map of 12-hour probability contours, fall, 8 percent drift for site 6.	B-143
B-144.	Map of 2-hour probability contours, fall, 10 percent drift for site 6.	B-144

B-145.	Map of 4-hour probability contours, fall, 10 percent drift for site 6.	B-145
B-146.	Map of 6-hour probability contours, fall, 10 percent drift for site 6.	B-146
B-147.	Map of 8-hour probability contours, fall, 10 percent drift for site 6.	B-147
B-148.	Map of 12-hour probability contours, fall, 10 percent drift for site 6.....	B-148

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Winter

Ship drift: 2% of the wind speed representing both wind and wave action

Time: 2-hours

At each site, the contour represents the 95% probability distribution.

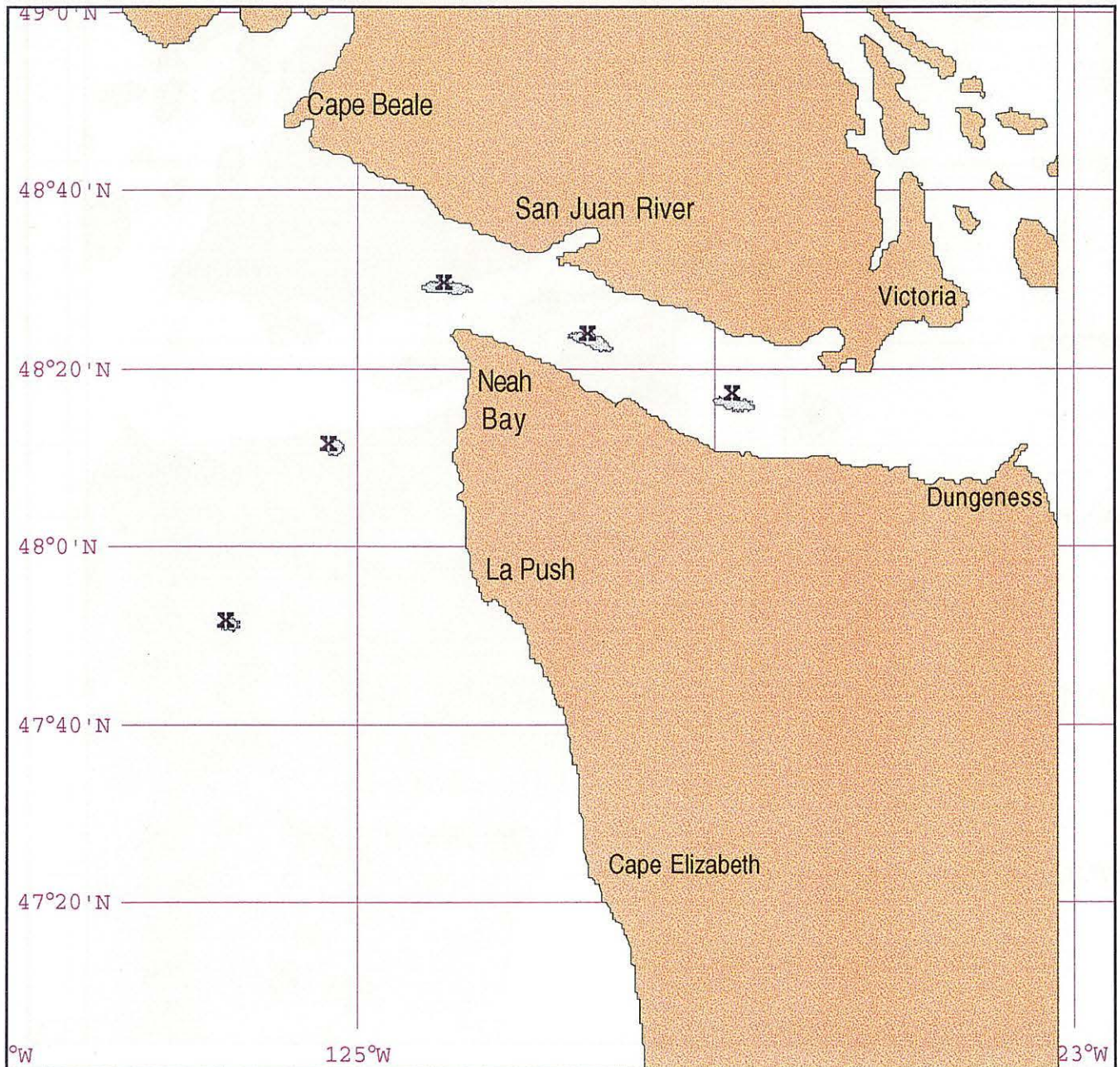


Figure B-1. Map of 2-hour probability contours, winter, 2 percent drift for five sites.

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Winter

Ship drift: 2% of the wind speed representing both wind and wave action

Time: 6-hours

At each site, the contour represents the 95% probability distribution.

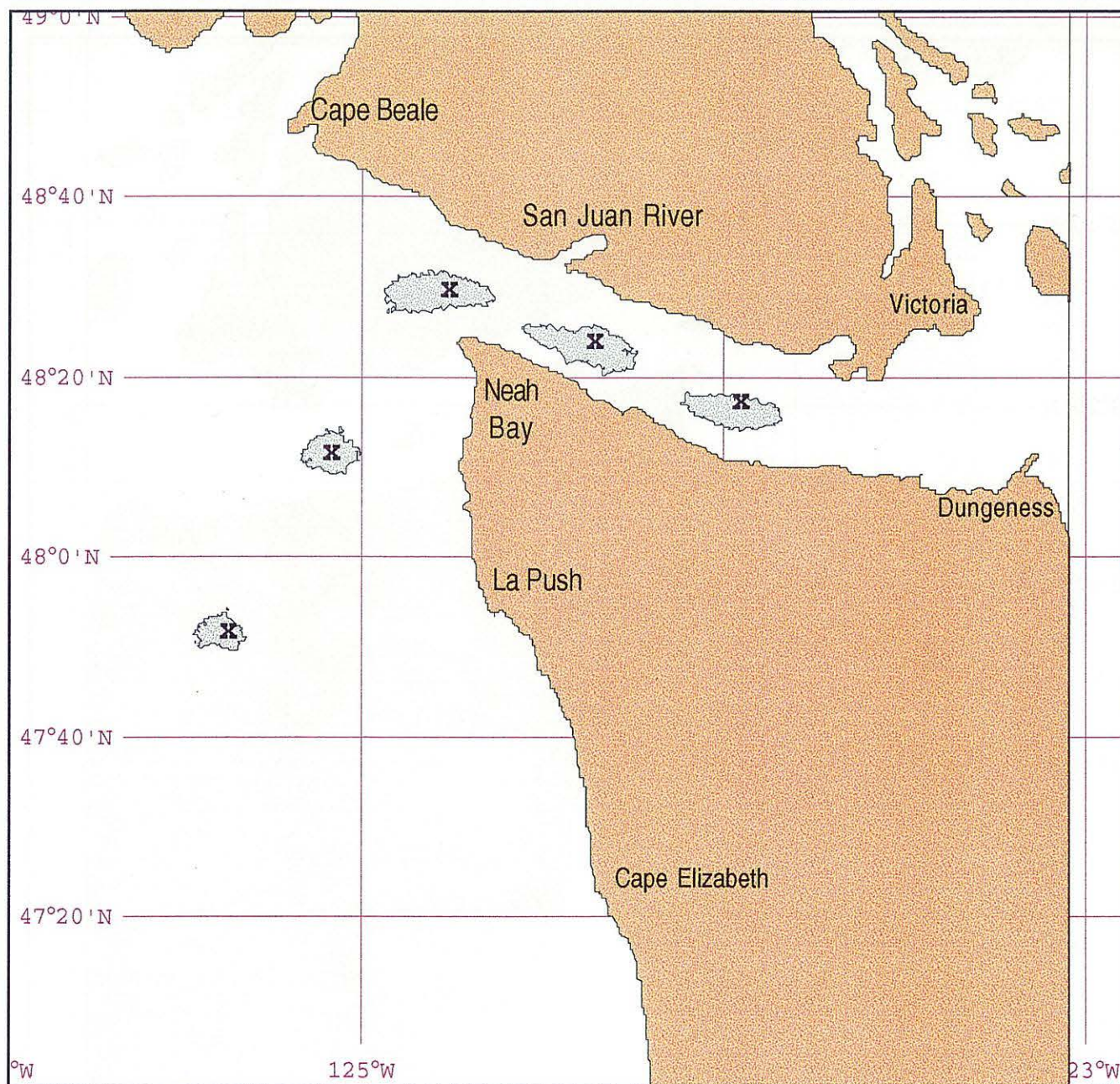


Figure B-2. Map of 6-hour probability contours, winter, 2 percent drift for five sites.

**Ship drift analysis**

Estimate for:

Prepared: ,

MASS Statistical Analysis

NOAA/HAZMAT/MASS (206) 526-6317



Season: Winter

Ship drift: 4% of the wind speed representing both wind and wave action

Time: 2-hours

At each site, the contour represents the 95% probability distribution.

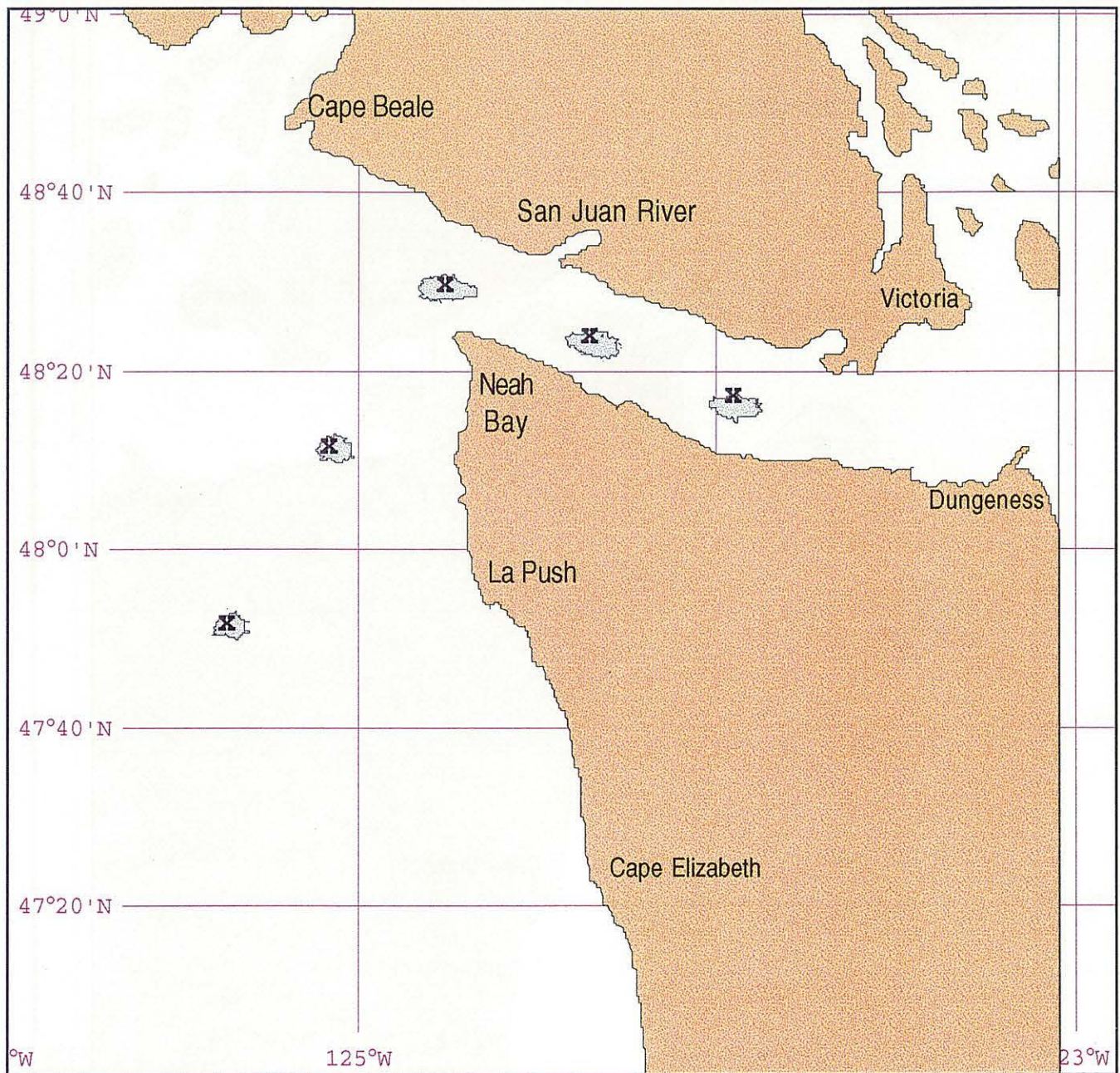


Figure B-3. Map of 2-hour probability contours, winter, 4 percent drift for five sites.

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Winter

Ship drift: 4% of the wind speed representing both wind and wave action

Time: 6-hours

At each site, the contour represents the 95% probability distribution.

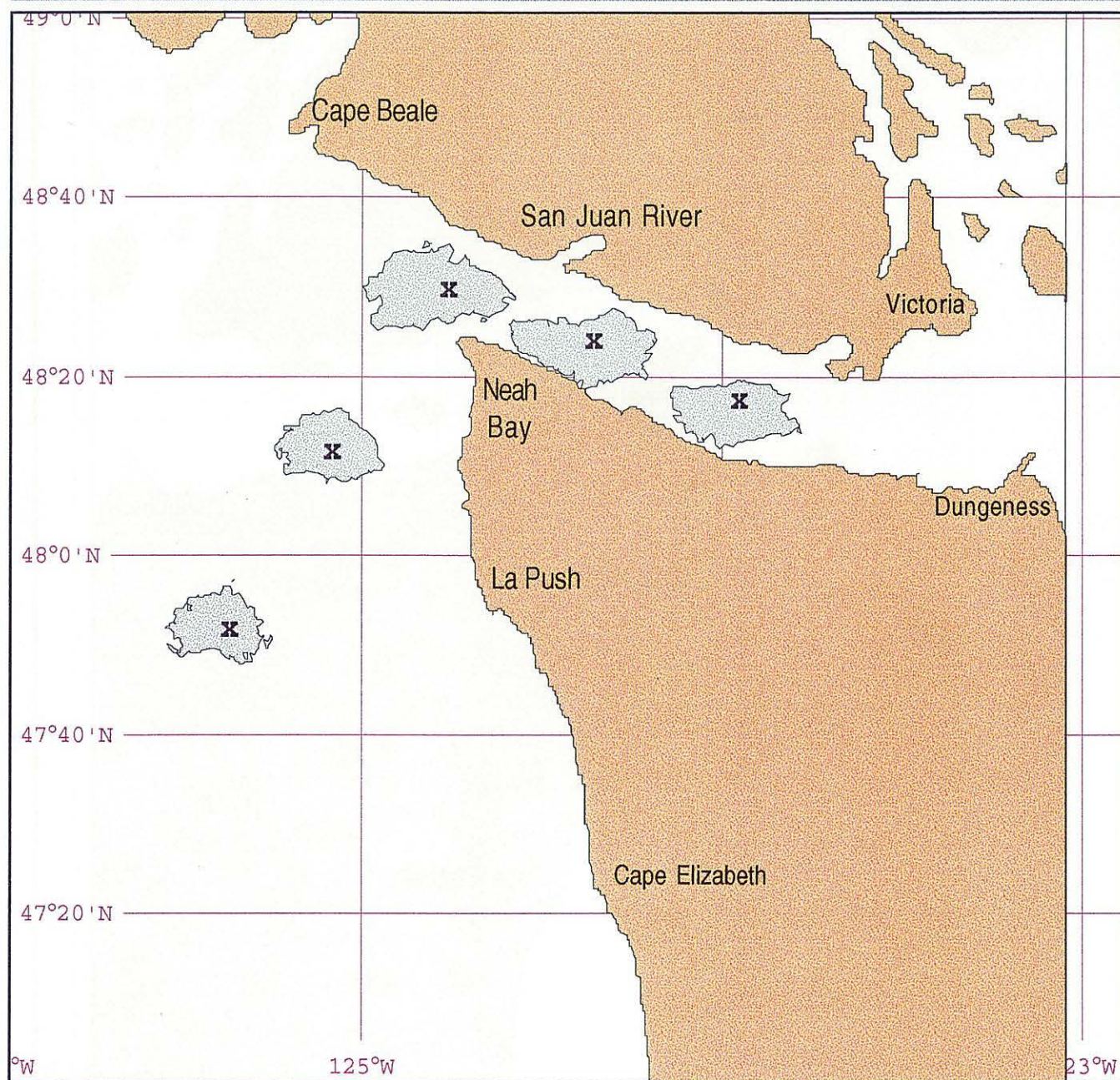
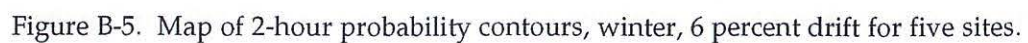


Figure B-4. Map of 6-hour probability contours, winter, 4 percent drift for five sites.

MASS Statistical Analysis

Prepared: ,

At each site, the contour represents the 95% probability distribution.

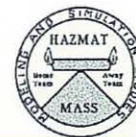


**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Winter

Ship drift: 6% of the wind speed representing both wind and wave action

Time: 6-hours

At each site, the contour represents the 95% probability distribution.

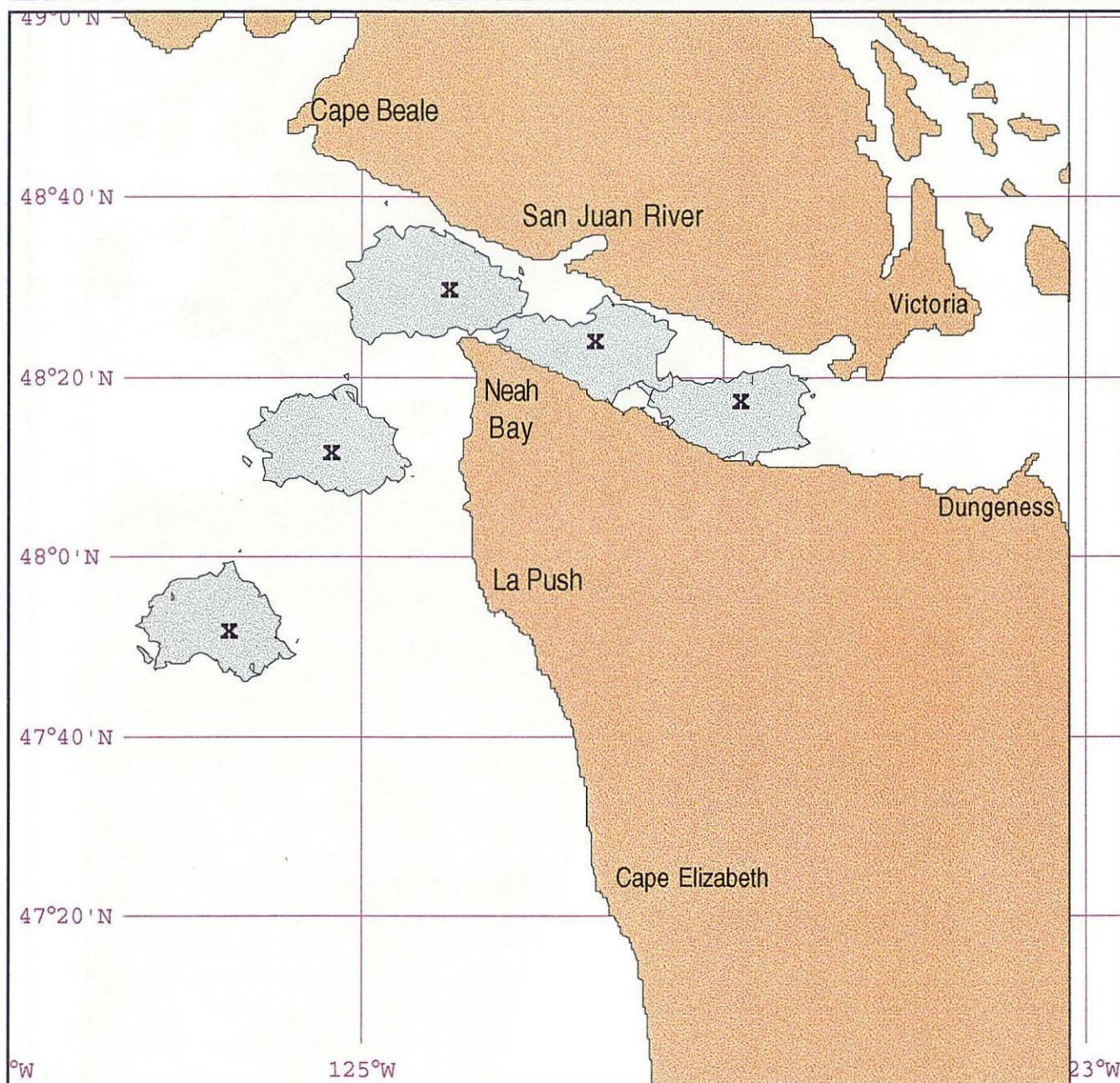


Figure B-6. Map of 6-hour probability contours, winter, 6 percent drift for five sites.

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Winter

Ship drift: 8% of the wind speed representing both wind and wave action

Time: 2-hours

At each site, the contour represents the 95% probability distribution.

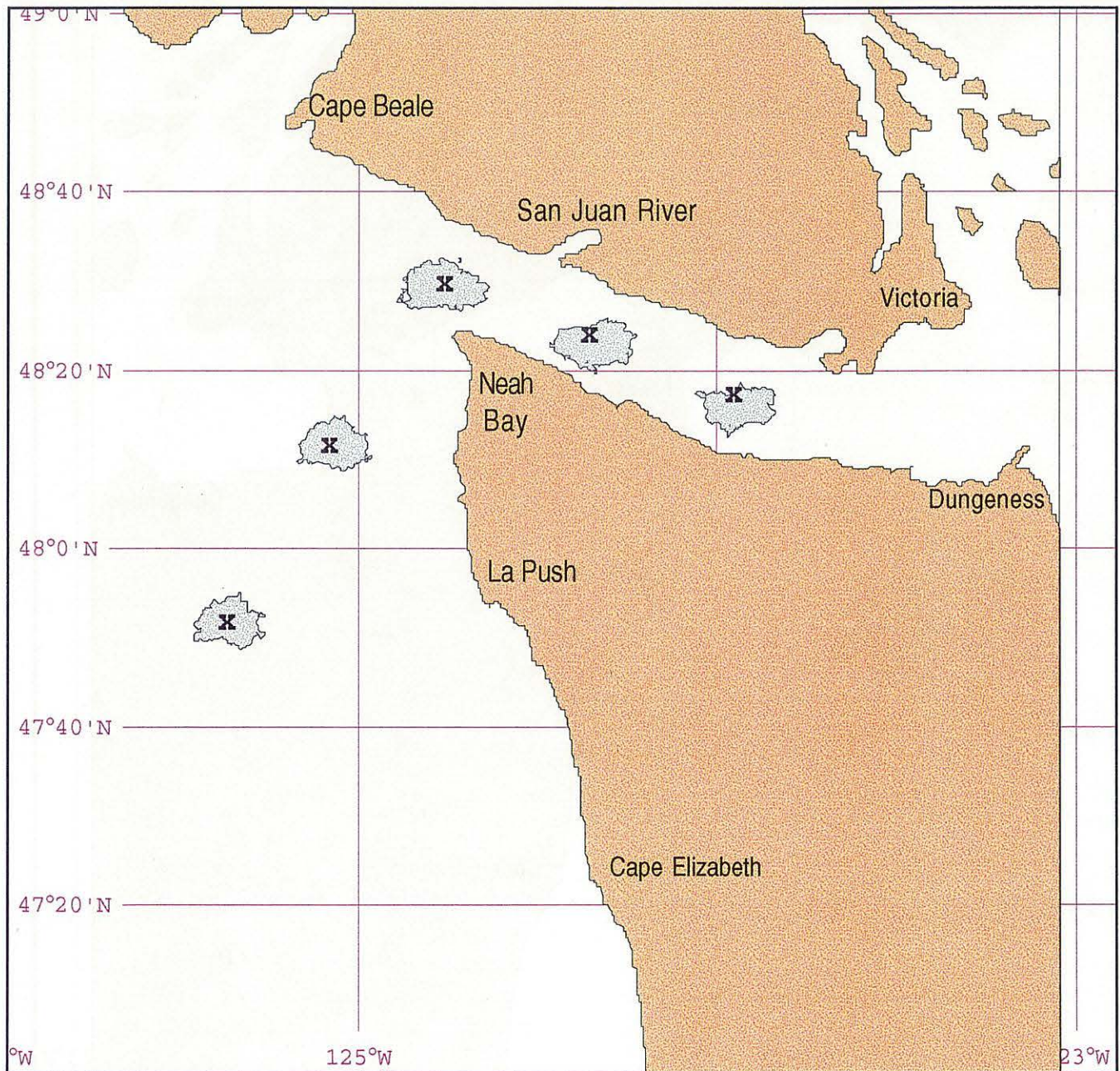


Figure B-7. Map of 2-hour probability contours, winter, 8 percent drift for five sites.



Ship drift analysis

MASS Statistical Analysis

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Winter

Ship drift: 8% of the wind speed representing both wind and wave action

Time: 6-hours

At each site, the contour represents the 95% probability distribution.

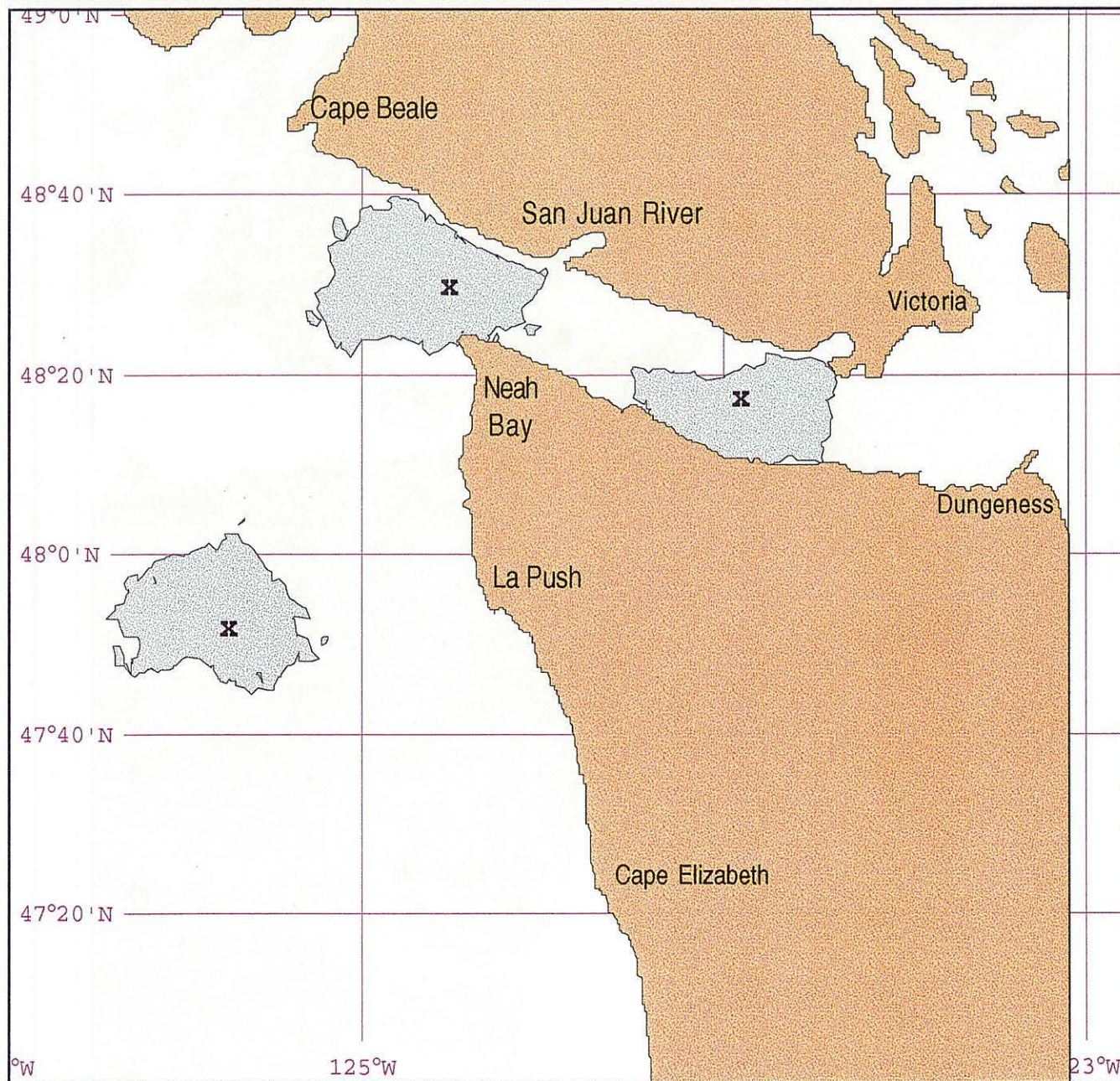


Figure B-8. Map of 6-hour probability contours, winter, 8 percent drift for sites 1, 3, and 5.

**Ship drift analysis**

Estimate for:

Prepared: ,

MASS Statistical Analysis

NOAA/HAZMAT/MASS (206) 526-6317



Season: Winter

Ship drift: 8% of the wind speed representing both wind and wave action

Time: 6-hours

At each site, the contour represents the 95% probability distribution.

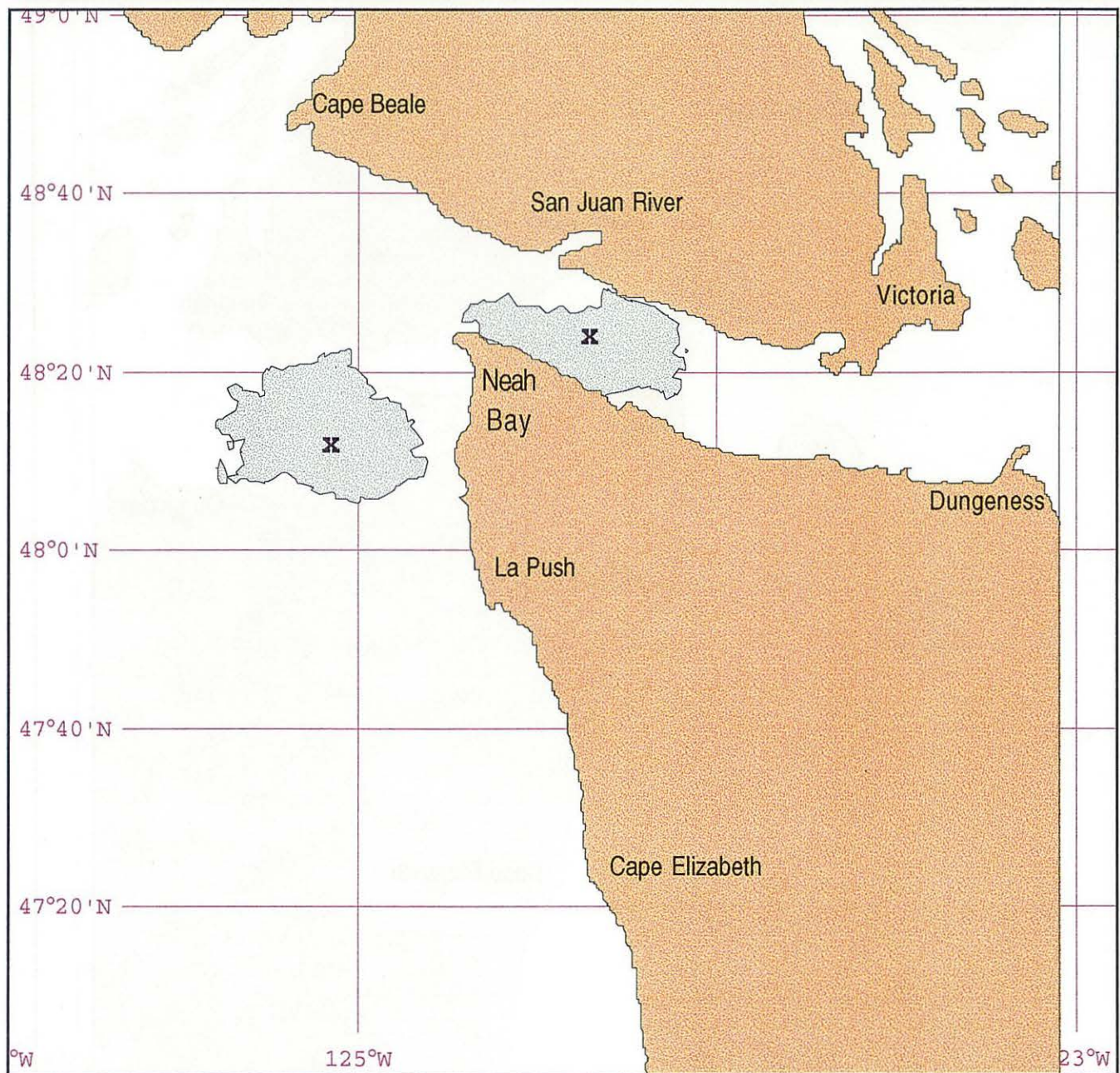


Figure B-9. Map of 6-hour probability contours, winter, 8 percent drift for sites 2 and 4.

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Winter

Ship drift: 10% of the wind speed representing both wind and wave action

Time: 2-hours

At each site, the contour represents the 95% probability distribution.

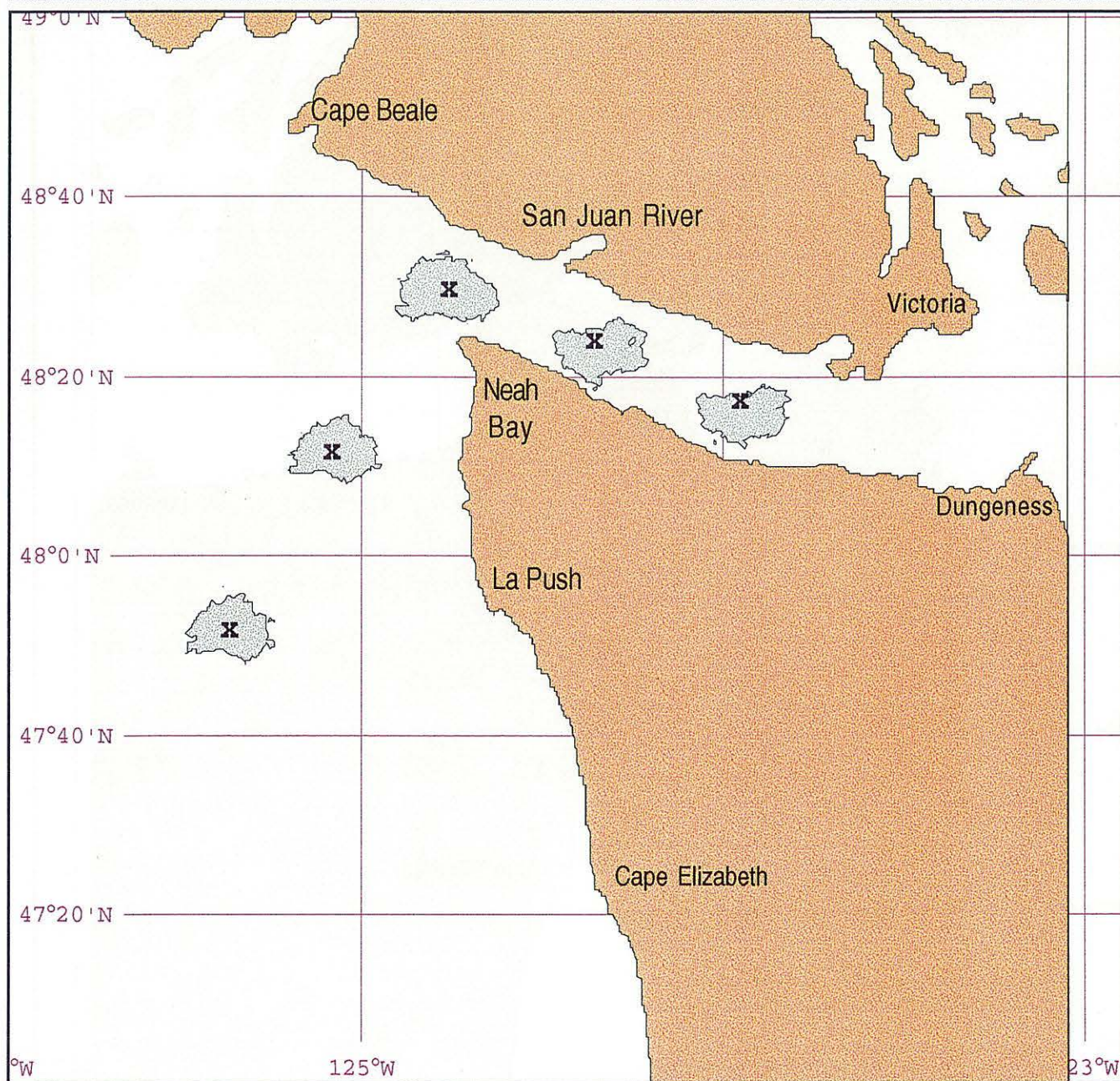


Figure B-10. Map of 2-hour probability contours, winter, 10 percent drift for five sites.

**Ship drift analysis**

Estimate for:

Prepared: ,

MASS Statistical Analysis

NOAA/HAZMAT/MASS (206) 526-6317



Season: Winter

Ship drift: 10% of the wind speed representing both wind and wave action

Time: 6-hours

At each site, the contour represents the 95% probability distribution.

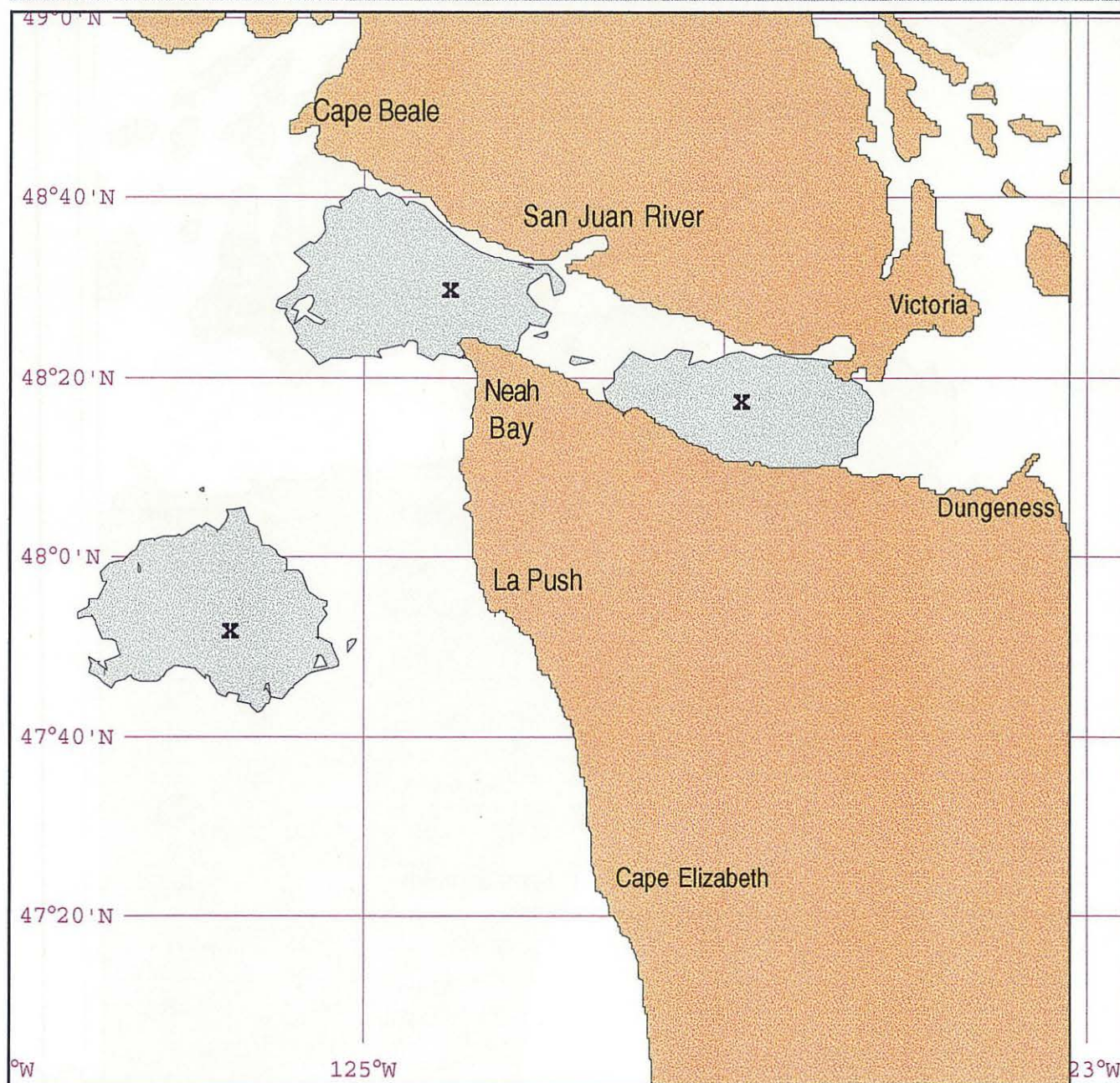


Figure B-11. Map of 6-hour probability contours, winter, 10 percent drift for sites 1, 3, and 5.

**Ship drift analysis**

Estimate for:

Prepared: ,

MASS Statistical Analysis

NOAA/HAZMAT/MASS (206) 526-6317



Season: Winter

Ship drift: 10% of the wind speed representing both wind and wave action

Time: 6-hours

At each site, the contour represents the 95% probability distribution.

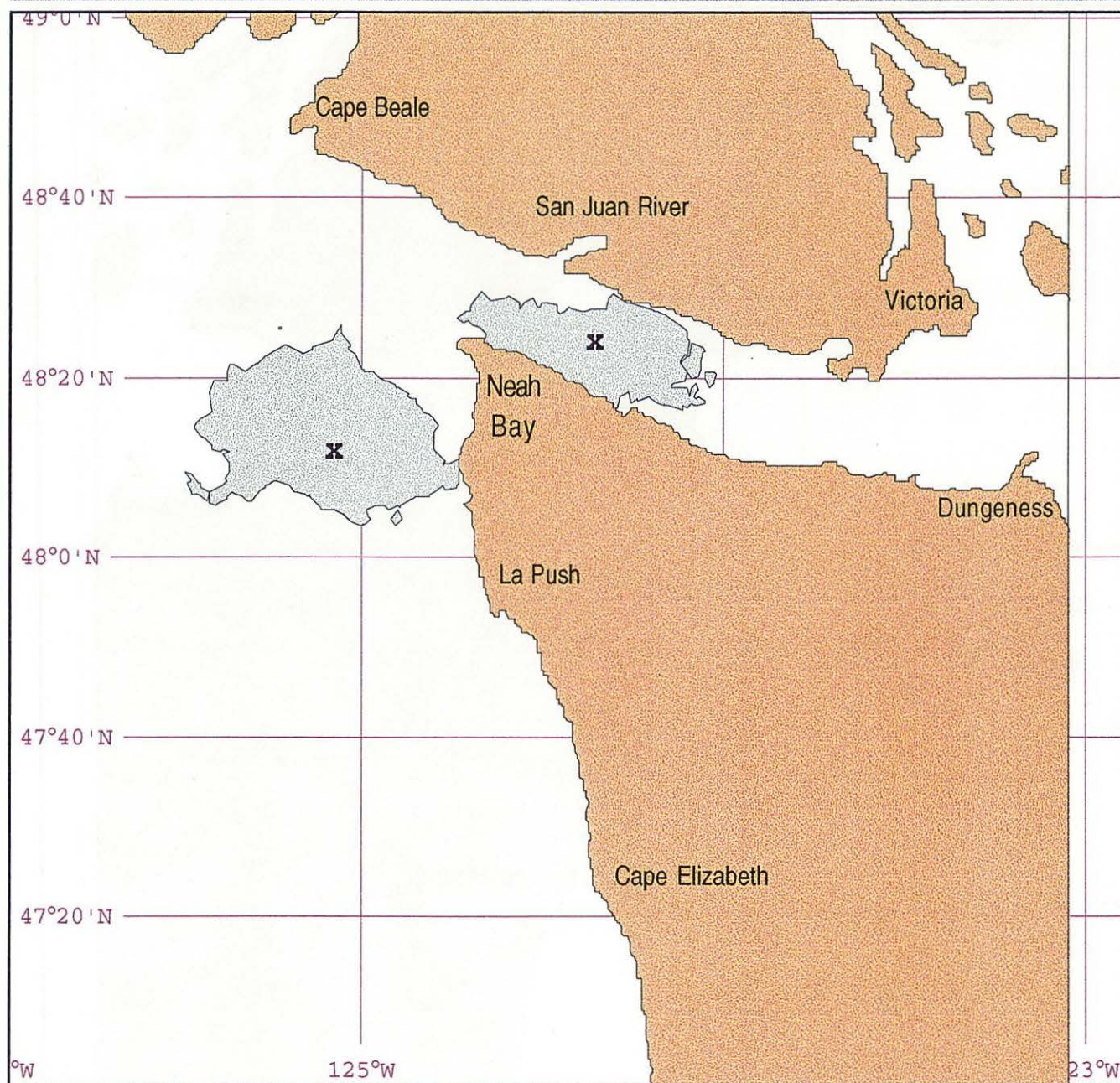


Figure B-12. Map of 6-hour probability contours, winter, 10 percent drift for sites 2 and 4.

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Spring

Ship drift: 2% of the wind speed representing both wind and wave action

Time: 2-hours

At each site, the contour represents the 95% probability distribution.

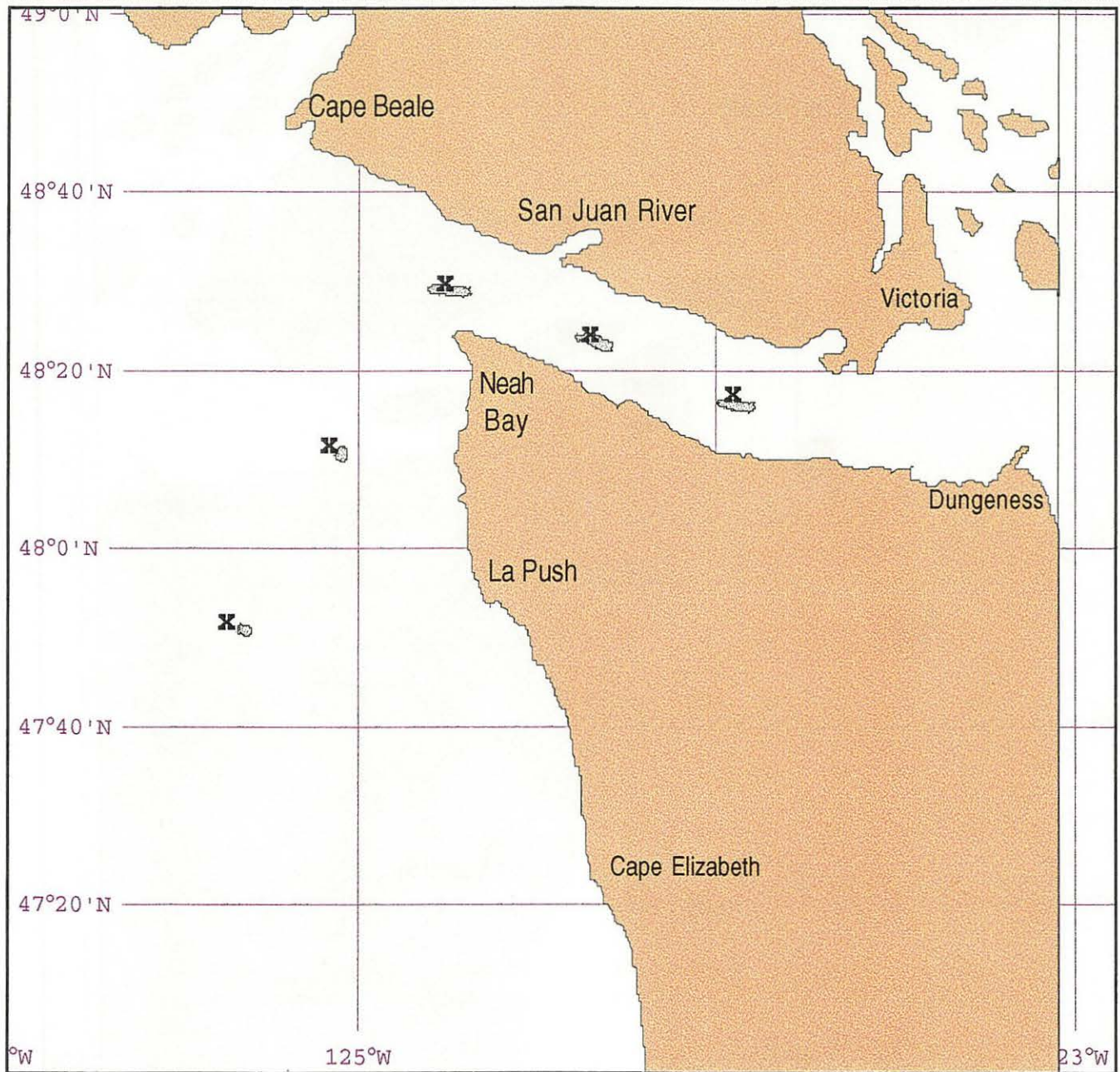


Figure B-13. Map of 2-hour probability contours, spring, 2 percent drift for five sites.

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Spring

Ship drift: 2% of the wind speed representing both wind and wave action

Time: 6-hours

At each site, the contour represents the 95% probability distribution.

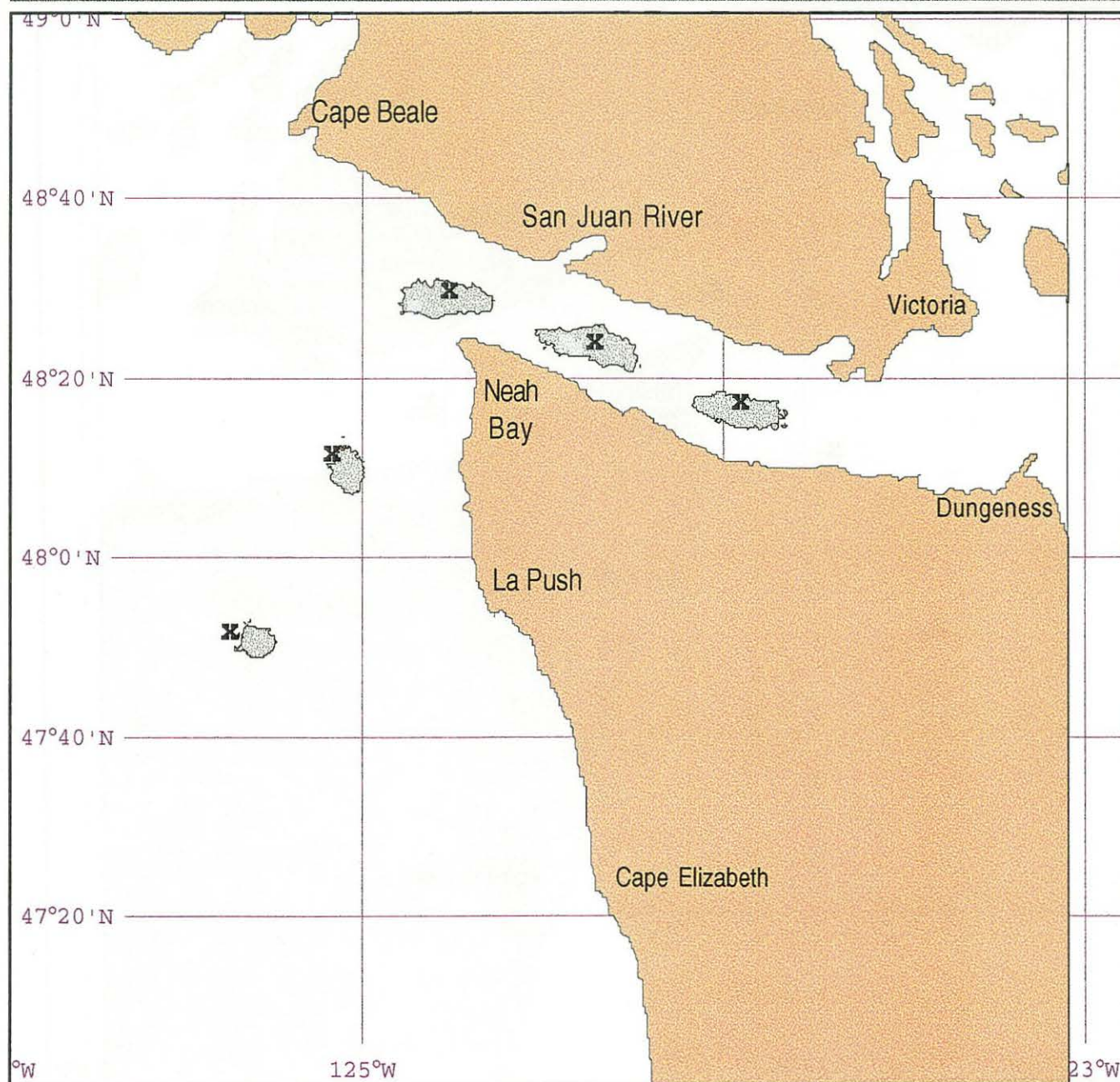


Figure B-14. Map of 6-hour probability contours, spring, 2 percent drift for five sites.

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Spring

Ship drift: 4% of the wind speed representing both wind and wave action

Time: 2-hours

At each site, the contour represents the 95% probability distribution.

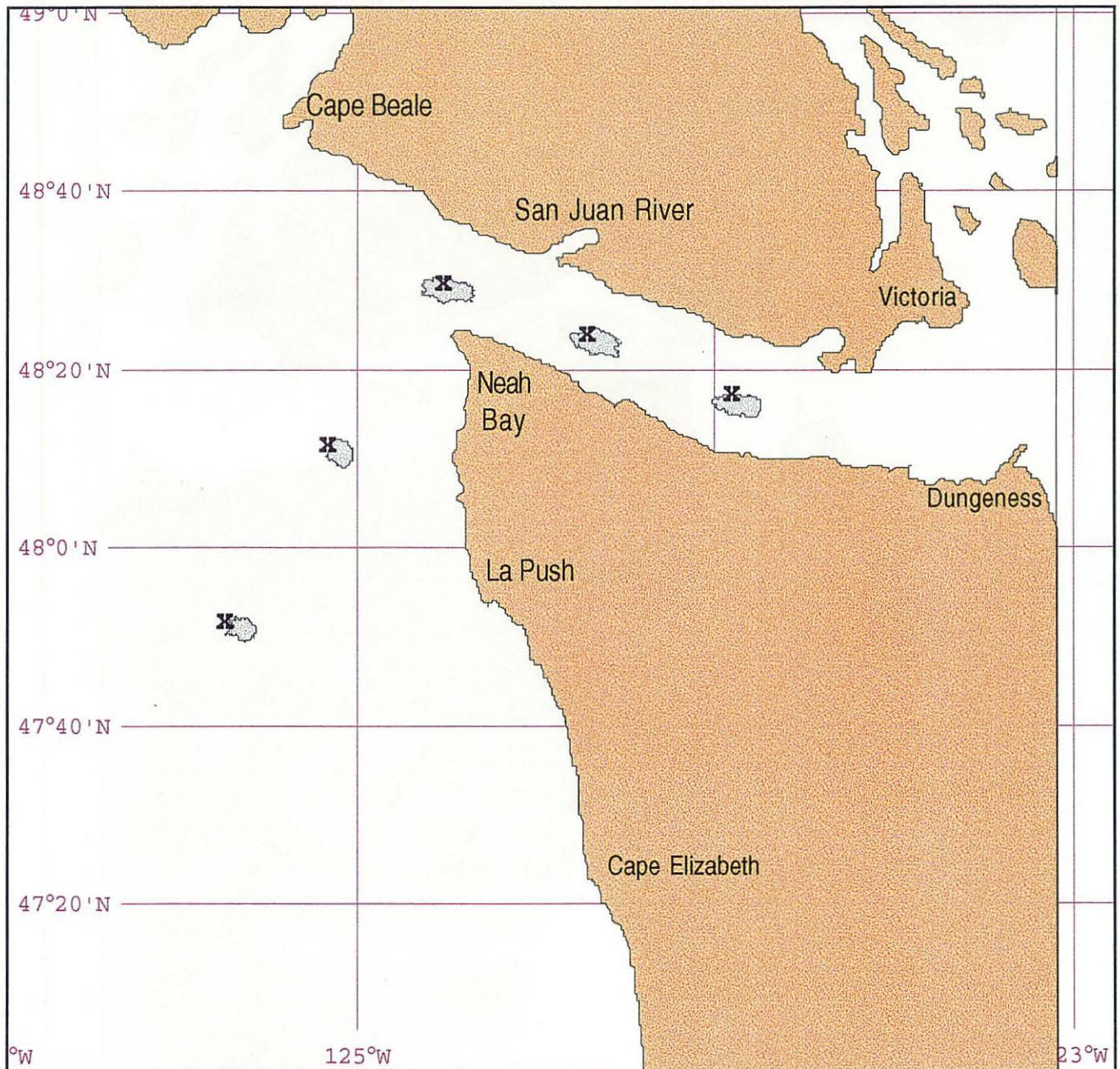


Figure B-15. Map of 2-hour probability contours, spring, 4 percent drift for five sites.

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Spring

Ship drift: 4% of the wind speed representing both wind and wave action

Time: 6-hours

At each site, the contour represents the 95% probability distribution.

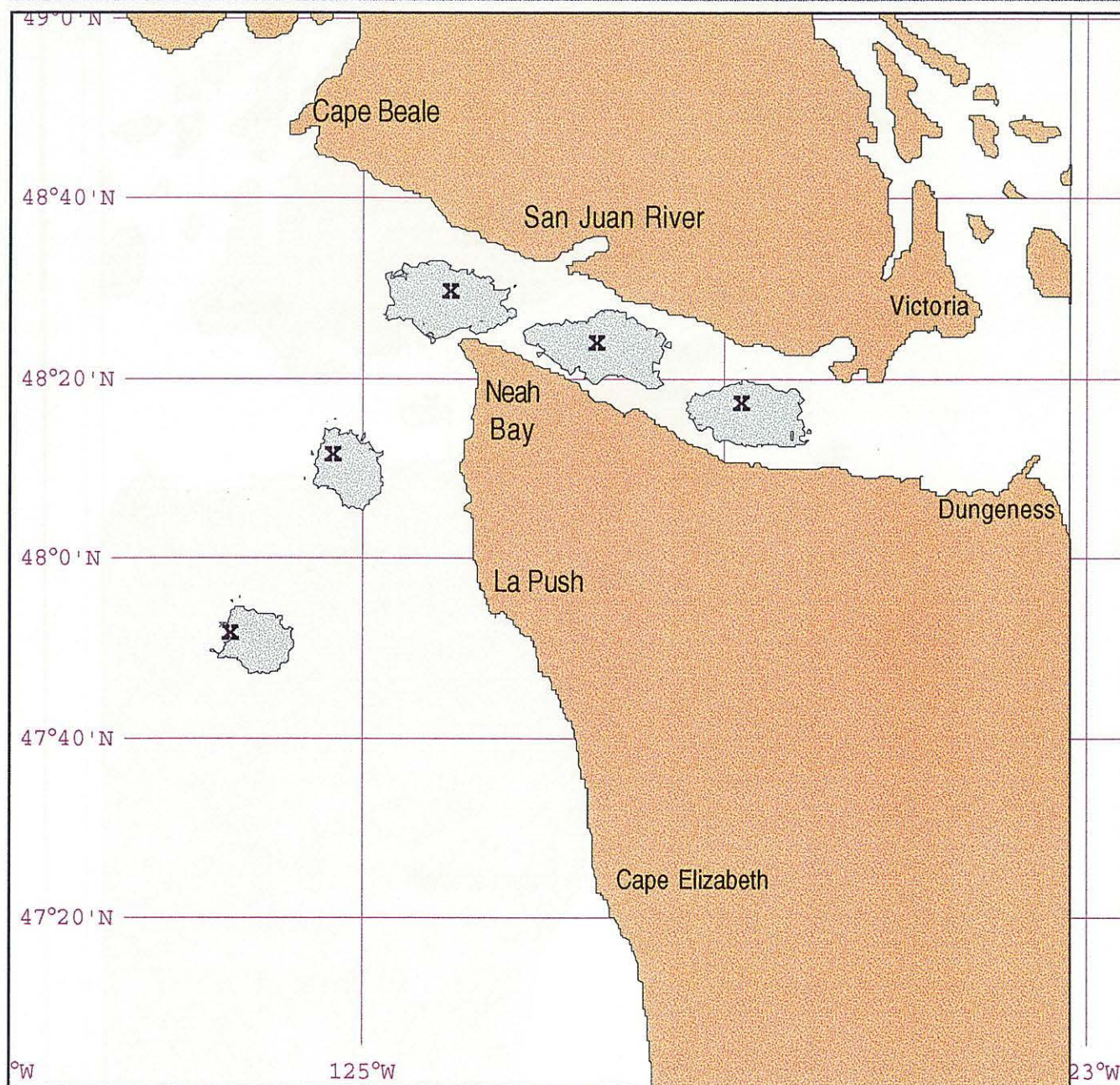


Figure B-16. Map of 6-hour probability contours, spring, 4 percent drift for five sites.

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Spring

Ship drift: 6% of the wind speed representing both wind and wave action

Time: 2-hours

At each site, the contour represents the 95% probability distribution.

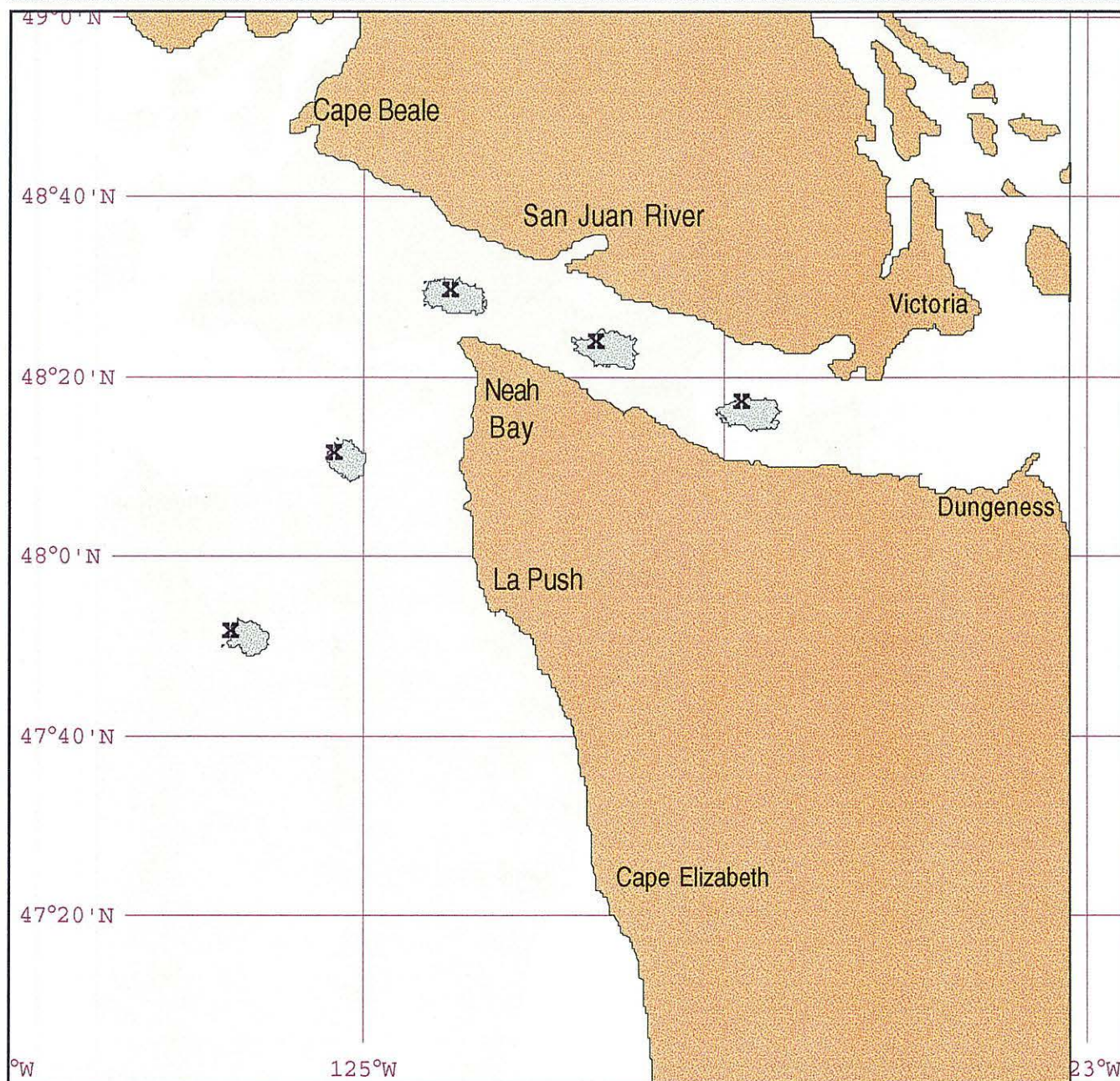


Figure B-17. Map of 2-hour probability contours, spring, 6 percent drift for five sites.

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Spring

Ship drift: 6% of the wind speed representing both wind and wave action

Time: 6-hours

At each site, the contour represents the 95% probability distribution.

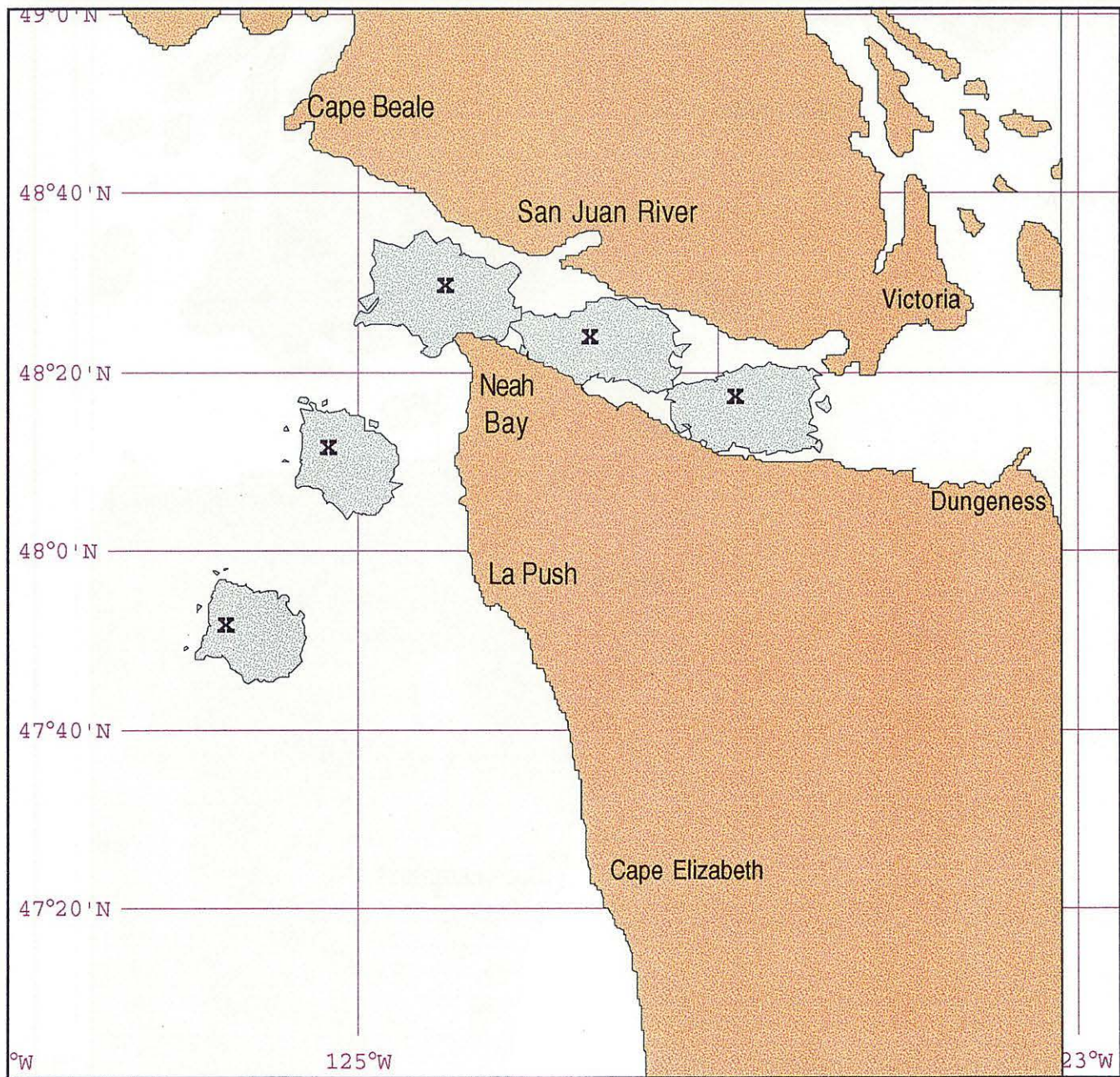


Figure B-18. Map of 6-hour probability contours, spring, 6 percent drift for five sites.

**Ship drift analysis**

Estimate for:

Prepared: ,

MASS Statistical Analysis

NOAA/HAZMAT/MASS (206) 526-6317



Season: Spring

Ship drift: 8% of the wind speed representing both wind and wave action

Time: 2-hours

At each site, the contour represents the 95% probability distribution.

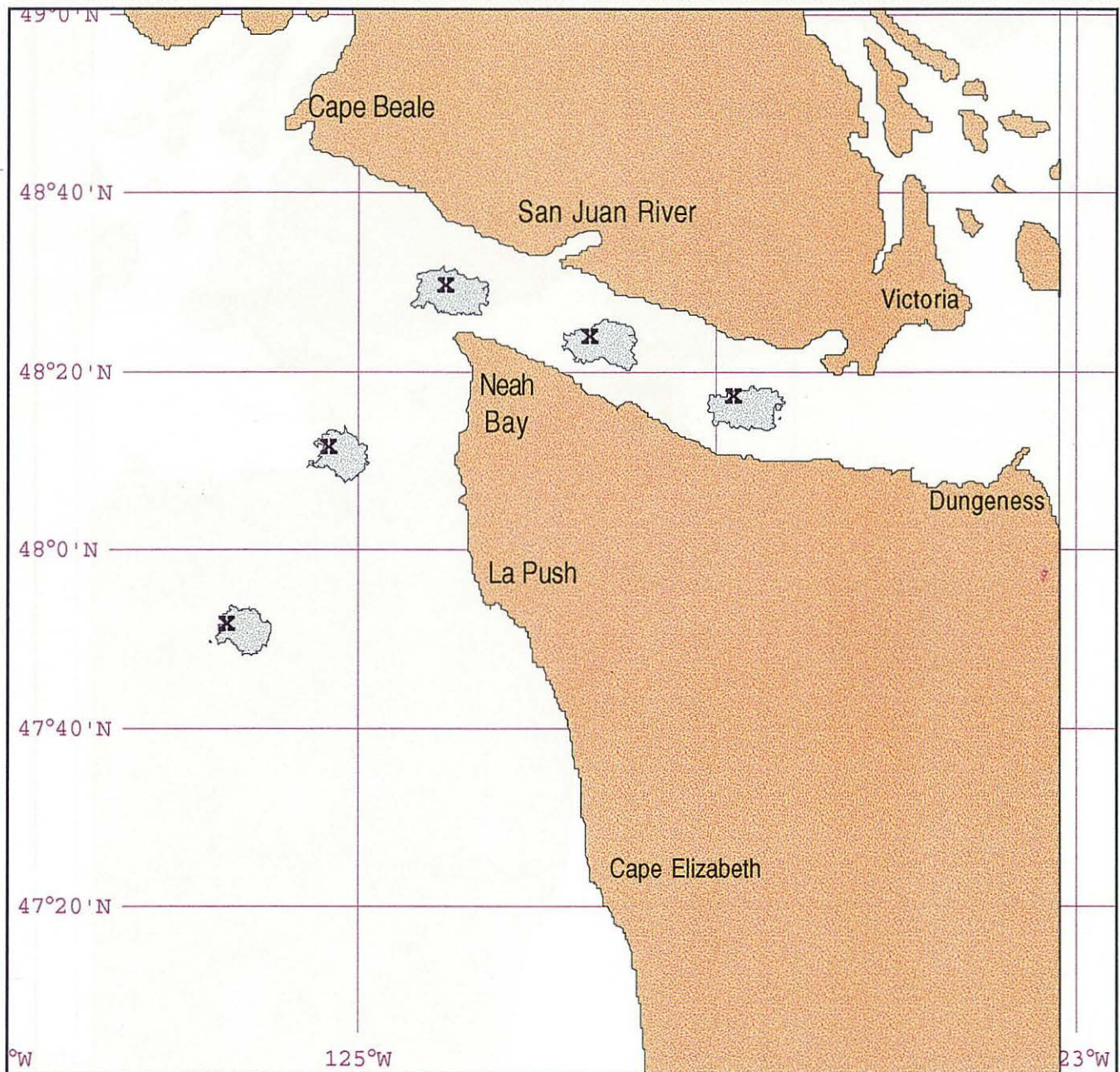


Figure B-19. Map of 2-hour probability contours, spring, 8 percent drift for five sites.



Ship drift analysis

MASS Statistical Analysis

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Spring

Ship drift: 8% of the wind speed representing both wind and wave action

Time: 6-hours

At each site, the contour represents the 95% probability distribution.

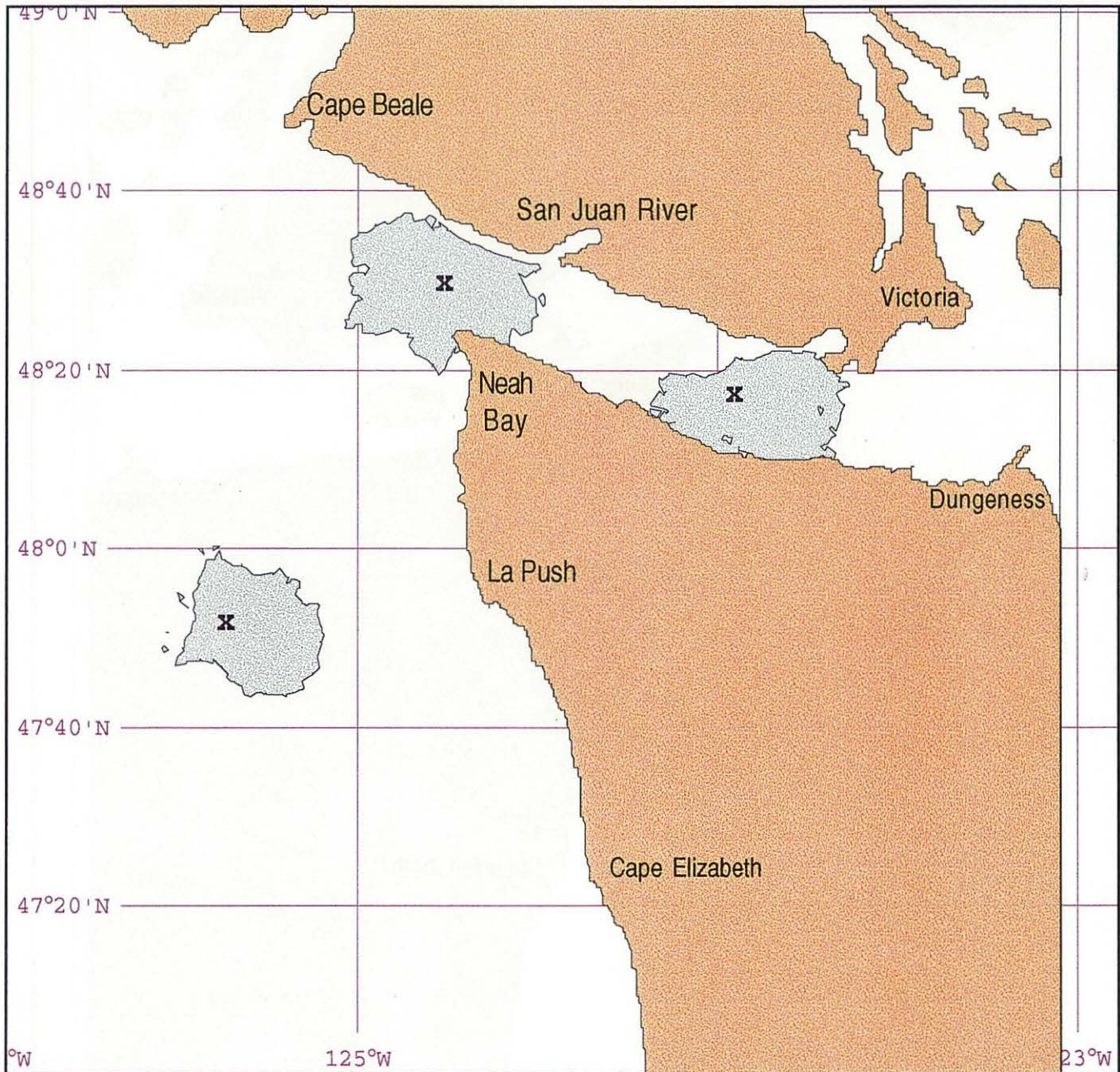


Figure B-20. Map of 6-hour probability contours, spring, 8 percent drift for sites 1, 3, and 5.

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Spring

Ship drift: 8% of the wind speed representing both wind and wave action

Time: 6-hours

At each site, the contour represents the 95% probability distribution.

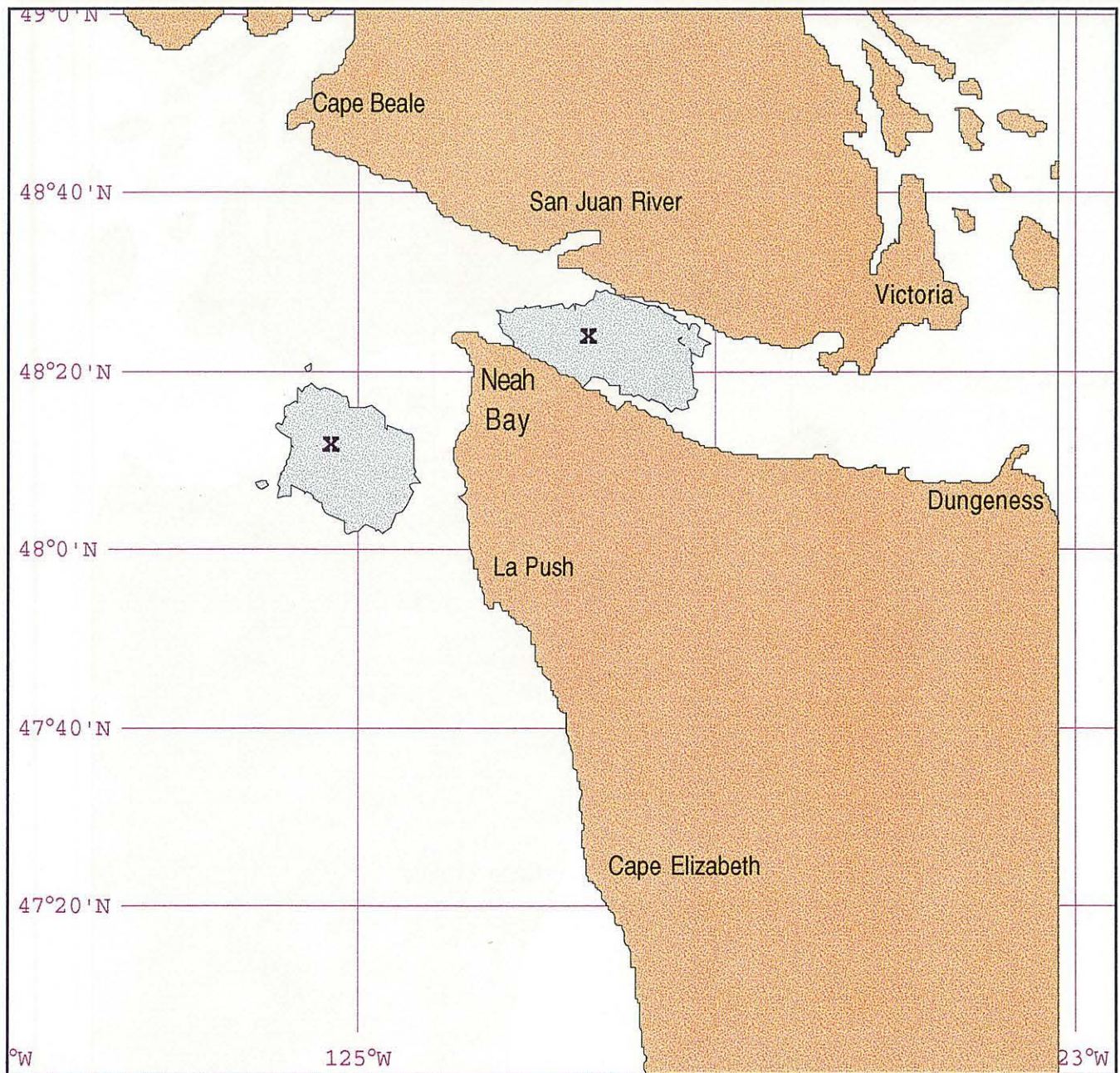


Figure B-21. Map of 6-hour probability contours, spring, 8 percent drift for sites 2 and 4.

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Spring

Ship drift: 10% of the wind speed representing both wind and wave action

Time: 2-hours

At each site, the contour represents the 95% probability distribution.

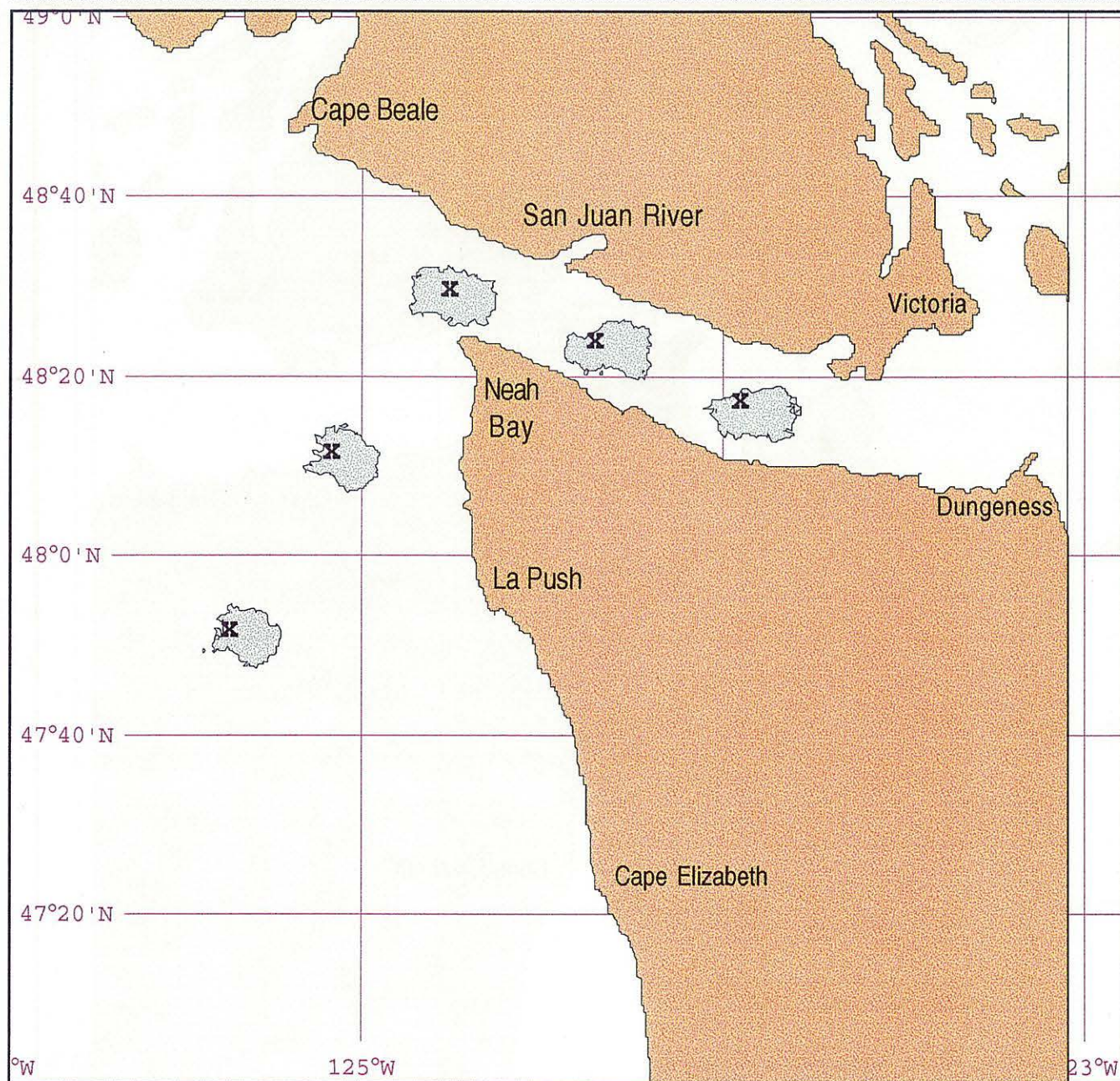


Figure B-22. Map of 2-hour probability contours, spring, 10 percent drift for five sites.

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Spring

Ship drift: 10% of the wind speed representing both wind and wave action

Time: 6-hours

At each site, the contour represents the 95% probability distribution.

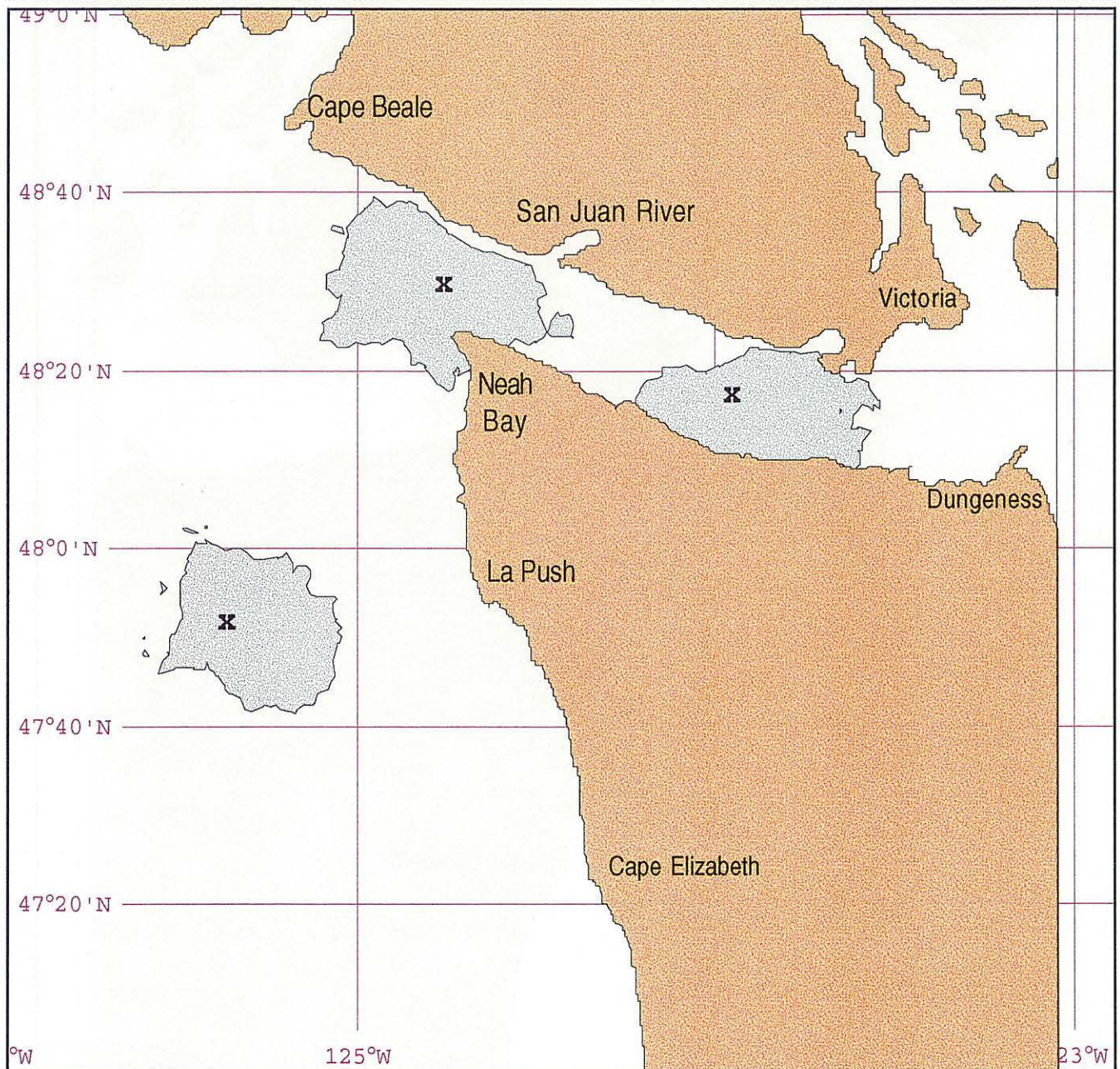


Figure B-23. Map of 6-hour probability contours, spring, 10 percent drift for sites 1, 3, and 5.

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Spring

Ship drift: 10% of the wind speed representing both wind and wave action

Time: 6-hours

At each site, the contour represents the 95% probability distribution.

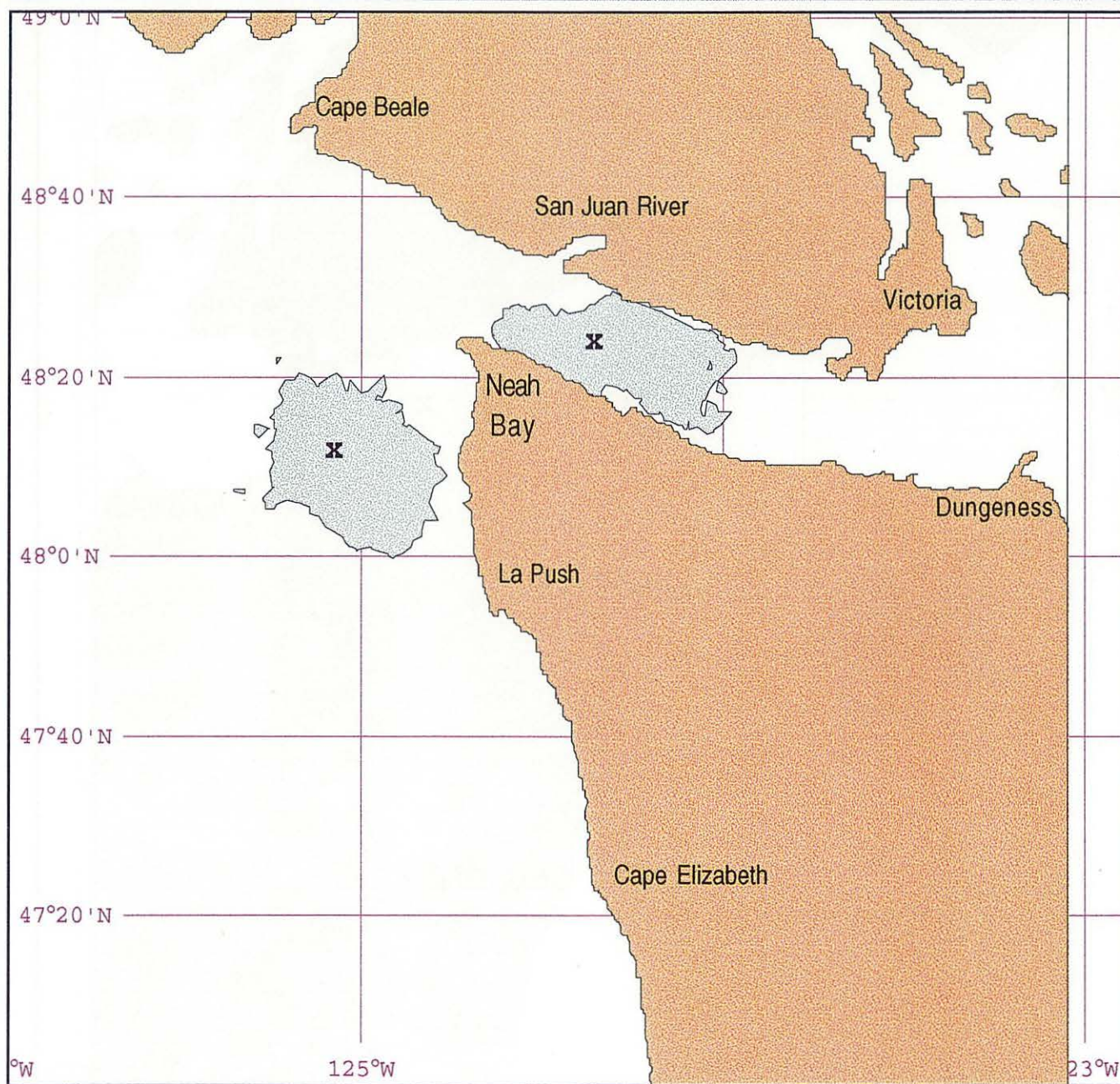


Figure B-24. Map of 6-hour probability contours, spring, 10 percent drift for sites 2 and 4.

**Ship drift analysis**

Estimate for:

Prepared: ,

MASS Statistical Analysis

NOAA/HAZMAT/MASS (206) 526-6317



Season: Summer

Ship drift: 2% of the wind speed representing both wind and wave action

Time: 2-hours

At each site, the contour represents the 95% probability distribution.

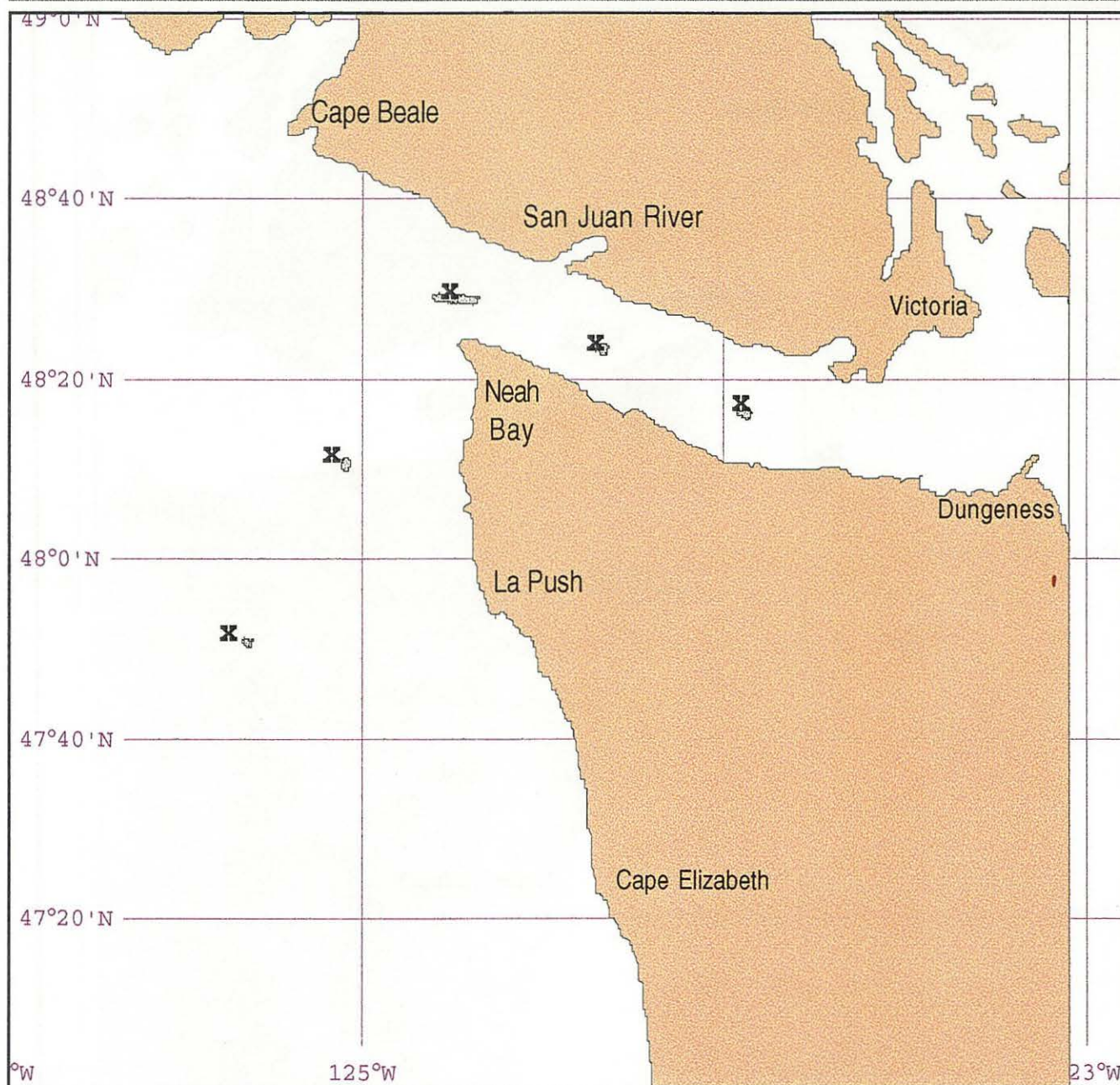


Figure B-25. Map of 2-hour probability contours, summer, 2 percent drift for five sites.

**Ship drift analysis****MASS Statistical Analysis**

Estimate for: Hour 6

Prepared: 1611, 6/25/97

NOAA/HAZMAT/MASS (206) 526-6317



Season: Summer

Ship drift: 2% of the wind speed representing both wind and wave action

Time: 6-hours

At each site, the contour represents the 95% probability distribution.

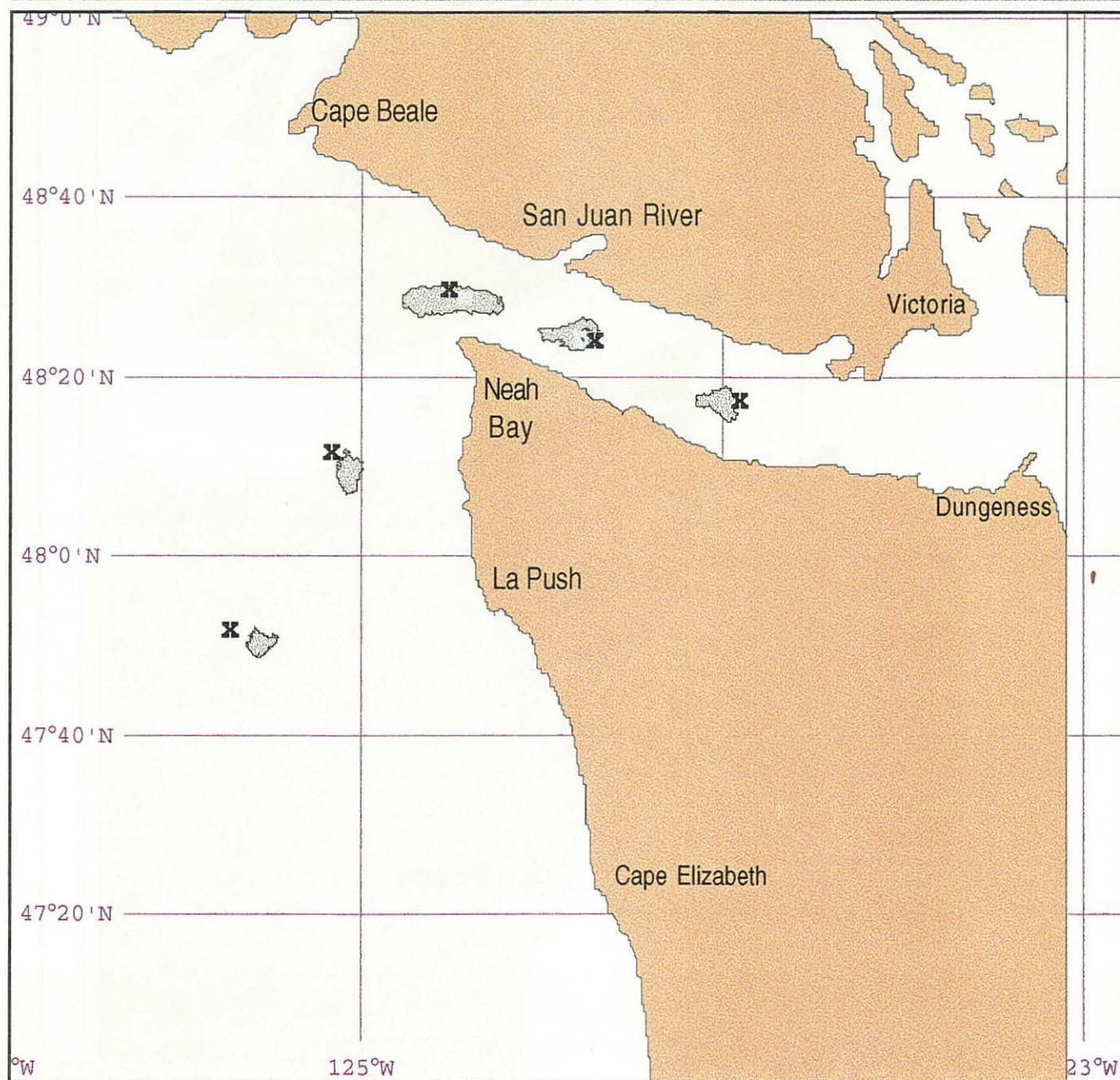


Figure B-26. Map of 6-hour probability contours, summer, 2 percent drift for five sites.

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Summer

Ship drift: 4% of the wind speed representing both wind and wave action

Time: 2-hours

At each site, the contour represents the 95% probability distribution.

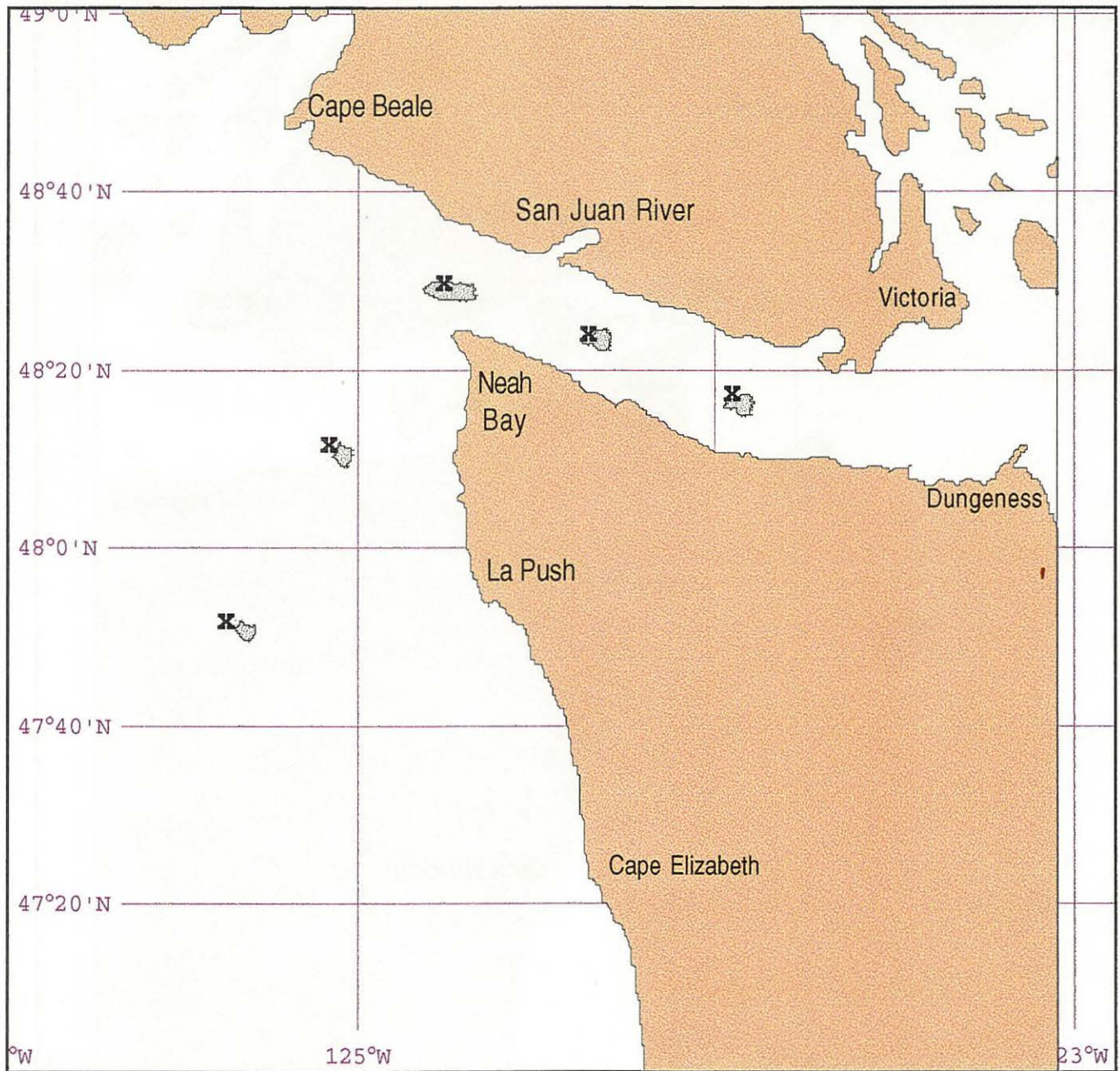


Figure B-27. Map of 2-hour probability contours, summer, 4 percent drift for five sites.

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Summer

Ship drift: 4% of the wind speed representing both wind and wave action

Time: 6-hours

At each site, the contour represents the 95% probability distribution.

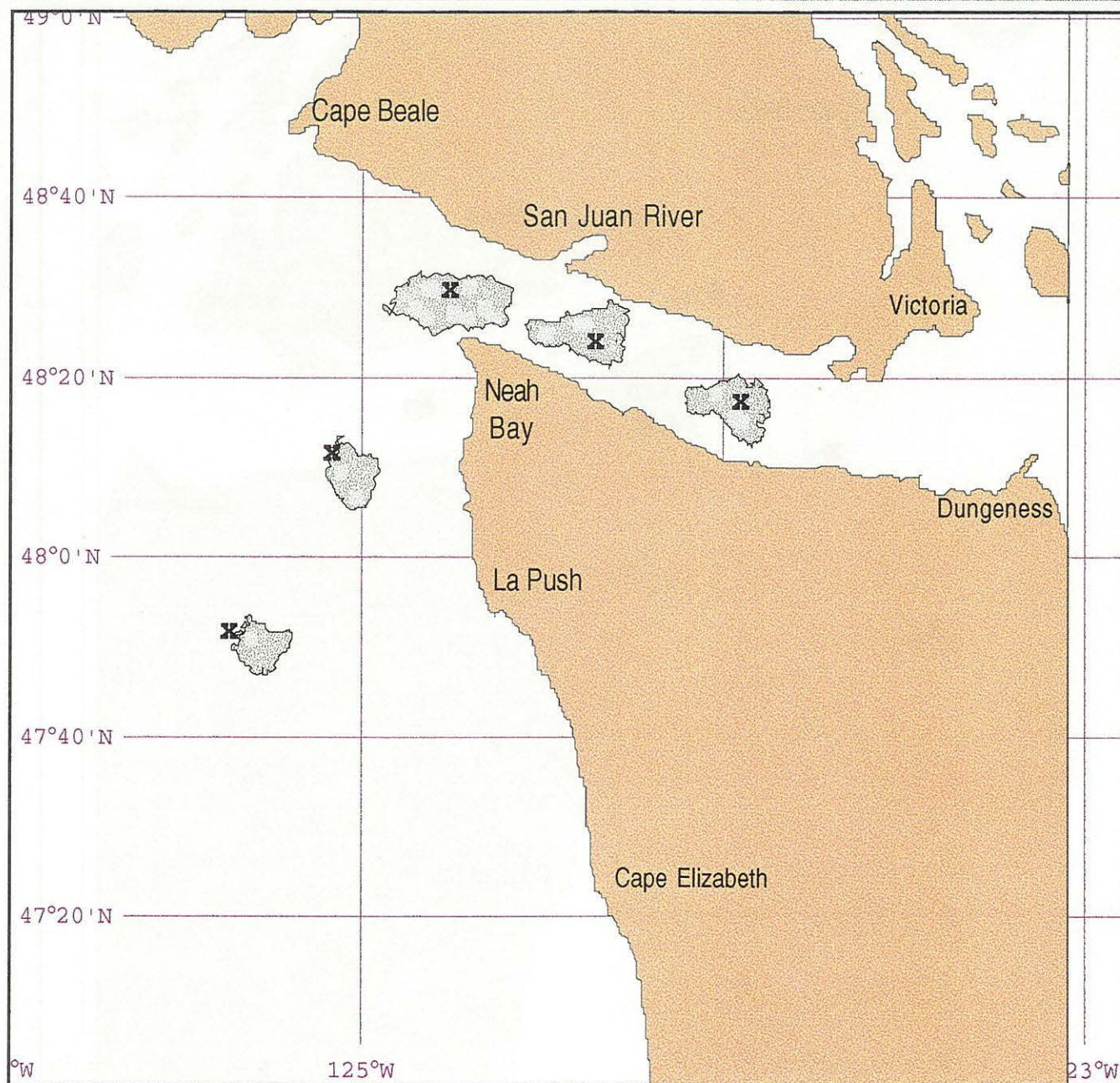


Figure B-28. Map of 6-hour probability contours, summer, 4 percent drift for five sites.

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Summer

Ship drift: 6% of the wind speed representing both wind and wave action

Time: 2-hours

At each site, the contour represents the 95% probability distribution.

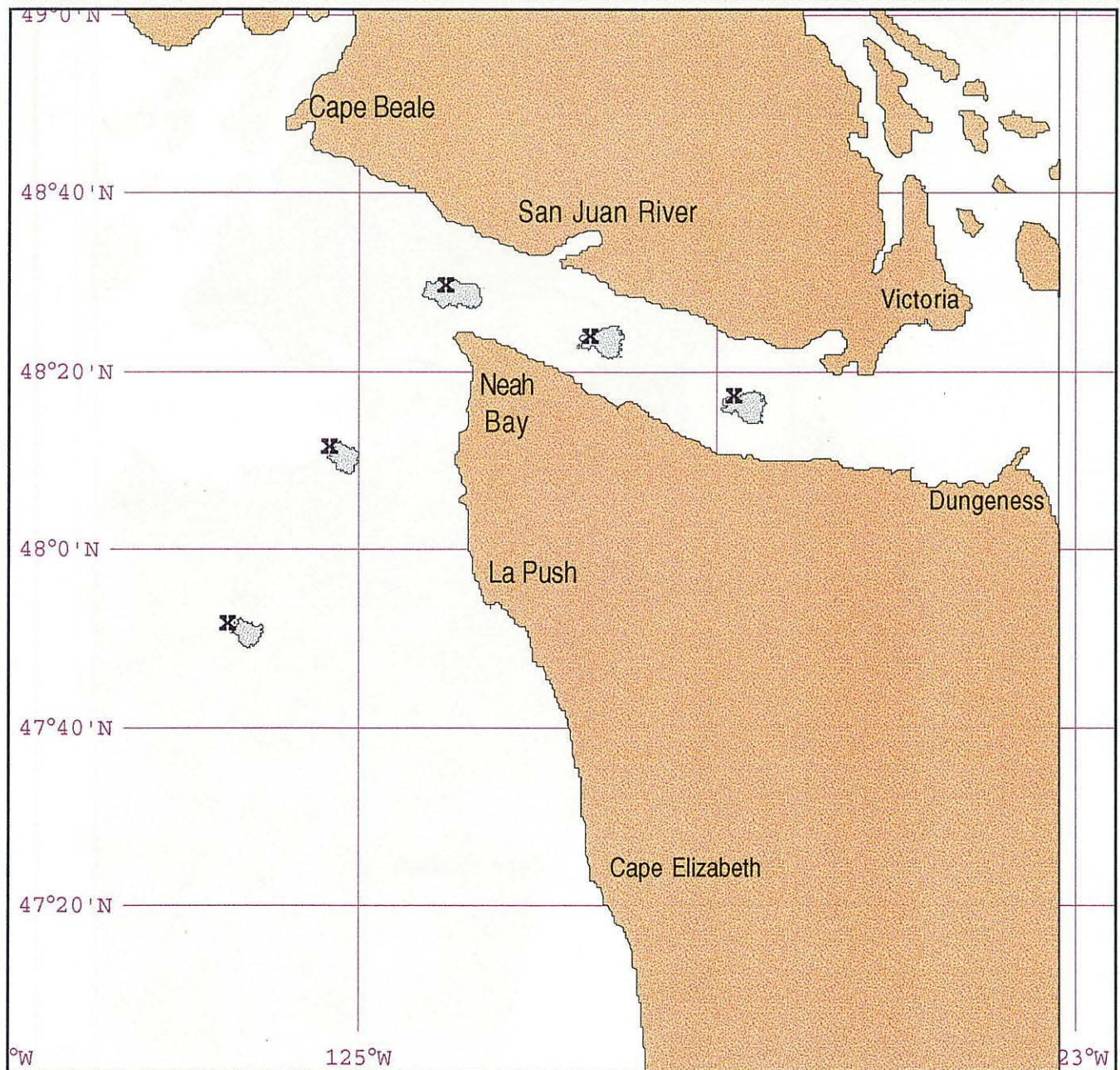


Figure B-29. Map of 2-hour probability contours, summer, 6 percent drift for five sites.

MASS Statistical Analysis

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Time: 6-hours

At each site, the contour represents the 95% probability distribution.

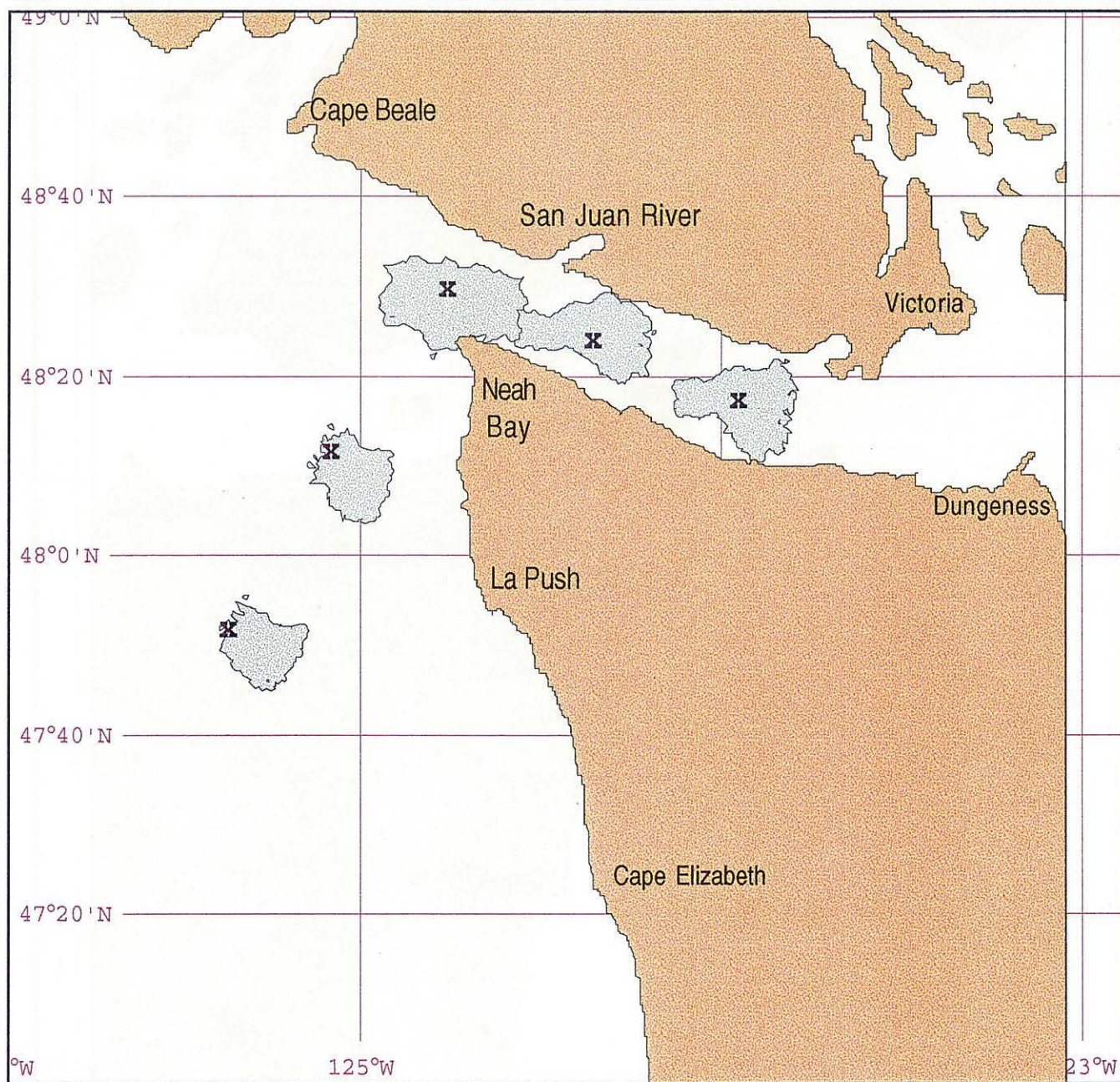


Figure B-30. Map of 6-hour probability contours, summer, 6 percent drift for five sites.

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Summer

Ship drift: 8% of the wind speed representing both wind and wave action

Time: 2-hours

At each site, the contour represents the 95% probability distribution.

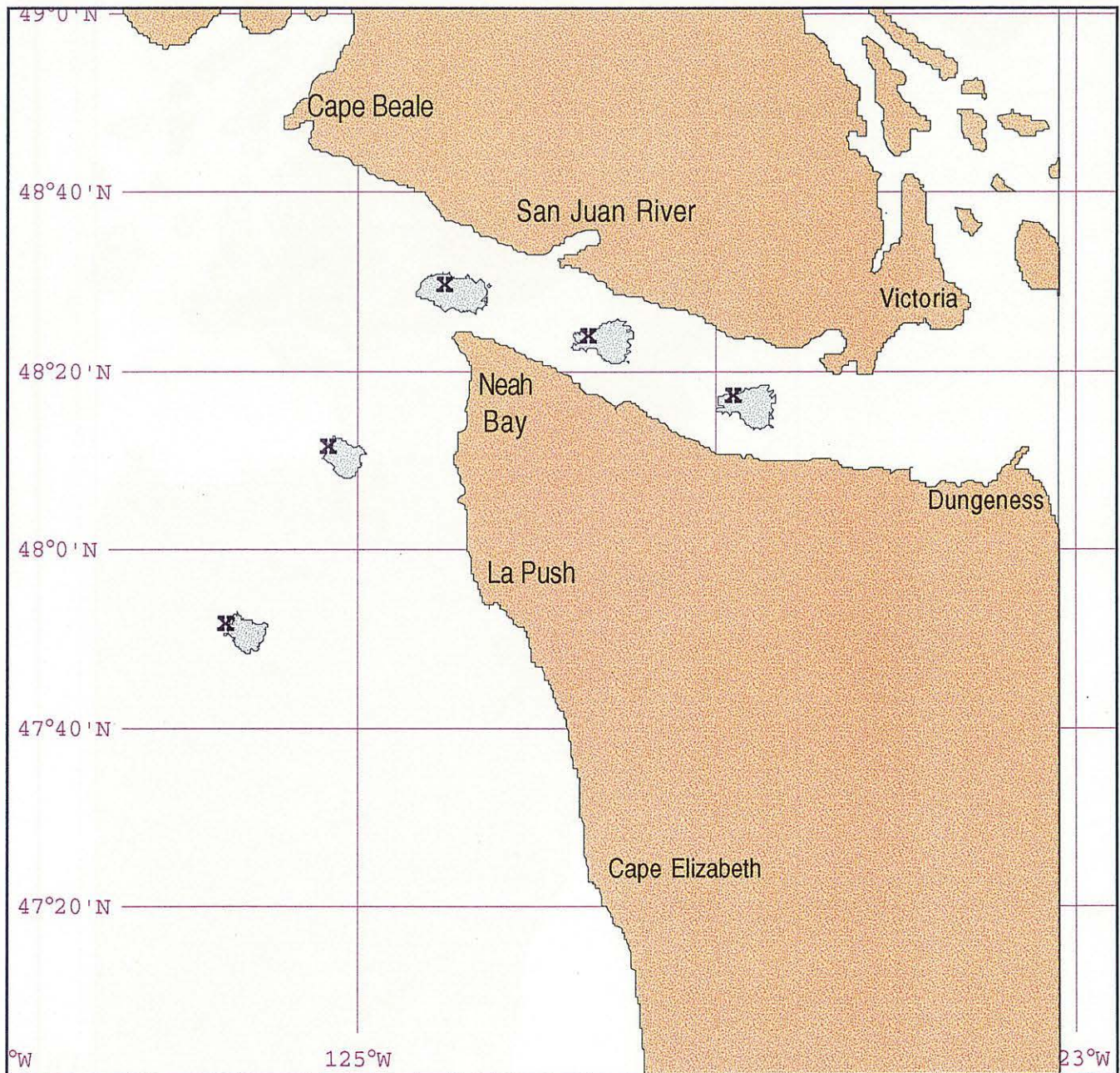


Figure B-31. Map of 2-hour probability contours, summer, 8 percent drift for five sites.

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Summer

Ship drift: 8% of the wind speed representing both wind and wave action

Time: 6-hours

At each site, the contour represents the 95% probability distribution.

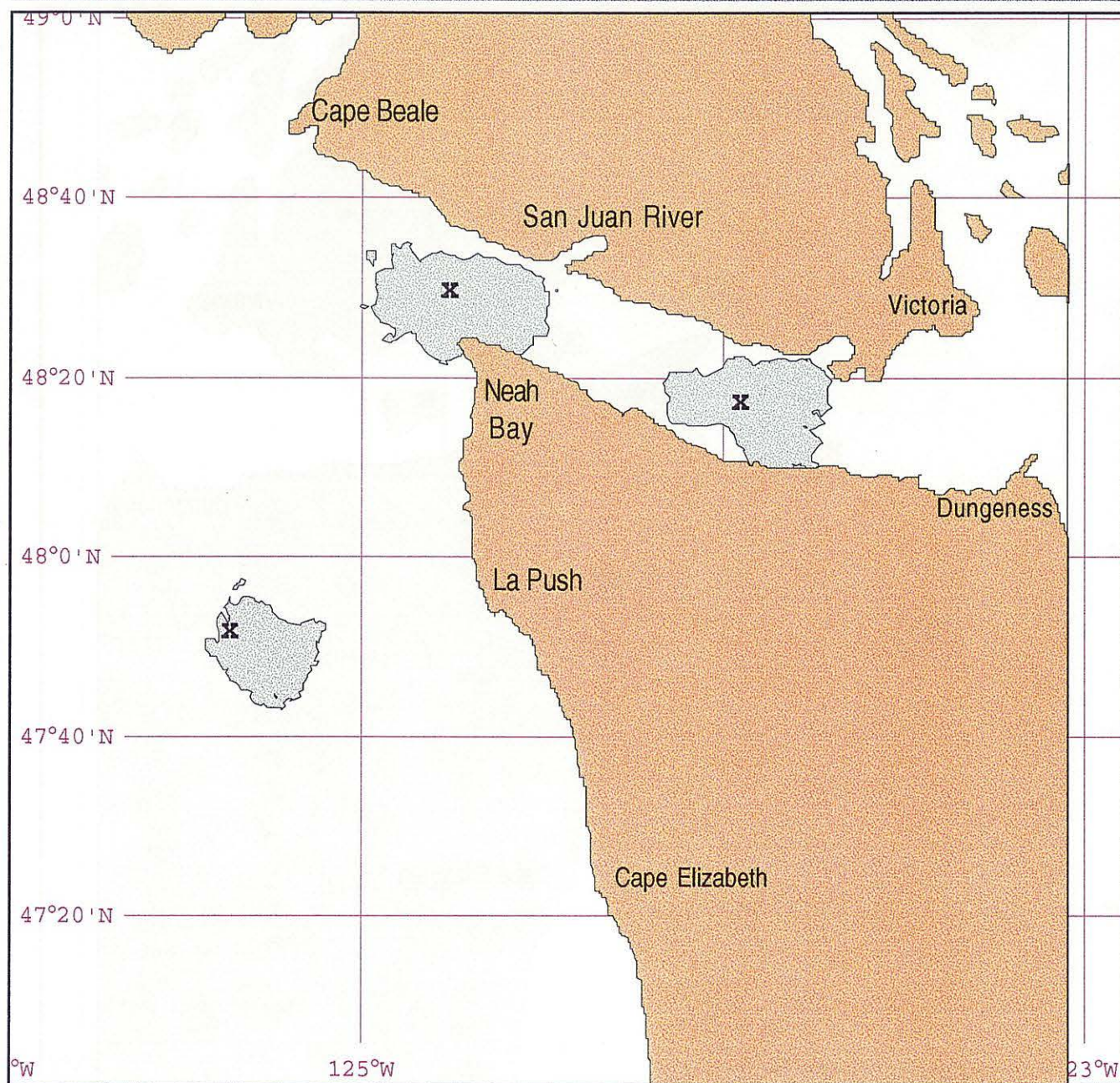


Figure B-32. Map of 6-hour probability contours, summer, 8 percent drift for sites 1, 3, and 5.

**Ship drift analysis**

Estimate for:

Prepared: ,

MASS Statistical Analysis

NOAA/HAZMAT/MASS (206) 526-6317



Season: Summer

Ship drift: 8% of the wind speed representing both wind and wave action

Time: 6-hours

At each site, the contour represents the 95% probability distribution.

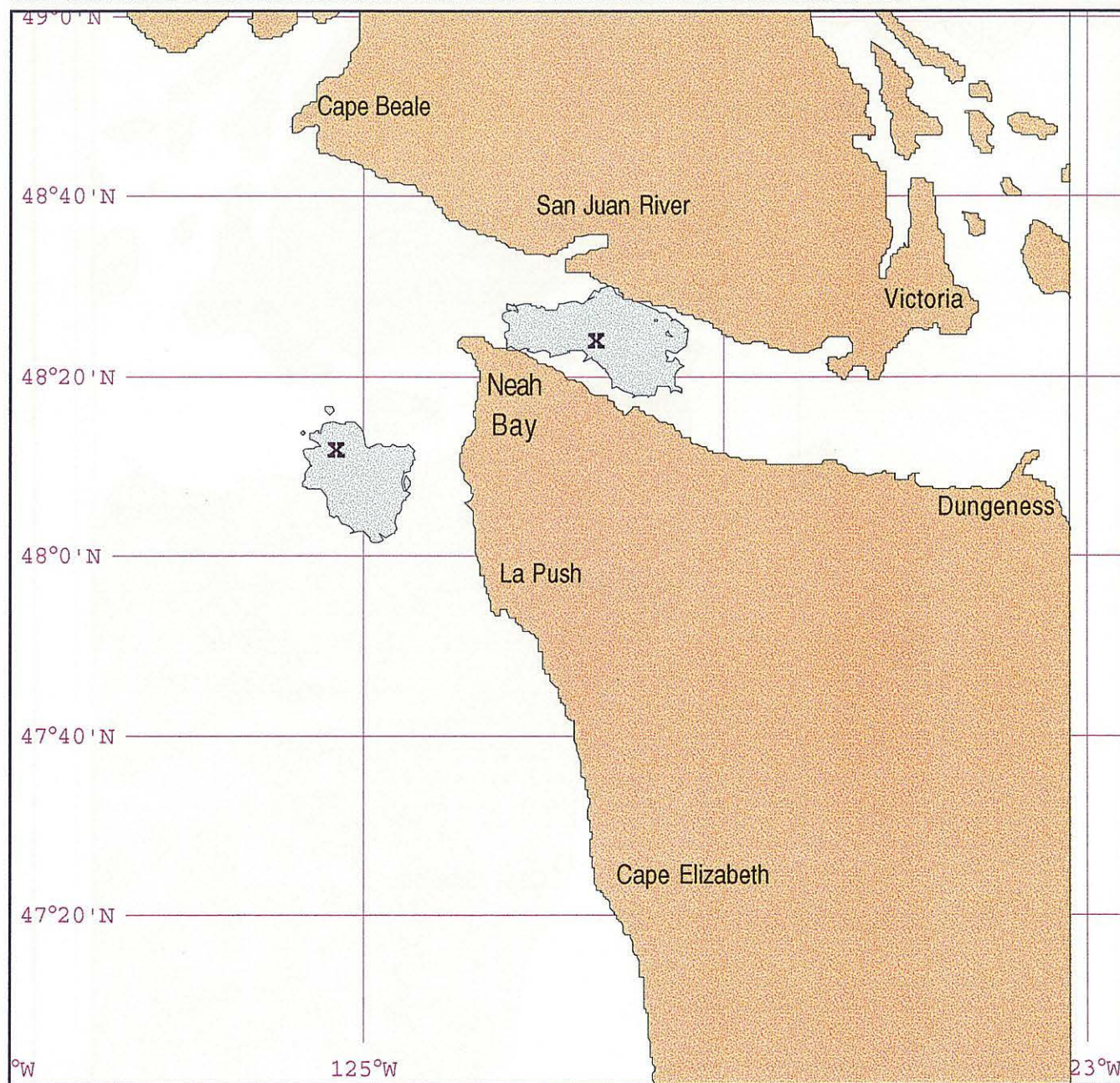


Figure B-33. Map of 6-hour probability contours, summer, 8 percent drift for sites 2 and 4.

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Summer

Ship drift: 10% of the wind speed representing both wind and wave action

Time: 2-hours

At each site, the contour represents the 95% probability distribution.

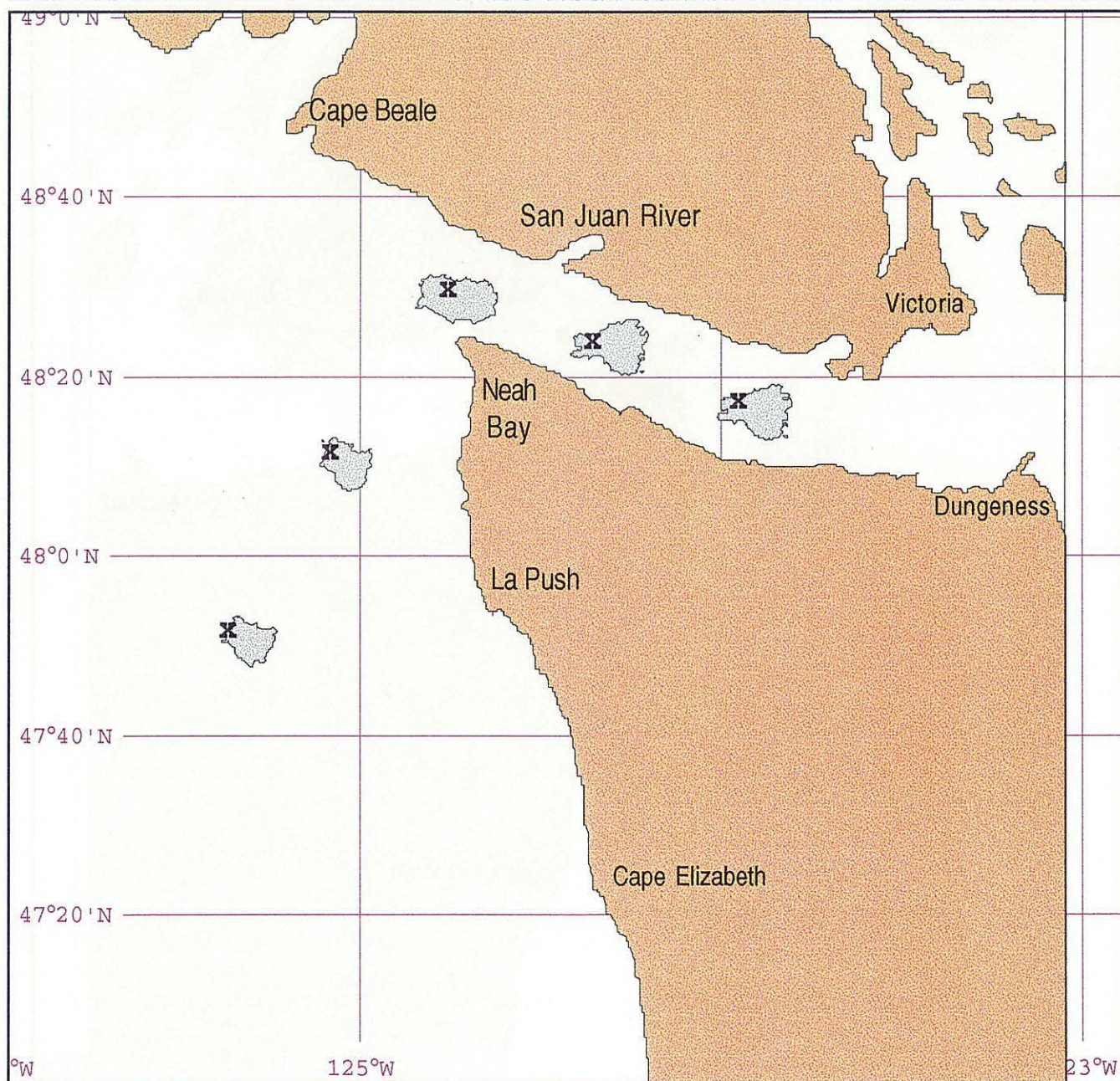


Figure B-34. Map of 2-hour probability contours, summer, 10 percent drift for five sites.

**Ship drift analysis**

Estimate for:

Prepared: ,

MASS Statistical Analysis

NOAA/HAZMAT/MASS (206) 526-6317



Season: Summer

Ship drift: 10% of the wind speed representing both wind and wave action

Time: 6-hours

At each site, the contour represents the 95% probability distribution.

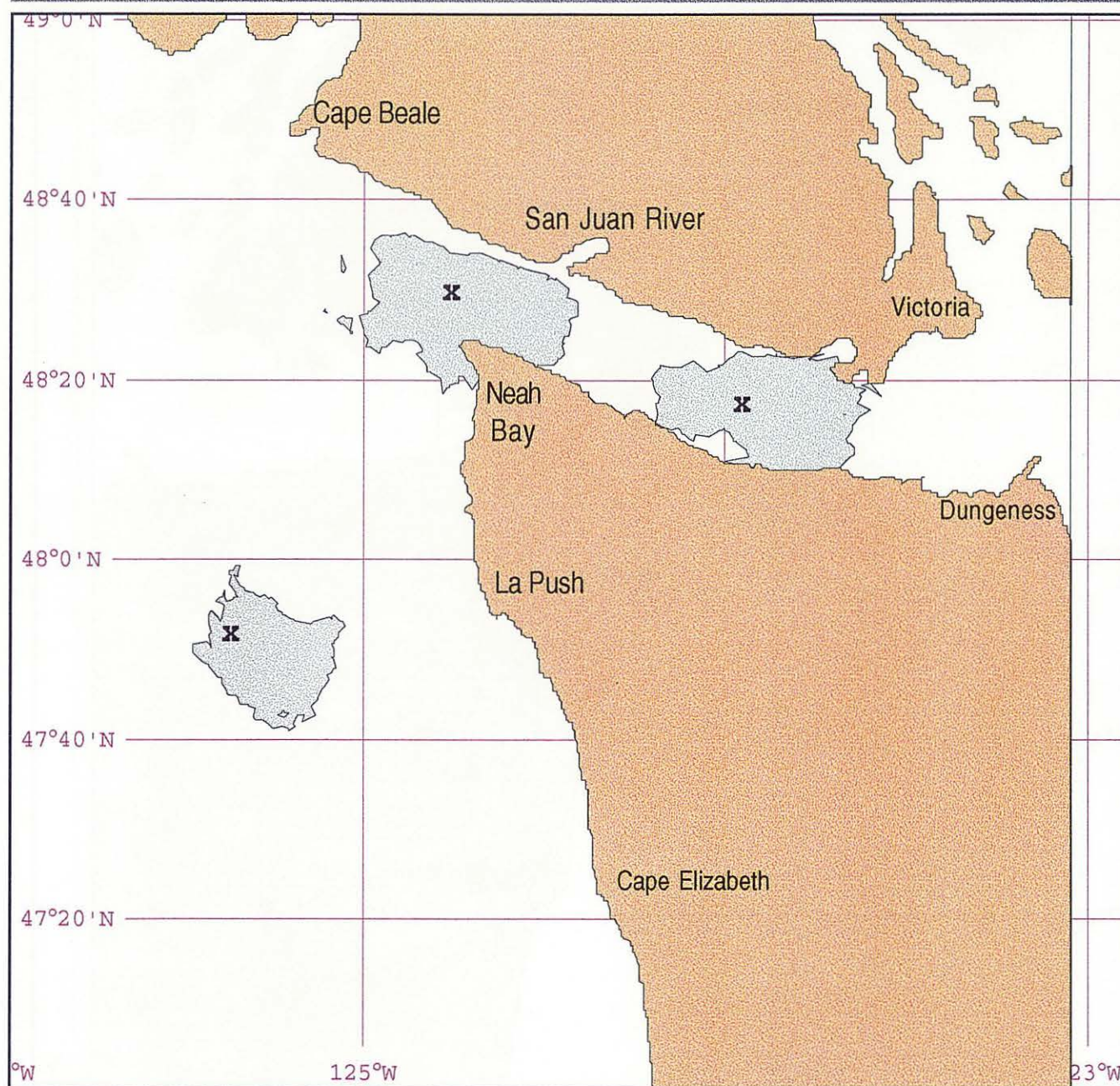


Figure B-35. Map of 6-hour probability contours, summer, 10 percent drift for sites 1, 3, and 5.

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Summer

Ship drift: 10% of the wind speed representing both wind and wave action

Time: 6-hours

At each site, the contour represents the 95% probability distribution.

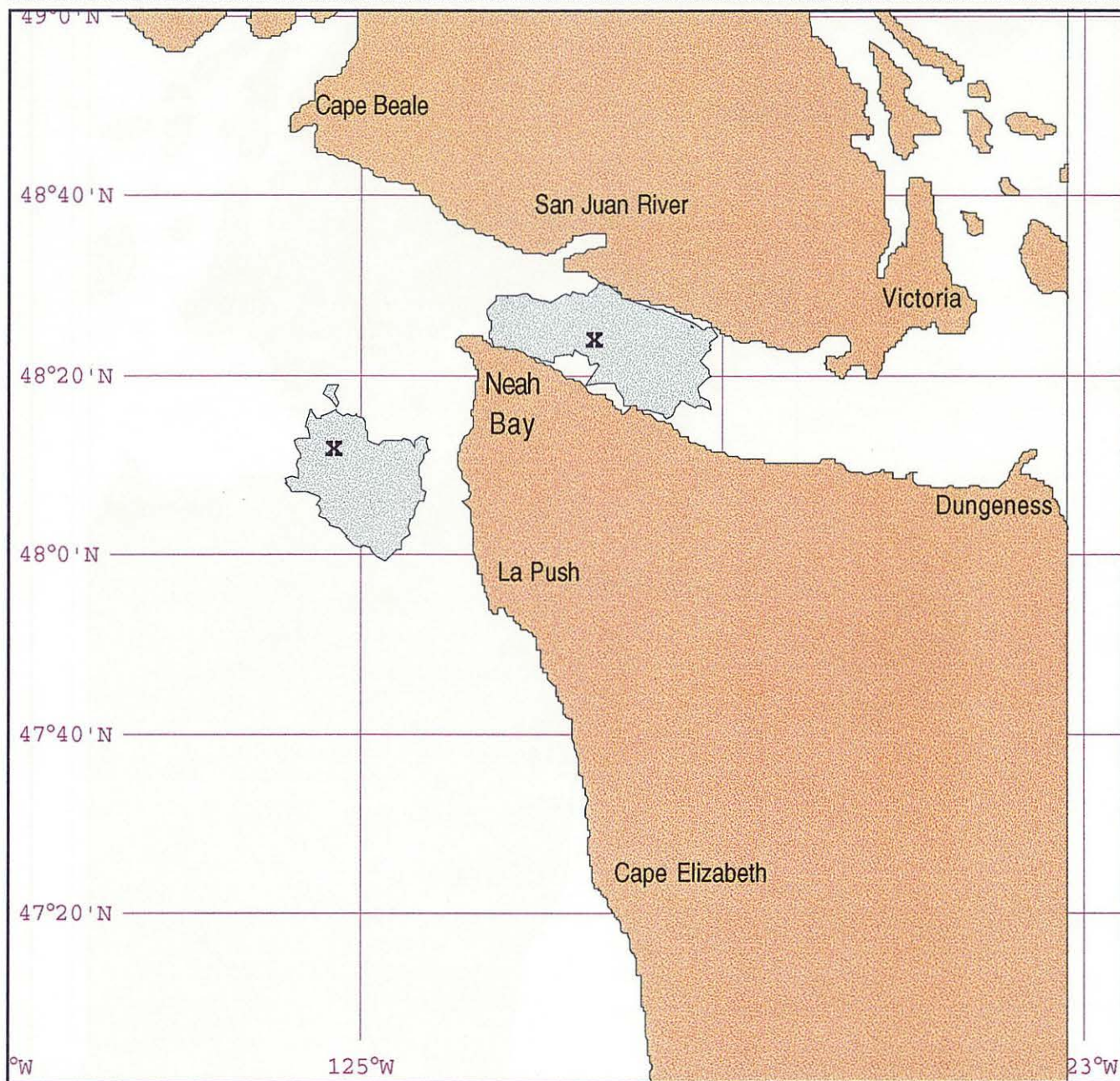


Figure B-36. Map of 6-hour probability contours, summer, 10 percent drift for sites 2 and 4.

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Fall

Ship drift: 2% of the wind speed representing both wind and wave action

Time: 2-hours

At each site, the contour represents the 95% probability distribution.

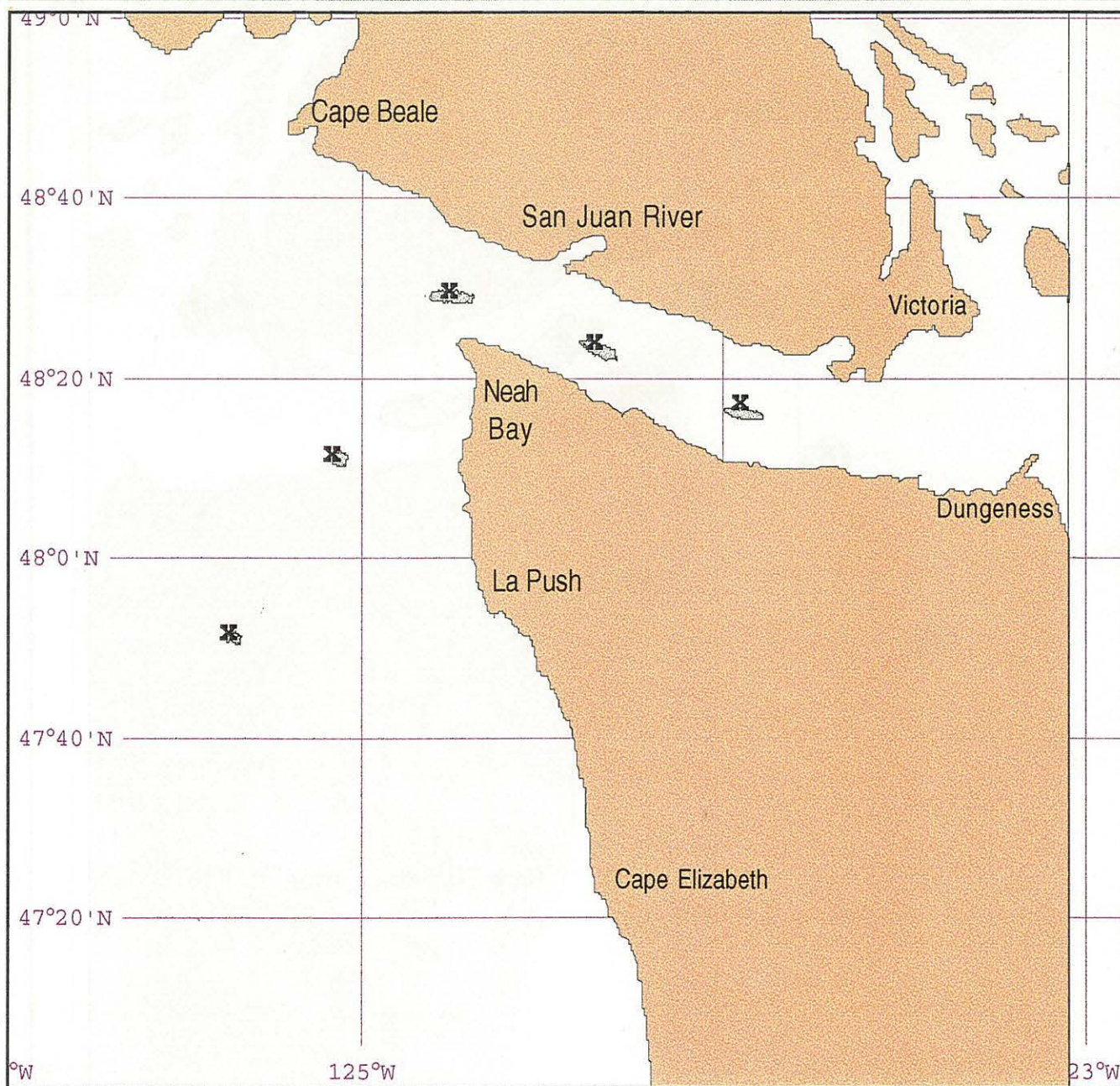


Figure B-37. Map of 2-hour probability contours, fall, 2 percent drift for five sites.

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Fall

Ship drift: 2% of the wind speed representing both wind and wave action

Time: 6-hours

At each site, the contour represents the 95% probability distribution.

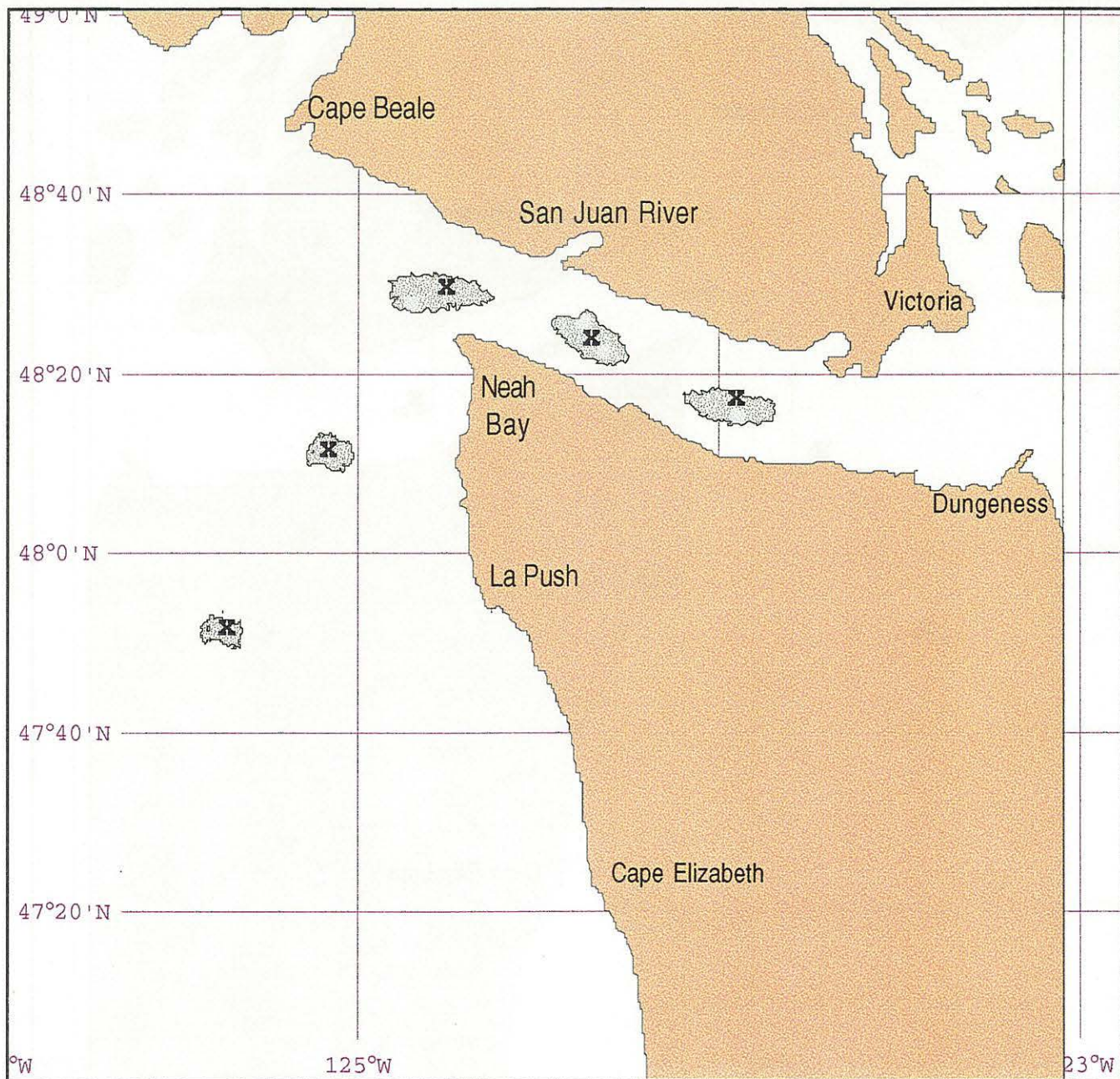


Figure B-38. Map of 6-hour probability contours, fall, 2 percent drift for five sites.

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Fall

Ship drift: 4% of the wind speed representing both wind and wave action

Time: 2-hours

At each site, the contour represents the 95% probability distribution.

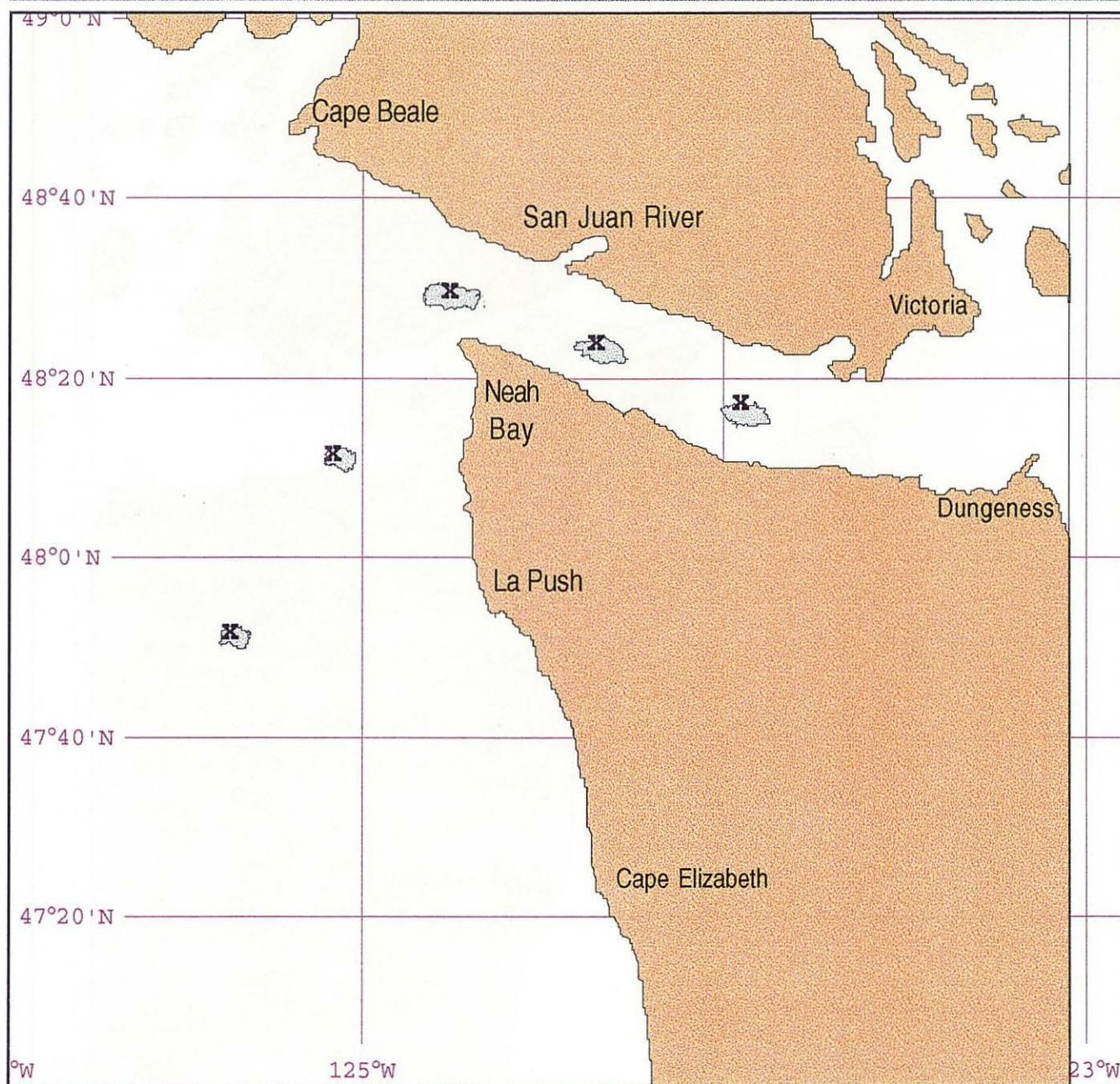


Figure B-39. Map of 2-hour probability contours, fall, 4 percent drift for five sites.

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Fall

Ship drift: 4% of the wind speed representing both wind and wave action

Time: 6-hours

At each site, the contour represents the 95% probability distribution.

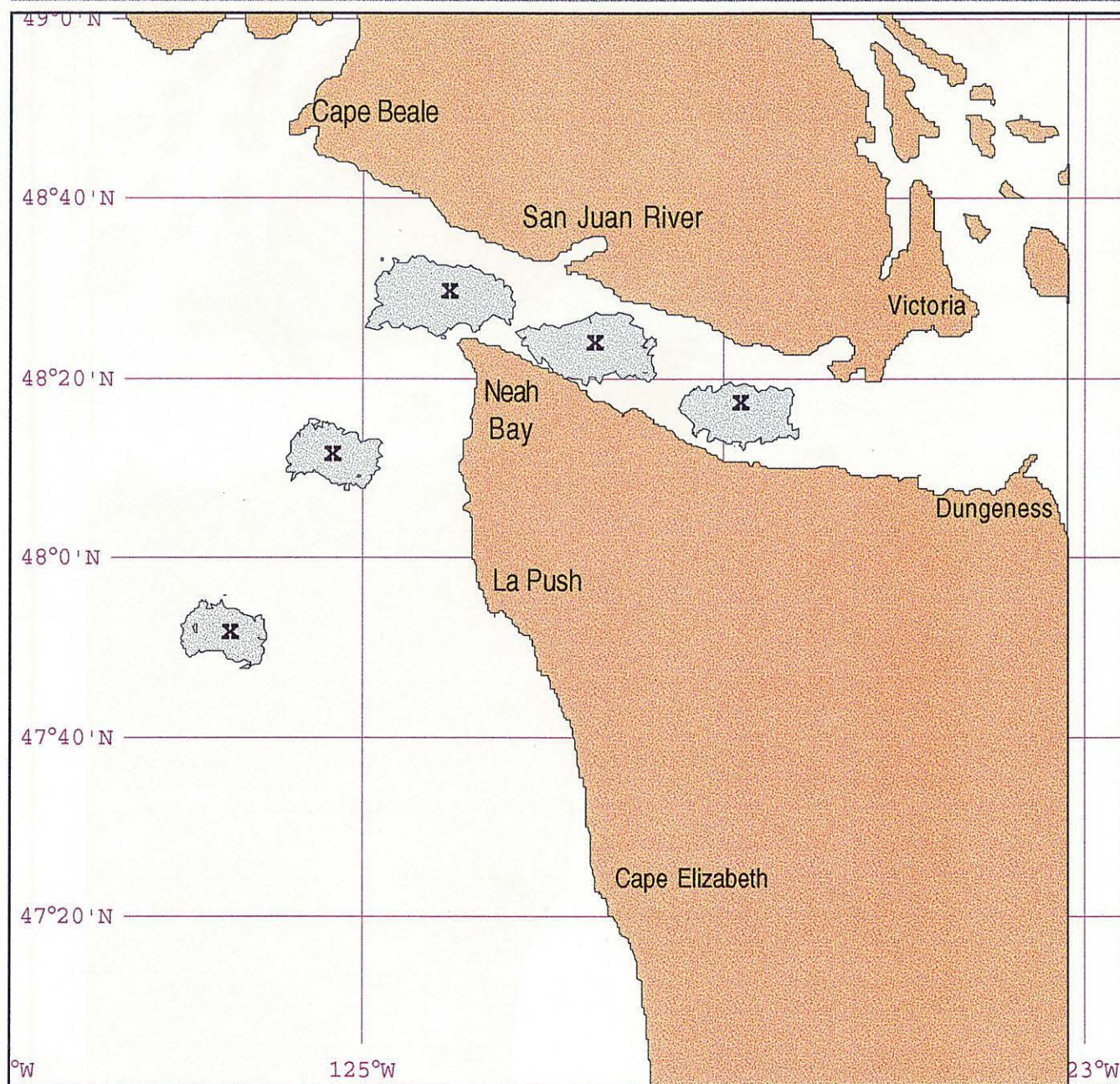


Figure B-40. Map of 6-hour probability contours, fall, 4 percent drift for five sites.

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Fall

Ship drift: 6% of the wind speed representing both wind and wave action

Time: 2-hours

At each site, the contour represents the 95% probability distribution.

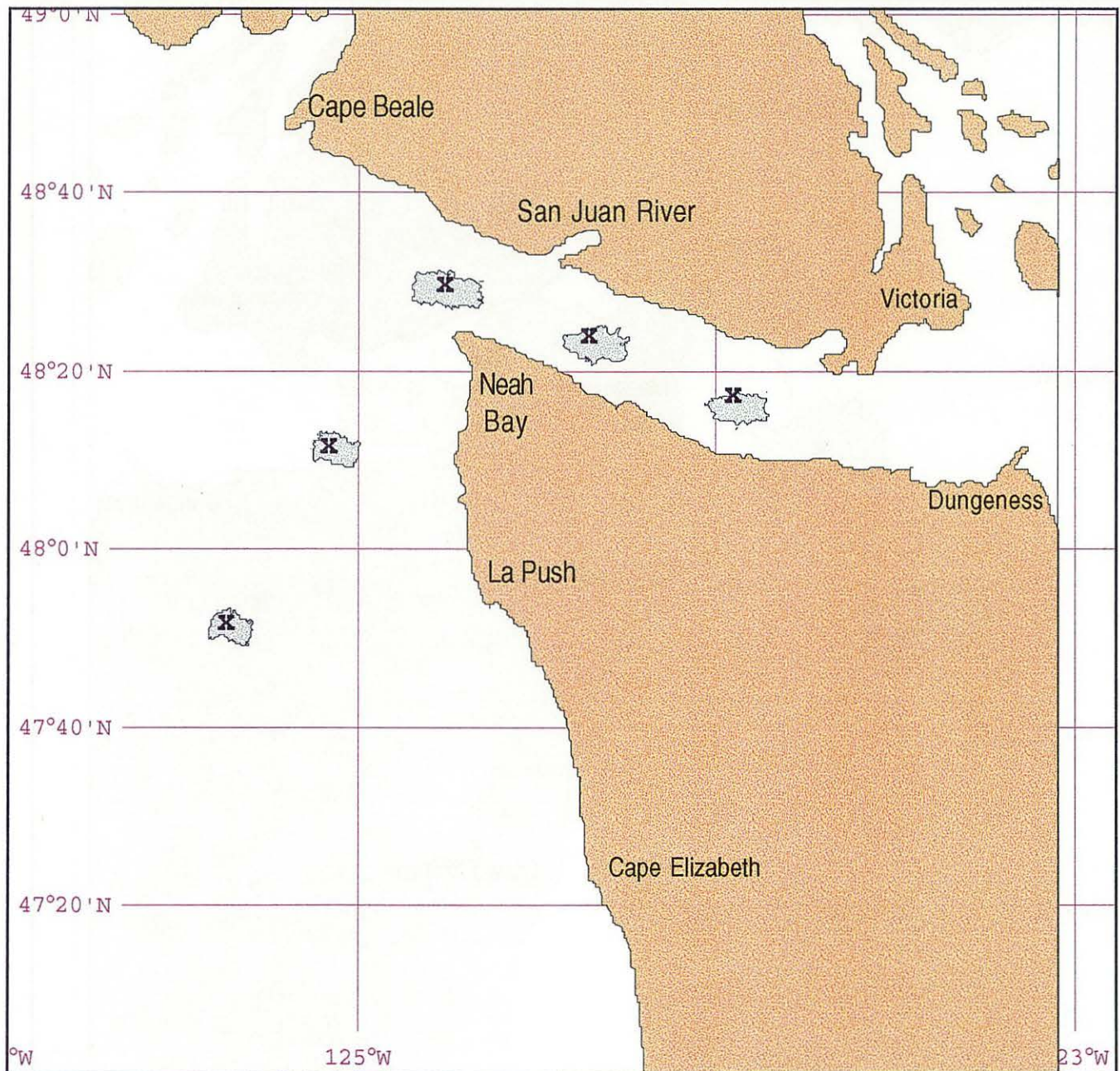


Figure B-41. Map of 2-hour probability contours, fall, 6 percent drift for five sites.

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Fall

Ship drift: 6% of the wind speed representing both wind and wave action

Time: 6-hours

At each site, the contour represents the 95% probability distribution.

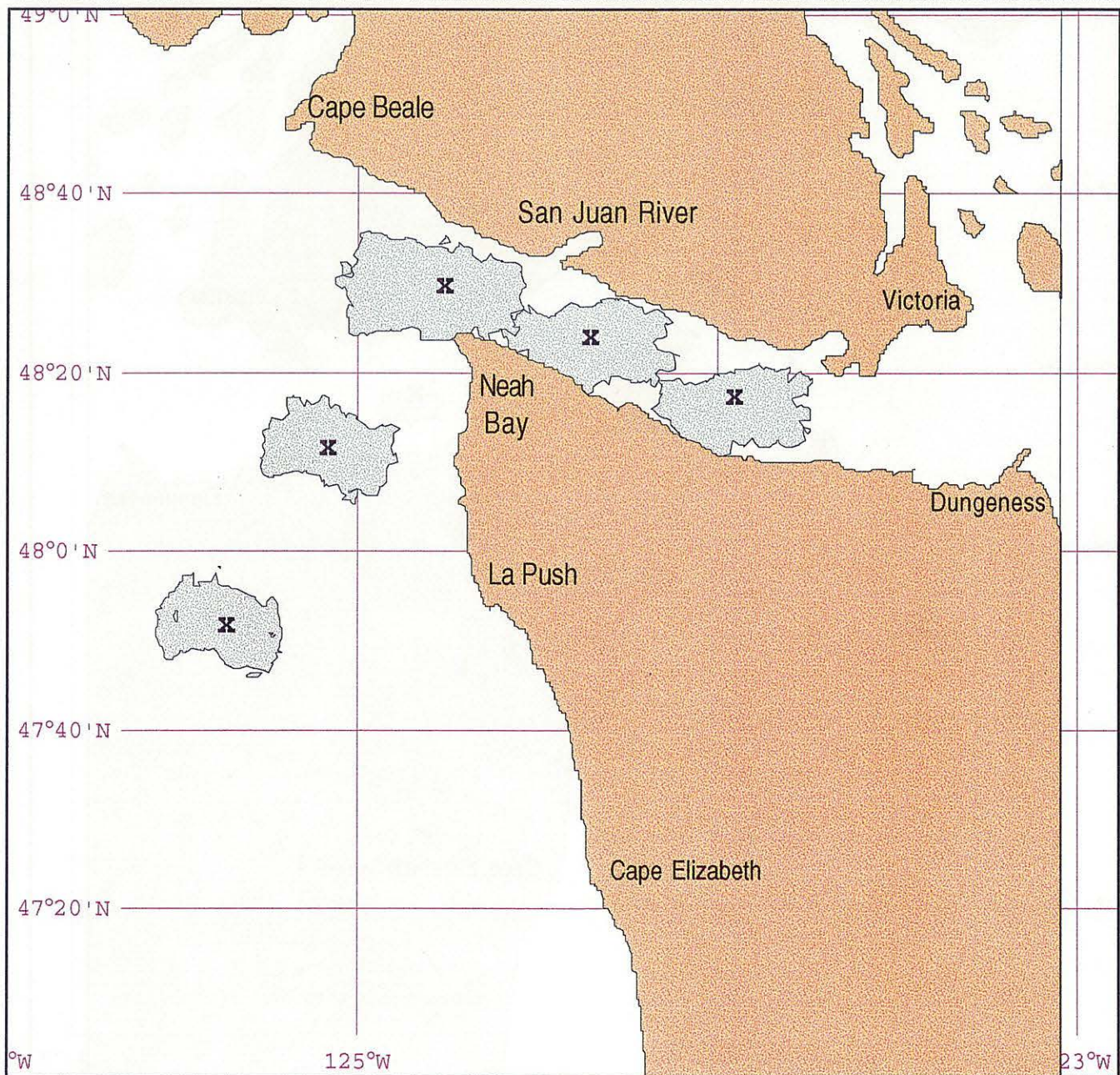


Figure B-42. Map of 6-hour probability contours, fall, 6 percent drift for five sites.

**Ship drift analysis**

Estimate for:

Prepared: ,

MASS Statistical Analysis

NOAA/HAZMAT/MASS (206) 526-6317



Season: Fall

Ship drift: 8% of the wind speed representing both wind and wave action

Time: 2-hours

At each site, the contour represents the 95% probability distribution.

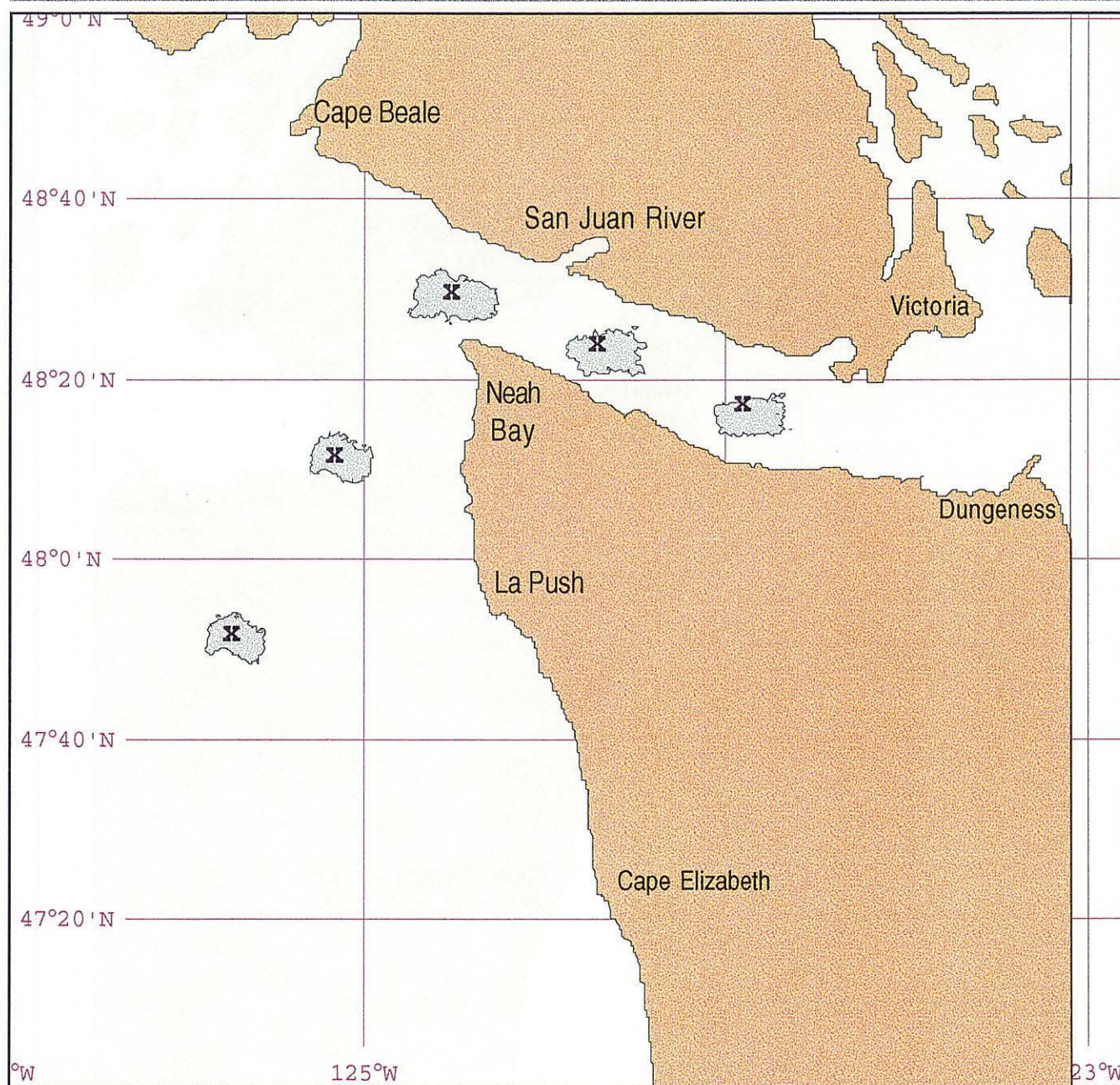


Figure B-43. Map of 2-hour probability contours, fall, 8 percent drift for five sites.

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Fall

Ship drift: 8% of the wind speed representing both wind and wave action

Time: 6-hours

At each site, the contour represents the 95% probability distribution.

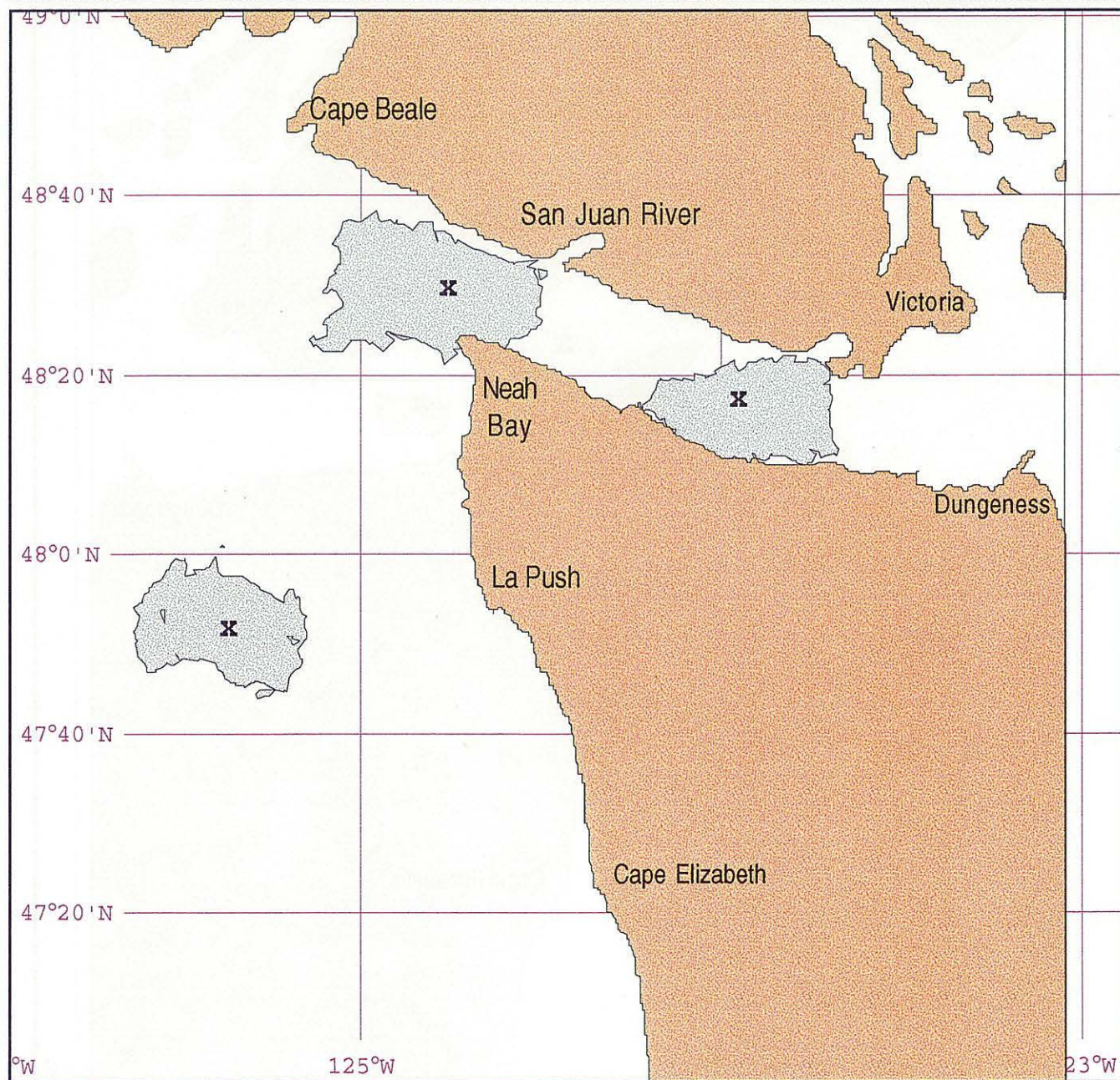


Figure B-44. Map of 6-hour probability contours, fall, 8 percent drift for sites 1, 3, and 5.

**Ship drift analysis**

Estimate for:

Prepared: ,

MASS Statistical Analysis

NOAA/HAZMAT/MASS (206) 526-6317



Season: Fall

Ship drift: 8% of the wind speed representing both wind and wave action

Time: 6-hours

At each site, the contour represents the 95% probability distribution.

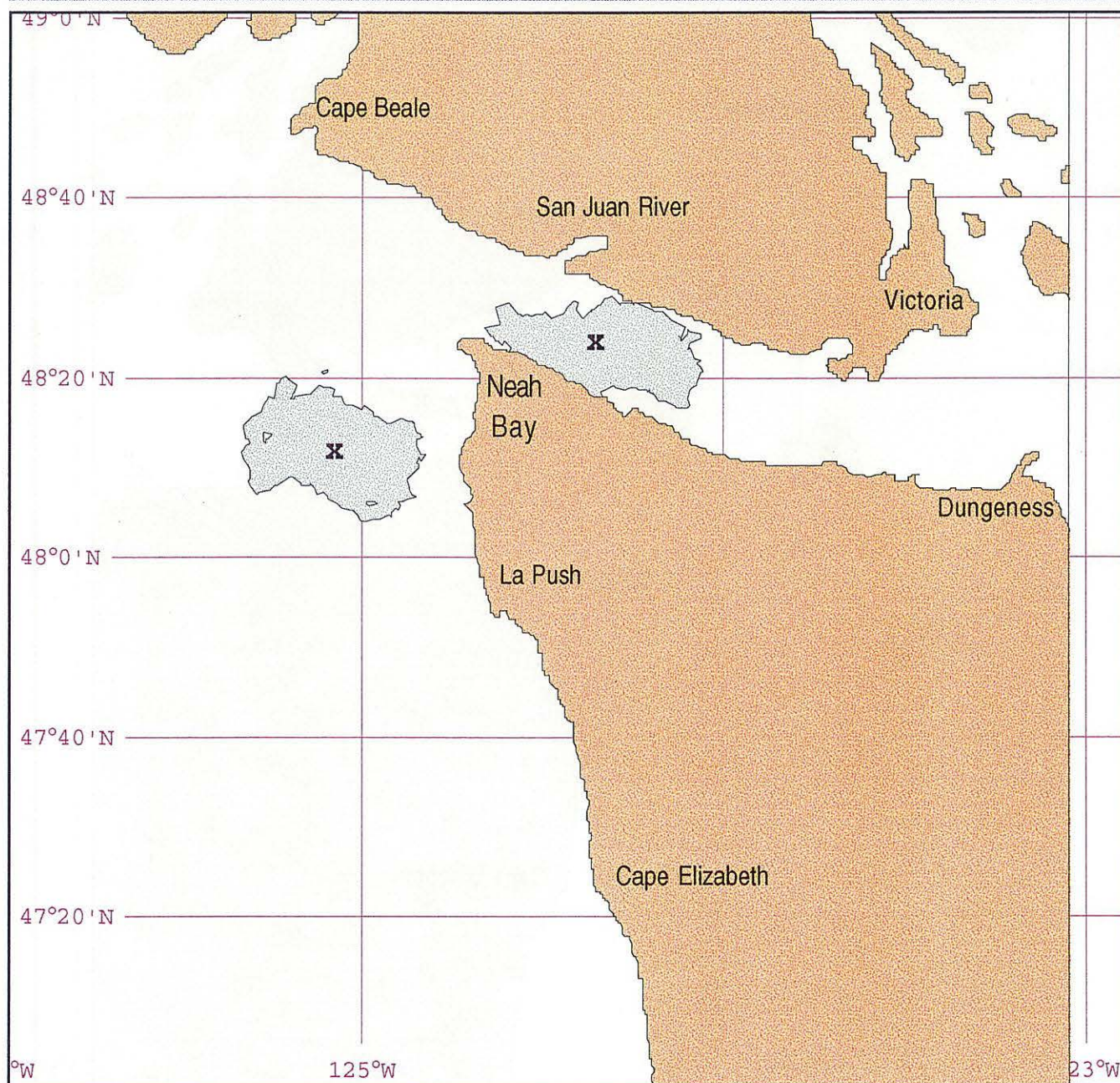


Figure B-45. Map of 6-hour probability contours, fall, 8 percent drift for sites 2 and 4.

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Fall

Ship drift: 10% of the wind speed representing both wind and wave action

Time: 2-hours

At each site, the contour represents the 95% probability distribution.

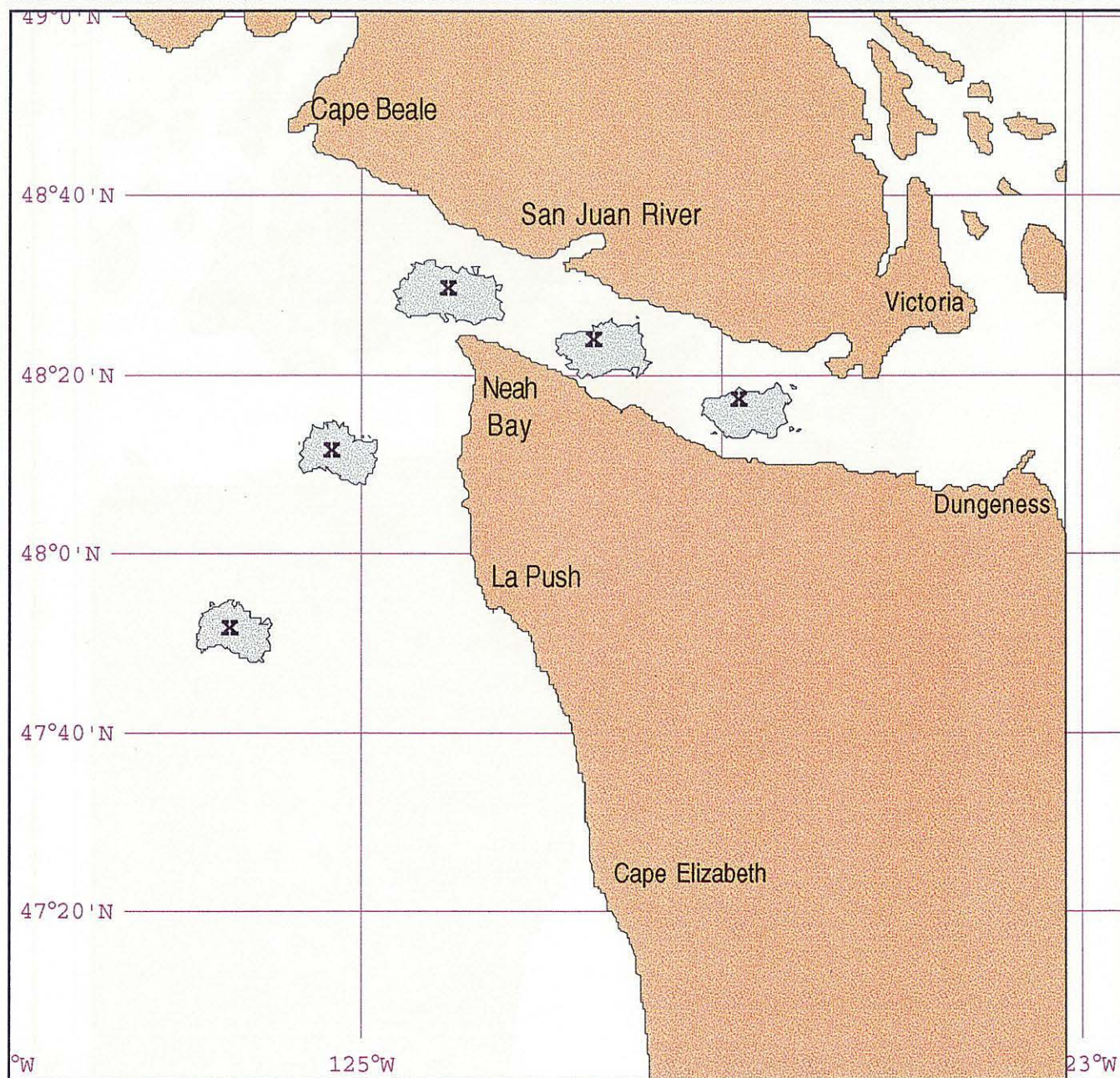


Figure B-46. Map of 2-hour probability contours, fall, 10 percent drift for five sites.

**Ship drift analysis**

Estimate for:

Prepared: ,

MASS Statistical Analysis

NOAA/HAZMAT/MASS (206) 526-6317



Season: Fall

Ship drift: 10% of the wind speed representing both wind and wave action

Time: 6-hours

At each site, the contour represents the 95% probability distribution.

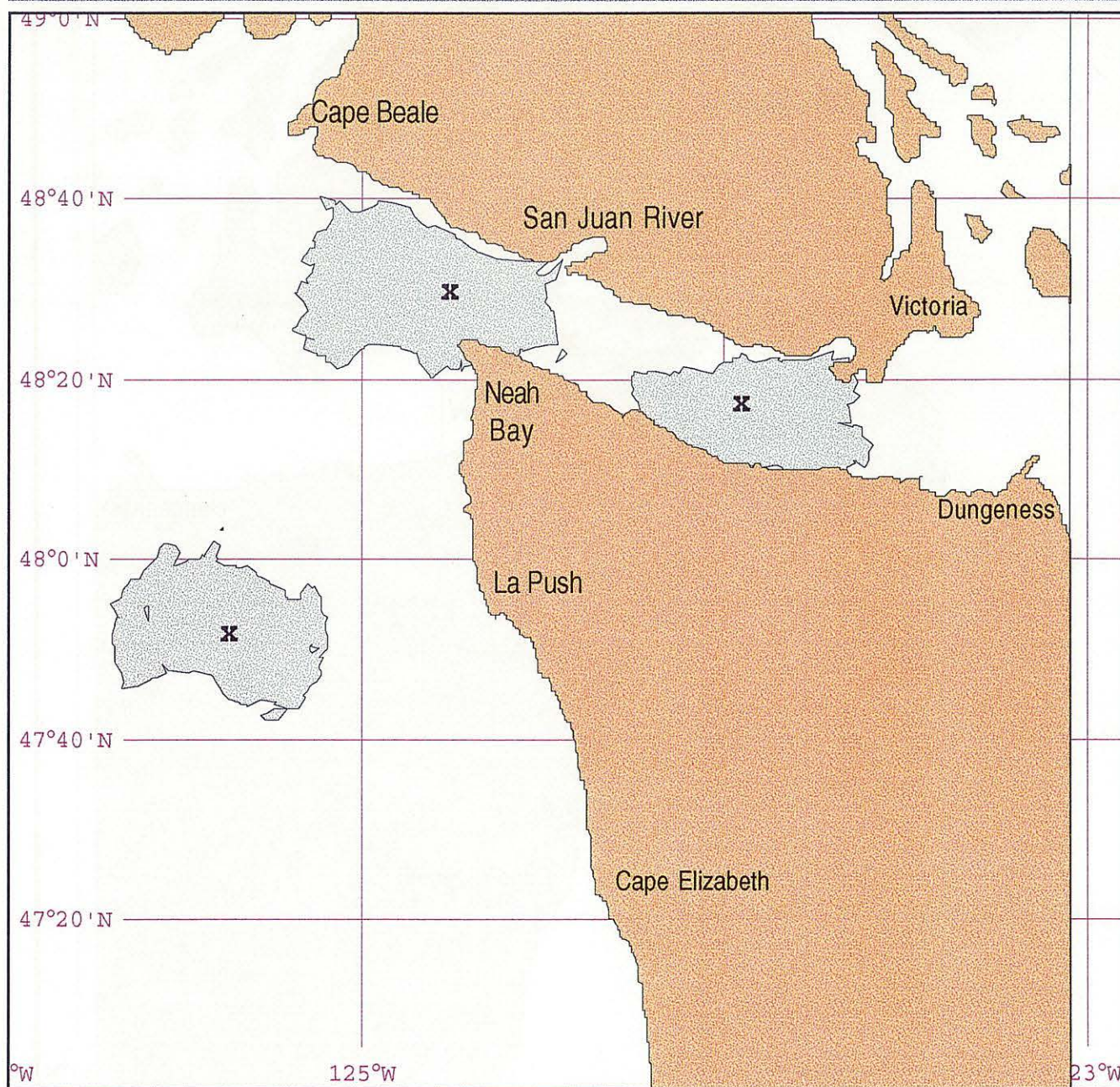


Figure B-47. Map of 6-hour probability contours, fall, 10 percent drift for sites 1, 3, and 5.

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Fall

Ship drift: 10% of the wind speed representing both wind and wave action

Time: 6-hours

At each site, the contour represents the 95% probability distribution.

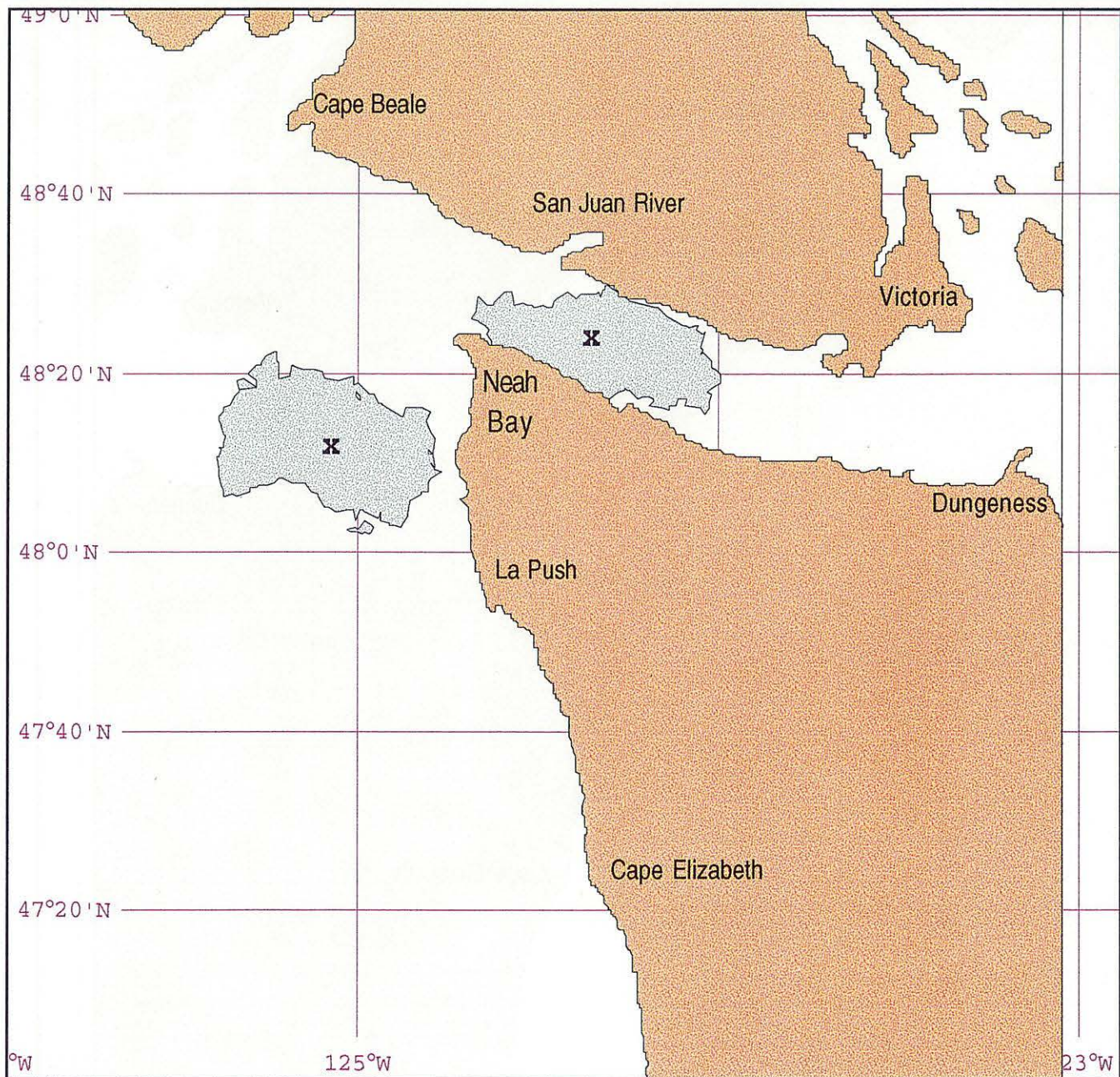


Figure B-48. Map of 6-hour probability contours, fall, 10 percent drift for sites 2 and 4.

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Winter

Ship drift: 2% of the wind speed representing both wind and wave action

Time: 2-hours

At each site, the contour represents the 95% probability distribution.

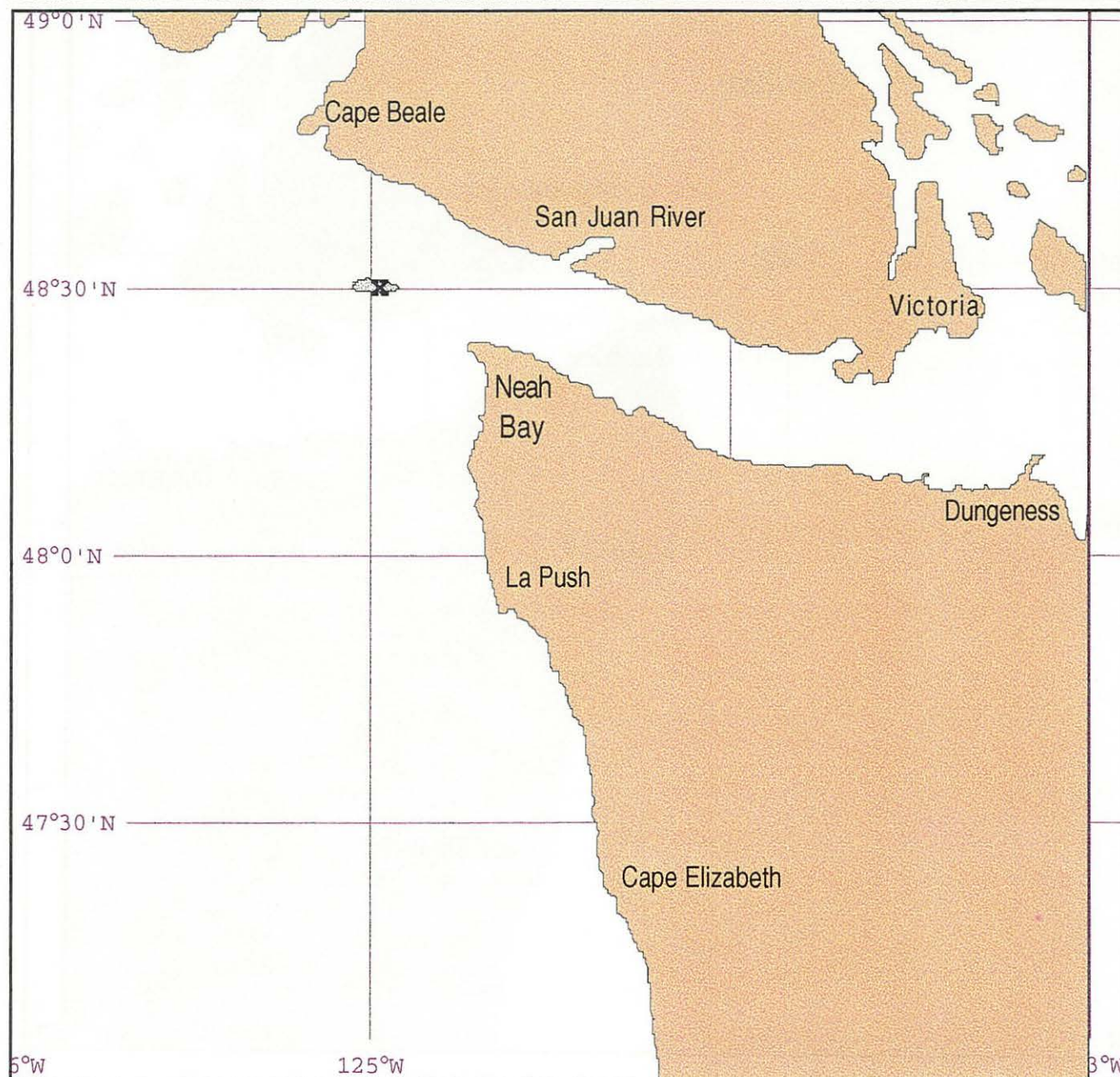


Figure B-49. Map of 2-hour probability contours, winter, 2 percent drift for site 6.

**Ship drift analysis**

Estimate for:

Prepared: ,

MASS Statistical Analysis

NOAA/HAZMAT/MASS (206) 526-6317



Season: Winter

Ship drift: 2% of the wind speed representing both wind and wave action

Time: 4-hours

At each site, the contour represents the 95% probability distribution.

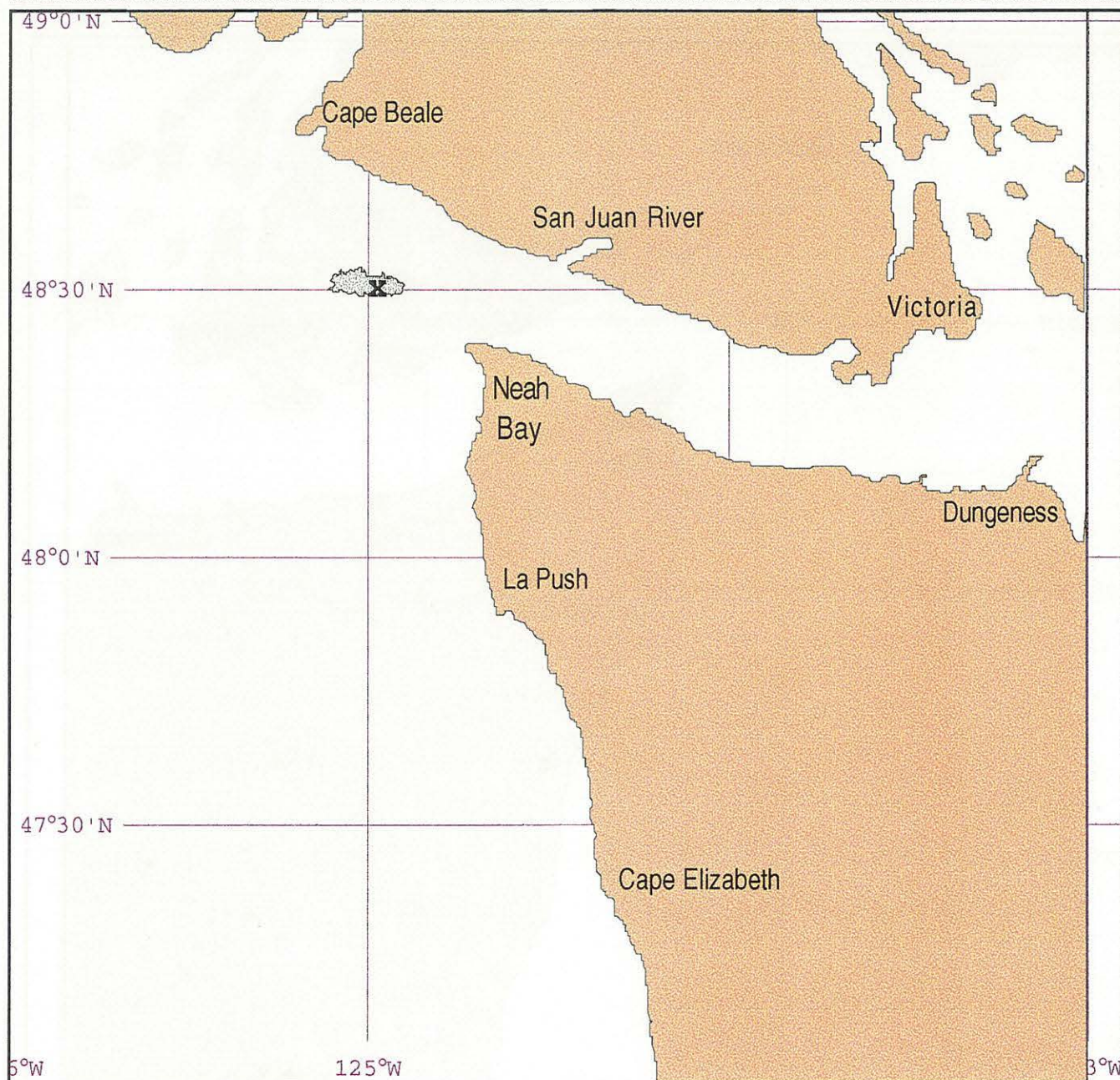


Figure B-50. Map of 4-hour probability contours, winter, 2 percent drift for site 6.

**Ship drift analysis**

Estimate for:

Prepared: ,

MASS Statistical Analysis

NOAA/HAZMAT/MASS (206) 526-6317



Season: Winter

Ship drift: 2% of the wind speed representing both wind and wave action

Time: 6-hours

At each site, the contour represents the 95% probability distribution.

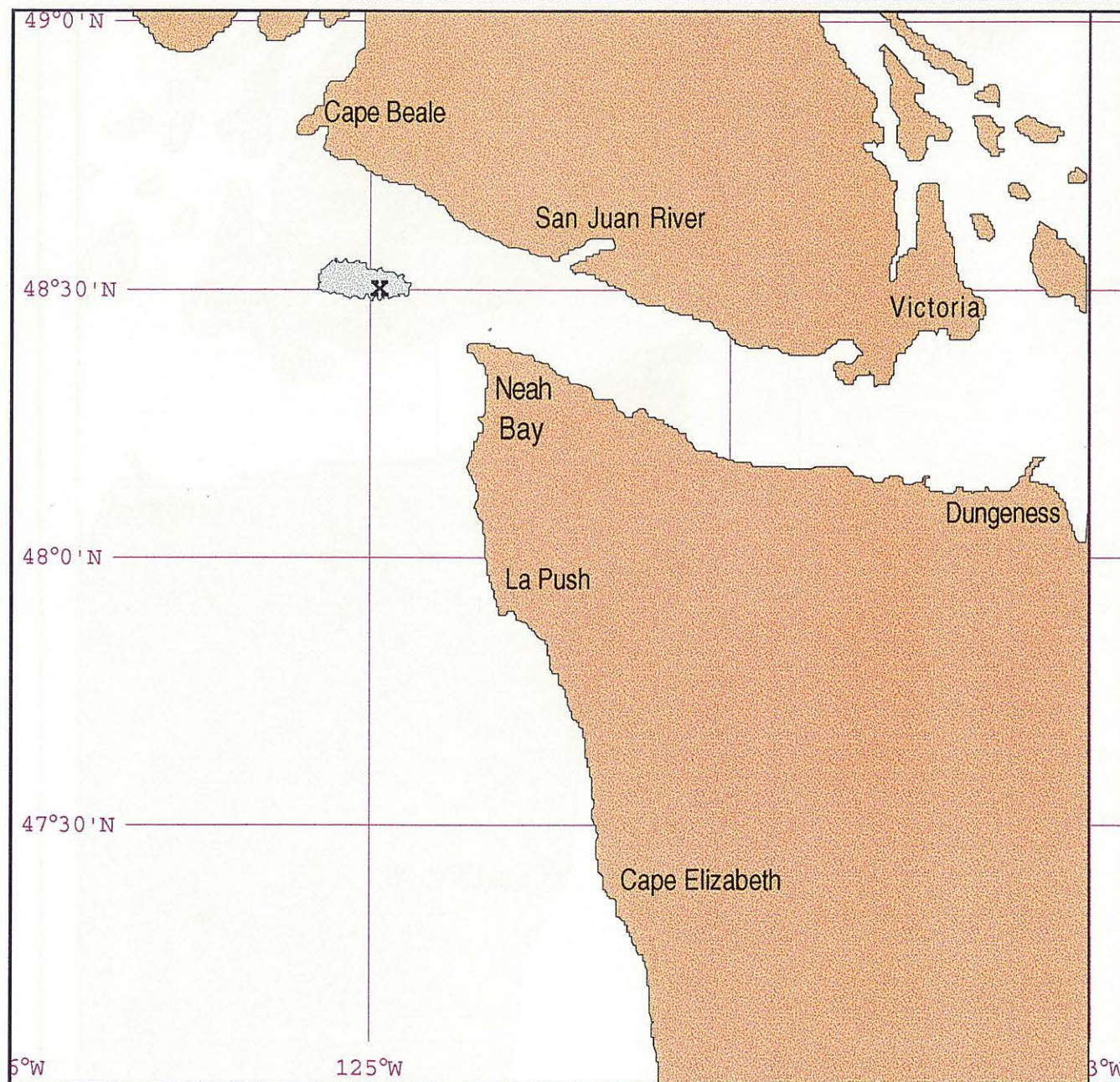


Figure B-51. Map of 6-hour probability contours, winter, 2 percent drift for site 6.

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Winter

Ship drift: 2% of the wind speed representing both wind and wave action

Time: 8-hours

At each site, the contour represents the 95% probability distribution.

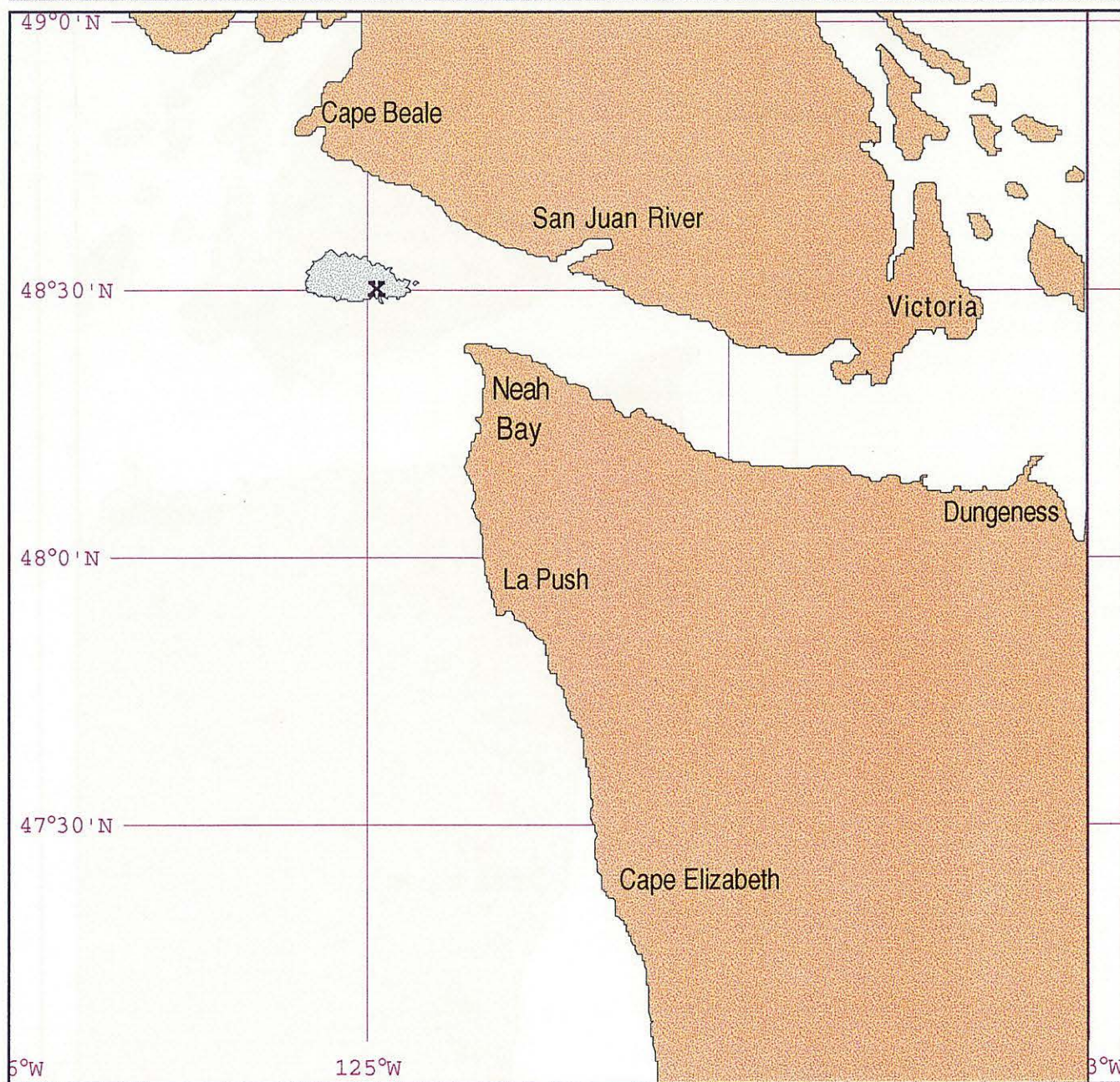


Figure B-52. Map of 8-hour probability contours, winter, 2 percent drift for site 6.

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Winter

Ship drift: 2% of the wind speed representing both wind and wave action

Time: 12-hours

At each site, the contour represents the 95% probability distribution.

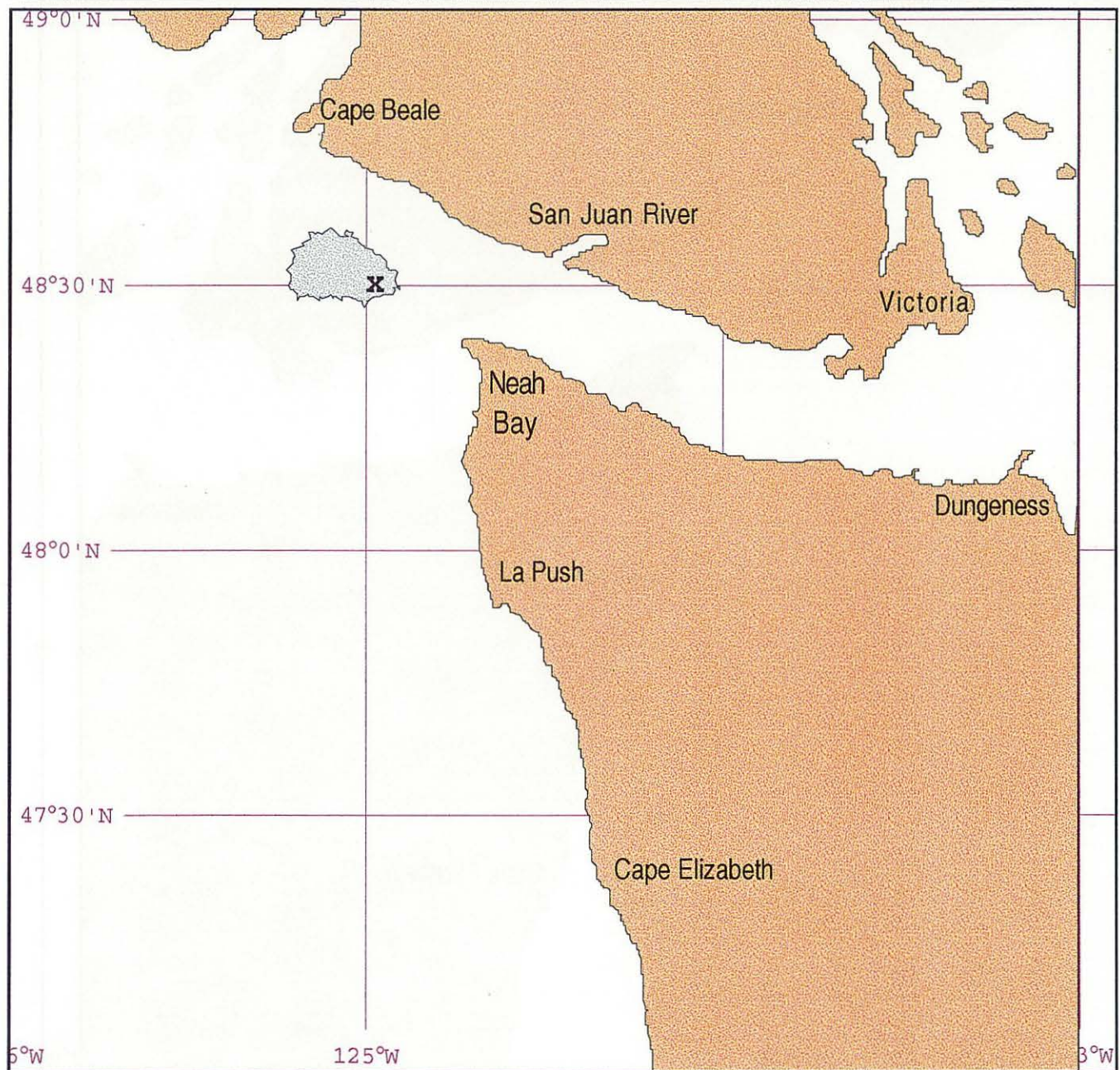


Figure B-53. Map of 12-hour probability contours, winter, 2 percent drift for site 6.



Ship drift analysis

MASS Statistical Analysis



Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317

Season: Winter

Ship drift: 4% of the wind speed representing both wind and wave action

Time: 2-hours

At each site, the contour represents the 95% probability distribution.

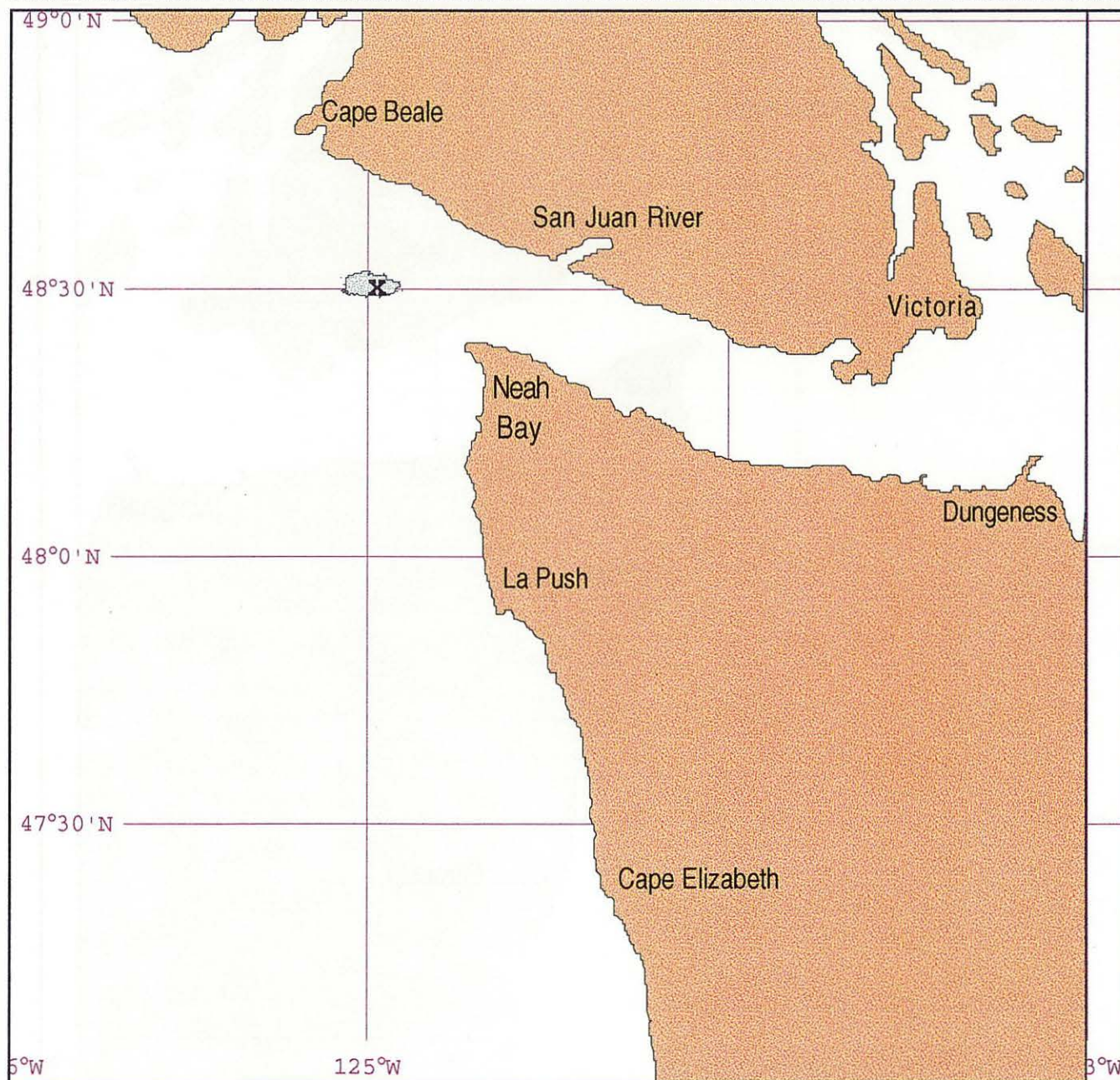


Figure B-54. Map of 2-hour probability contours, winter, 4 percent drift for site 6.

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Winter

Ship drift: 4% of the wind speed representing both wind and wave action

Time: 4-hours

At each site, the contour represents the 95% probability distribution.

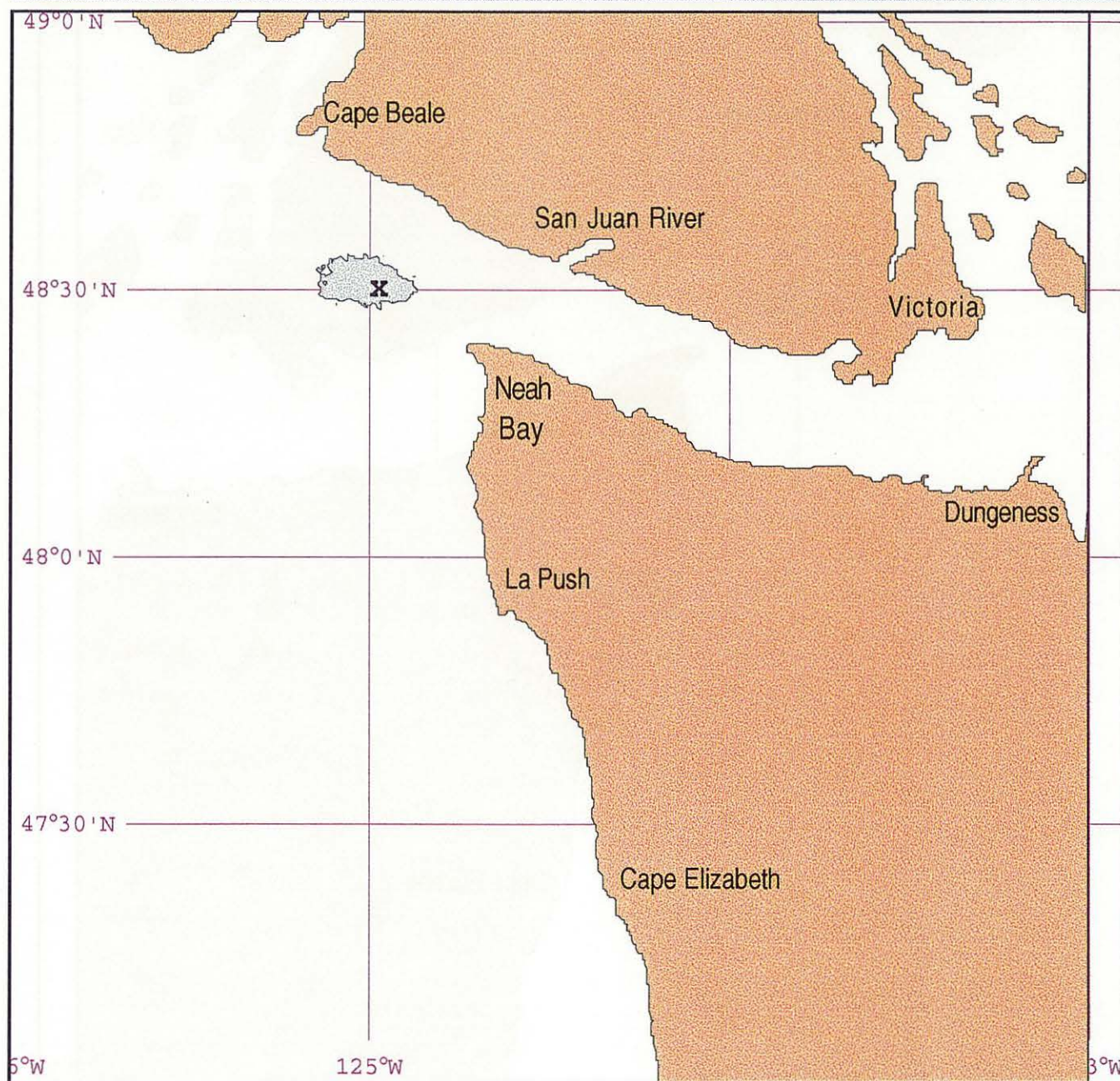


Figure B-55. Map of 4-hour probability contours, winter, 4 percent drift for site 6.

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Winter

Ship drift: 4% of the wind speed representing both wind and wave action

Time: 6-hours

At each site, the contour represents the 95% probability distribution.

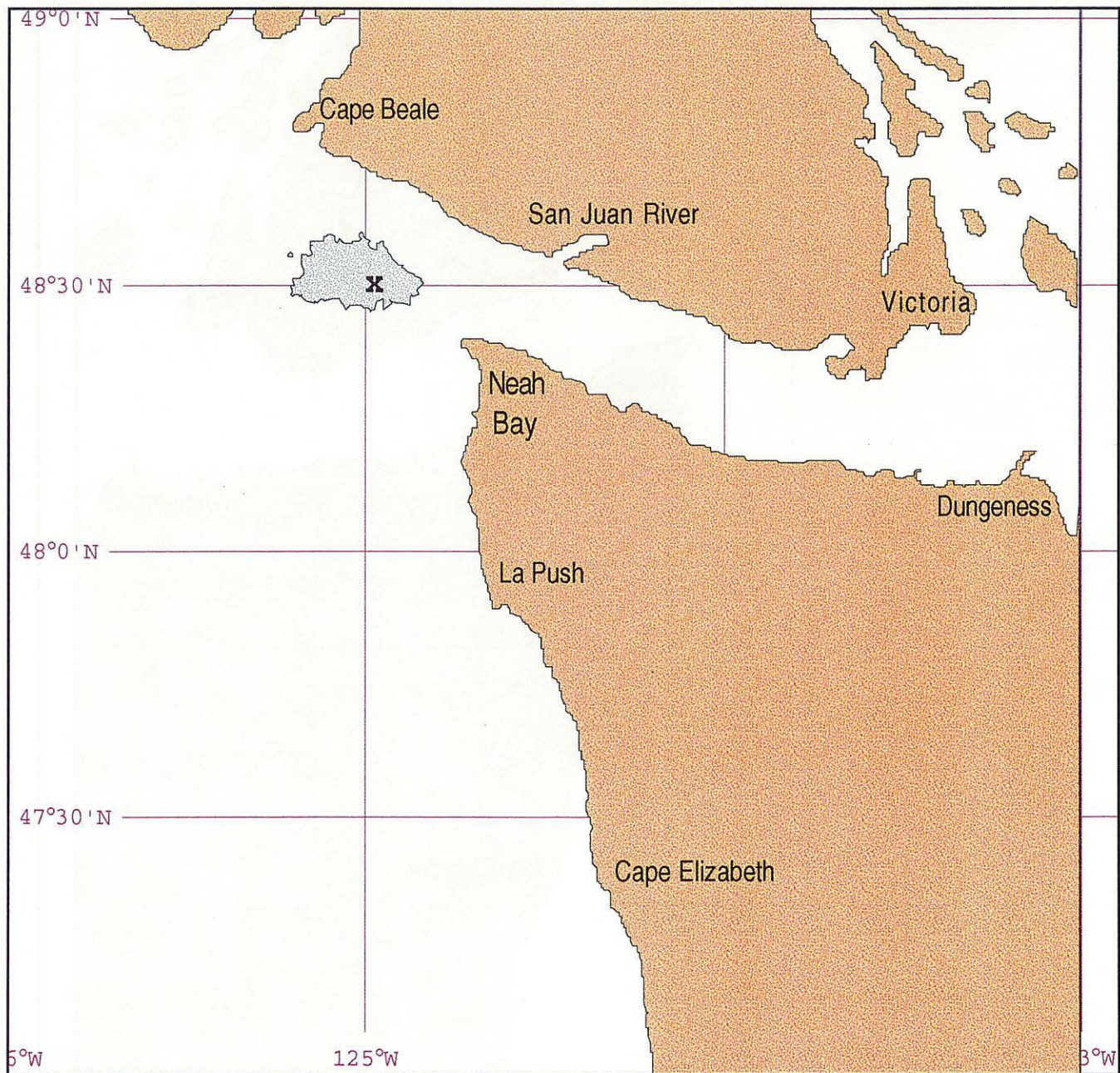


Figure B-56. Map of 6-hour probability contours, winter, 4 percent drift for site 6.

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Winter

Ship drift: 4% of the wind speed representing both wind and wave action

Time: 8-hours

At each site, the contour represents the 95% probability distribution.

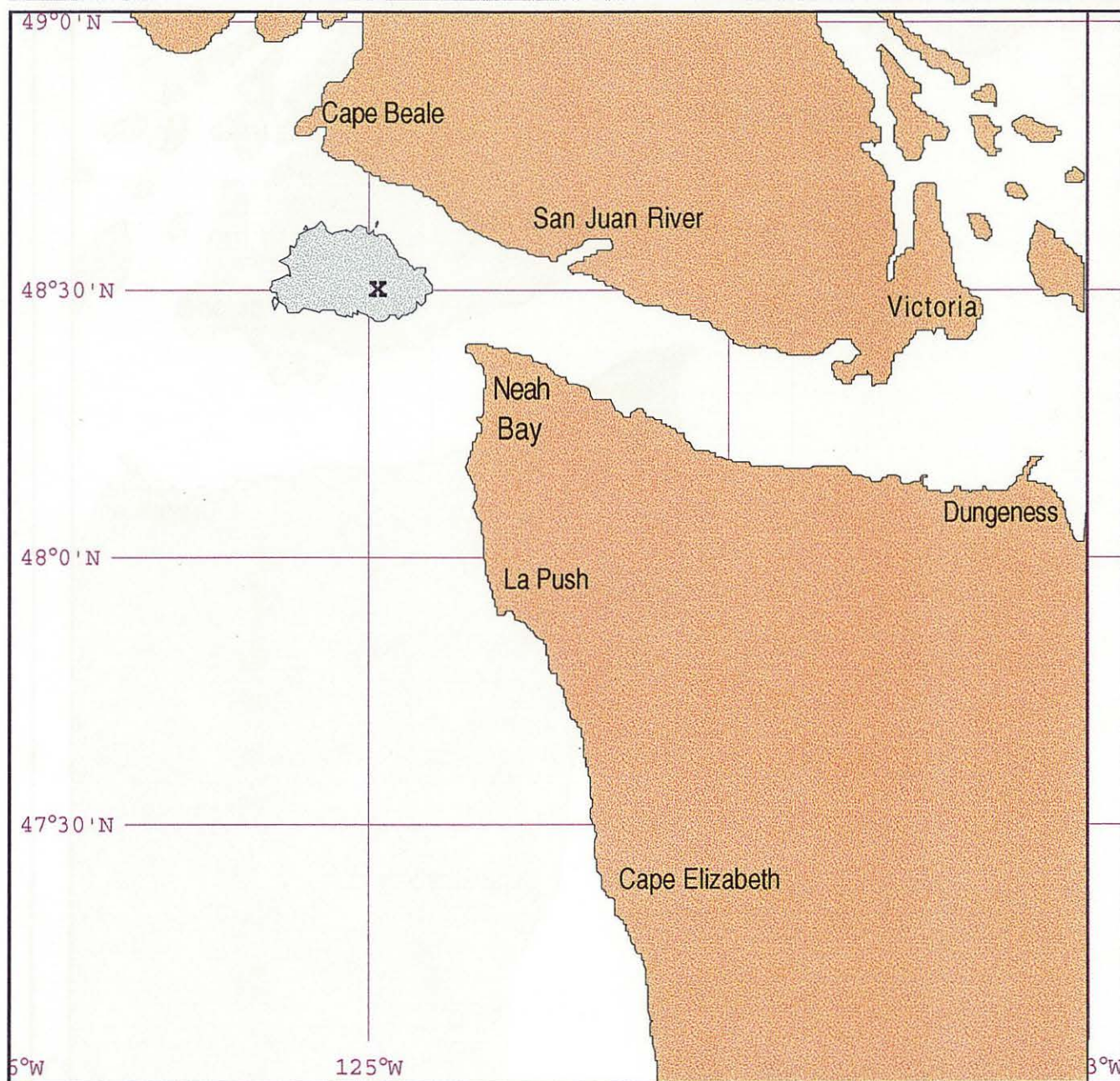


Figure B-57. Map of 8-hour probability contours, winter, 4 percent drift for site 6.

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Winter

Ship drift: 4% of the wind speed representing both wind and wave action

Time: 12-hours

At each site, the contour represents the 95% probability distribution.

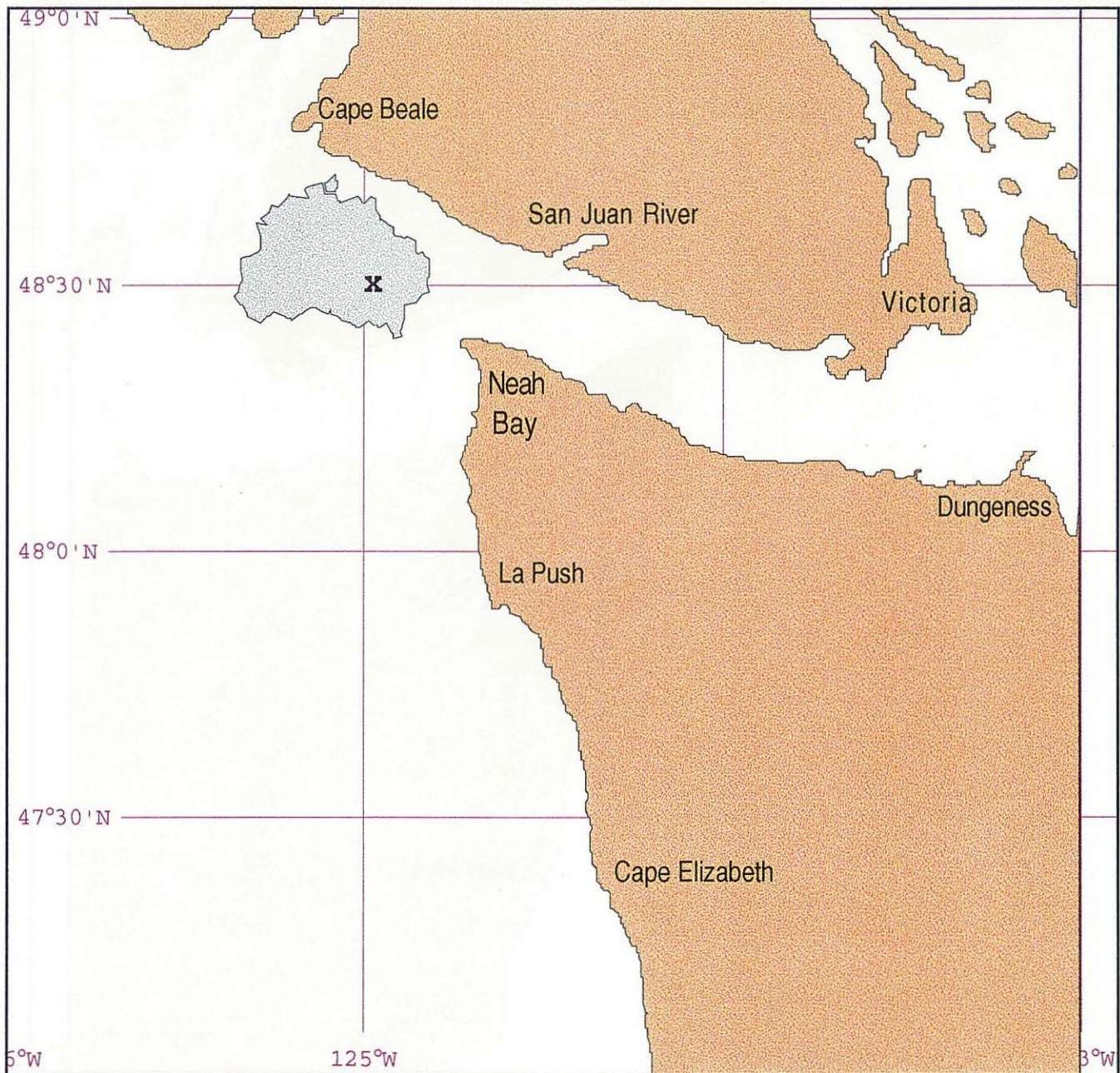


Figure B-58. Map of 12-hour probability contours, winter, 4 percent drift for site 6.

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Winter

Ship drift: 6% of the wind speed representing both wind and wave action

Time: 2-hours

At each site, the contour represents the 95% probability distribution.

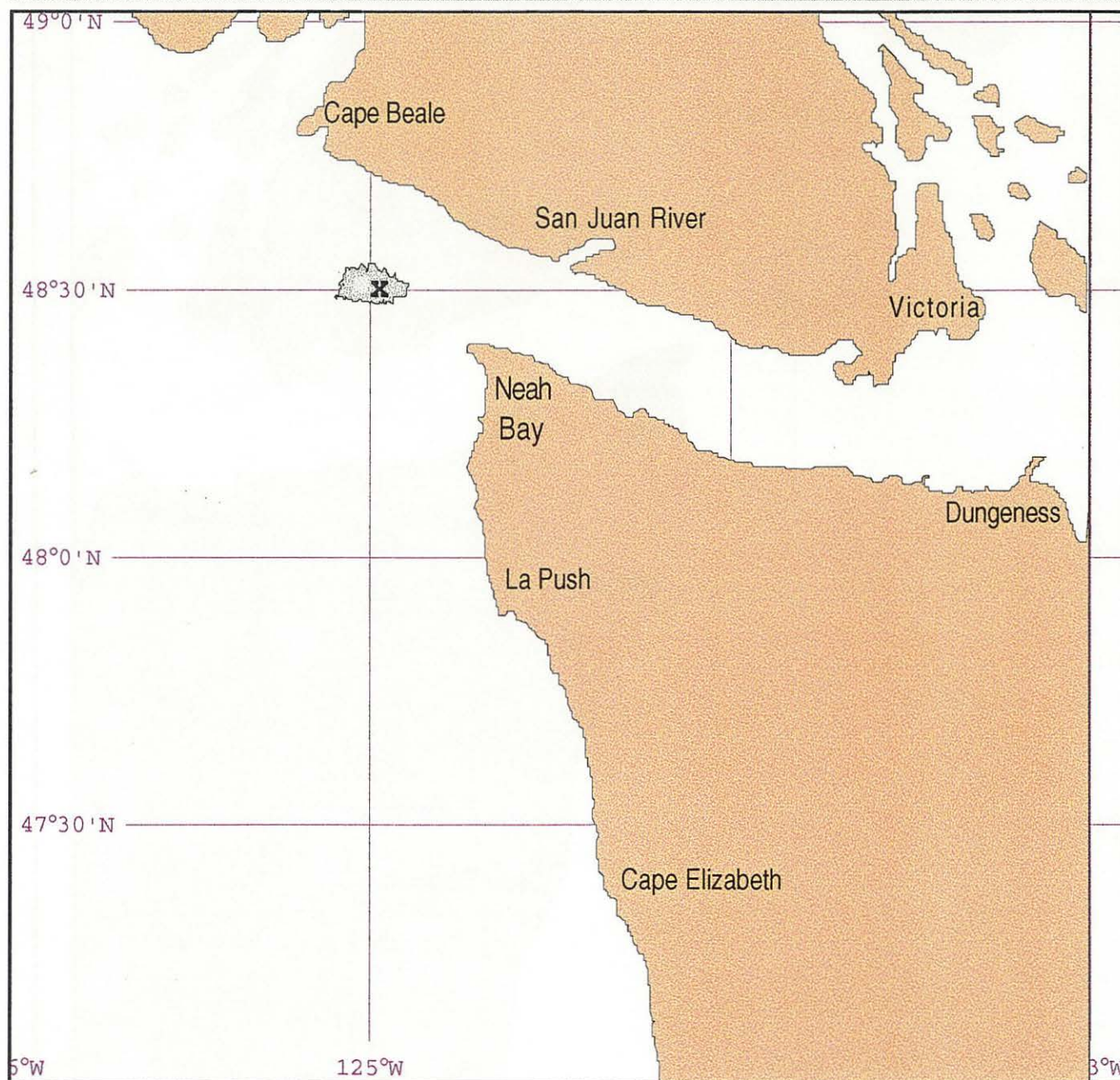


Figure B-59. Map of 2-hour probability contours, winter, 6 percent drift for site 6.

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Winter

Ship drift: 6% of the wind speed representing both wind and wave action

Time: 4-hours

At each site, the contour represents the 95% probability distribution.

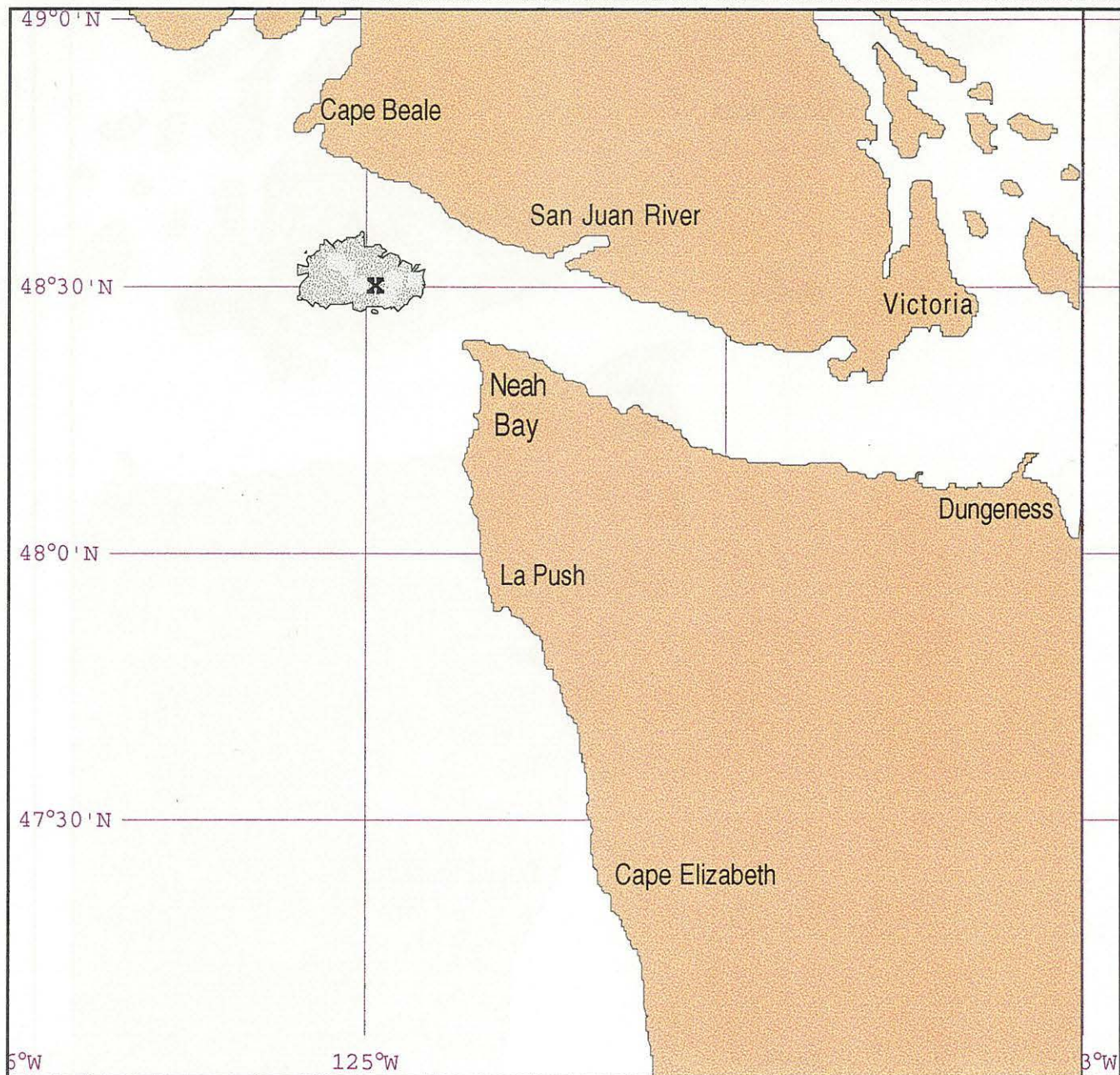


Figure B-60. Map of 4-hour probability contours, winter, 6 percent drift for site 6.

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Winter

Ship drift: 6% of the wind speed representing both wind and wave action

Time: 6-hours

At each site, the contour represents the 95% probability distribution.

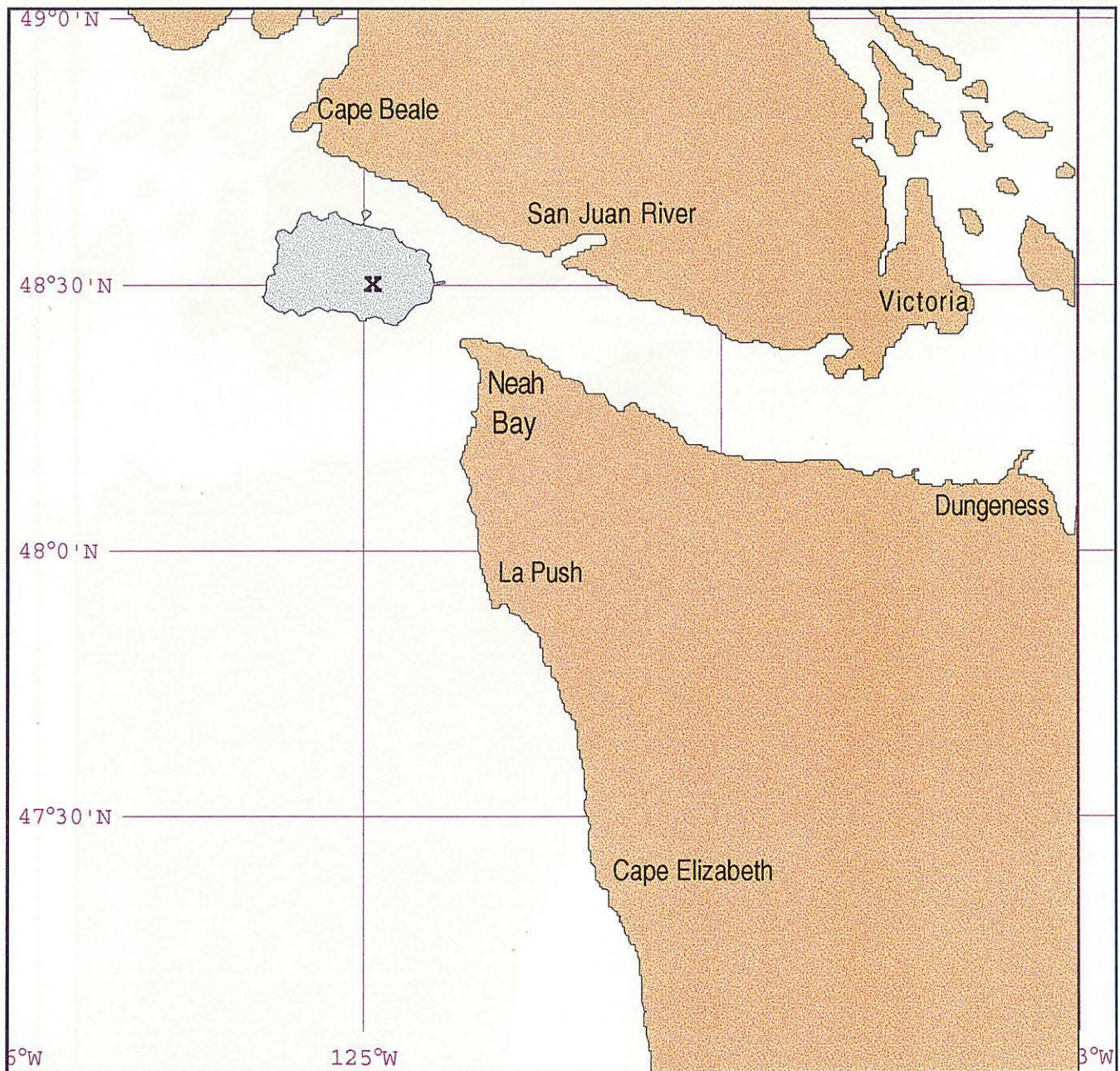


Figure B-61. Map of 6-hour probability contours, winter, 6 percent drift for site 6.

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Winter

Ship drift: 6% of the wind speed representing both wind and wave action

Time: 8-hours

At each site, the contour represents the 95% probability distribution.

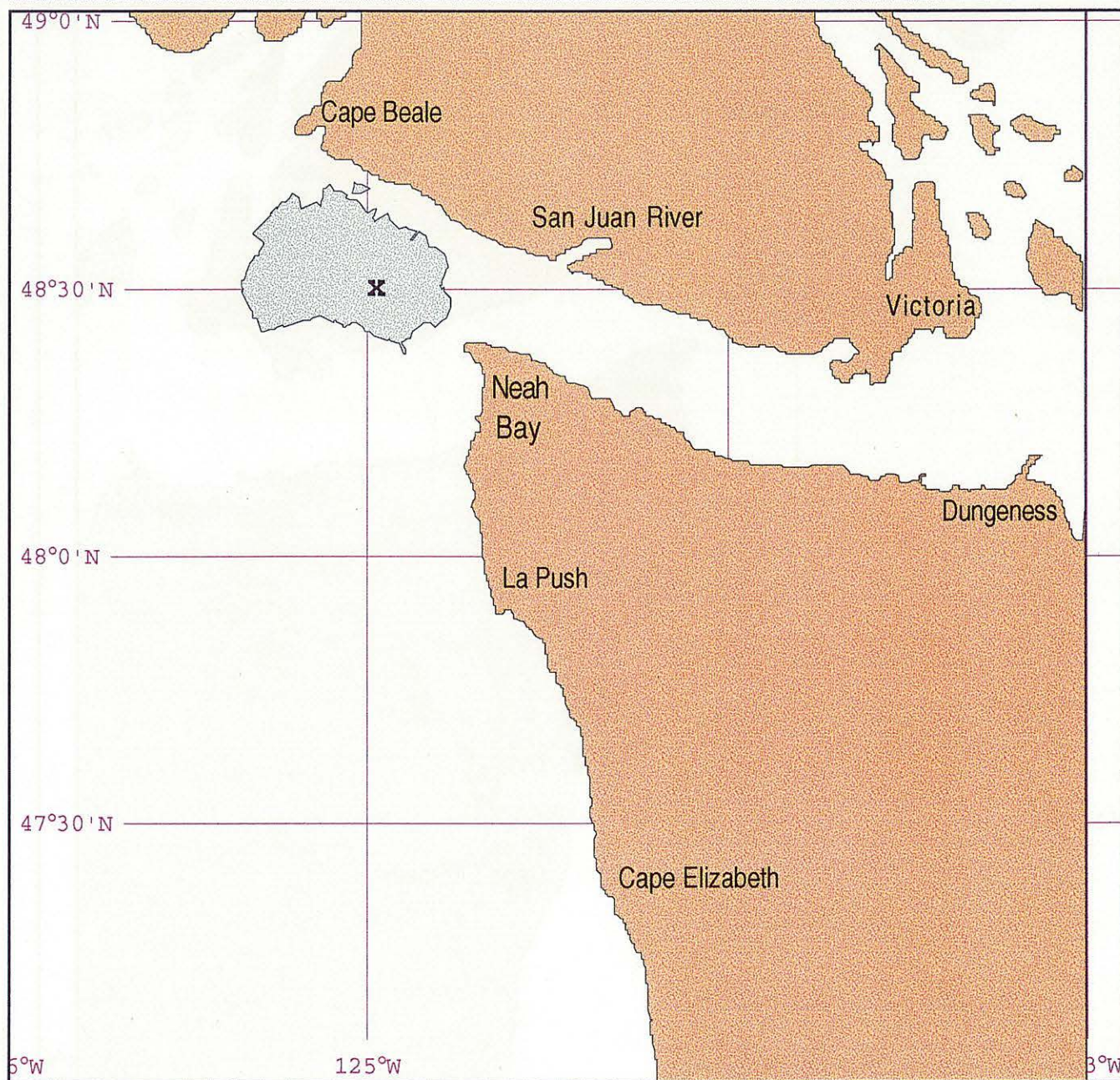


Figure B-62. Map of 8-hour probability contours, winter, 6 percent drift for site 6.

**Ship drift analysis**

Estimate for:

Prepared: ,

MASS Statistical Analysis

NOAA/HAZMAT/MASS (206) 526-6317



Season: Winter

Ship drift: 6% of the wind speed representing both wind and wave action

Time: 12-hours

At each site, the contour represents the 95% probability distribution.

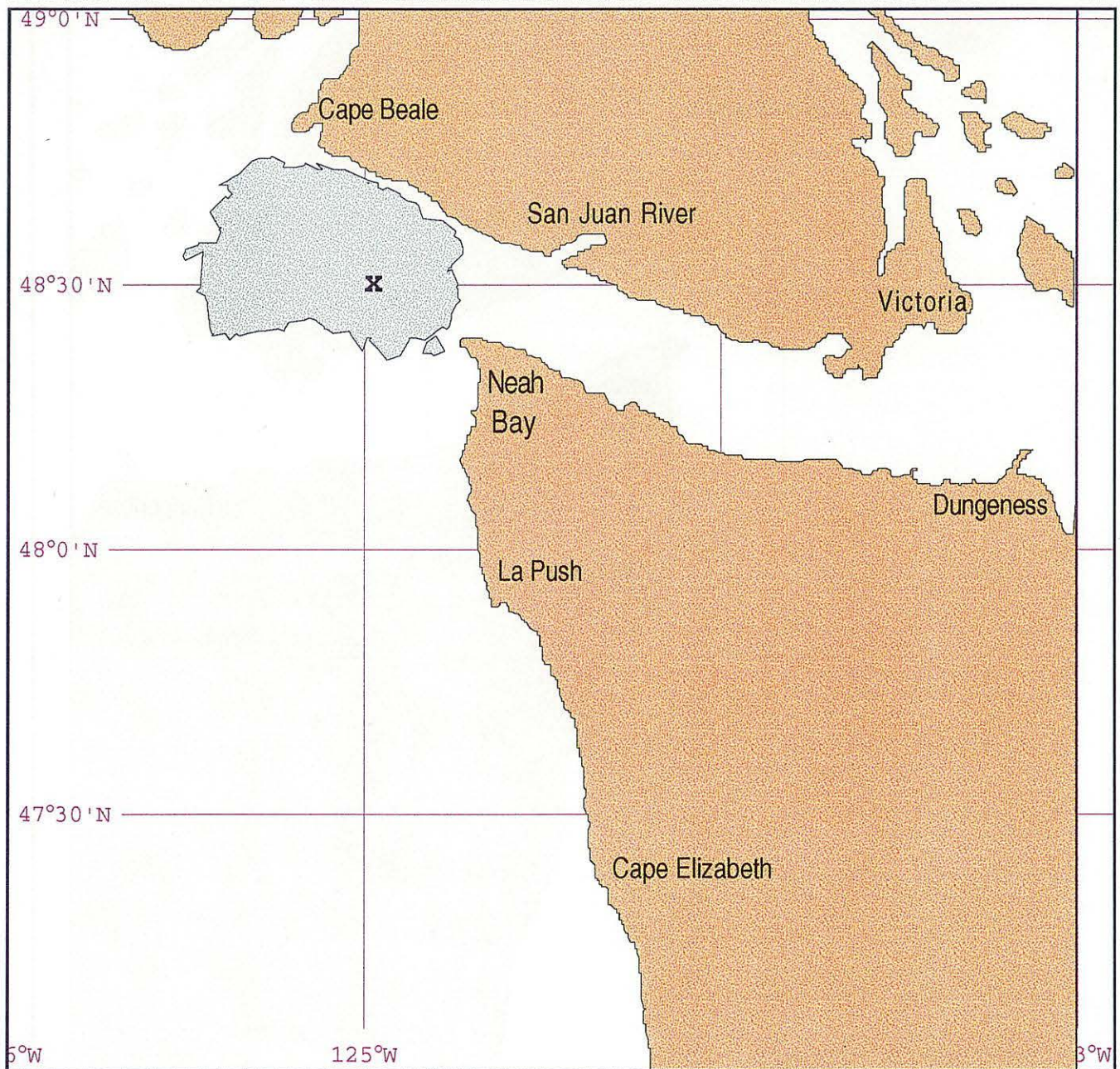


Figure B-63. Map of 12-hour probability contours, winter, 6 percent drift for site 6.



Ship drift analysis

MASS Statistical Analysis

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Winter

Ship drift: 8% of the wind speed representing both wind and wave action

Time: 2-hours

At each site, the contour represents the 95% probability distribution.

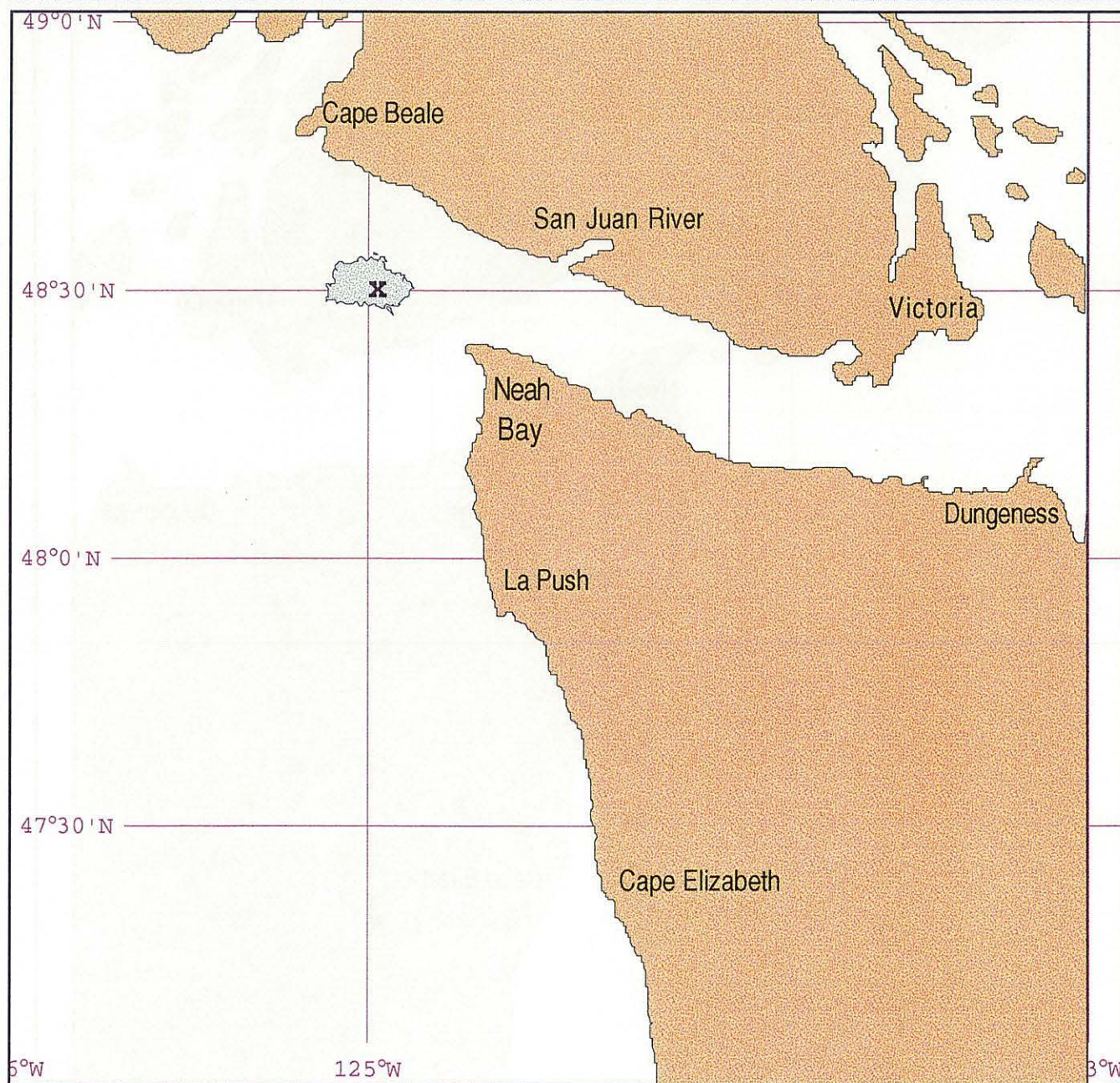


Figure B-64. Map of 2-hour probability contours, winter, 8 percent drift for site 6.

**Ship drift analysis**

Estimate for:

Prepared: ,

MASS Statistical Analysis

NOAA/HAZMAT/MASS (206) 526-6317



Season: Winter

Ship drift: 8% of the wind speed representing both wind and wave action

Time: 4-hours

At each site, the contour represents the 95% probability distribution.

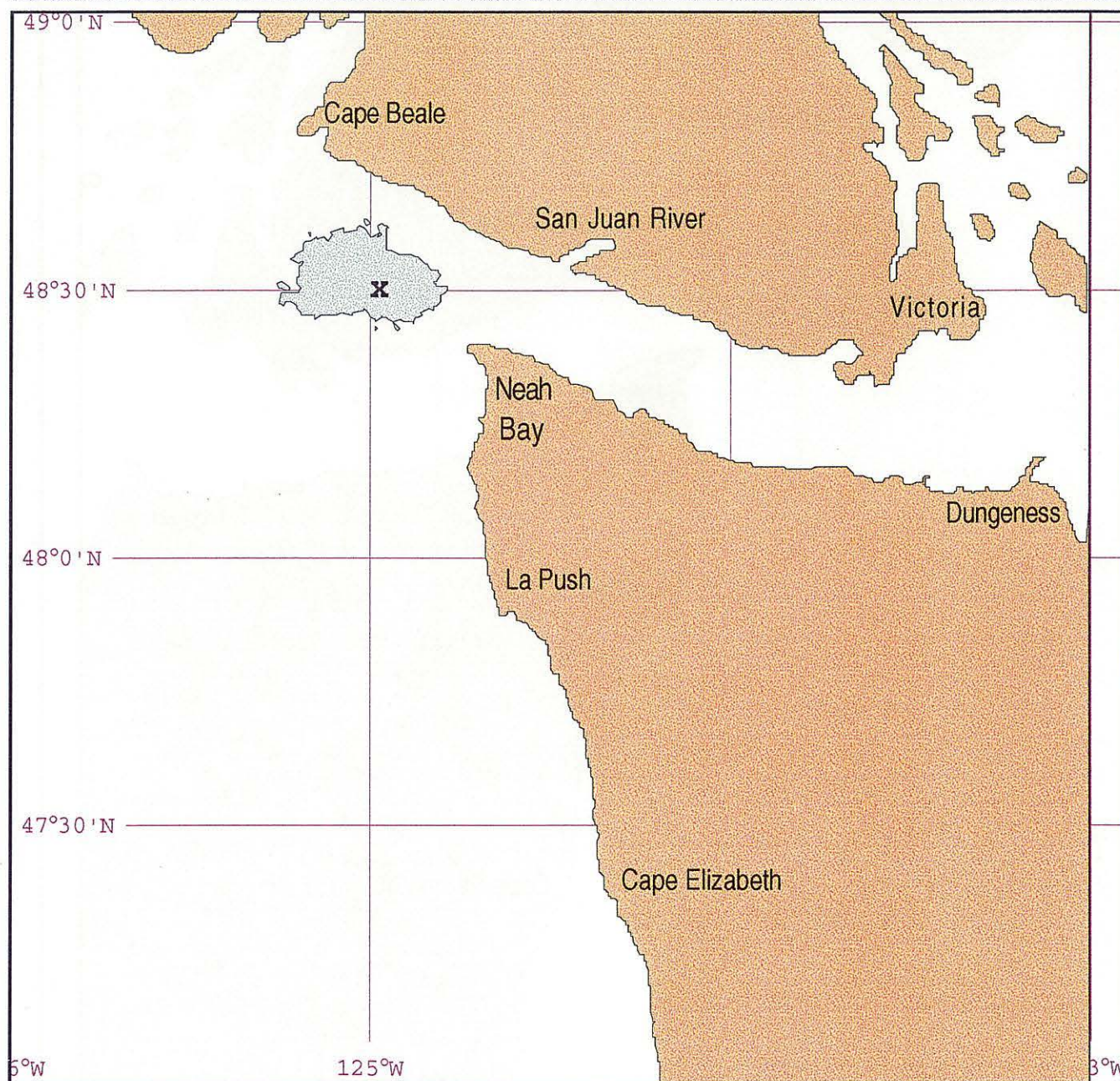


Figure B-65. Map of 4-hour probability contours, winter, 8 percent drift for site 6.



Ship drift analysis

MASS Statistical Analysis



Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317

Season: Winter

Ship drift: 8% of the wind speed representing both wind and wave action

Time: 6-hours

At each site, the contour represents the 95% probability distribution.

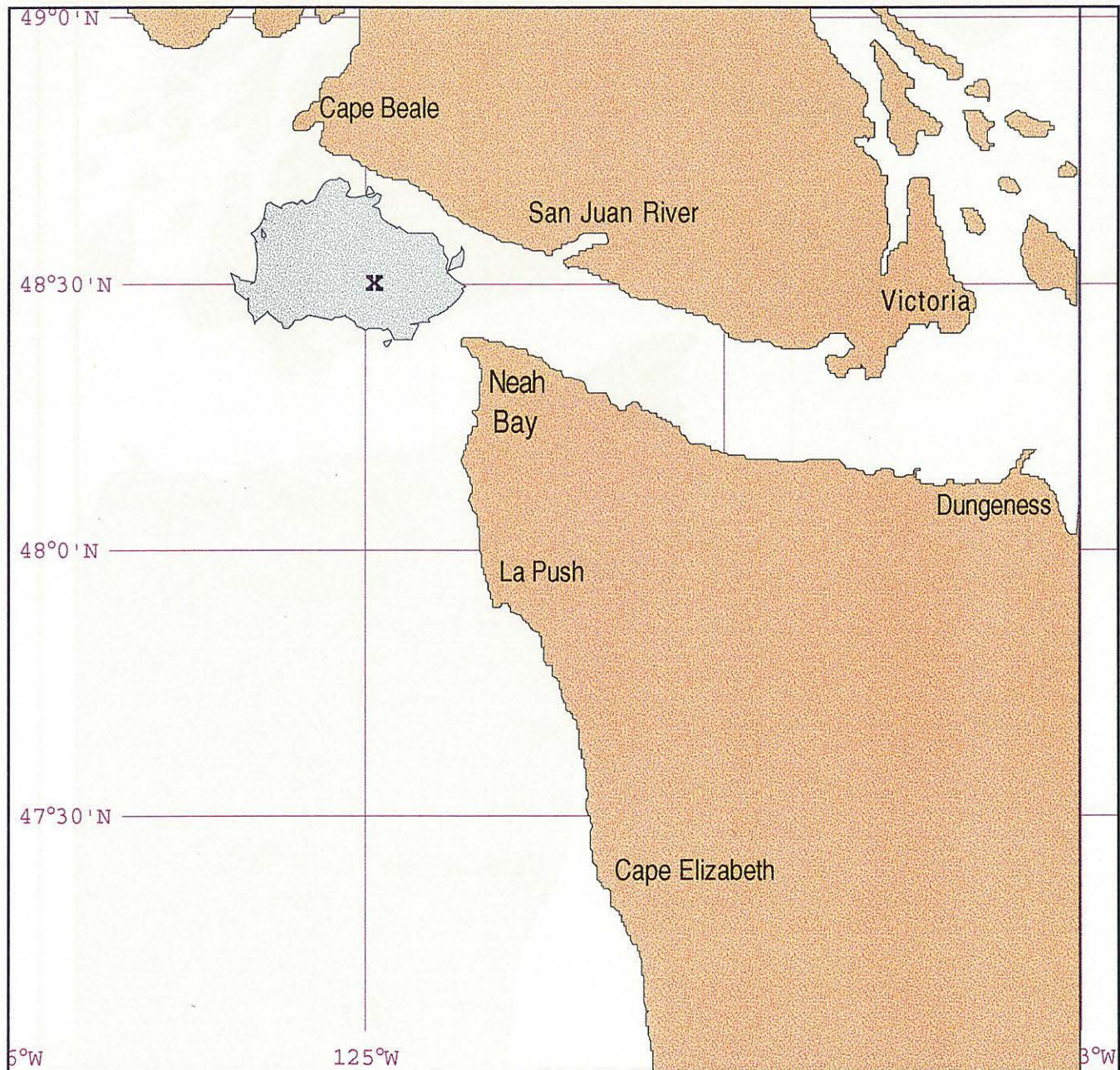


Figure B-66. Map of 6-hour probability contours, winter, 8 percent drift for site 6.

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Winter

Ship drift: 8% of the wind speed representing both wind and wave action

Time: 8-hours

At each site, the contour represents the 95% probability distribution.

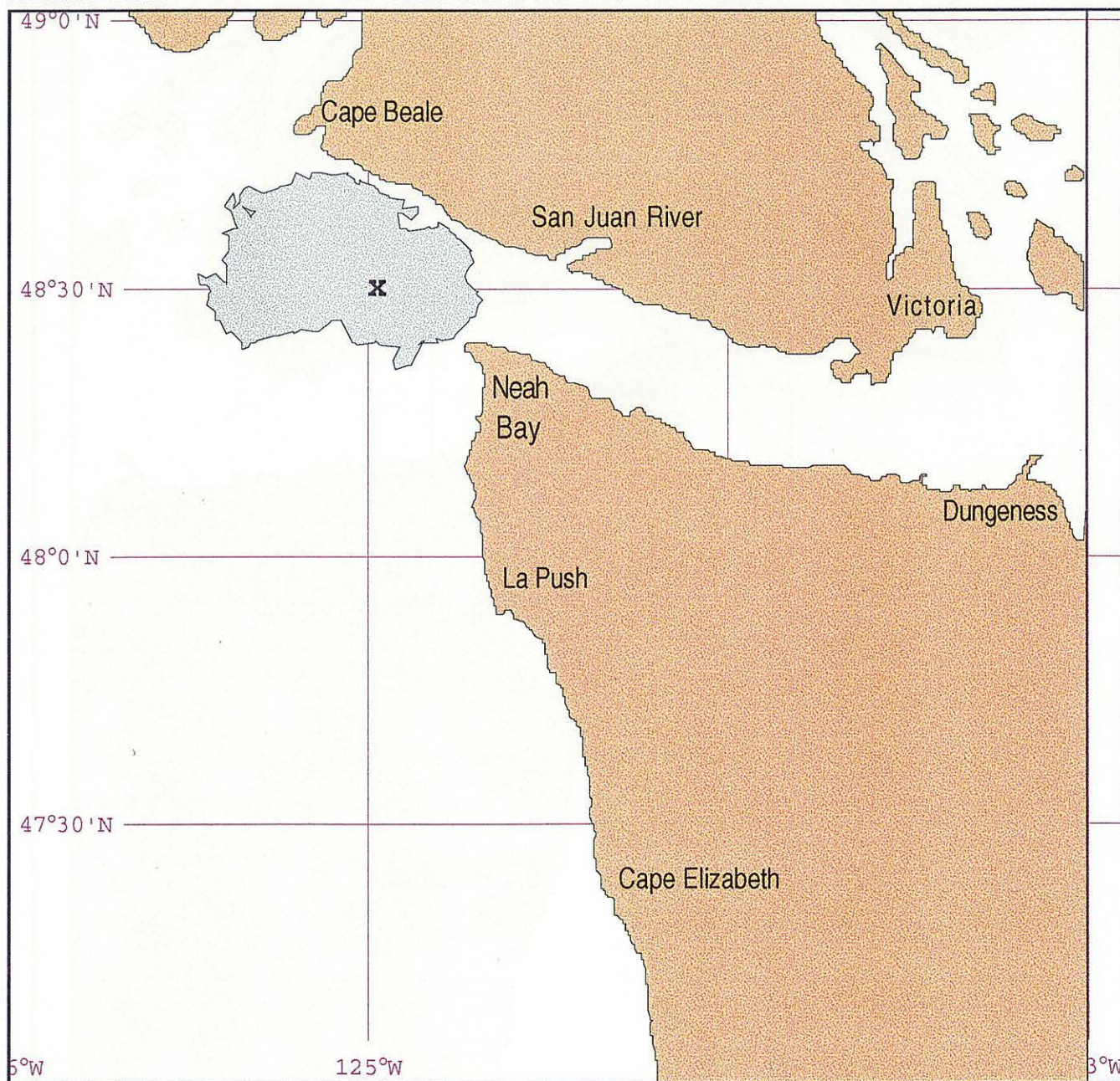


Figure B-67. Map of 8-hour probability contours, winter, 8 percent drift for site 6.

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Winter

Ship drift: 8% of the wind speed representing both wind and wave action

Time: 12-hours

At each site, the contour represents the 95% probability distribution.

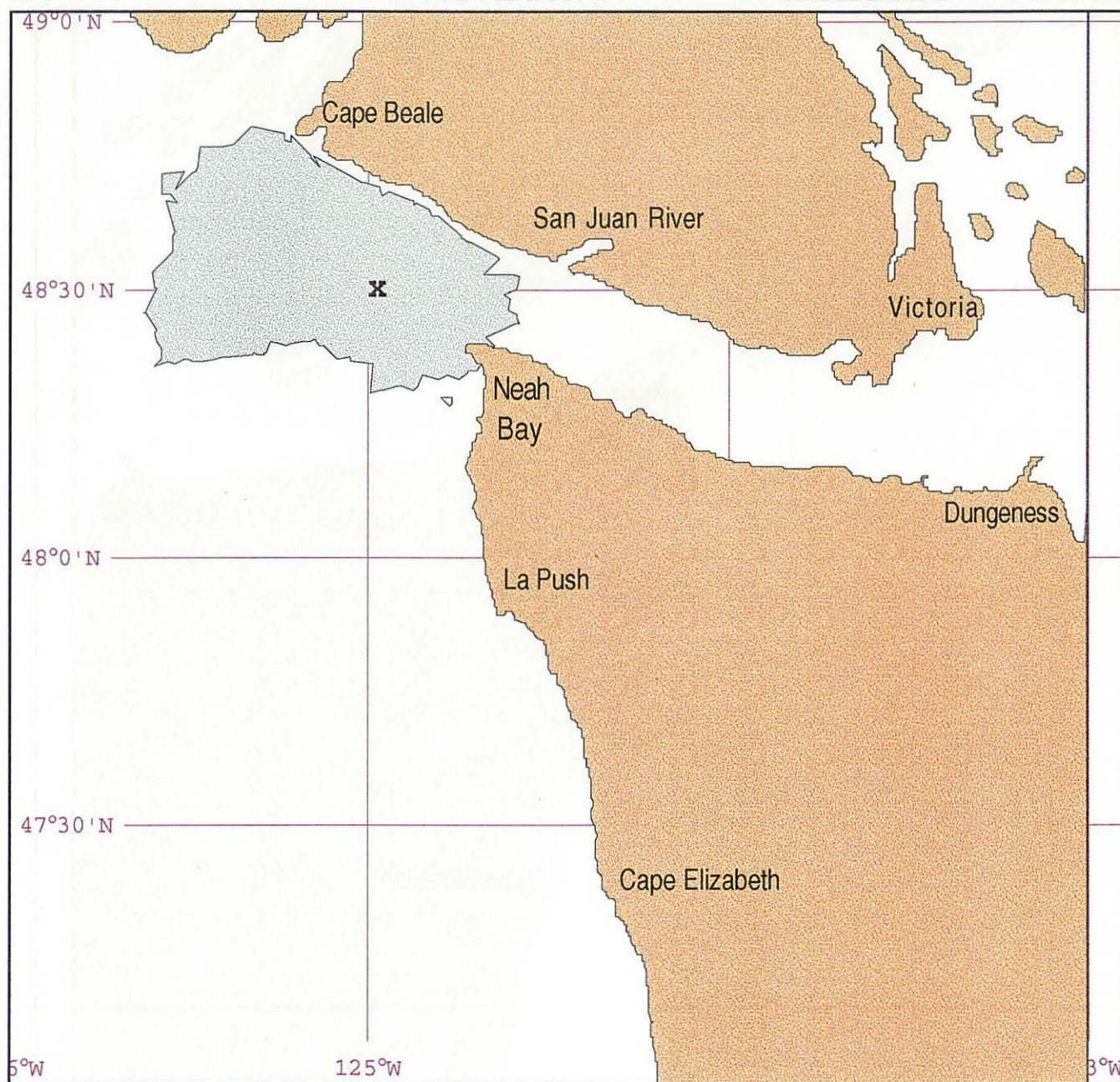


Figure B-68. Map of 12-hour probability contours, winter, 8 percent drift for site 6.

**Ship drift analysis**

Estimate for:

Prepared: ,

MASS Statistical Analysis

NOAA/HAZMAT/MASS (206) 526-6317



Season: Winter

Ship drift: 10% of the wind speed representing both wind and wave action

Time: 2-hours

At each site, the contour represents the 95% probability distribution.

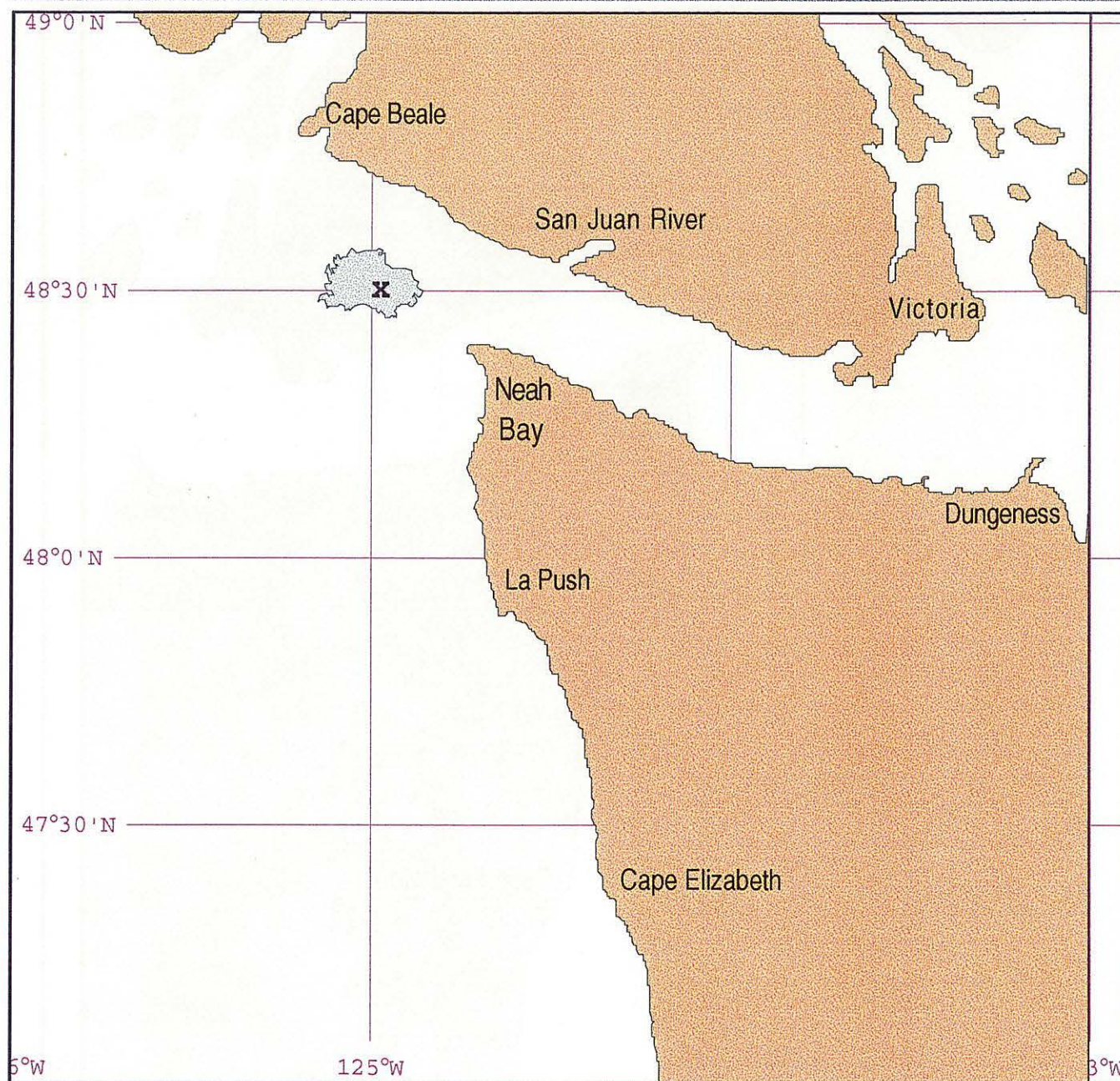


Figure B-69. Map of 2-hour probability contours, winter, 10 percent drift for site 6.

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Winter

Ship drift: 10% of the wind speed representing both wind and wave action

Time: 4-hours

At each site, the contour represents the 95% probability distribution.

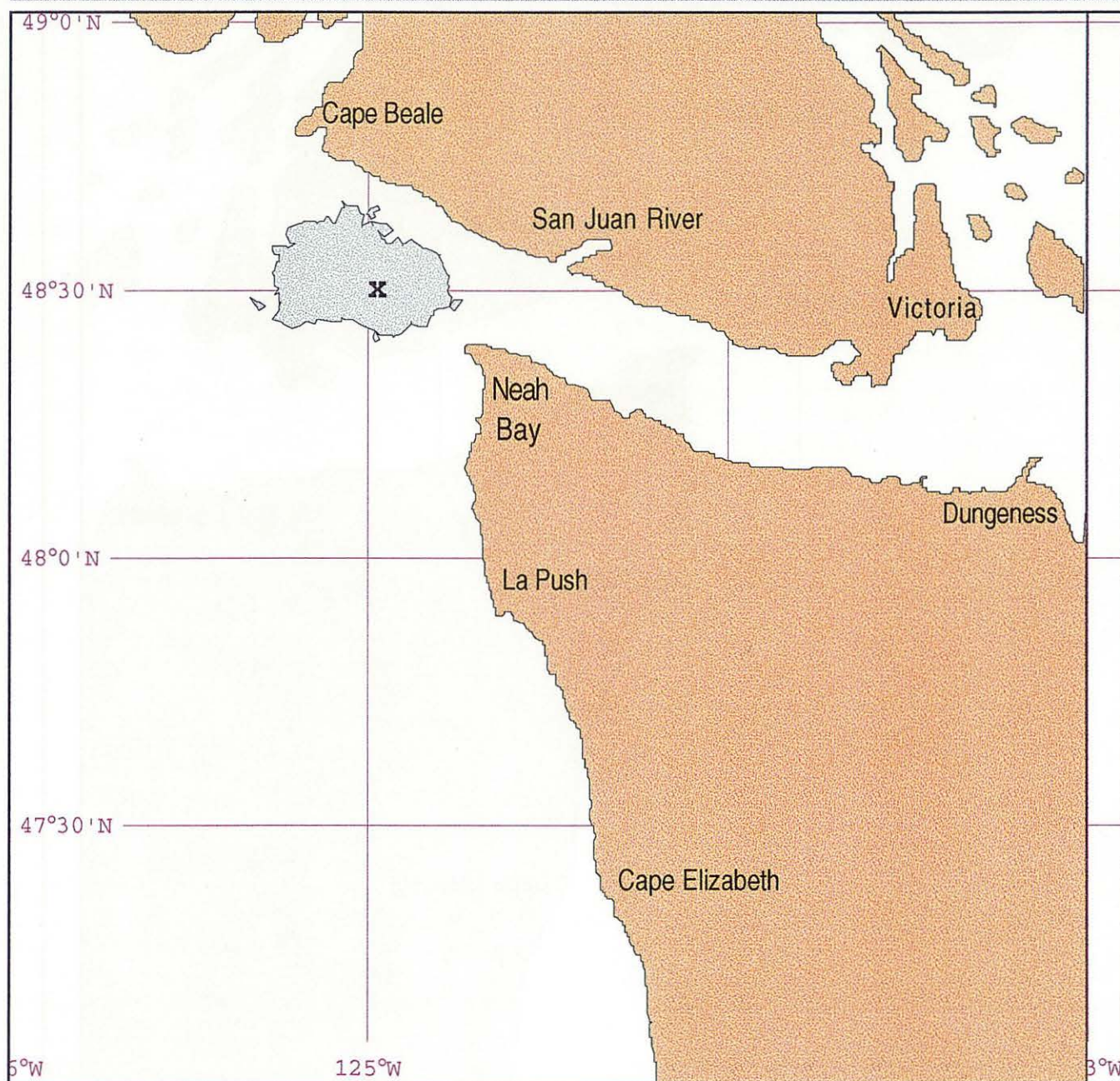


Figure B-70. Map of 4-hour probability contours, winter, 10 percent drift for site 6.

**Ship drift analysis**

Estimate for:

Prepared: ,

MASS Statistical Analysis

NOAA/HAZMAT/MASS (206) 526-6317



Season: Winter

Ship drift: 10% of the wind speed representing both wind and wave action

Time: 6-hours

At each site, the contour represents the 95% probability distribution.

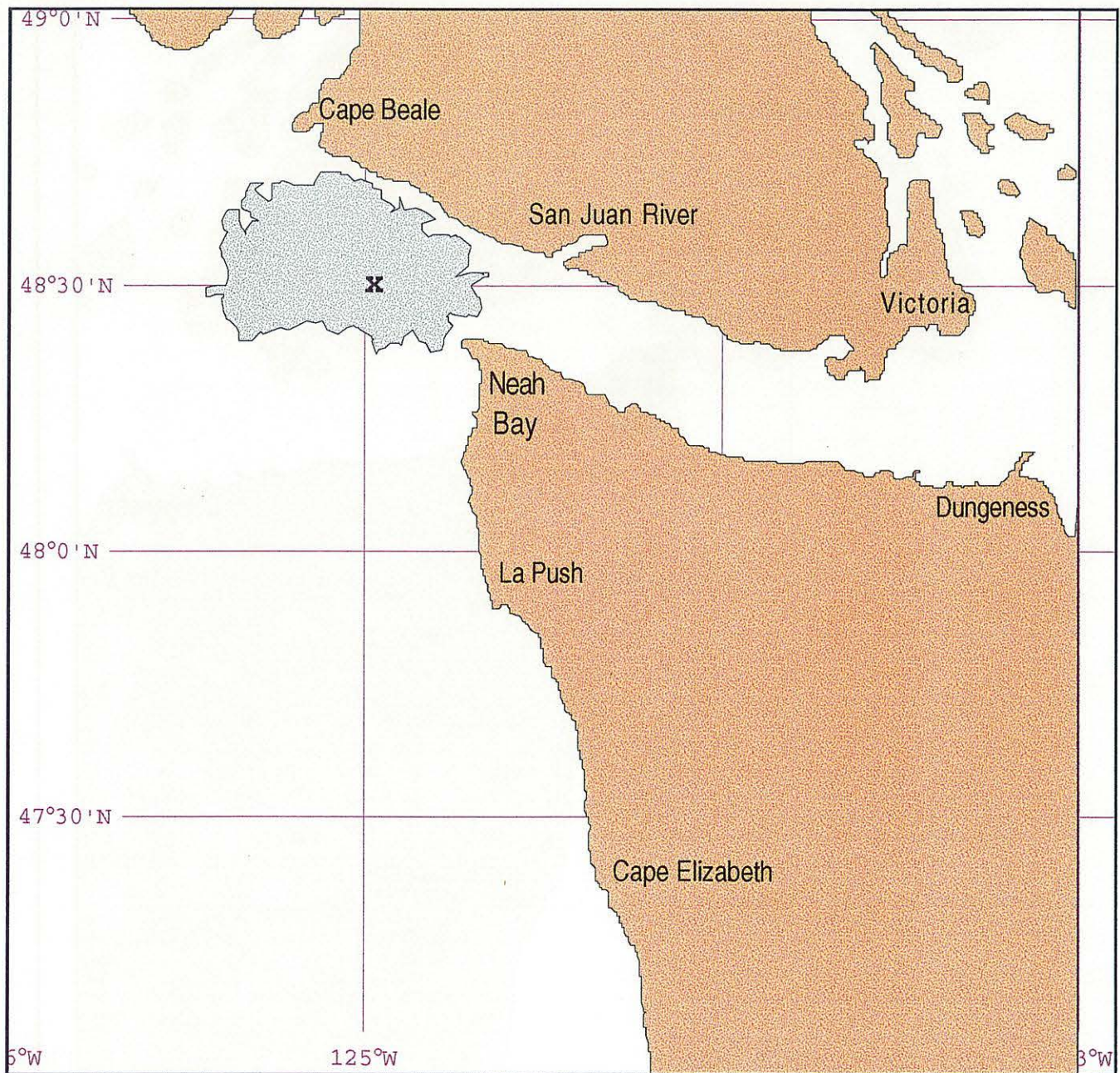


Figure B-71. Map of 6-hour probability contours, winter, 10 percent drift for site 6.

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Winter

Ship drift: 10% of the wind speed representing both wind and wave action

Time: 8-hours

At each site, the contour represents the 95% probability distribution.

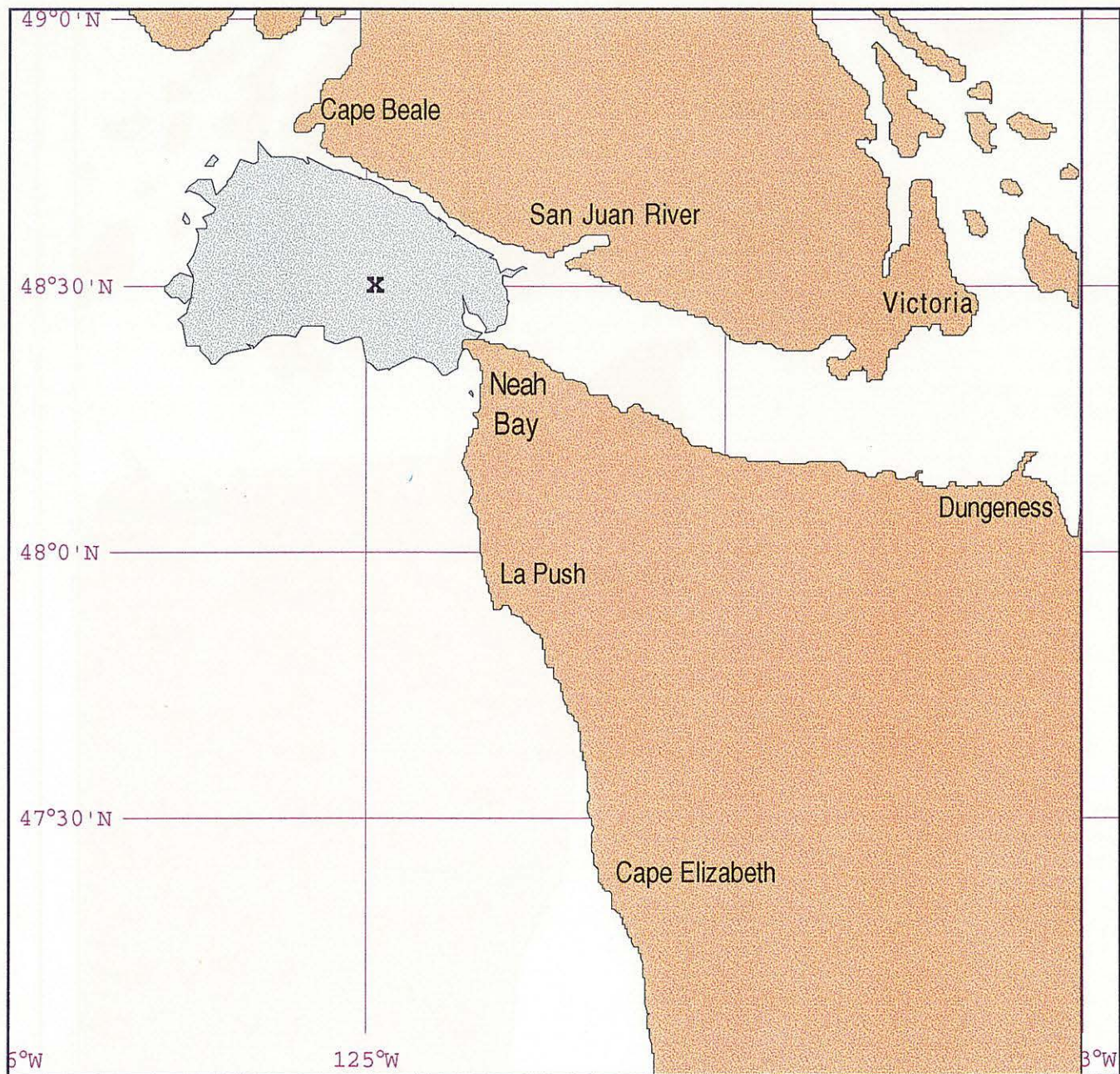


Figure B-72. Map of 8-hour probability contours, winter, 10 percent drift for site 6.

**Ship drift analysis**

Estimate for:

Prepared: ,

MASS Statistical Analysis

NOAA/HAZMAT/MASS (206) 526-6317



Season: Winter

Ship drift: 10% of the wind speed representing both wind and wave action

Time: 12-hours

At each site, the contour represents the 95% probability distribution.

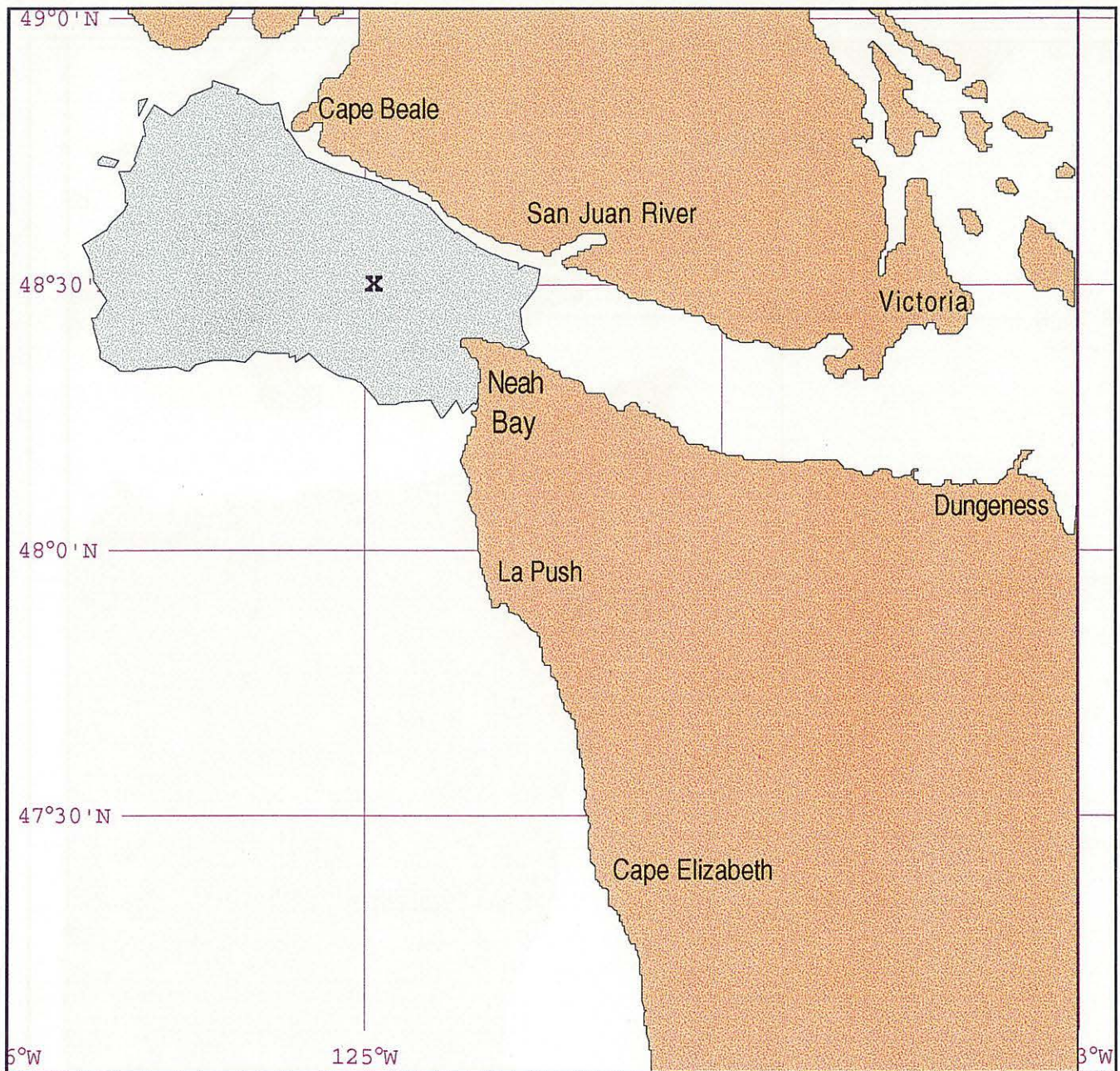


Figure B-73. Map of 12-hour probability contours, winter, 10 percent drift for site 6.



Ship drift analysis

MASS Statistical Analysis

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Spring

Ship drift: 2% of the wind speed representing both wind and wave action

Time: 2-hours

At each site, the contour represents the 95% probability distribution.

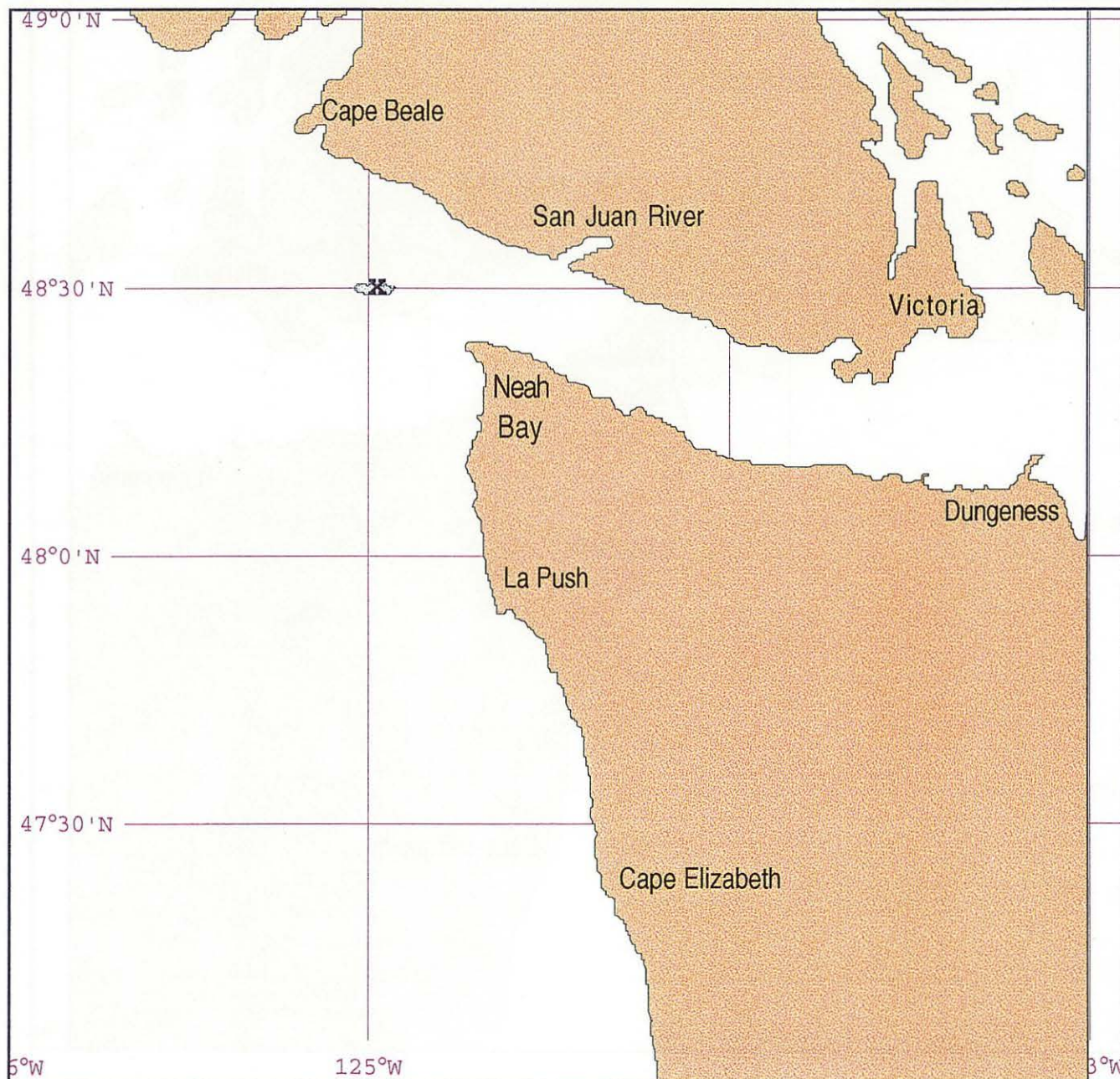


Figure B-74. Map of 2-hour probability contours, spring, 2 percent drift for site 6.

**Ship drift analysis**

Estimate for:

Prepared: ,

MASS Statistical Analysis

NOAA/HAZMAT/MASS (206) 526-6317



Season: Spring

Ship drift: 2% of the wind speed representing both wind and wave action

Time: 4-hours

At each site, the contour represents the 95% probability distribution.

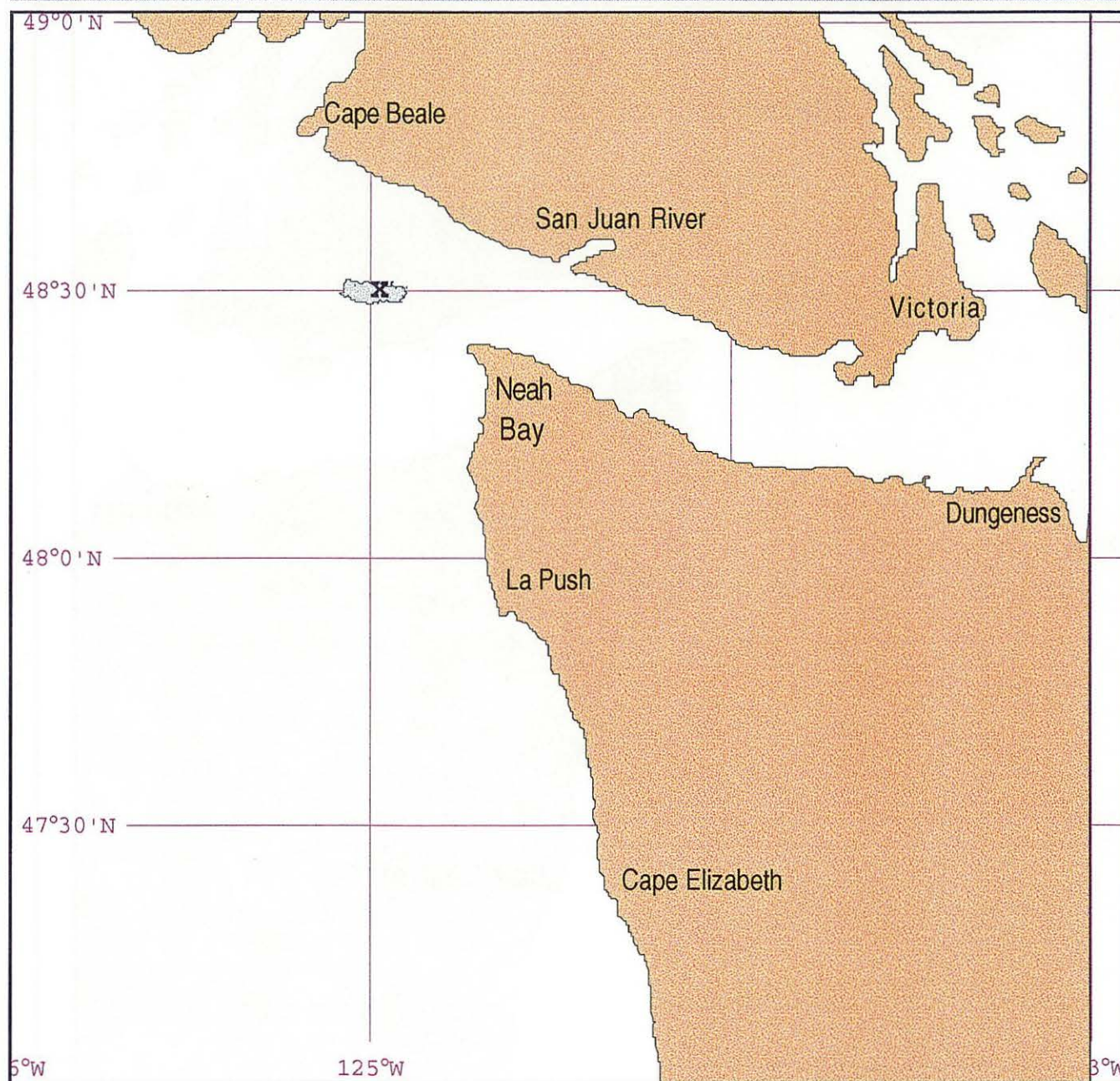


Figure B-75. Map of 4-hour probability contours, spring, 2 percent drift for site 6.



Ship drift analysis

MASS Statistical Analysis

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Spring

Ship drift: 2% of the wind speed representing both wind and wave action

Time: 6-hours

At each site, the contour represents the 95% probability distribution.

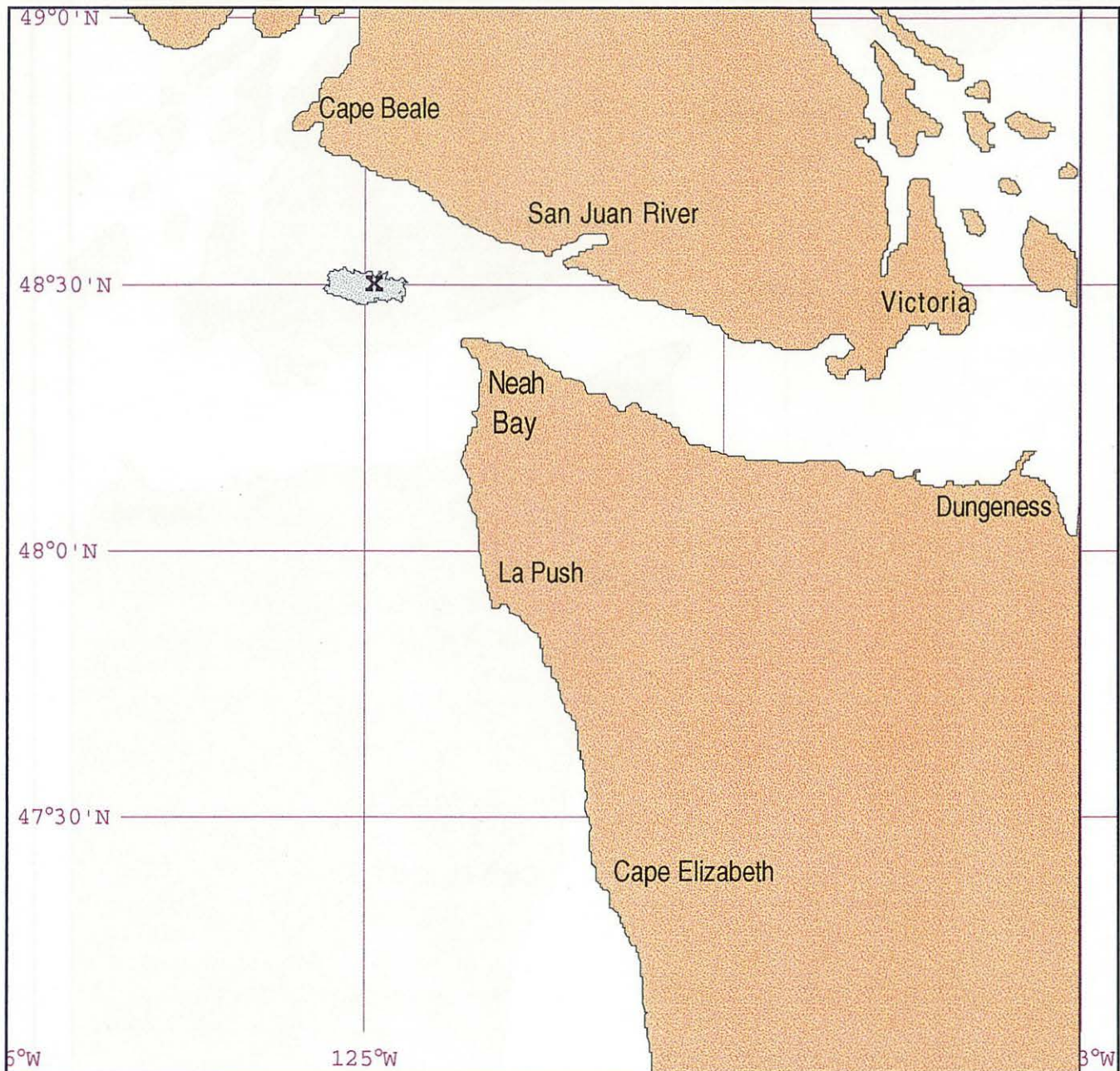


Figure B-76. Map of 6-hour probability contours, spring, 2 percent drift for site 6.

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Spring

Ship drift: 2% of the wind speed representing both wind and wave action

Time: 8-hours

At each site, the contour represents the 95% probability distribution.

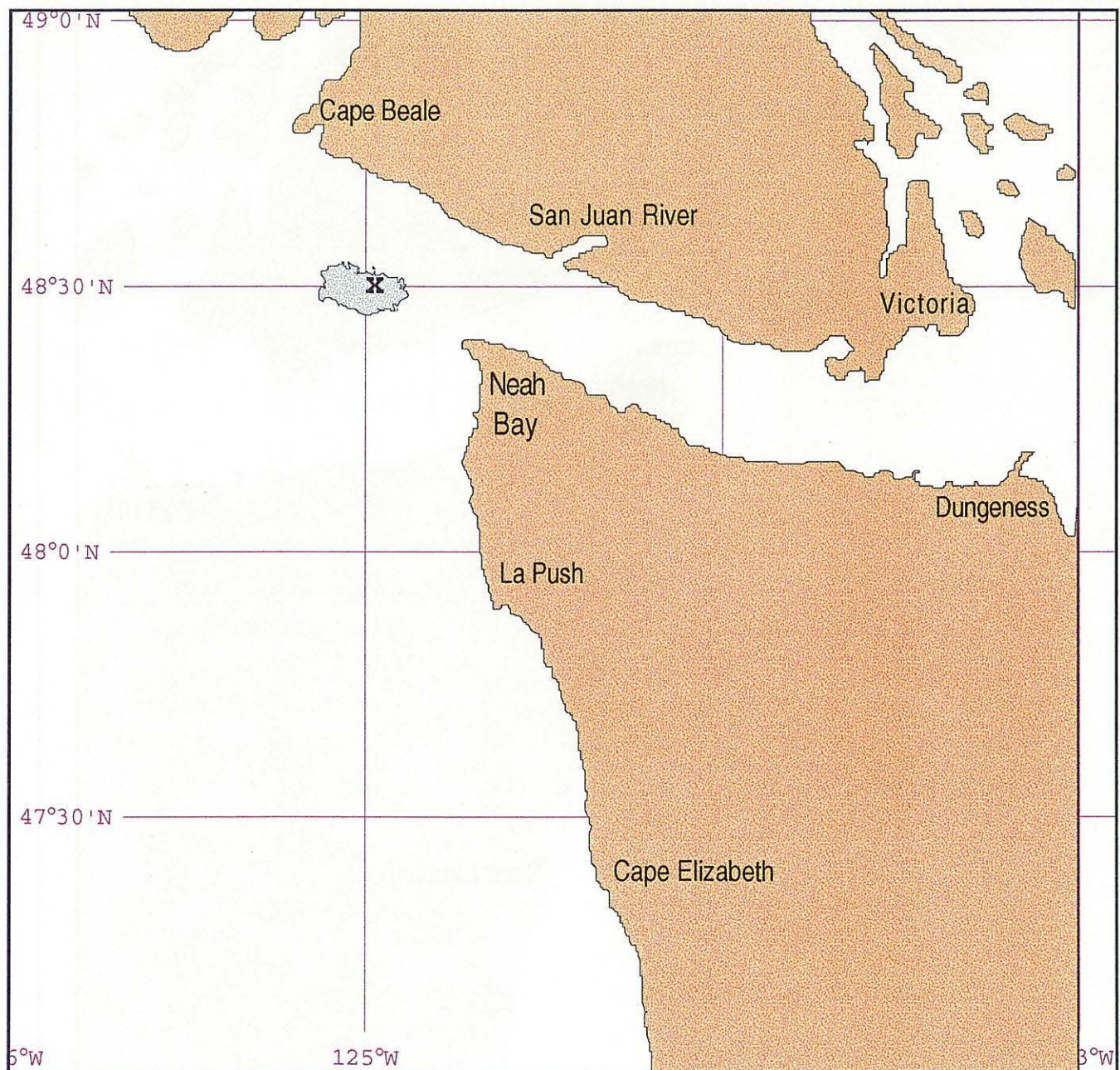


Figure B-77. Map of 8-hour probability contours, spring, 2 percent drift for site 6.

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Spring

Ship drift: 2% of the wind speed representing both wind and wave action

Time: 12-hours

At each site, the contour represents the 95% probability distribution.

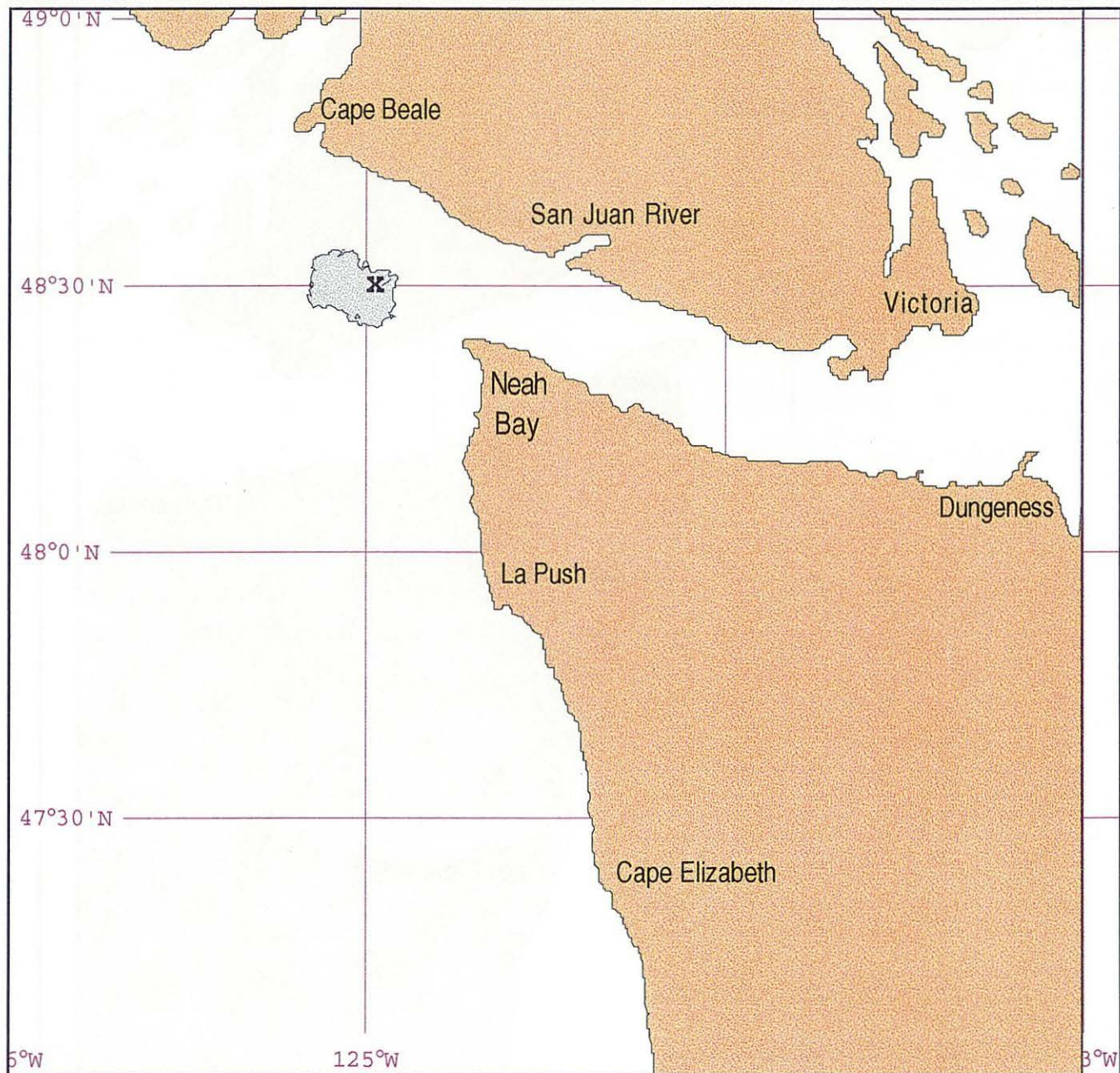


Figure B-78. Map of 12-hour probability contours, spring, 2 percent drift for site 6.

**Ship drift analysis**

Estimate for:

Prepared: ,

MASS Statistical Analysis

NOAA/HAZMAT/MASS (206) 526-6317



Season: Spring

Ship drift: 4% of the wind speed representing both wind and wave action

Time: 2-hours

At each site, the contour represents the 95% probability distribution.

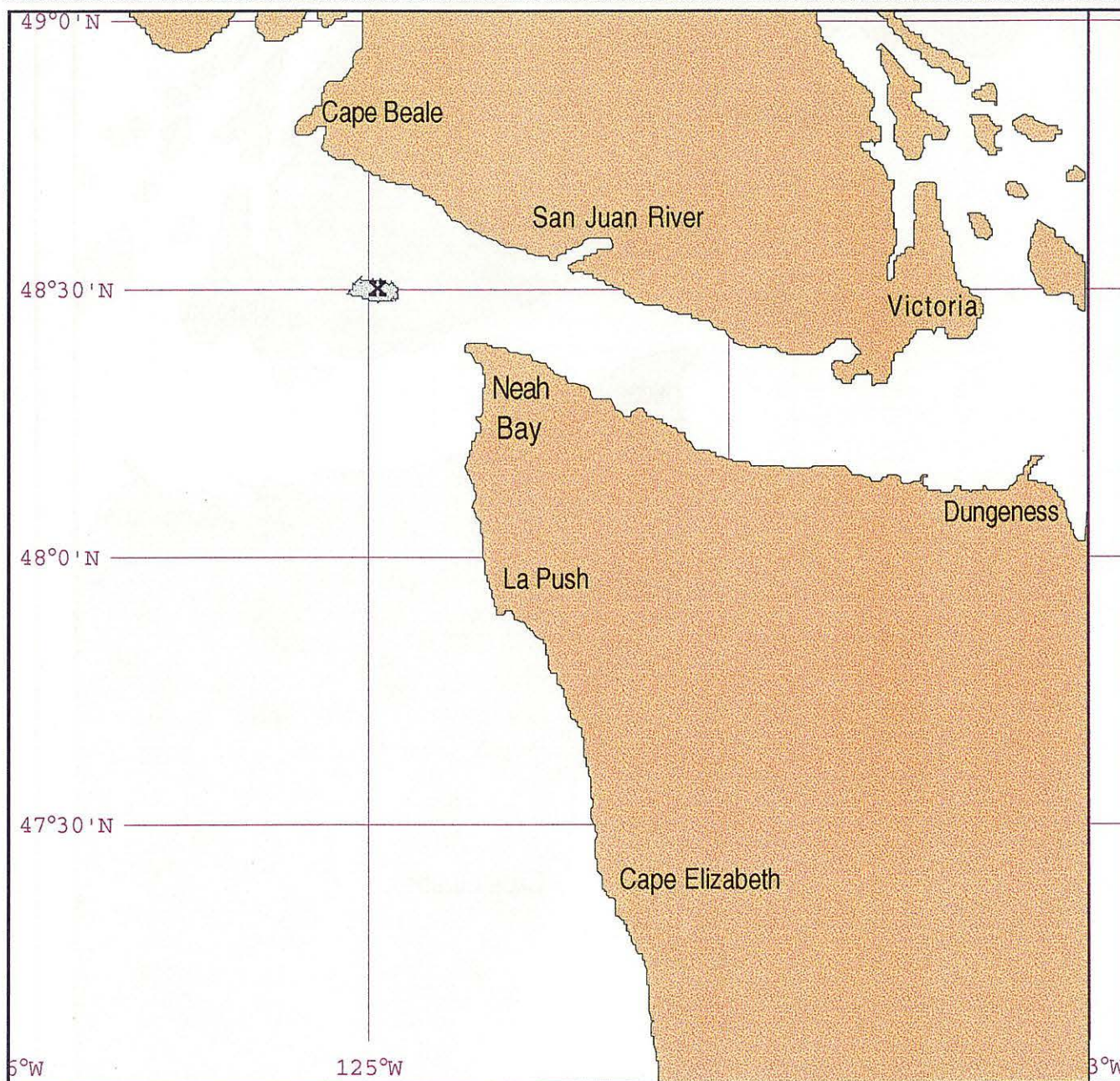


Figure B-79. Map of 2-hour probability contours, spring, 4 percent drift for site 6.

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Spring

Ship drift: 4% of the wind speed representing both wind and wave action

Time: 4-hours

At each site, the contour represents the 95% probability distribution.

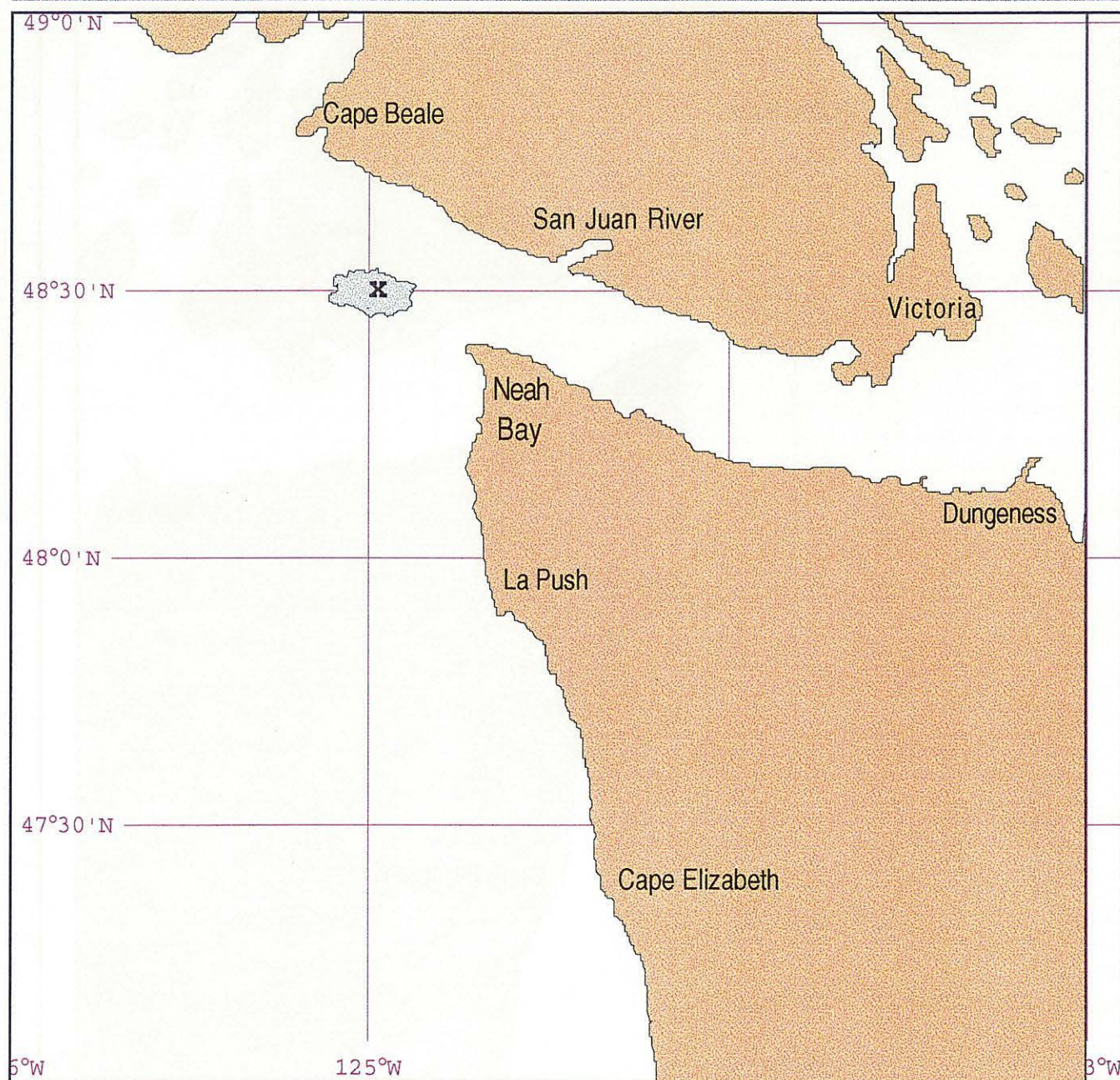


Figure B-80. Map of 4-hour probability contours, spring, 4 percent drift for site 6.

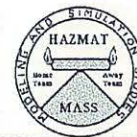
**Ship drift analysis**

Estimate for:

Prepared: ,

MASS Statistical Analysis

NOAA/HAZMAT/MASS (206) 526-6317



Season: Spring

Ship drift: 4% of the wind speed representing both wind and wave action

Time: 6-hours

At each site, the contour represents the 95% probability distribution.

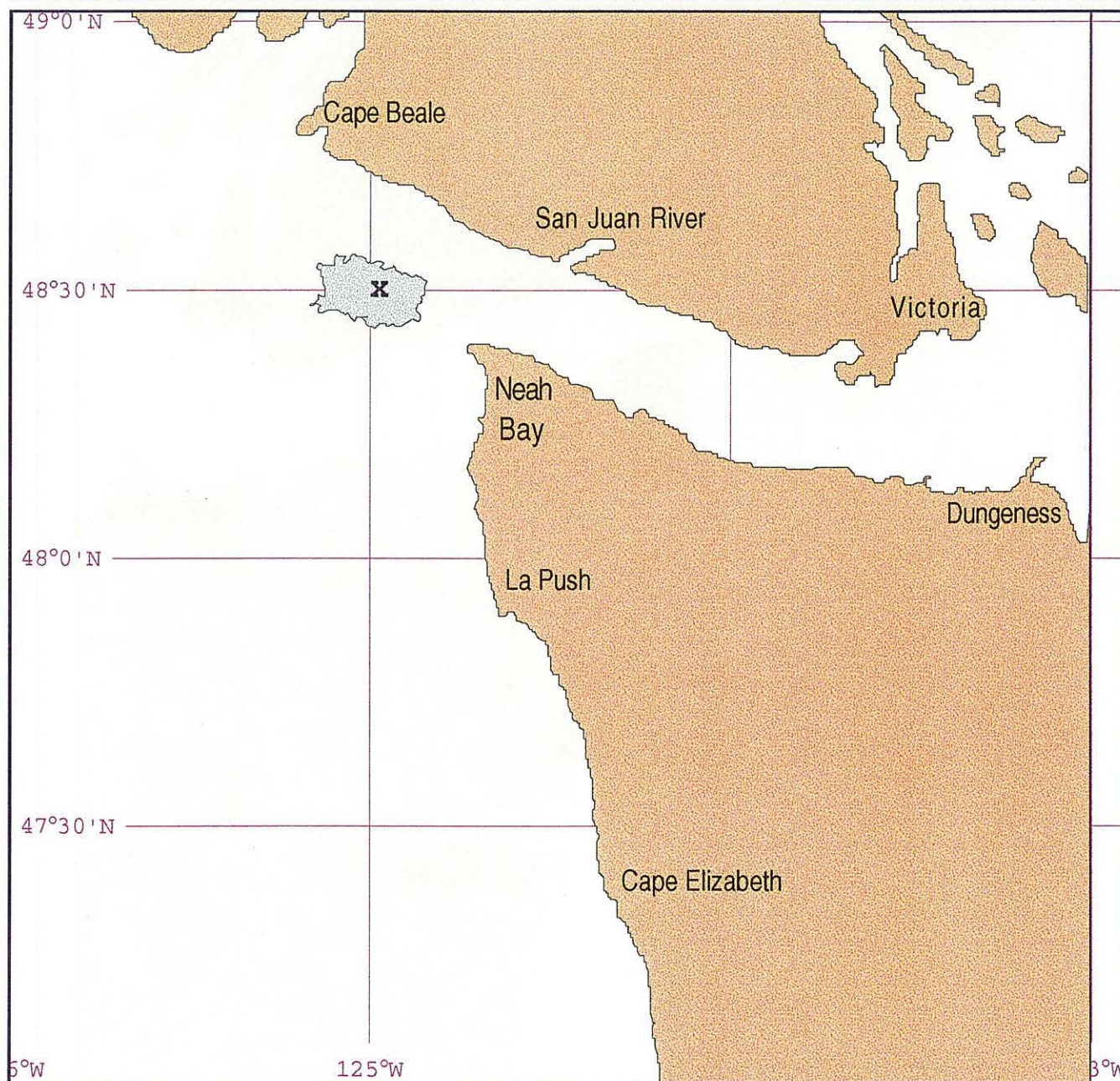


Figure B-81. Map of 6-hour probability contours, spring, 4 percent drift for site 6.

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Spring

Ship drift: 4% of the wind speed representing both wind and wave action

Time: 8-hours

At each site, the contour represents the 95% probability distribution.

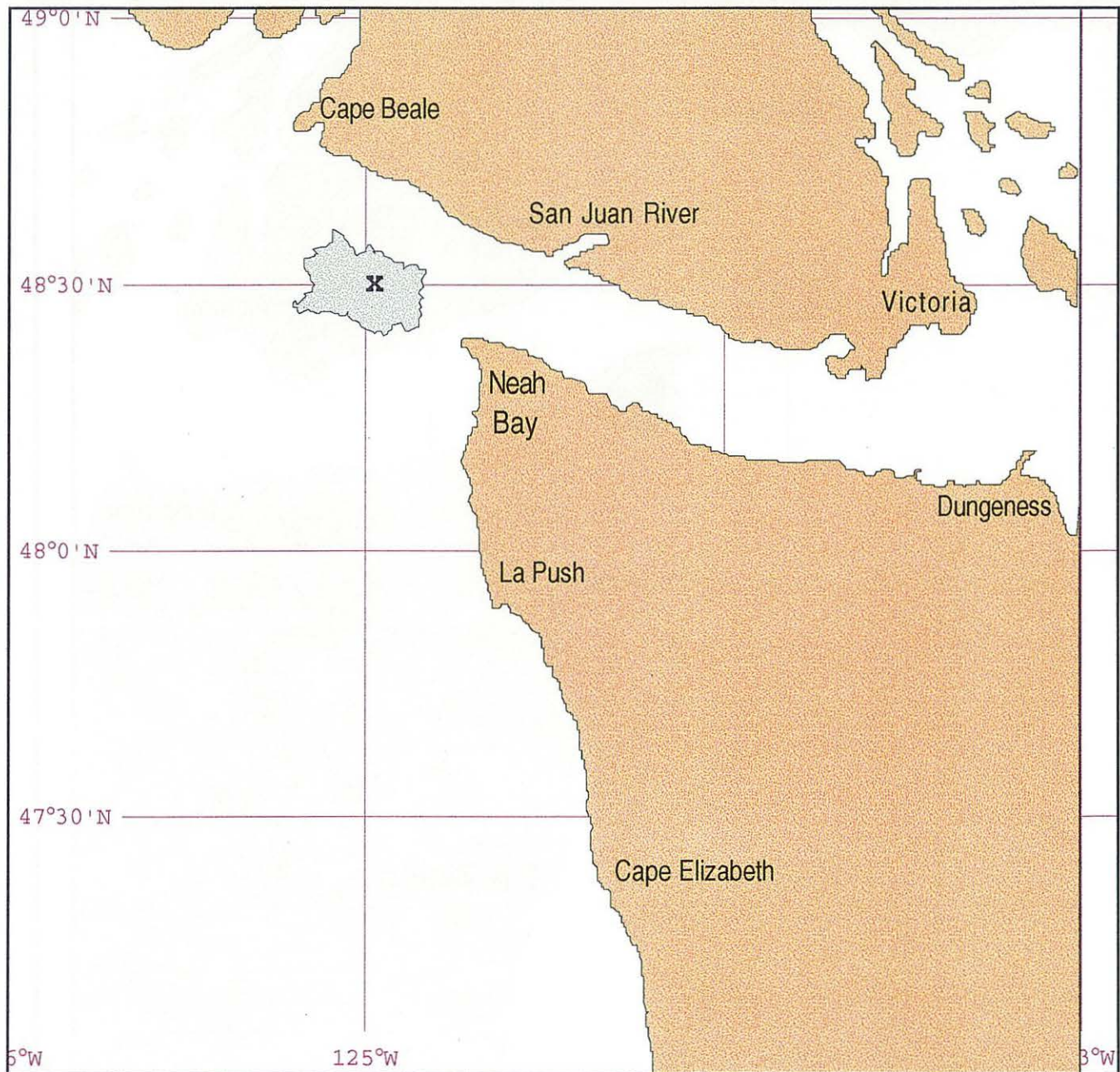


Figure B-82. Map of 8-hour probability contours, spring, 4 percent drift for site 6.

**Ship drift analysis**

Estimate for:

Prepared: ,

MASS Statistical Analysis

NOAA/HAZMAT/MASS (206) 526-6317



Season: Spring

Ship drift: 4% of the wind speed representing both wind and wave action

Time: 12-hours

At each site, the contour represents the 95% probability distribution.

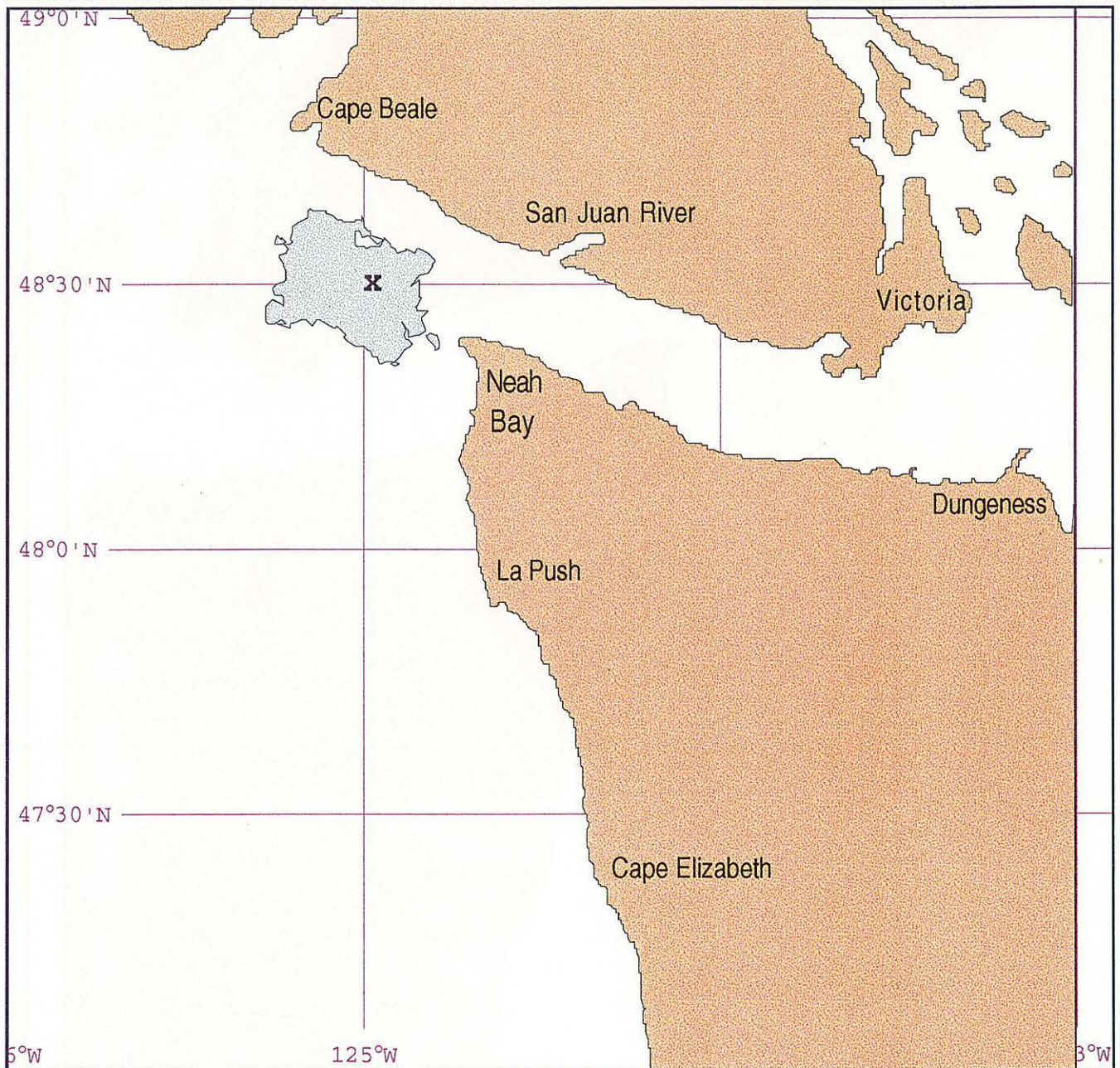


Figure B-83. Map of 12-hour probability contours, spring, 4 percent drift for site 6.



Ship drift analysis

MASS Statistical Analysis

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Spring

Ship drift: 6% of the wind speed representing both wind and wave action

Time: 2-hours

At each site, the contour represents the 95% probability distribution.

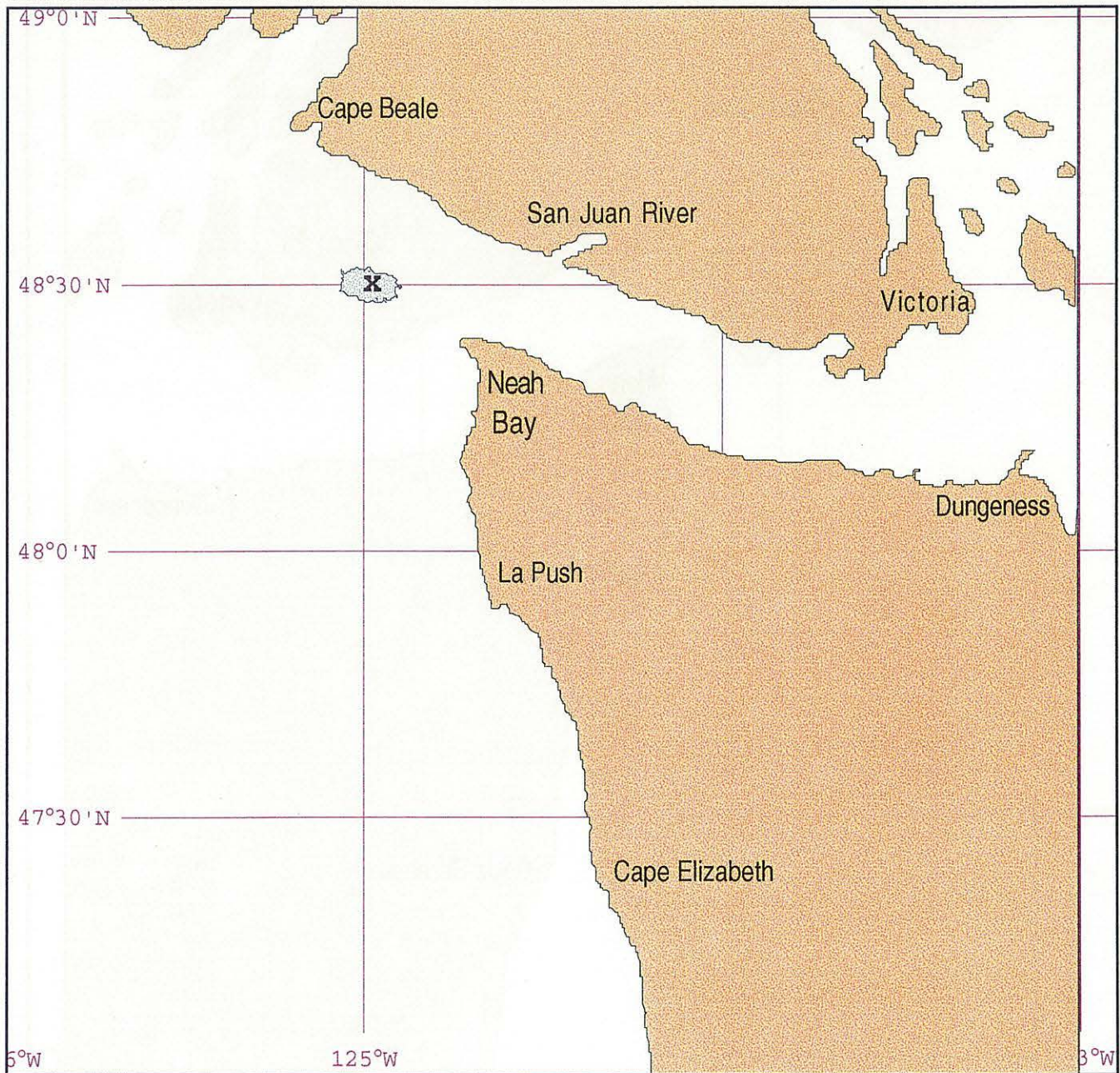


Figure B-84. Map of 2-hour probability contours, spring, 6 percent drift for site 6.

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Spring

Ship drift: 6% of the wind speed representing both wind and wave action

Time: 4-hours

At each site, the contour represents the 95% probability distribution.

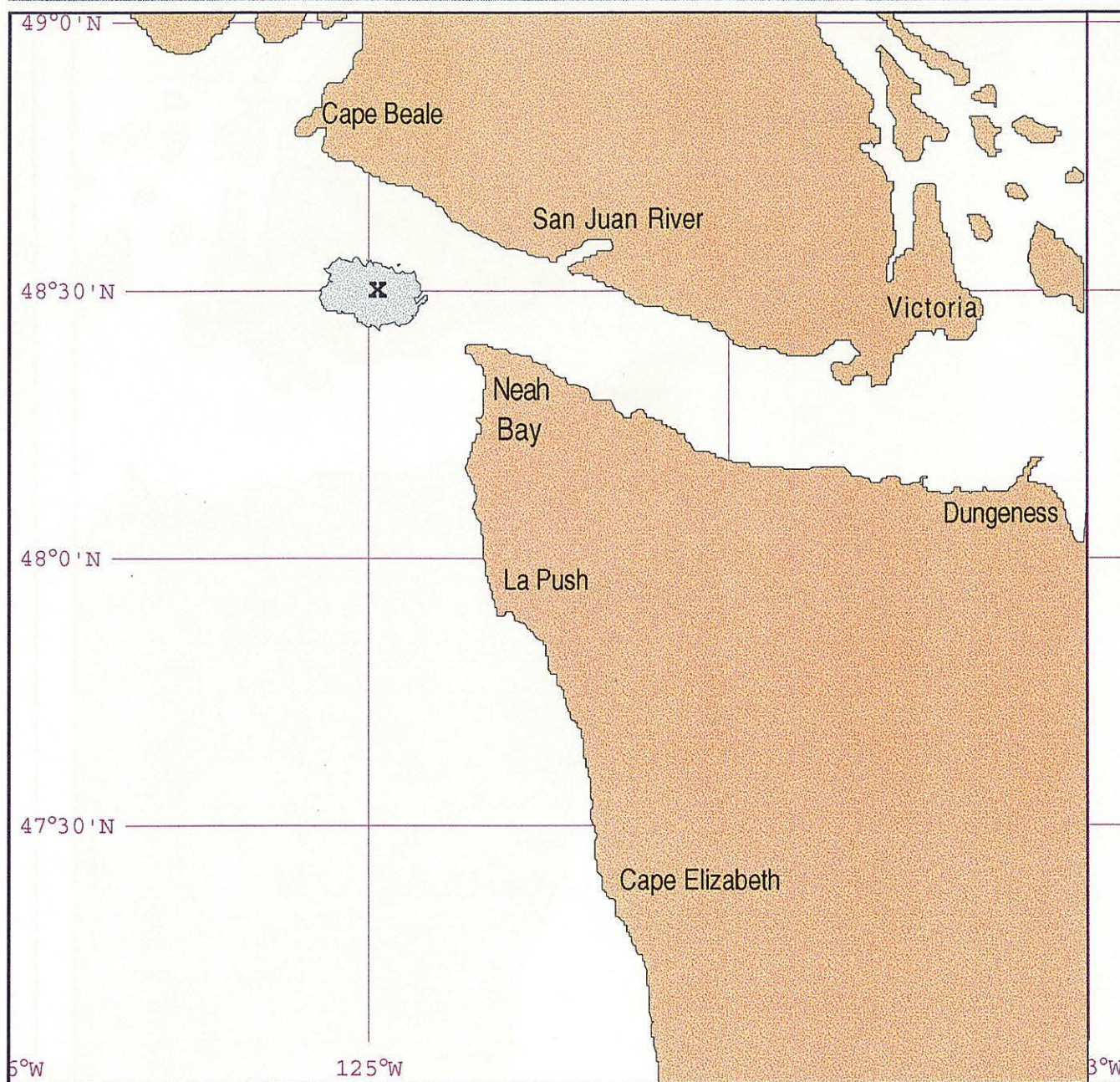


Figure B-85. Map of 4-hour probability contours, spring, 6 percent drift for site 6.

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Spring

Ship drift: 6% of the wind speed representing both wind and wave action

Time: 6-hours

At each site, the contour represents the 95% probability distribution.

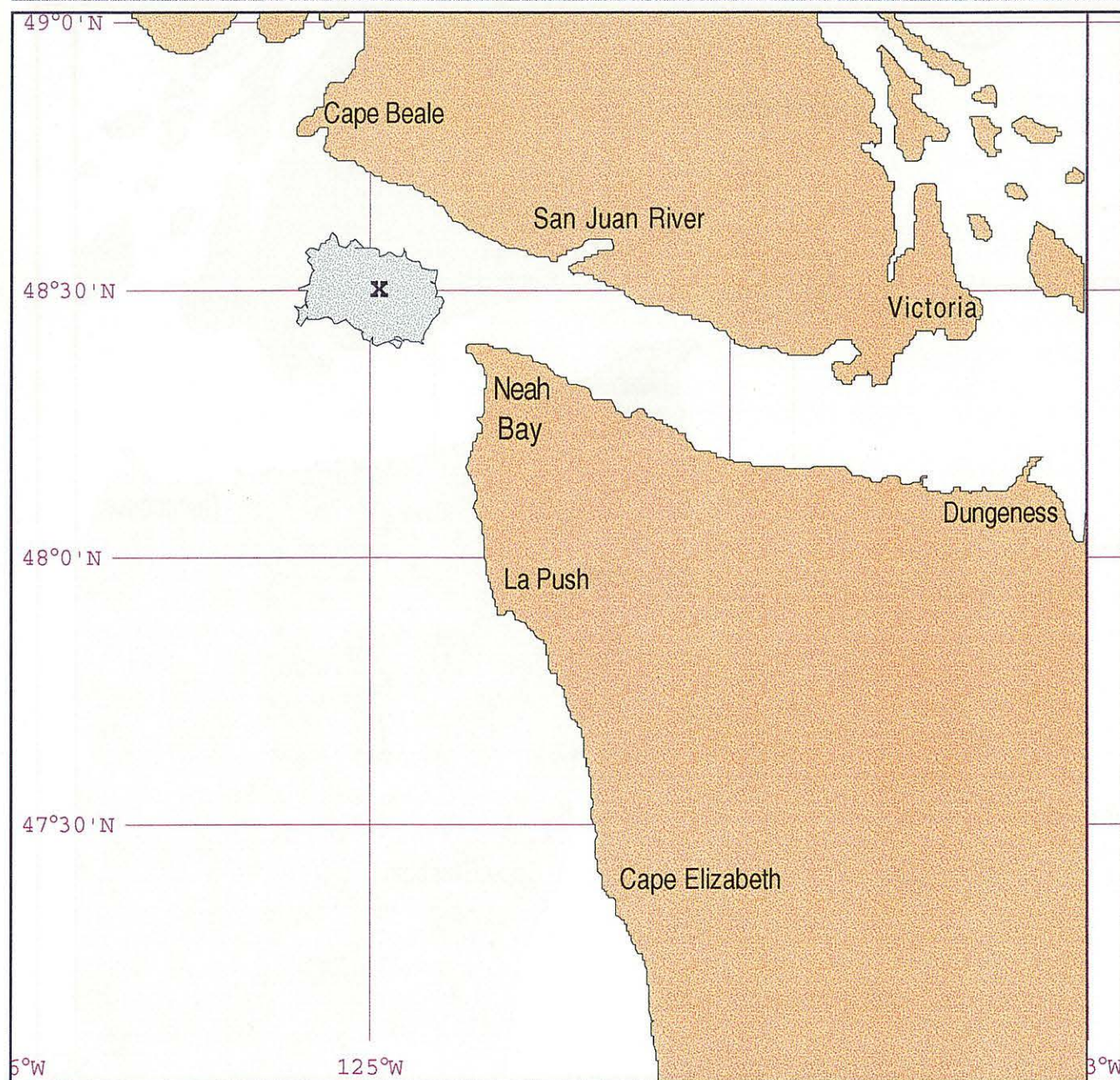


Figure B-86. Map of 6-hour probability contours, spring, 6 percent drift for site 6.

**Ship drift analysis**

Estimate for:

Prepared: ,

MASS Statistical Analysis

NOAA/HAZMAT/MASS (206) 526-6317



Season: Spring

Ship drift: 6% of the wind speed representing both wind and wave action

Time: 8-hours

At each site, the contour represents the 95% probability distribution.

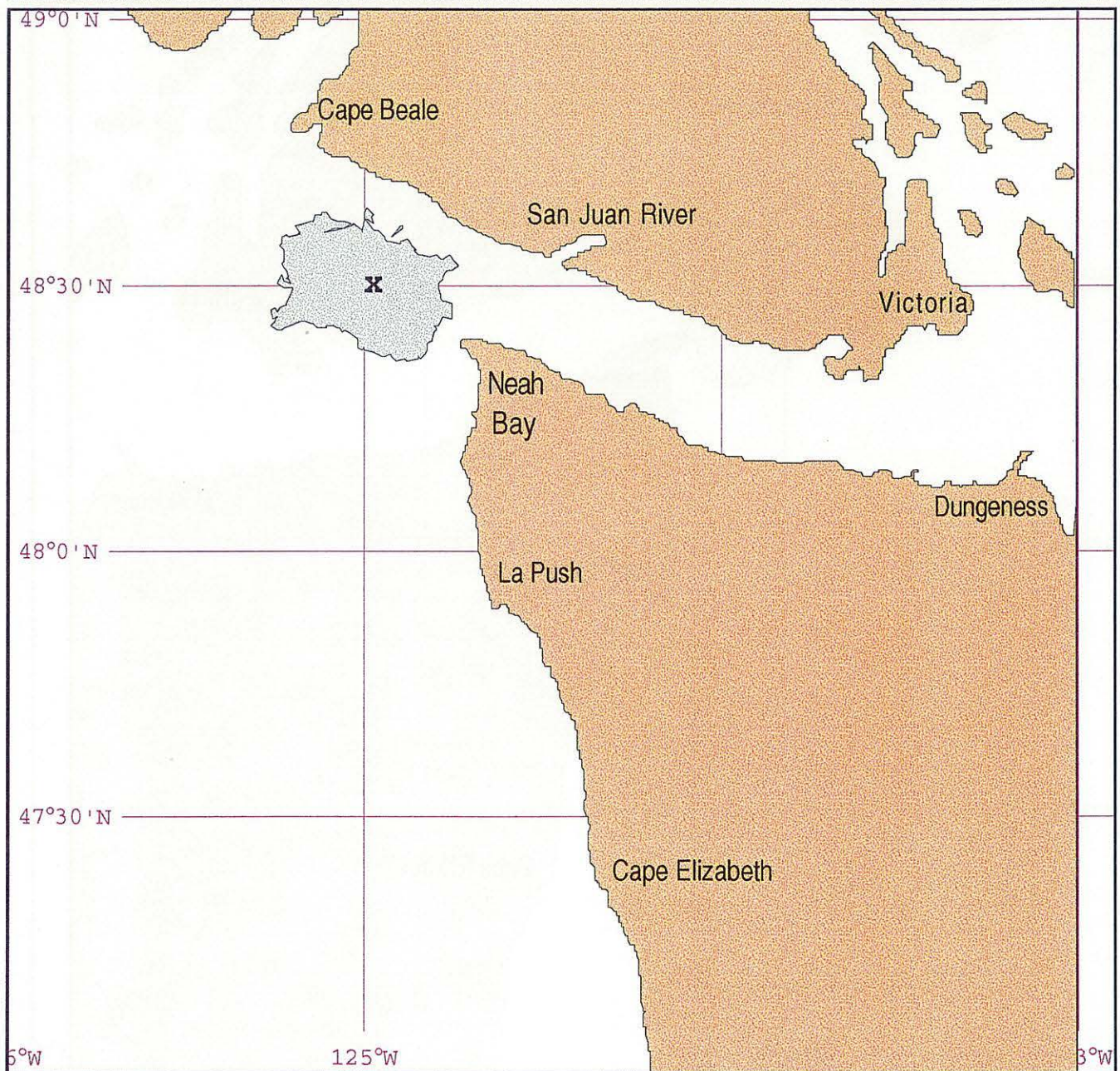


Figure B-87. Map of 8-hour probability contours, spring, 6 percent drift for site 6.

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Spring

Ship drift: 6% of the wind speed representing both wind and wave action

Time: 12-hours

At each site, the contour represents the 95% probability distribution.

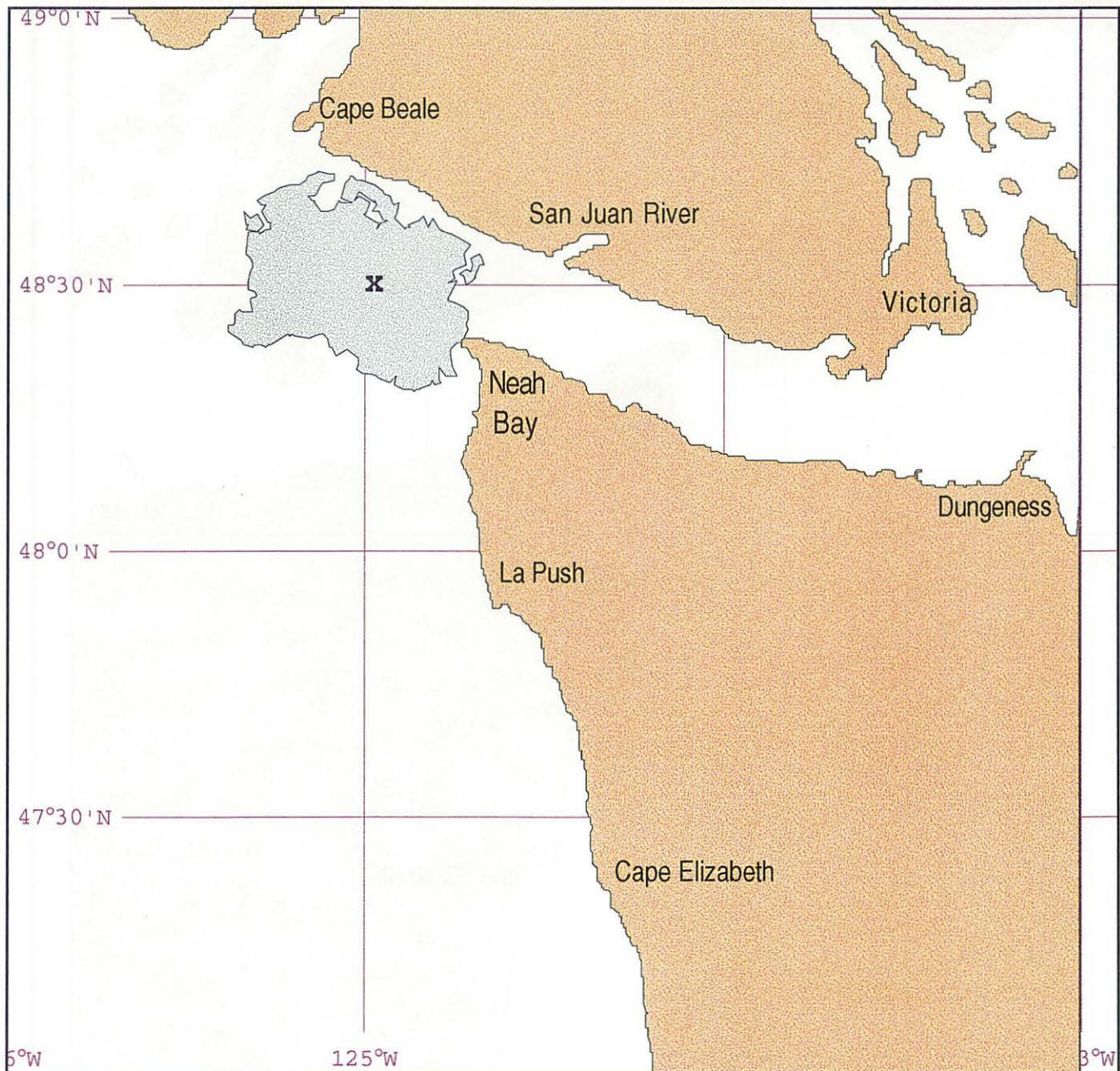


Figure B-88. Map of 12-hour probability contours, spring, 6 percent drift for site 6.

**Ship drift analysis**

Estimate for:

Prepared: ,

MASS Statistical Analysis

NOAA/HAZMAT/MASS (206) 526-6317



Season: Spring

Ship drift: 8% of the wind speed representing both wind and wave action

Time: 2-hours

At each site, the contour represents the 95% probability distribution.

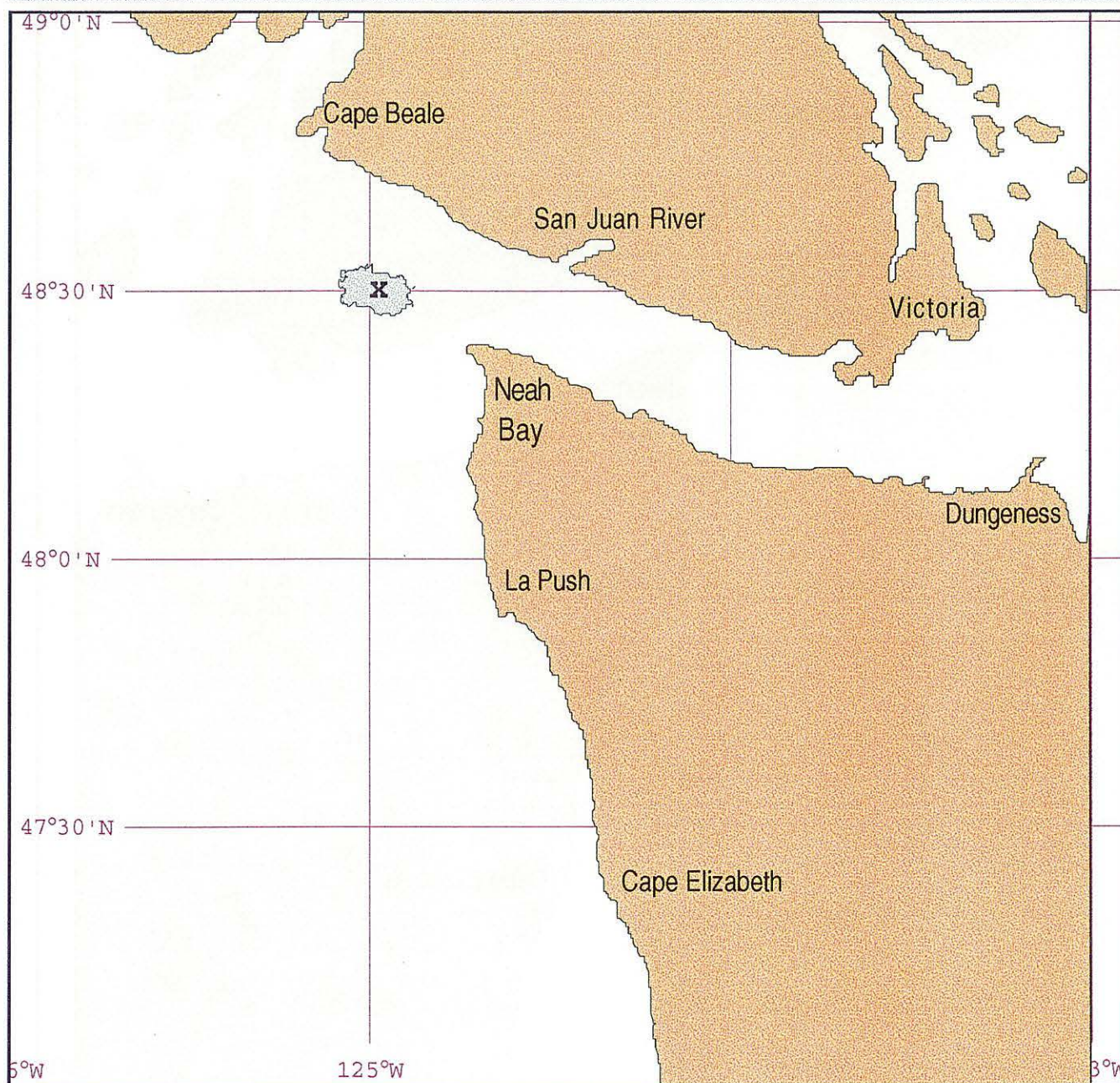


Figure B-89. Map of 2-hour probability contours, spring, 8 percent drift for site 6.

**Ship drift analysis**

Estimate for:

Prepared: ,

MASS Statistical Analysis

NOAA/HAZMAT/MASS (206) 526-6317



Season: Spring

Ship drift: 8% of the wind speed representing both wind and wave action

Time: 4-hours

At each site, the contour represents the 95% probability distribution.

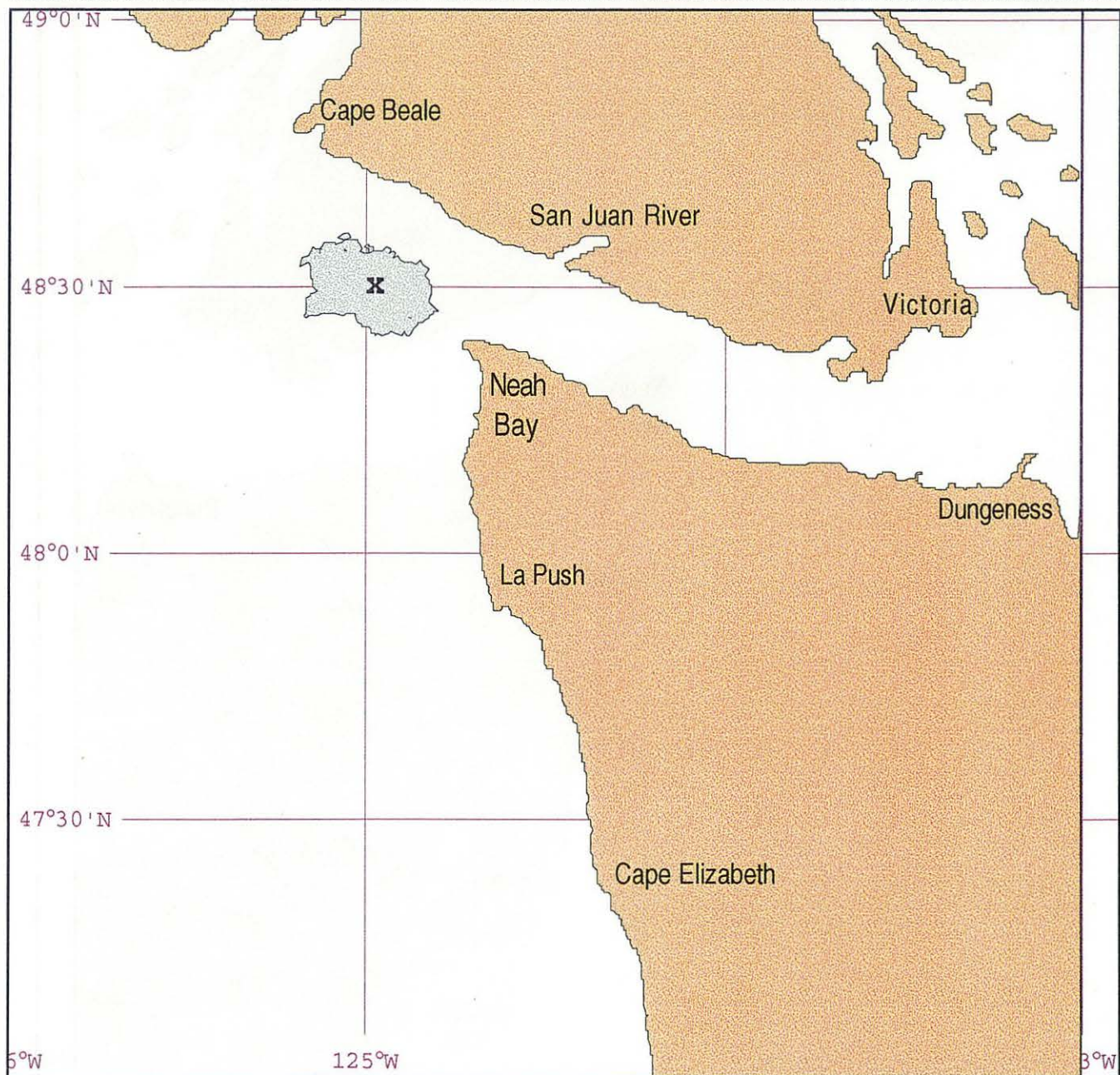


Figure B-90. Map of 4-hour probability contours, spring, 8 percent drift for site 6.

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Spring

Ship drift: 8% of the wind speed representing both wind and wave action

Time: 6-hours

At each site, the contour represents the 95% probability distribution.

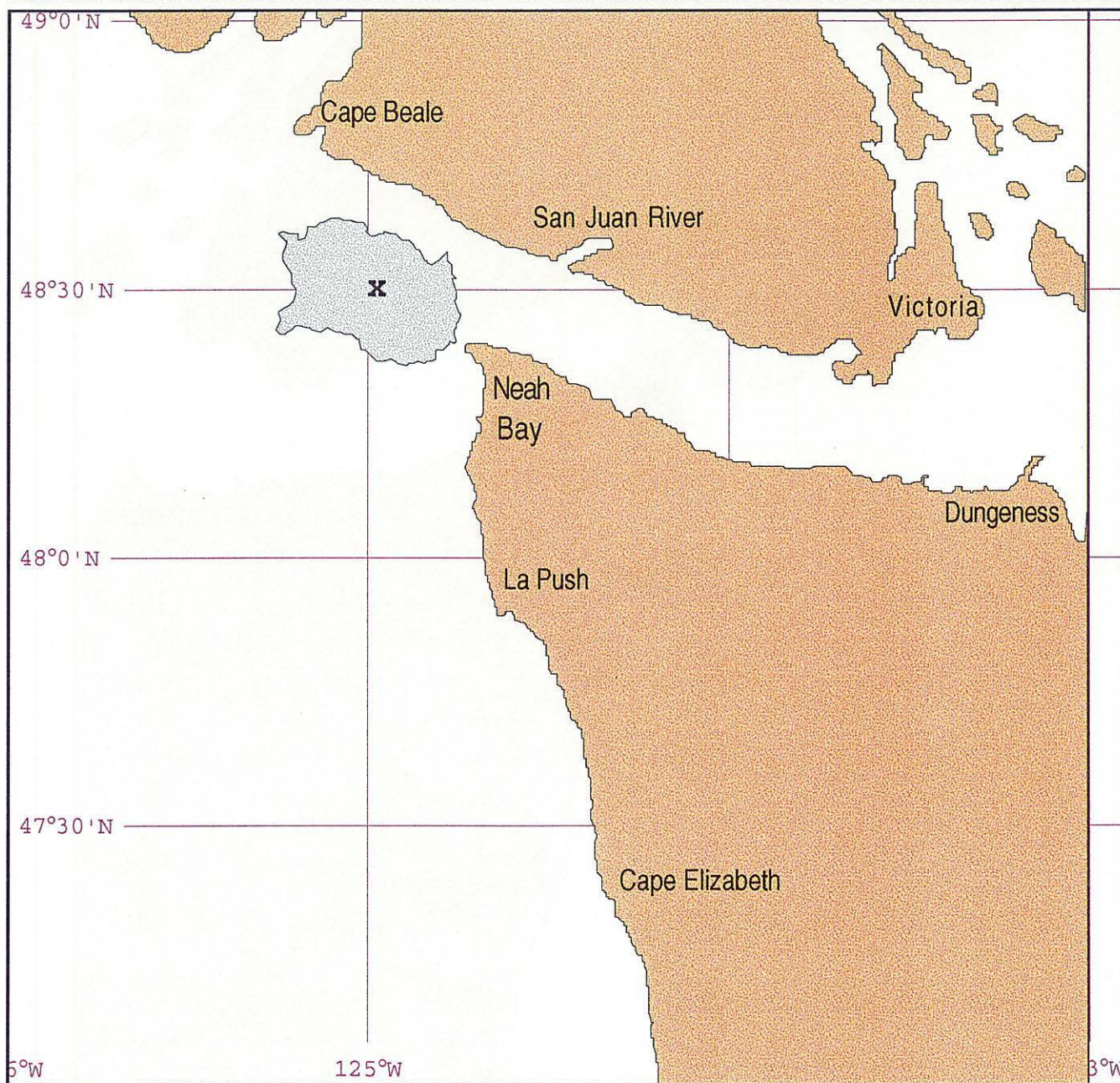


Figure B-91. Map of 6-hour probability contours, spring, 8 percent drift for site 6.

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Spring

Ship drift: 8% of the wind speed representing both wind and wave action

Time: 8-hours

At each site, the contour represents the 95% probability distribution.

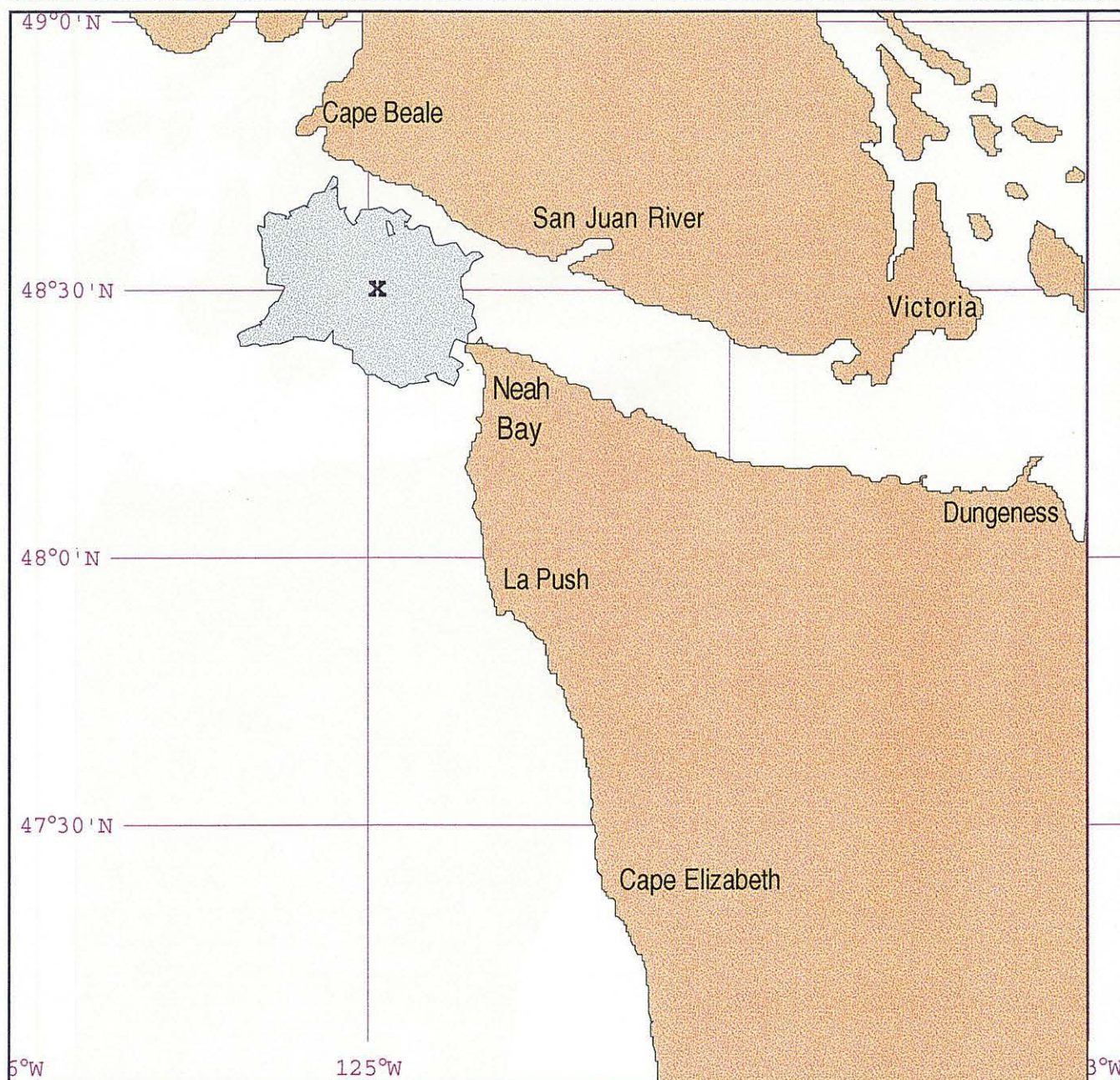


Figure B-92. Map of 8-hour probability contours, spring, 8 percent drift for site 6.

**Ship drift analysis**

Estimate for:

Prepared: ,

MASS Statistical Analysis

NOAA/HAZMAT/MASS (206) 526-6317



Season: Spring

Ship drift: 8% of the wind speed representing both wind and wave action

Time: 12-hours

At each site, the contour represents the 95% probability distribution.

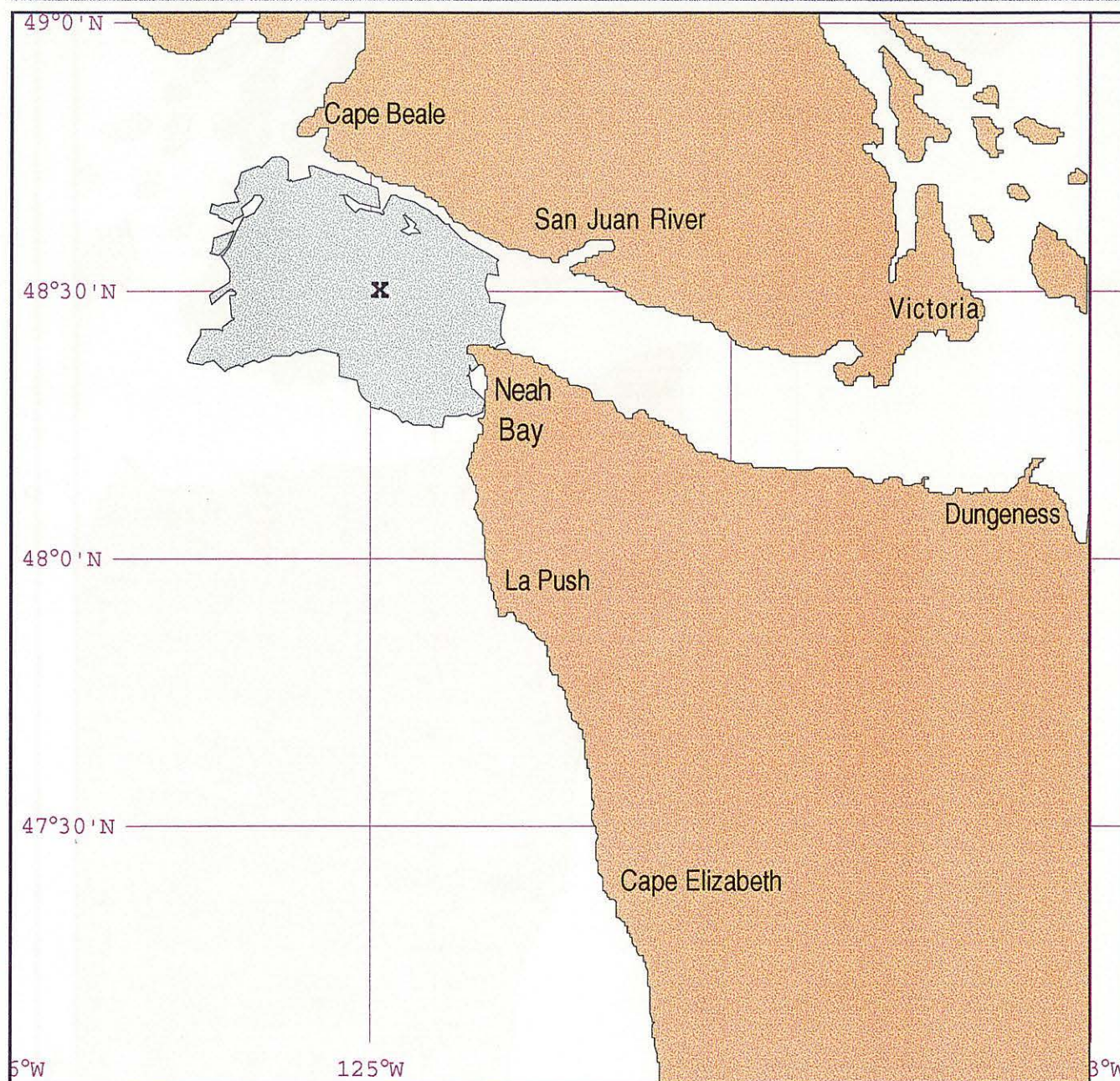


Figure B-93. Map of 12-hour probability contours, spring, 8 percent drift for site 6.

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Spring

Ship drift: 10% of the wind speed representing both wind and wave action

Time: 2-hours

At each site, the contour represents the 95% probability distribution.

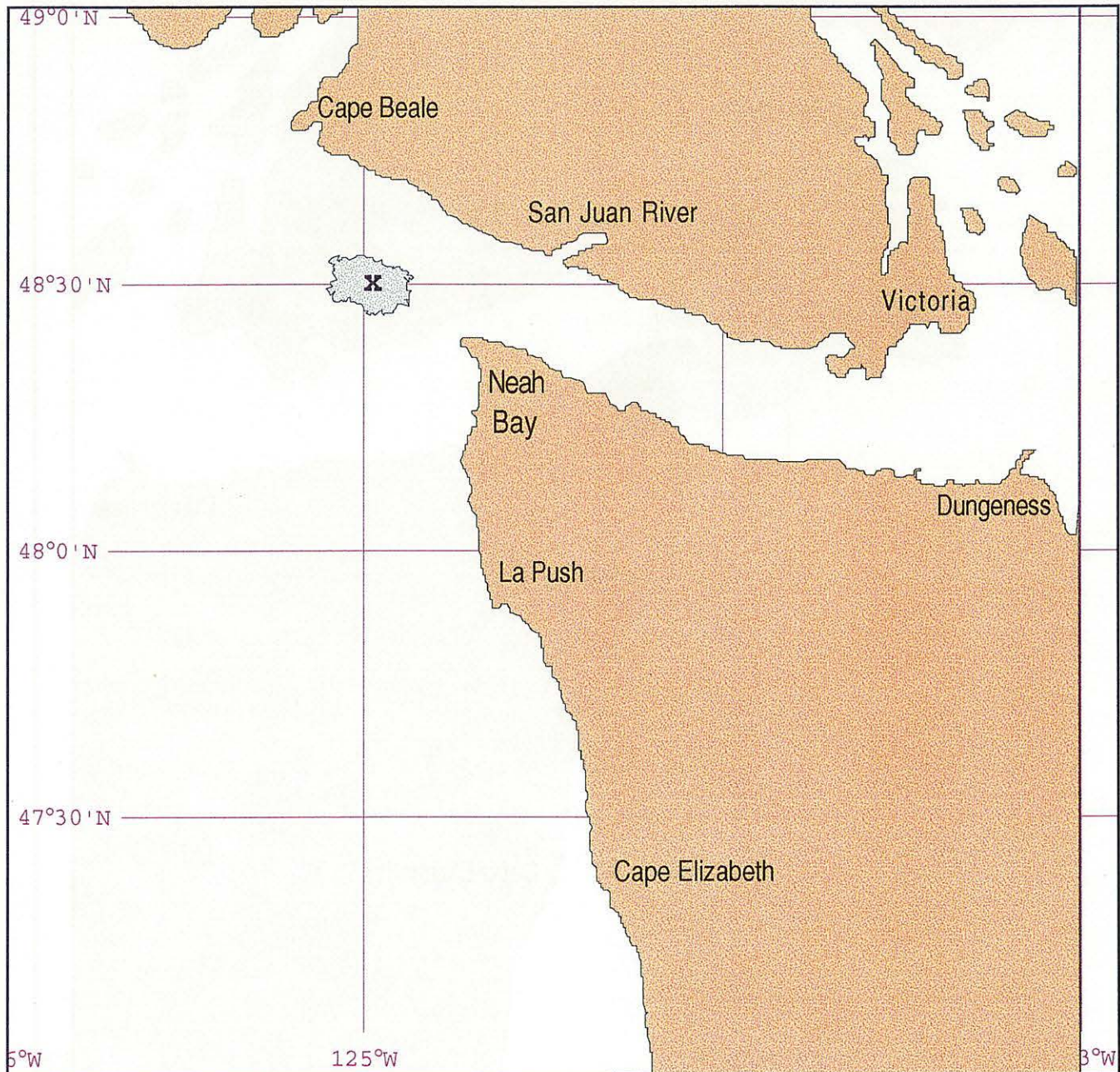
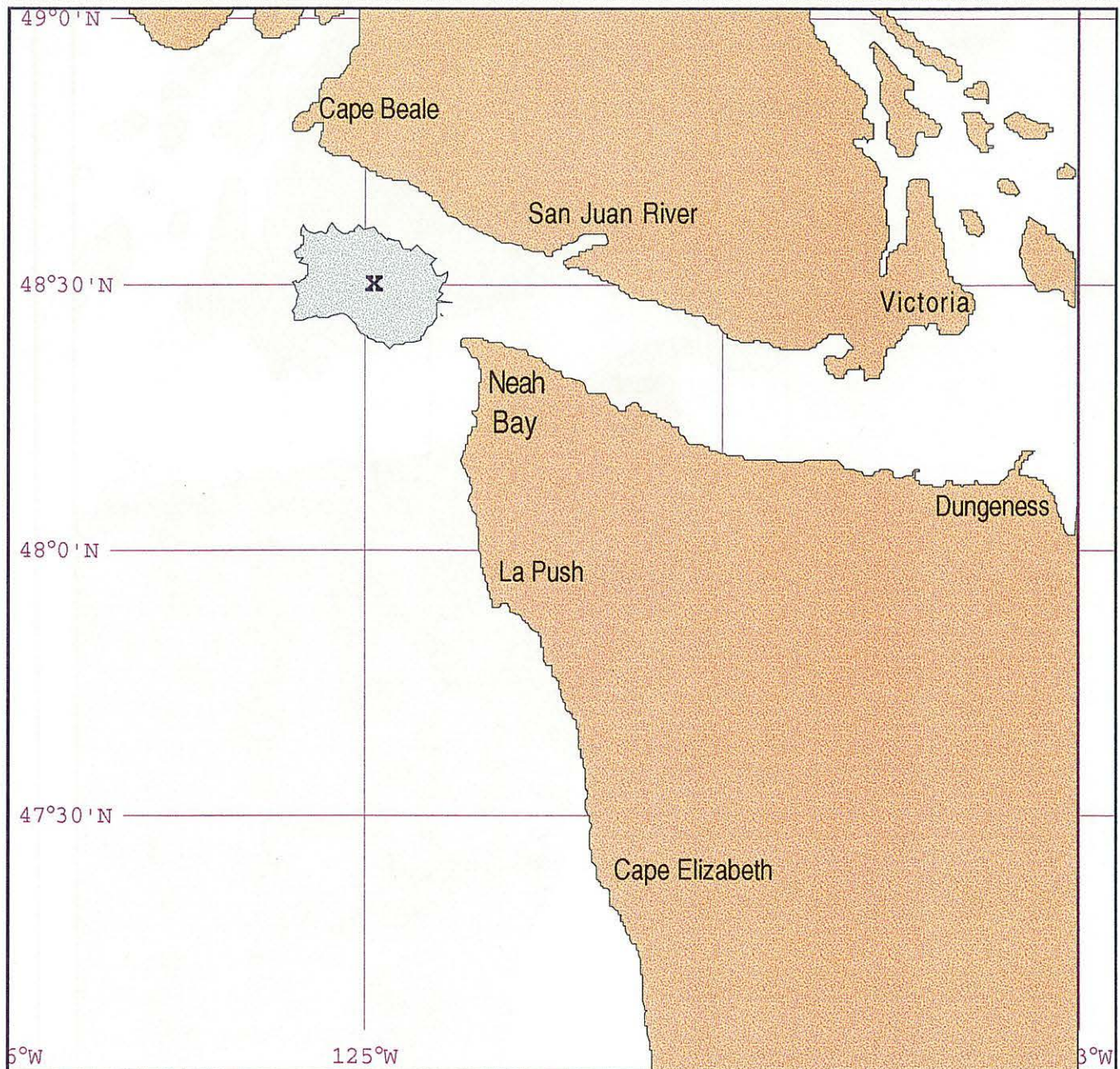


Figure B-94. Map of 2-hour probability contours, spring, 10 percent drift for site 6.

MASS Statistical Analysis

Prepared: ,

At each site, the contour represents the 95% probability distribution.



B-95

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Spring

Ship drift: 10% of the wind speed representing both wind and wave action

Time: 6-hours

At each site, the contour represents the 95% probability distribution.

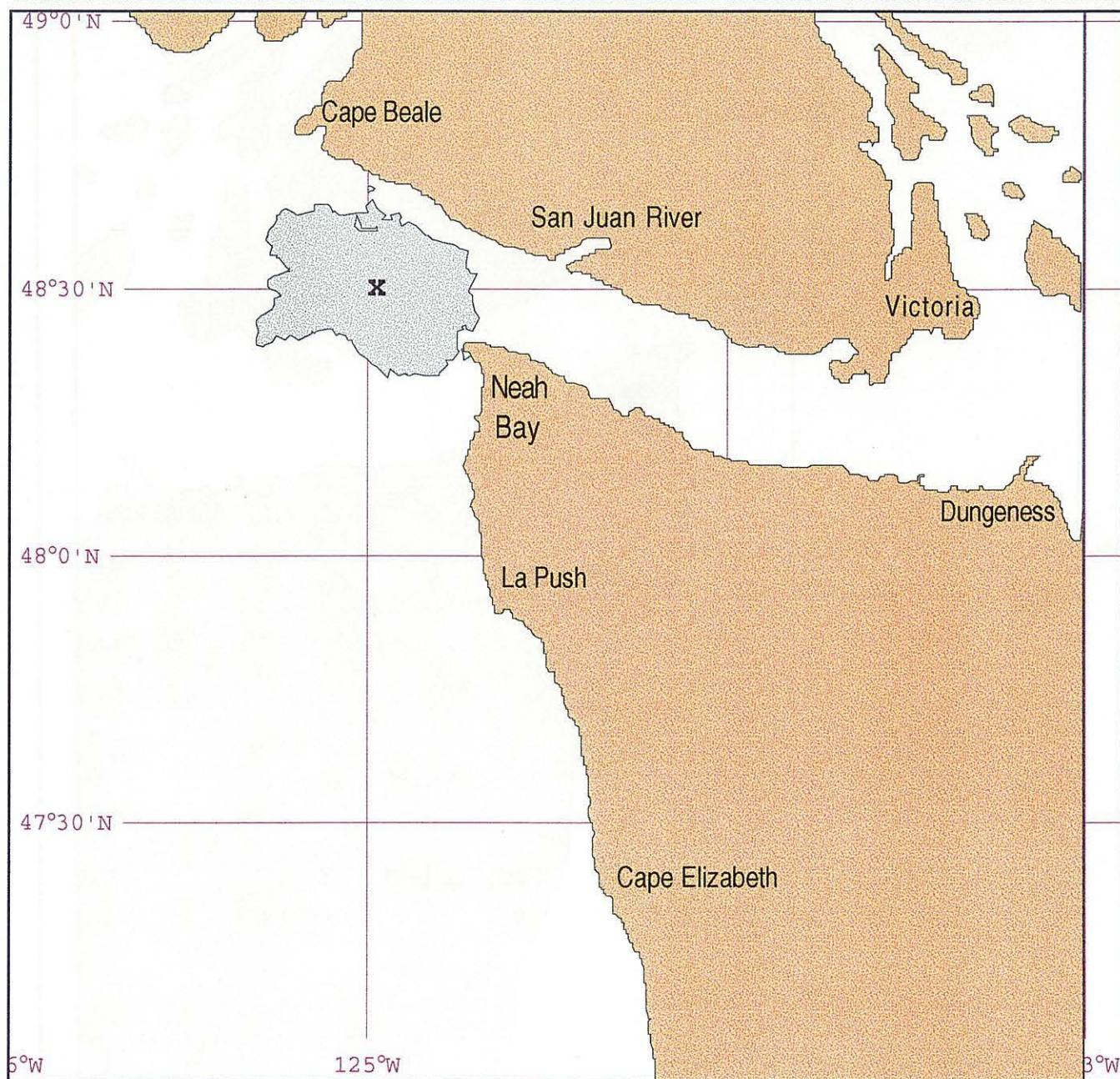


Figure B-96. Map of 6-hour probability contours, spring, 10 percent drift for site 6.

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Spring

Ship drift: 10% of the wind speed representing both wind and wave action

Time: 8-hours

At each site, the contour represents the 95% probability distribution.

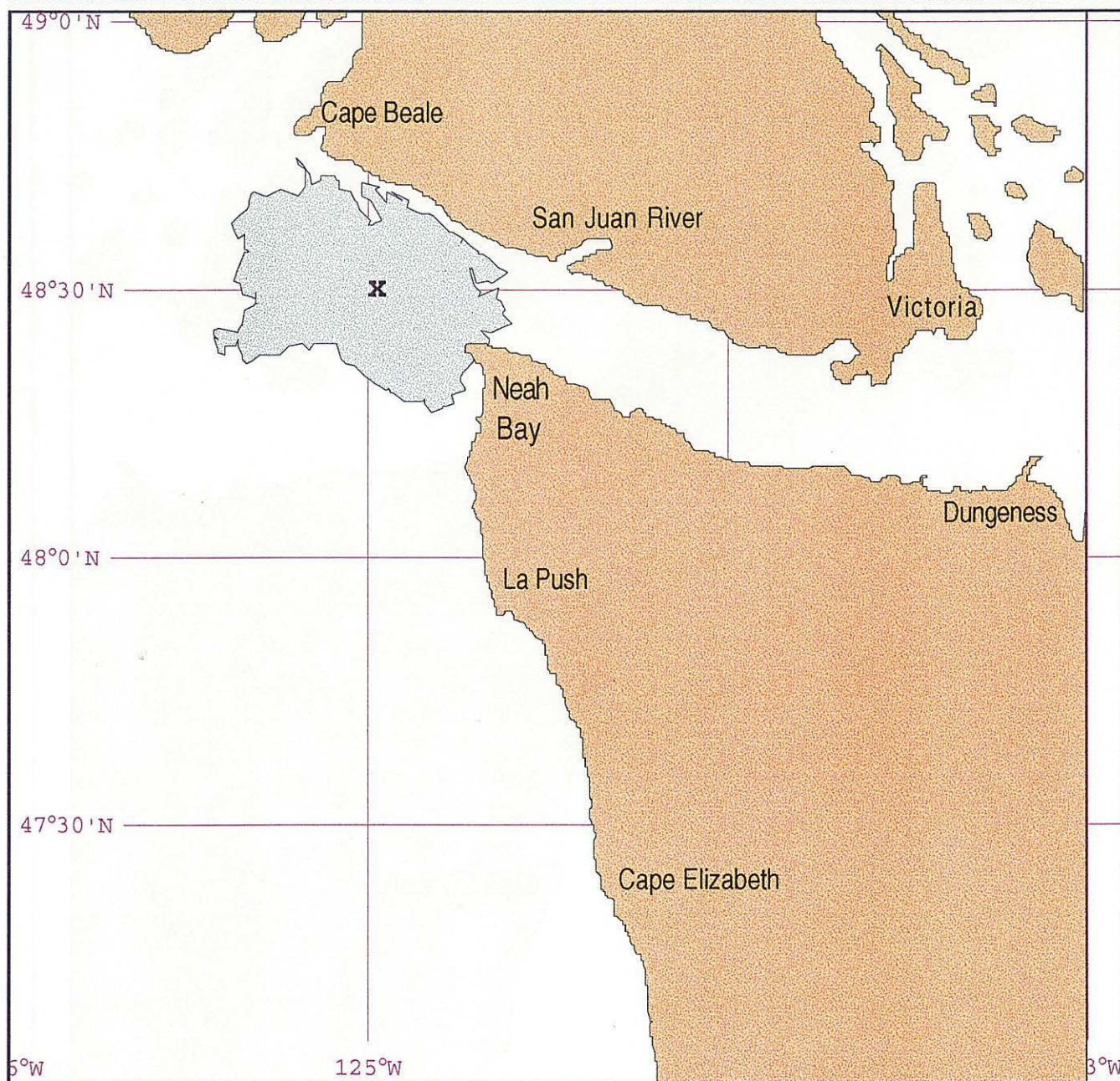


Figure B-97. Map of 8-hour probability contours, spring, 10 percent drift for site 6.

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Spring

Ship drift: 10% of the wind speed representing both wind and wave action

Time: 12-hours

At each site, the contour represents the 95% probability distribution.

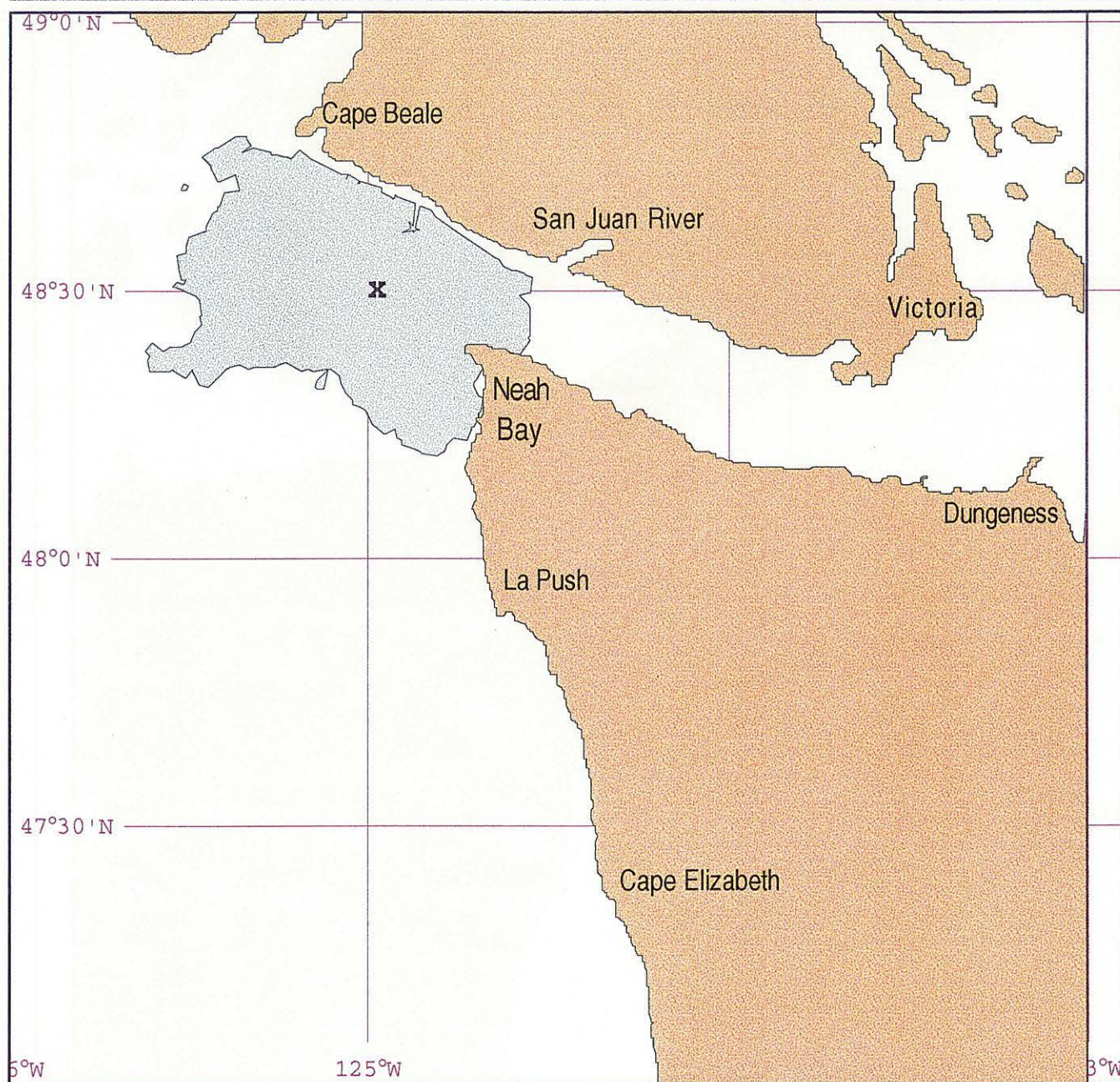
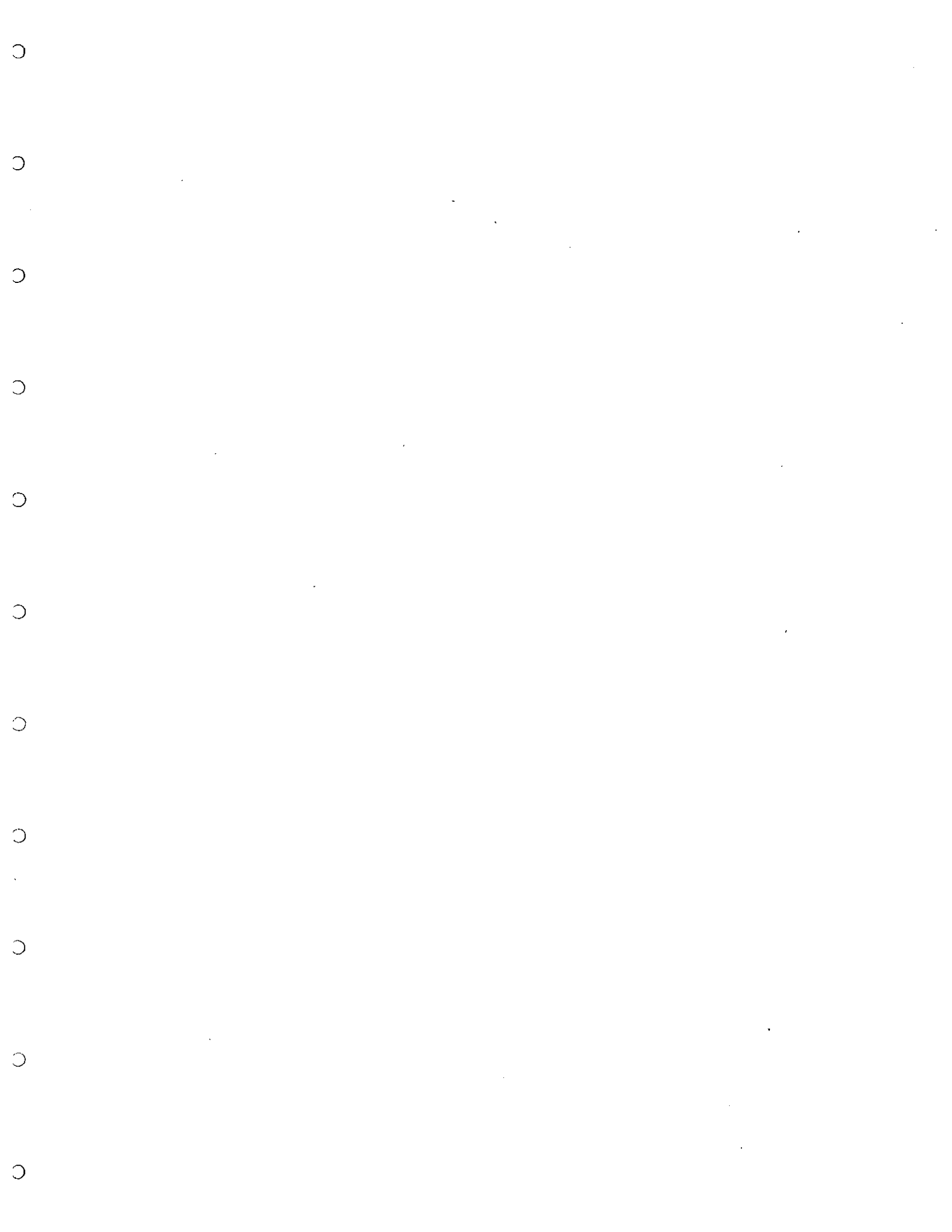


Figure B-98. Map of 8-hour probability contours, spring, 10 percent drift for site 6.





Ship drift analysis

MASS Statistical Analysis



Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317

Season: Summer

Ship drift: 2% of the wind speed representing both wind and wave action

Time: 4-hours

At each site, the contour represents the 95% probability distribution.

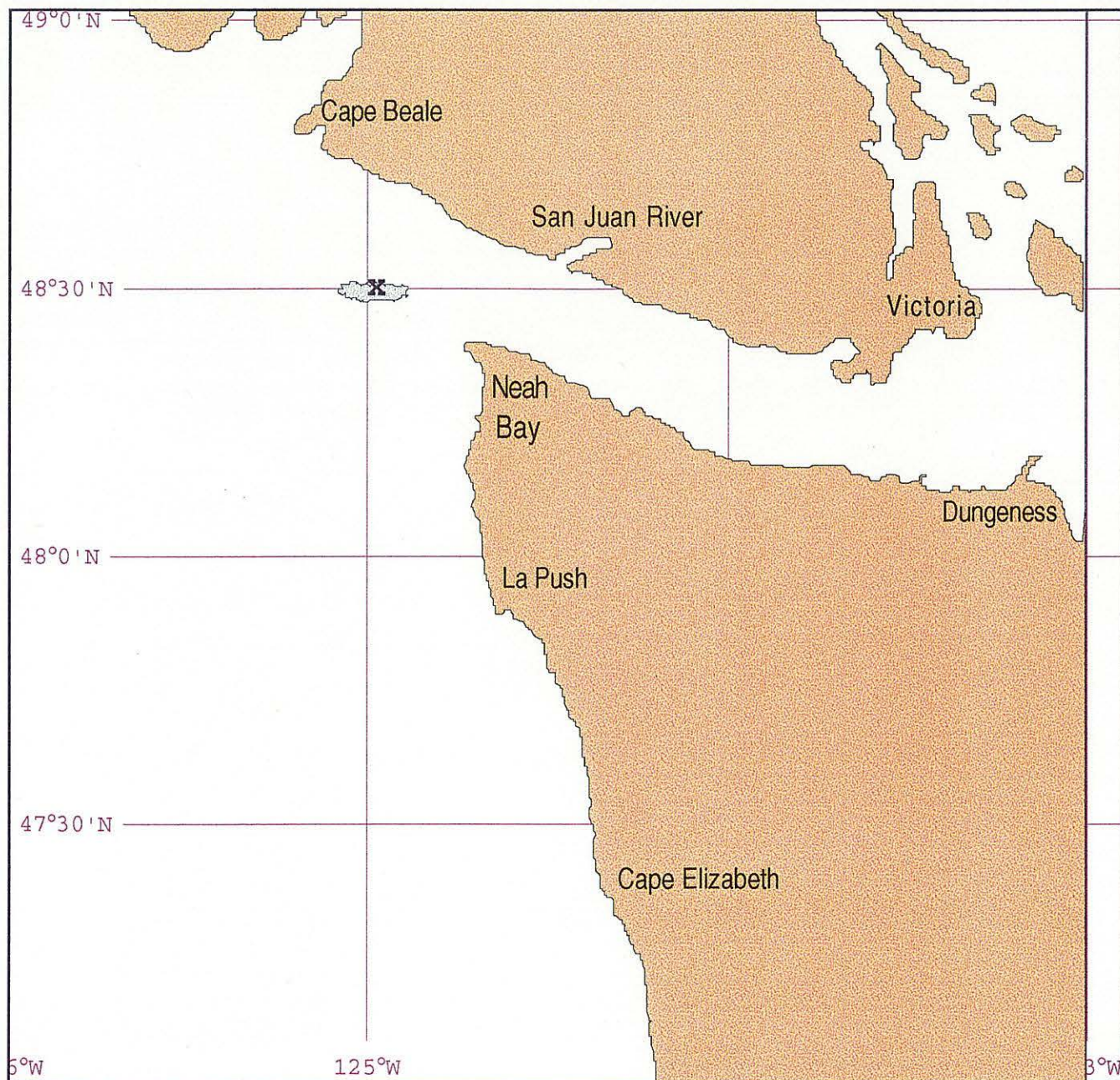


Figure B-100. Map of 4-hour probability contours, summer, 2 percent drift for site 6.

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Summer

Ship drift: 2% of the wind speed representing both wind and wave action

Time: 6-hours

At each site, the contour represents the 95% probability distribution.

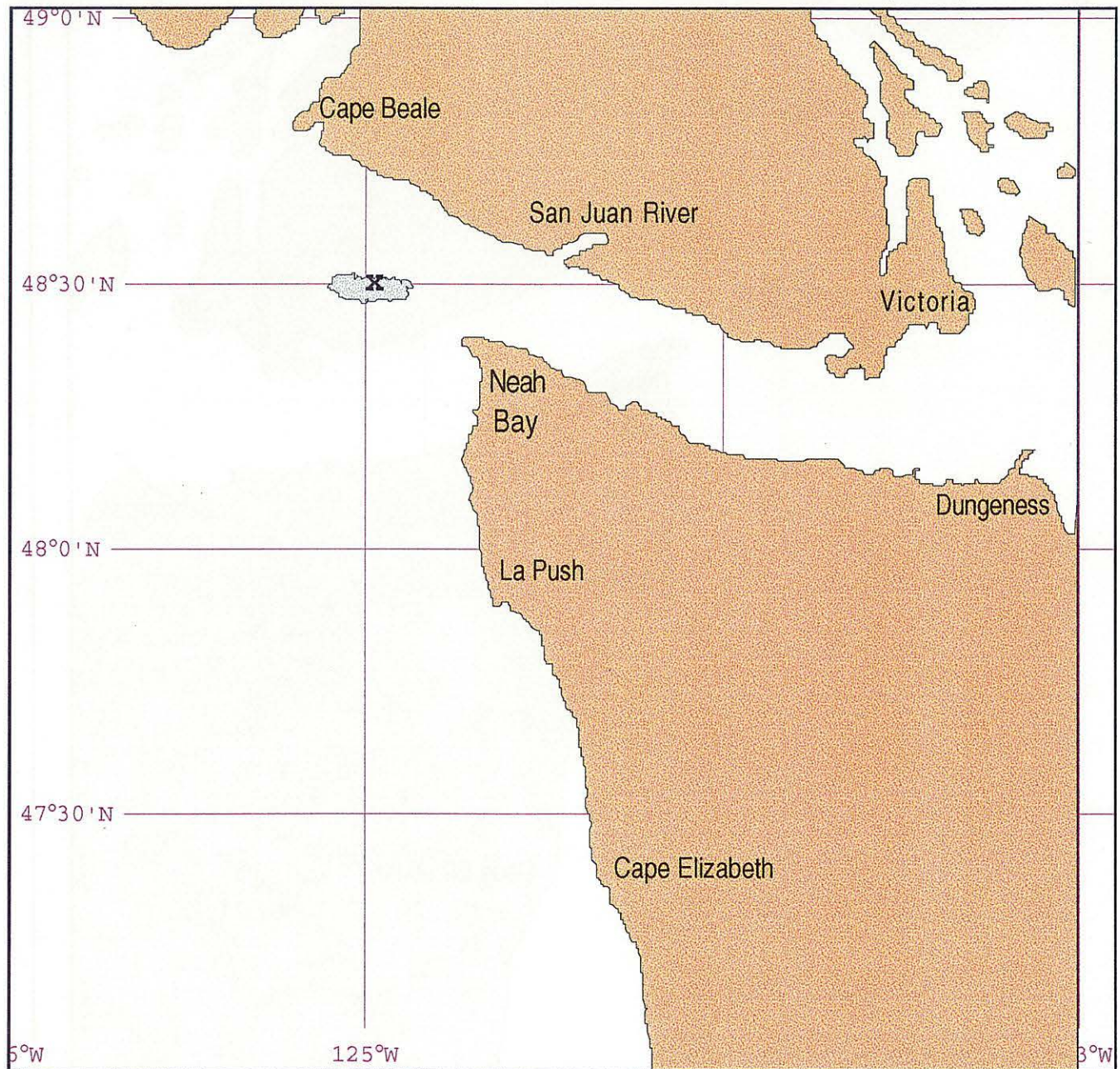


Figure B-101. Map of 6-hour probability contours, summer, 2 percent drift for site 6.

MASS Statistical Analysis

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Time: 8-hours

At each site, the contour represents the 95% probability distribution.

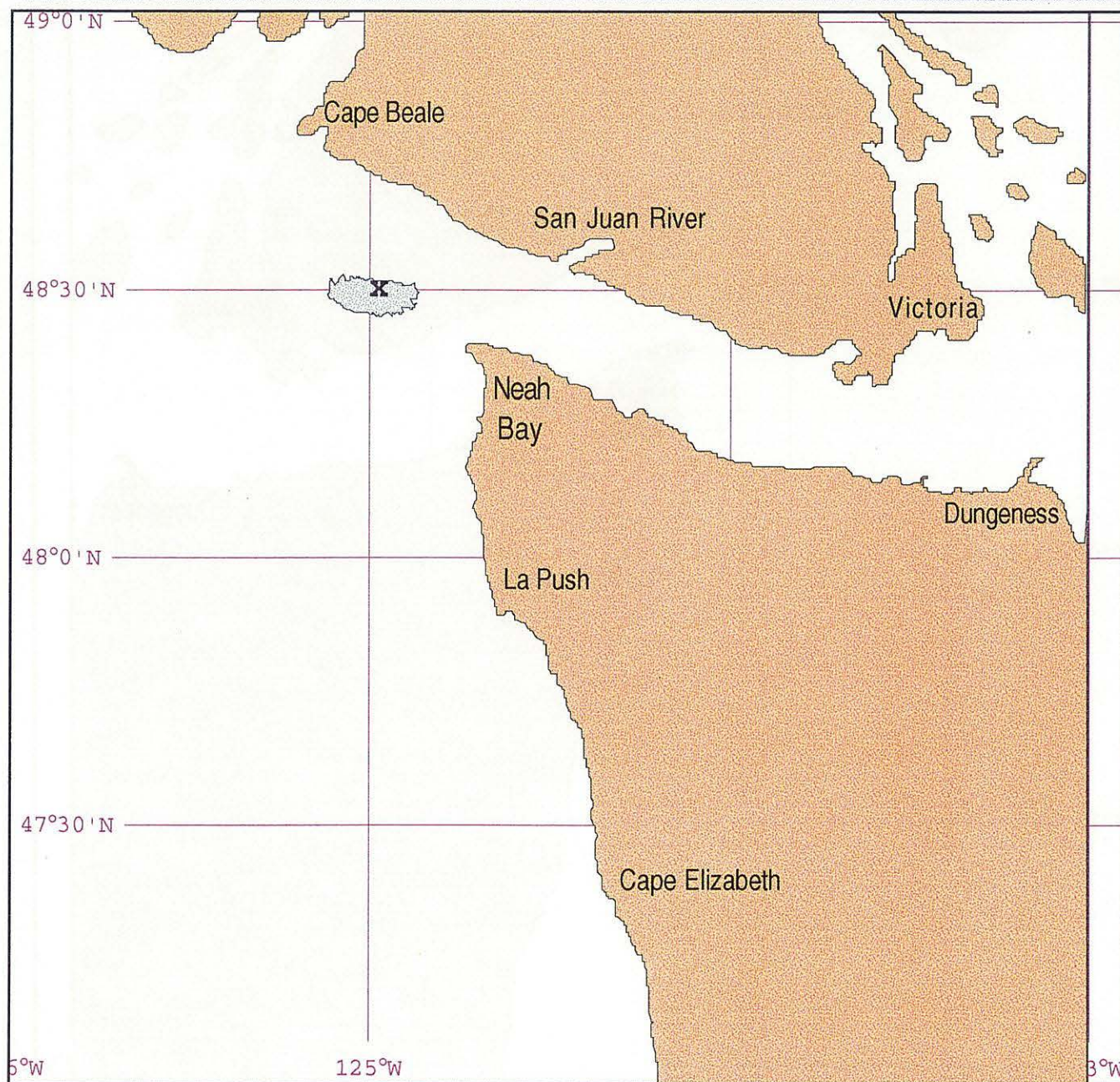


Figure B-102. Map of 8-hour probability contours, summer, 2 percent drift for site 6.

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Summer

Ship drift: 2% of the wind speed representing both wind and wave action

Time: 12-hours

At each site, the contour represents the 95% probability distribution.

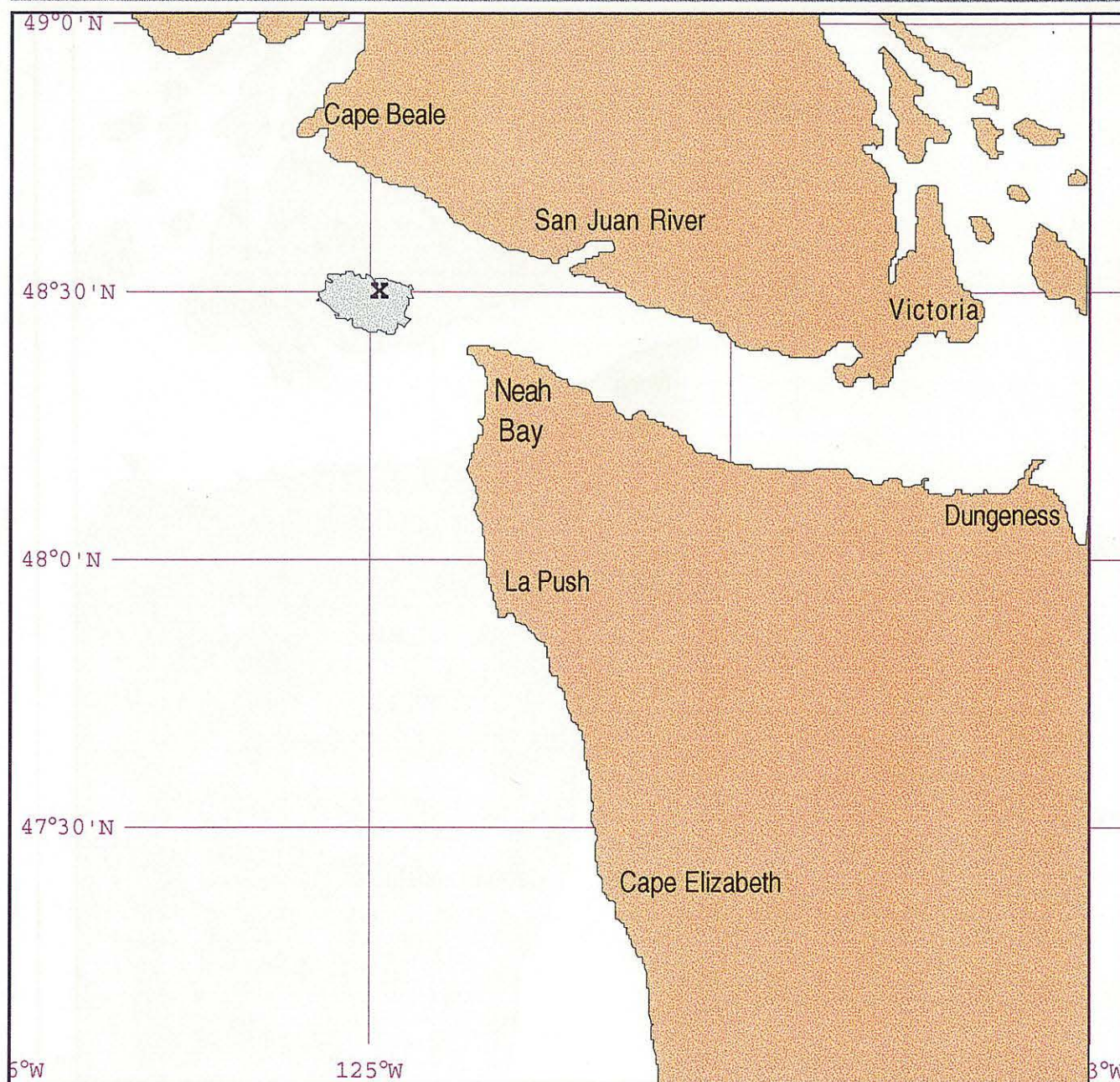


Figure B-103. Map of 12-hour probability contours, summer, 2 percent drift for site 6.

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Summer

Ship drift: 4% of the wind speed representing both wind and wave action

Time: 2-hours

At each site, the contour represents the 95% probability distribution.

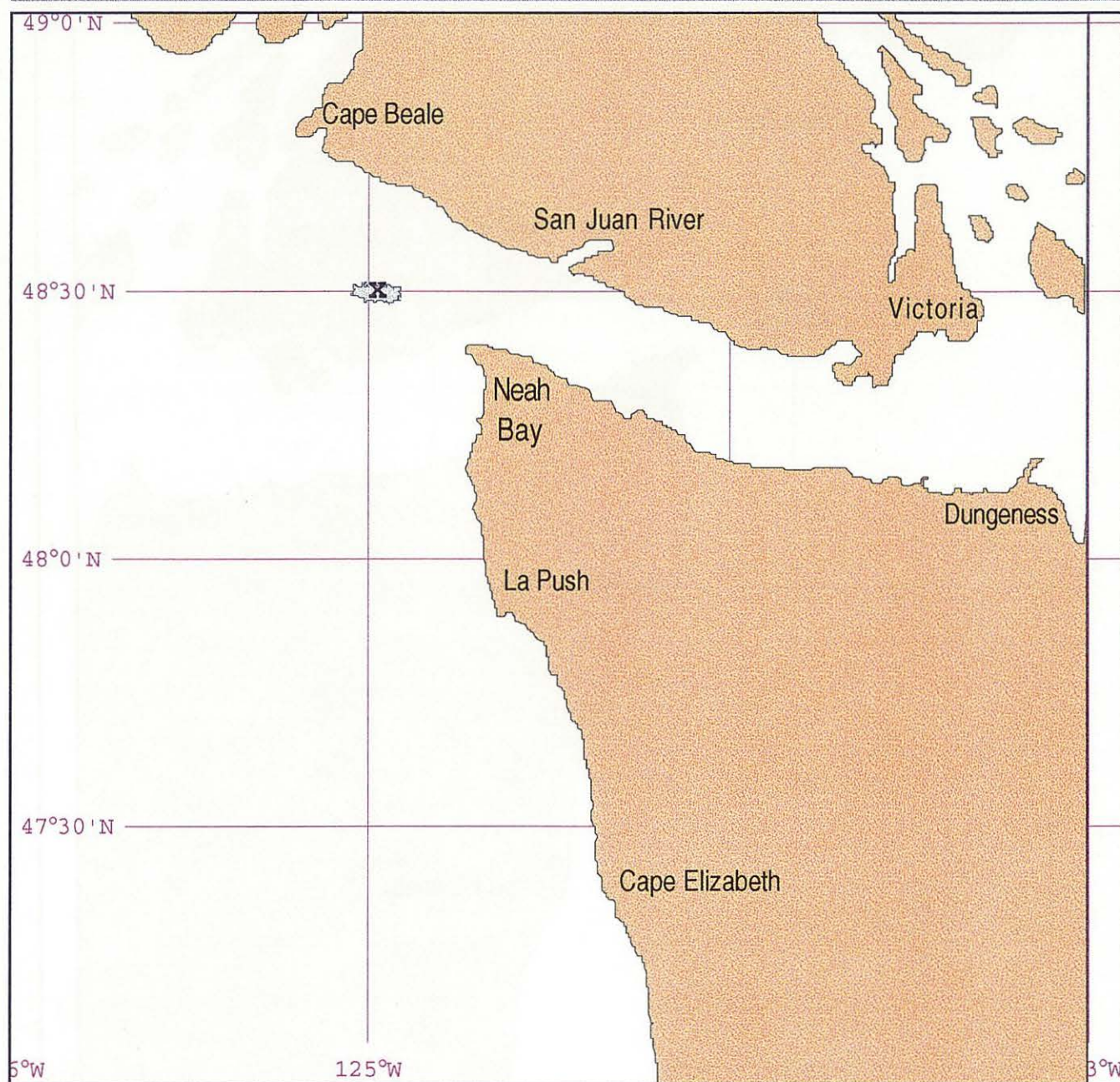


Figure B-104. Map of 2-hour probability contours, summer, 4 percent drift for site 6.

**Ship drift analysis**

Estimate for:

Prepared: ,

MASS Statistical Analysis

NOAA/HAZMAT/MASS (206) 526-6317



Season: Summer

Ship drift: 4% of the wind speed representing both wind and wave action

Time: 4-hours

At each site, the contour represents the 95% probability distribution.

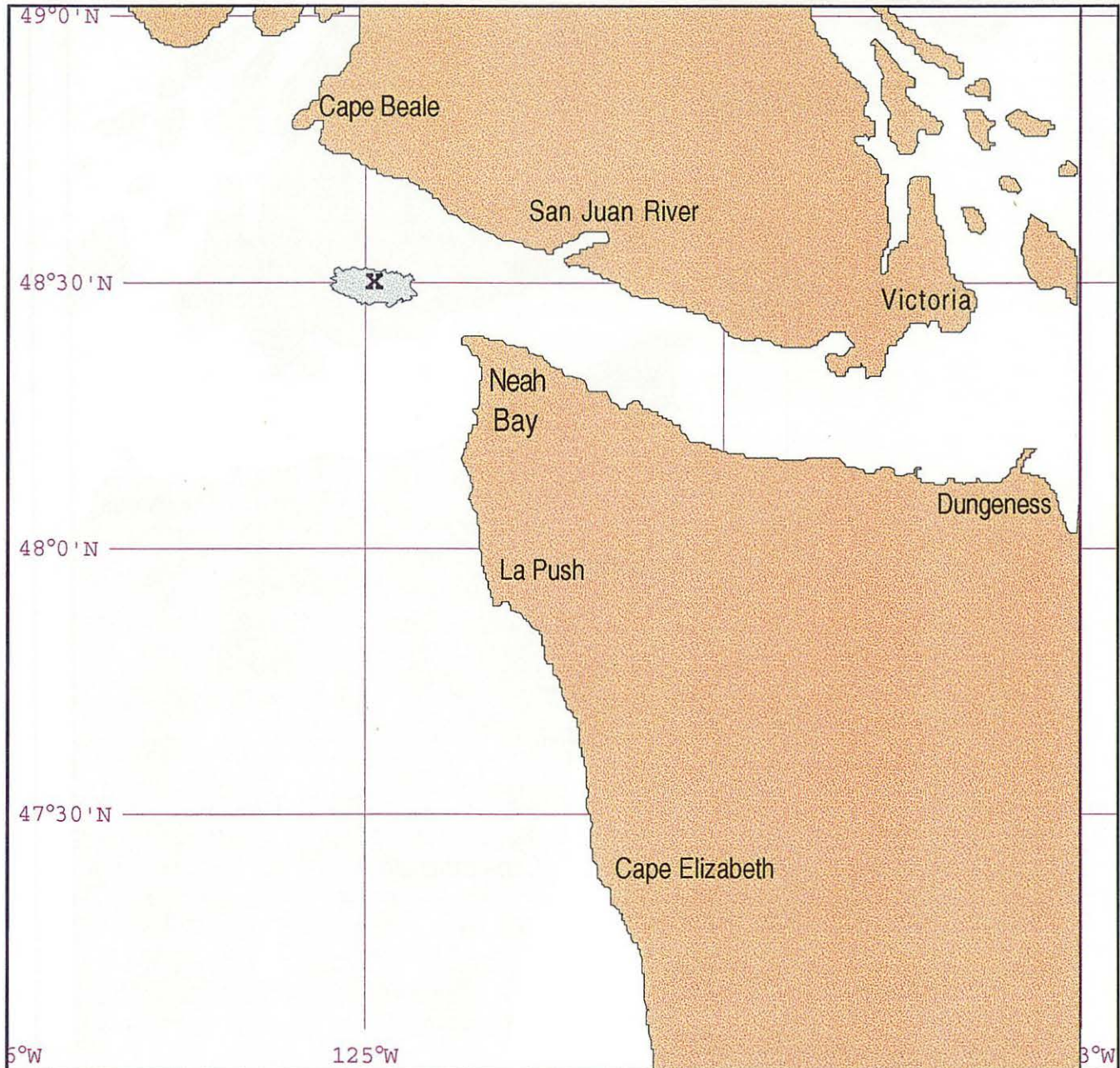


Figure B-105. Map of 4-hour probability contours, summer, 4 percent drift for site 6.

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Summer

Ship drift: 4% of the wind speed representing both wind and wave action

Time: 6-hours

At each site, the contour represents the 95% probability distribution.

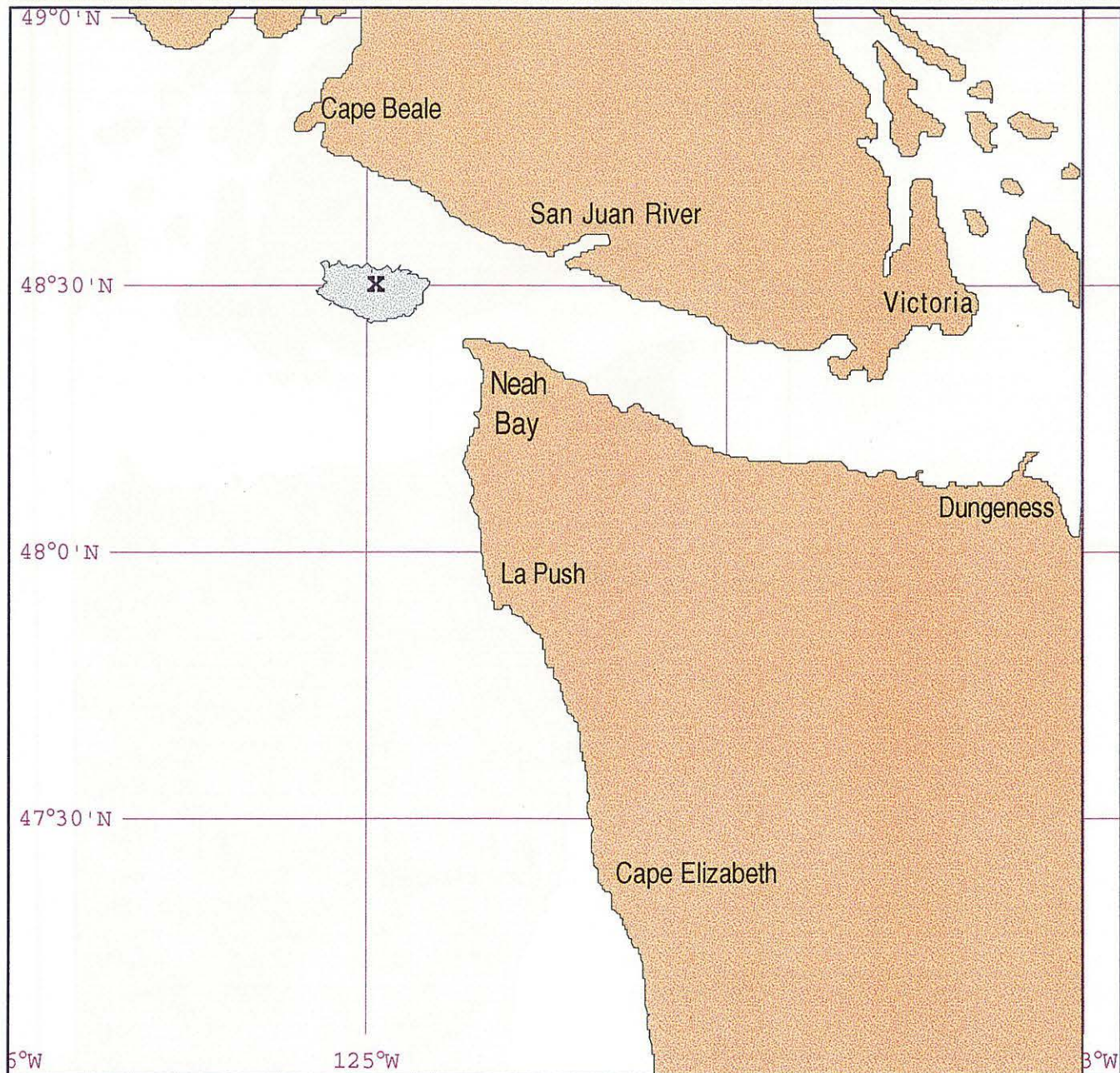


Figure B-106. Map of 6-hour probability contours, summer, 4 percent drift for site 6.

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Summer

Ship drift: 4% of the wind speed representing both wind and wave action

Time: 8-hours

At each site, the contour represents the 95% probability distribution.

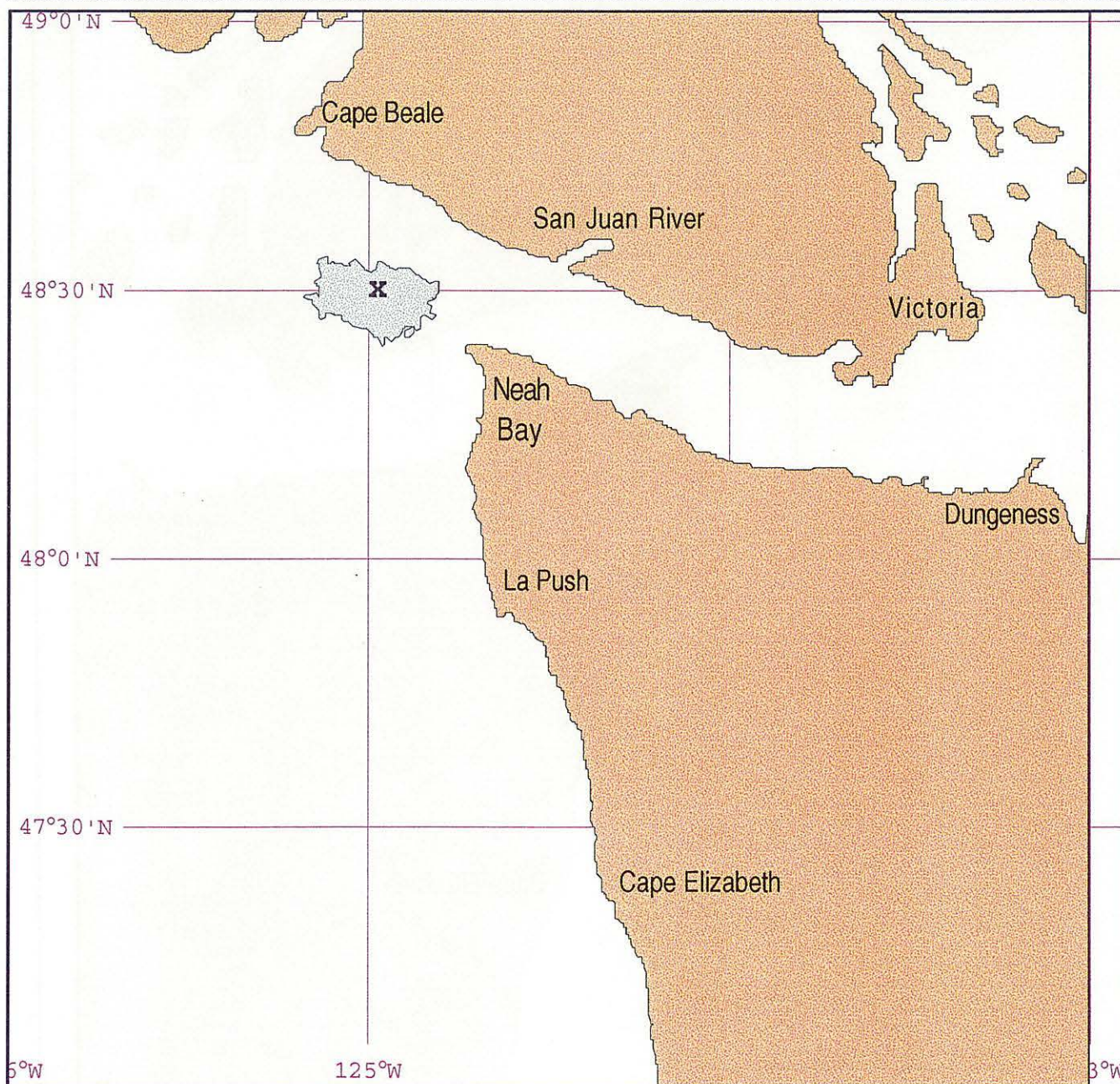


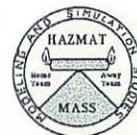
Figure B-107. Map of 8-hour probability contours, summer, 4 percent drift for site 6.

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Summer

Ship drift: 4% of the wind speed representing both wind and wave action

Time: 12-hours

At each site, the contour represents the 95% probability distribution.

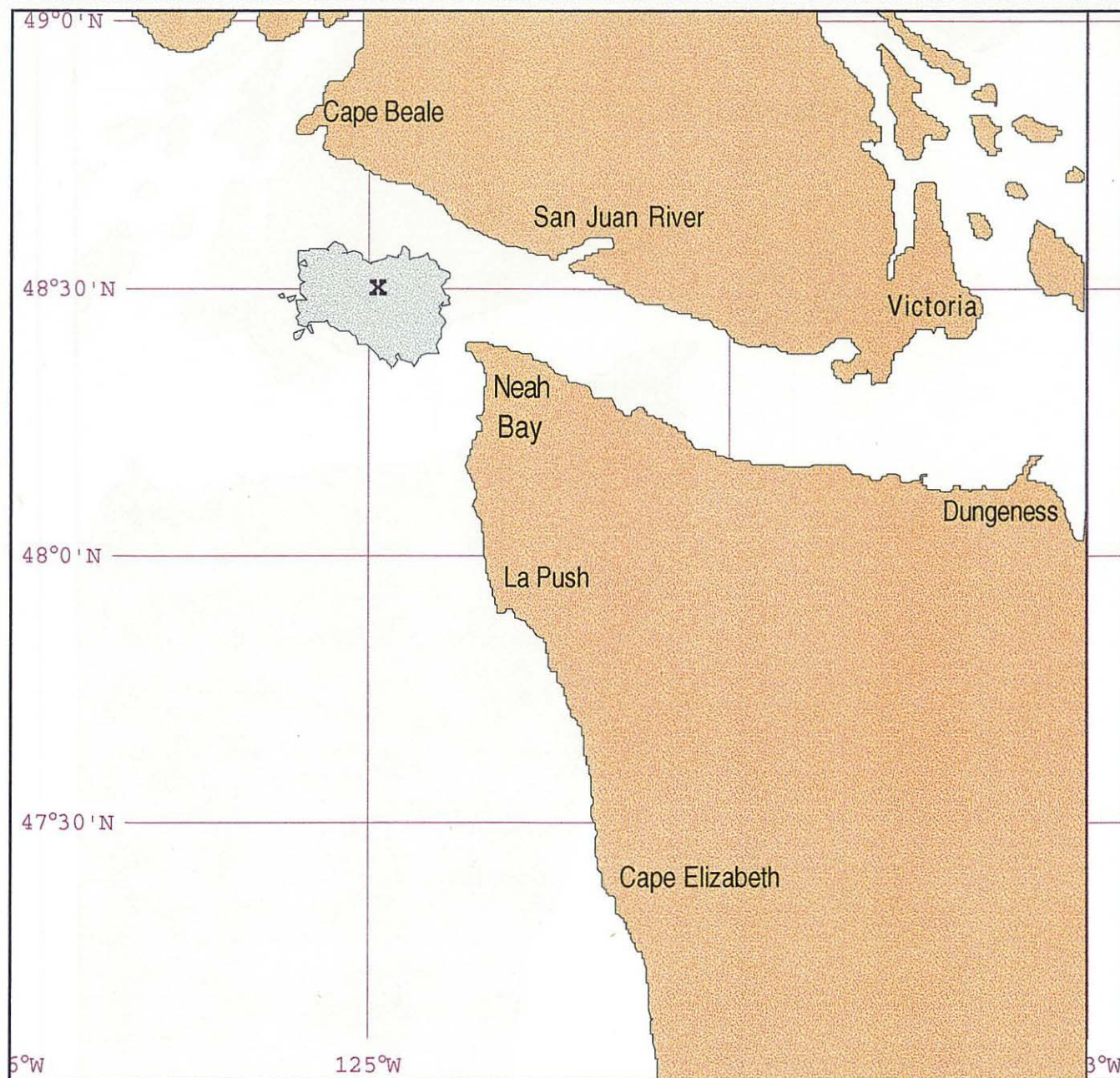


Figure B-108. Map of 12-hour probability contours, summer, 4 percent drift for site 6.

**Ship drift analysis**

Estimate for:

Prepared: ,

MASS Statistical Analysis

NOAA/HAZMAT/MASS (206) 526-6317



Season: Summer

Ship drift: 6% of the wind speed representing both wind and wave action

Time: 2-hours

At each site, the contour represents the 95% probability distribution.

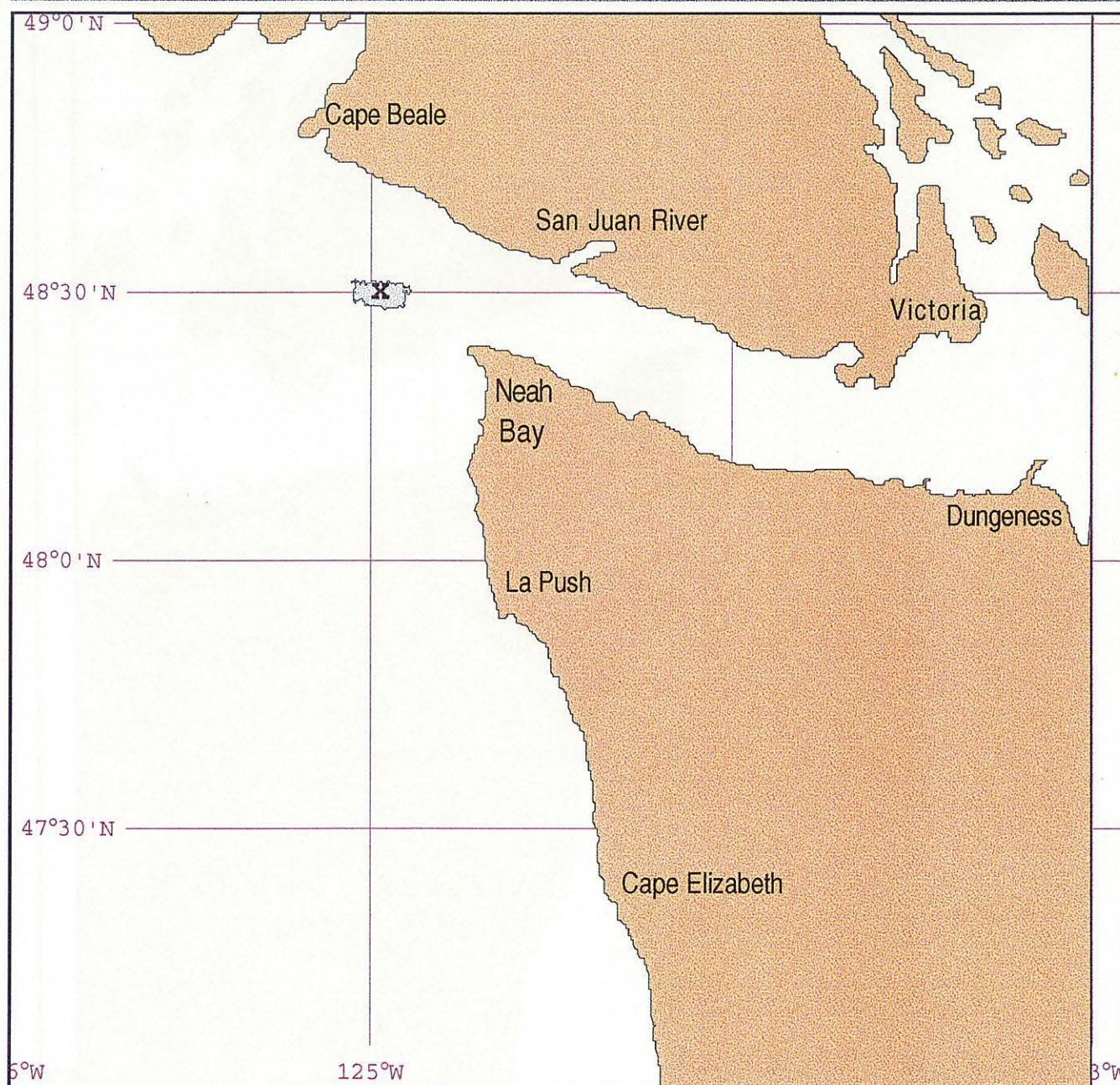


Figure B-109. Map of 2-hour probability contours, summer, 6 percent drift for site 6.



Ship drift analysis

MASS Statistical Analysis



Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317

Season: Summer

Ship drift: 6% of the wind speed representing both wind and wave action

Time: 4-hours

At each site, the contour represents the 95% probability distribution.

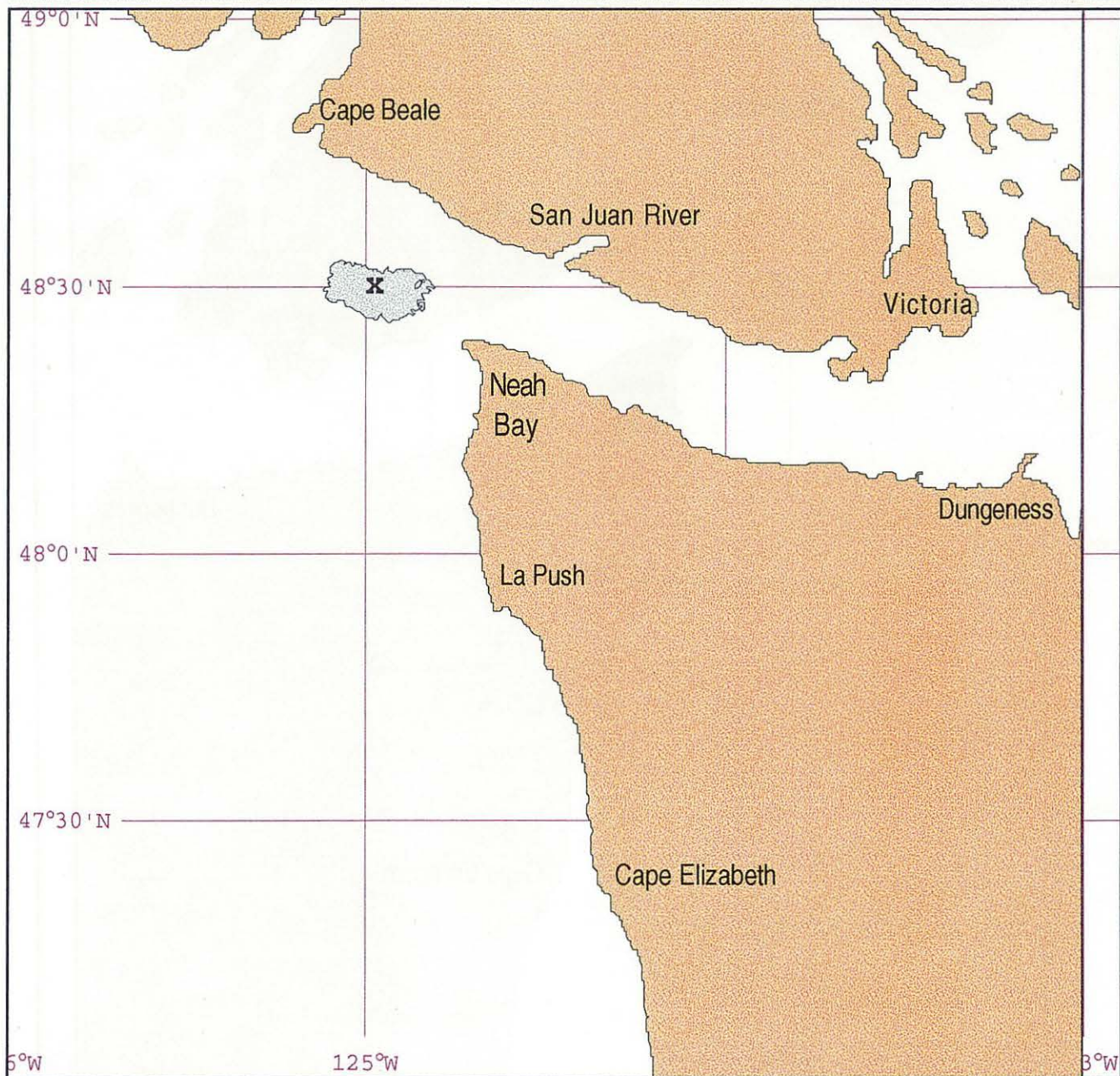


Figure B-110. Map of 4-hour probability contours, summer, 6 percent drift for site 6.

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Summer

Ship drift: 6% of the wind speed representing both wind and wave action

Time: 6-hours

At each site, the contour represents the 95% probability distribution.

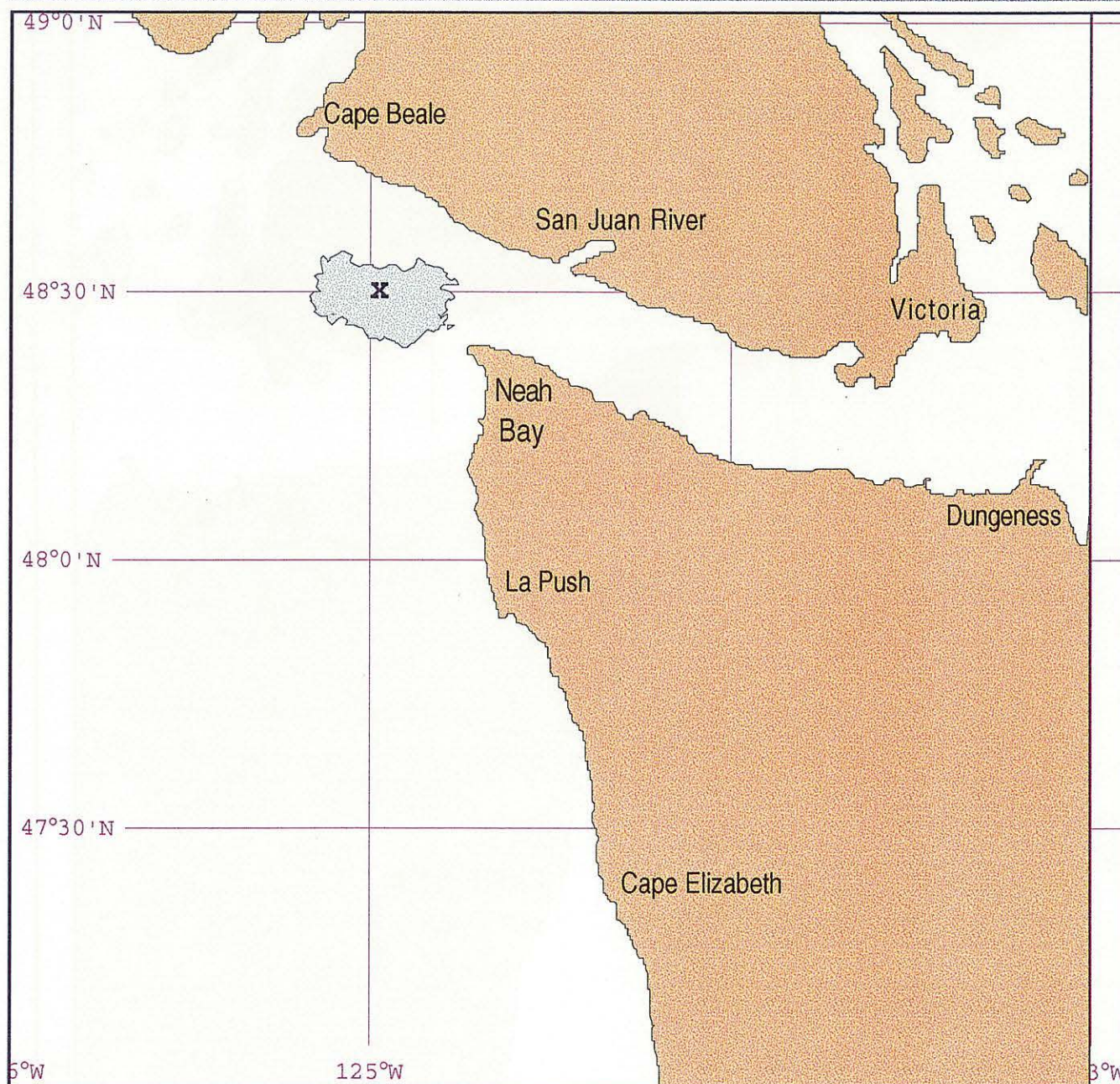


Figure B-111. Map of 6-hour probability contours, summer, 6 percent drift for site 6.

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Summer

Ship drift: 6% of the wind speed representing both wind and wave action

Time: 8-hours

At each site, the contour represents the 95% probability distribution.

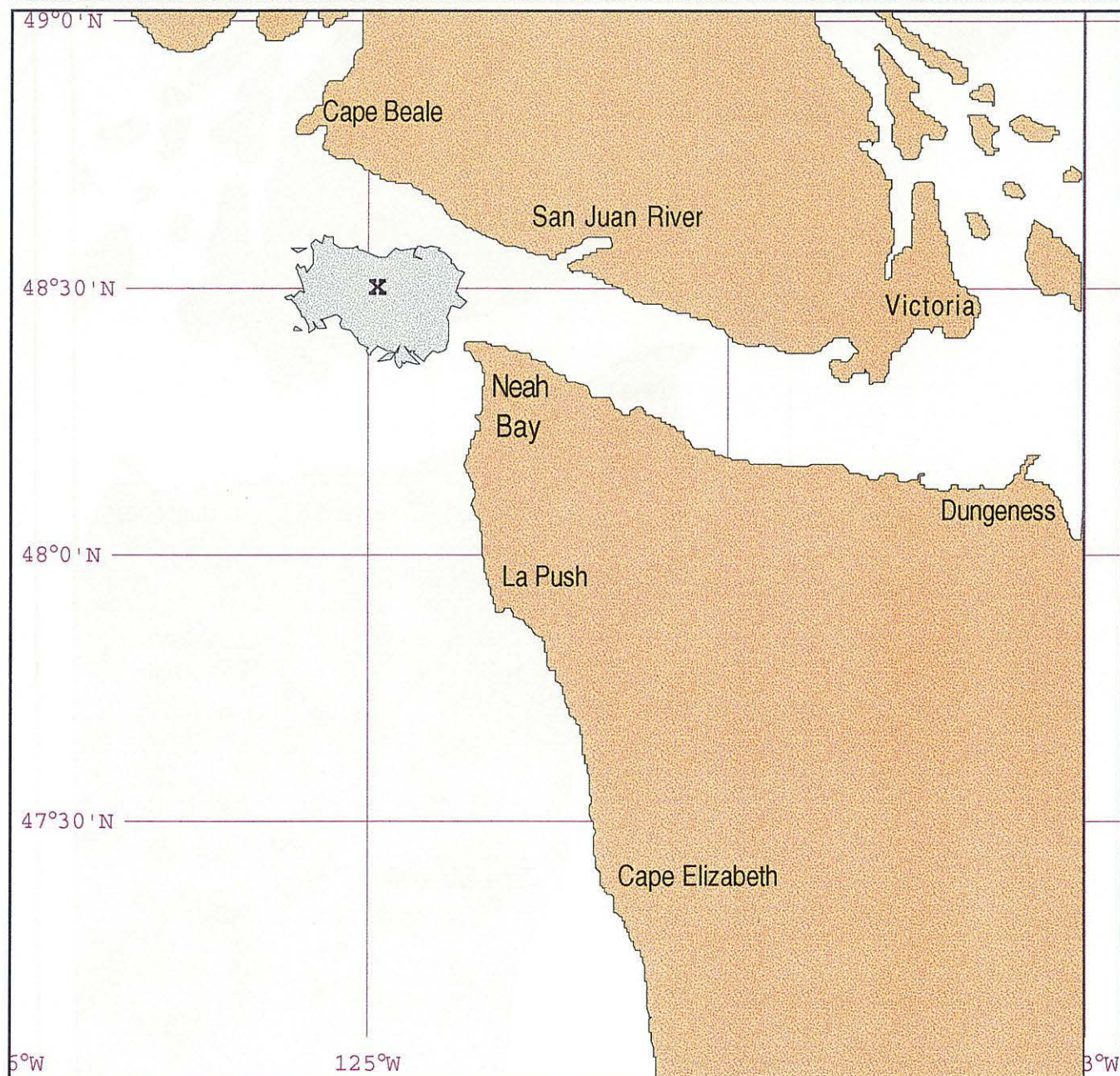


Figure B-112. Map of 8-hour probability contours, summer, 6 percent drift for site 6.

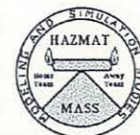
**Ship drift analysis**

Estimate for:

Prepared: ,

MASS Statistical Analysis

NOAA/HAZMAT/MASS (206) 526-6317



Season: Summer

Ship drift: 6% of the wind speed representing both wind and wave action

Time: 12-hours

At each site, the contour represents the 95% probability distribution.

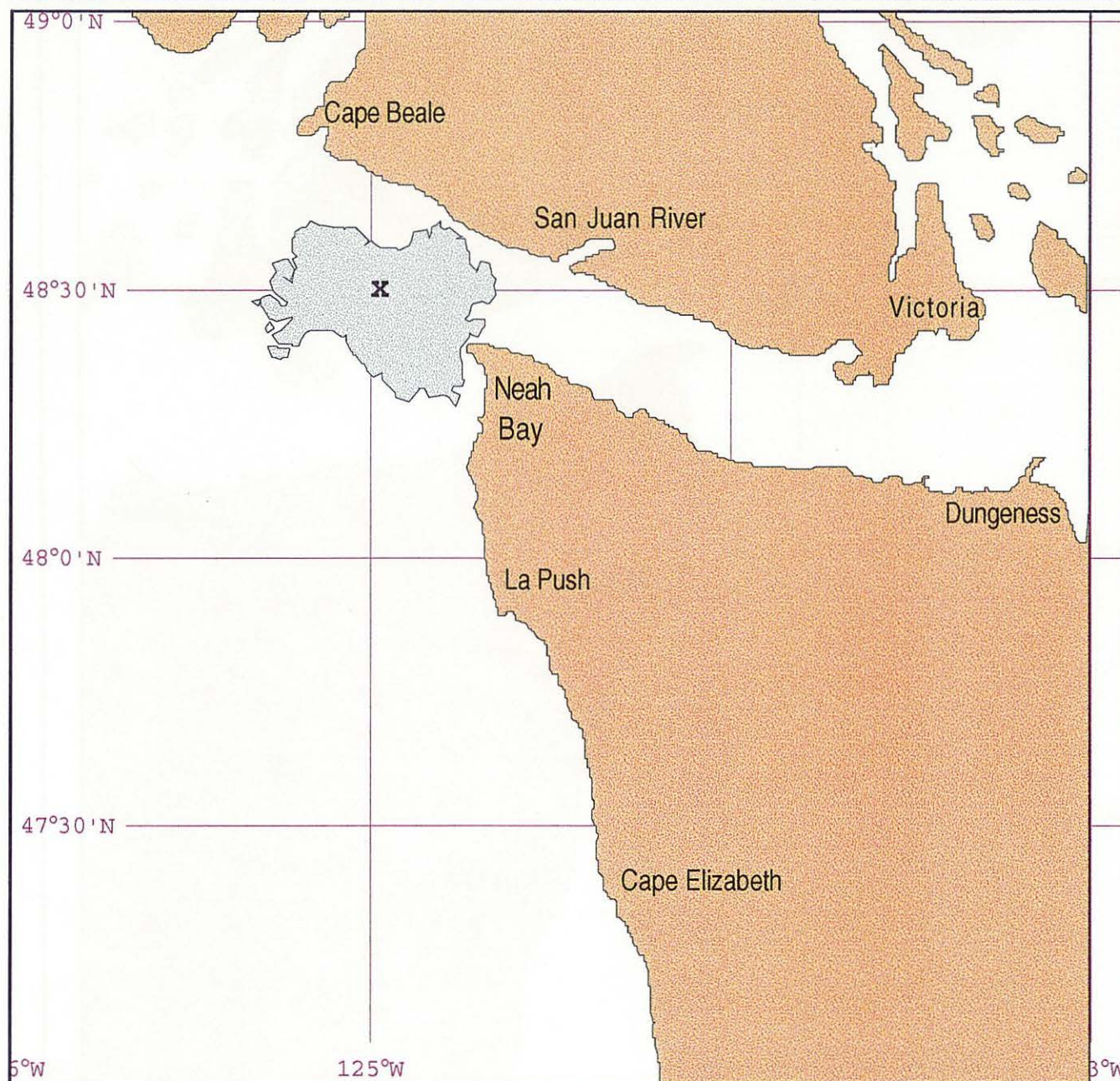


Figure B-113. Map of 12-hour probability contours, summer, 6 percent drift for site 6.

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Summer

Ship drift: 8% of the wind speed representing both wind and wave action

Time: 2-hours

At each site, the contour represents the 95% probability distribution.

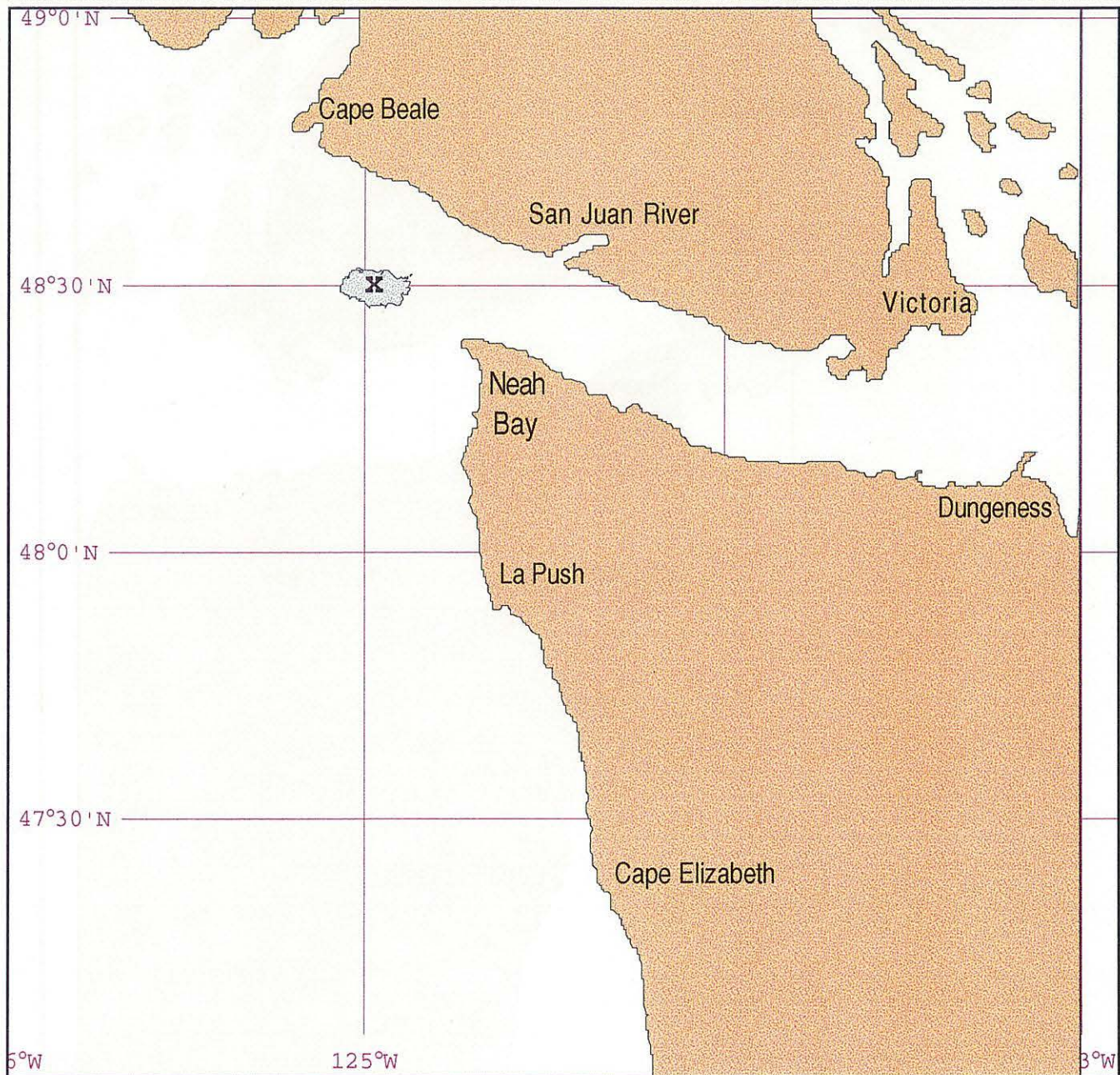


Figure B-114. Map of 2-hour probability contours, summer, 8 percent drift for site 6.

**Ship drift analysis**

Estimate for:

Prepared: ,

MASS Statistical Analysis

NOAA/HAZMAT/MASS (206) 526-6317



Season: Summer

Ship drift: 8% of the wind speed representing both wind and wave action

Time: 4-hours

At each site, the contour represents the 95% probability distribution.

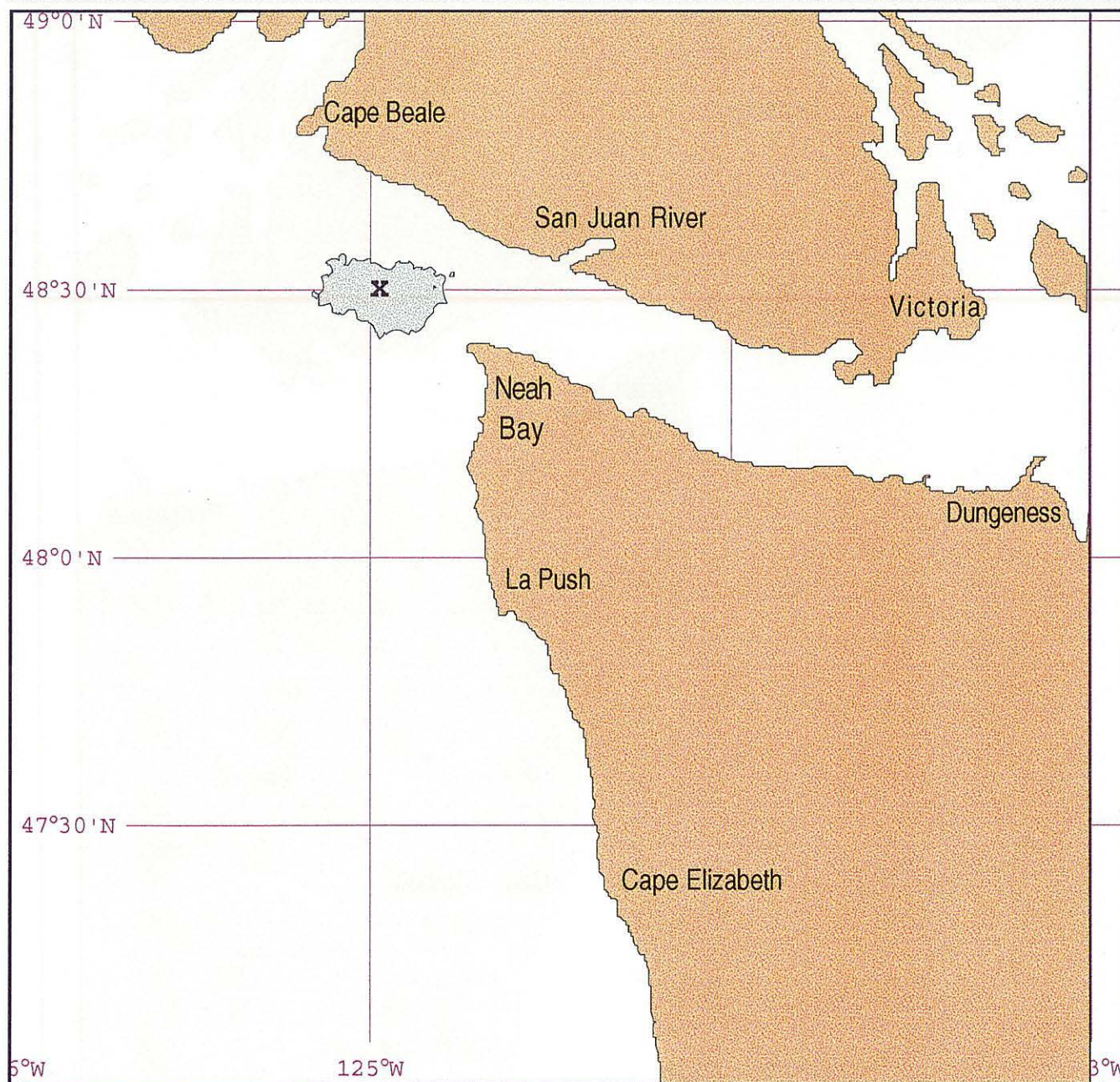


Figure B-115. Map of 4-hour probability contours, summer, 8 percent drift for site 6.



Ship drift analysis

MASS Statistical Analysis

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Summer

Ship drift: 8% of the wind speed representing both wind and wave action

Time: 6-hours

At each site, the contour represents the 95% probability distribution.

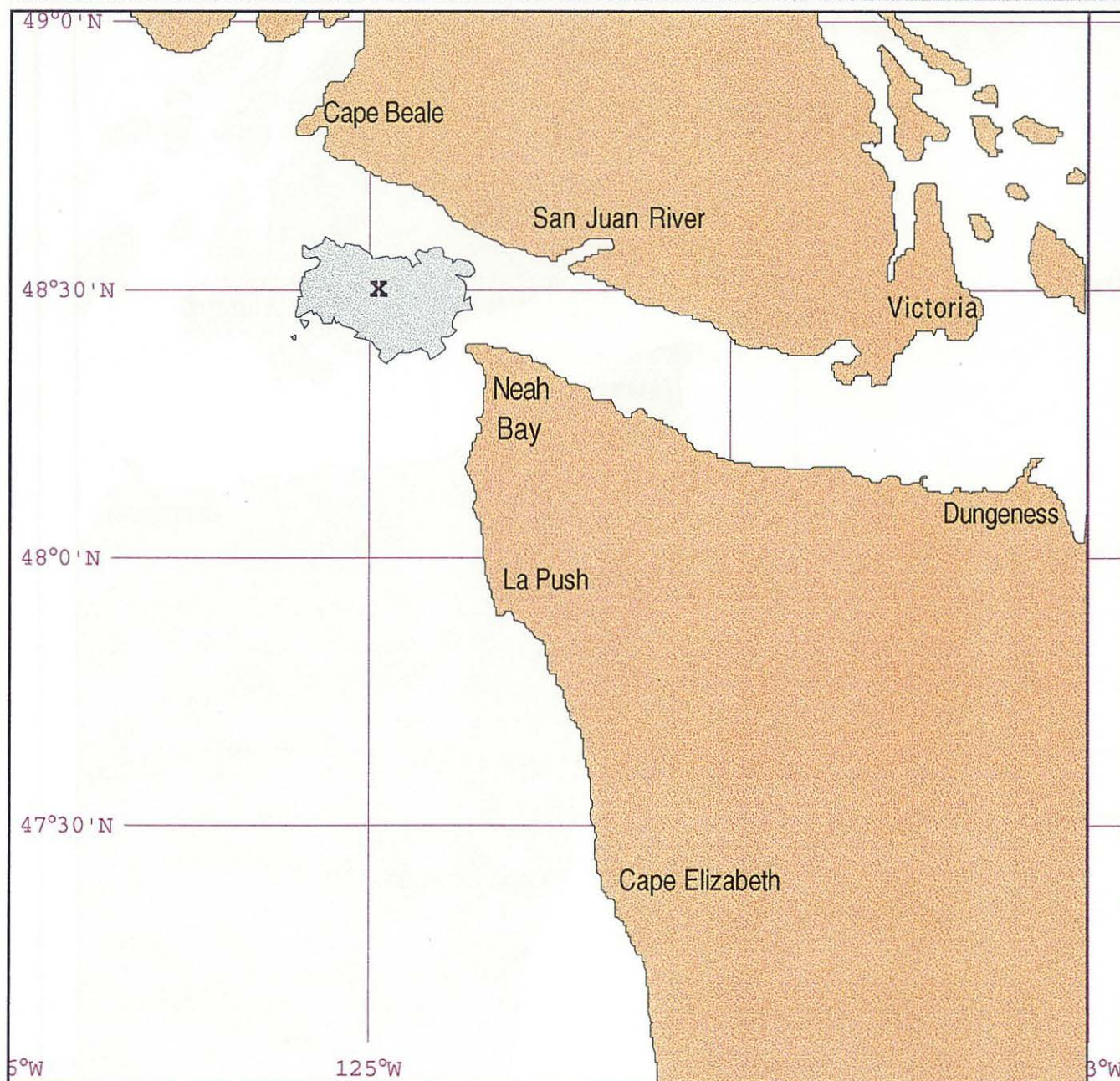


Figure B-116. Map of 6-hour probability contours, summer, 8 percent drift for site 6.

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Summer

Ship drift: 8% of the wind speed representing both wind and wave action

Time: 8-hours

At each site, the contour represents the 95% probability distribution.

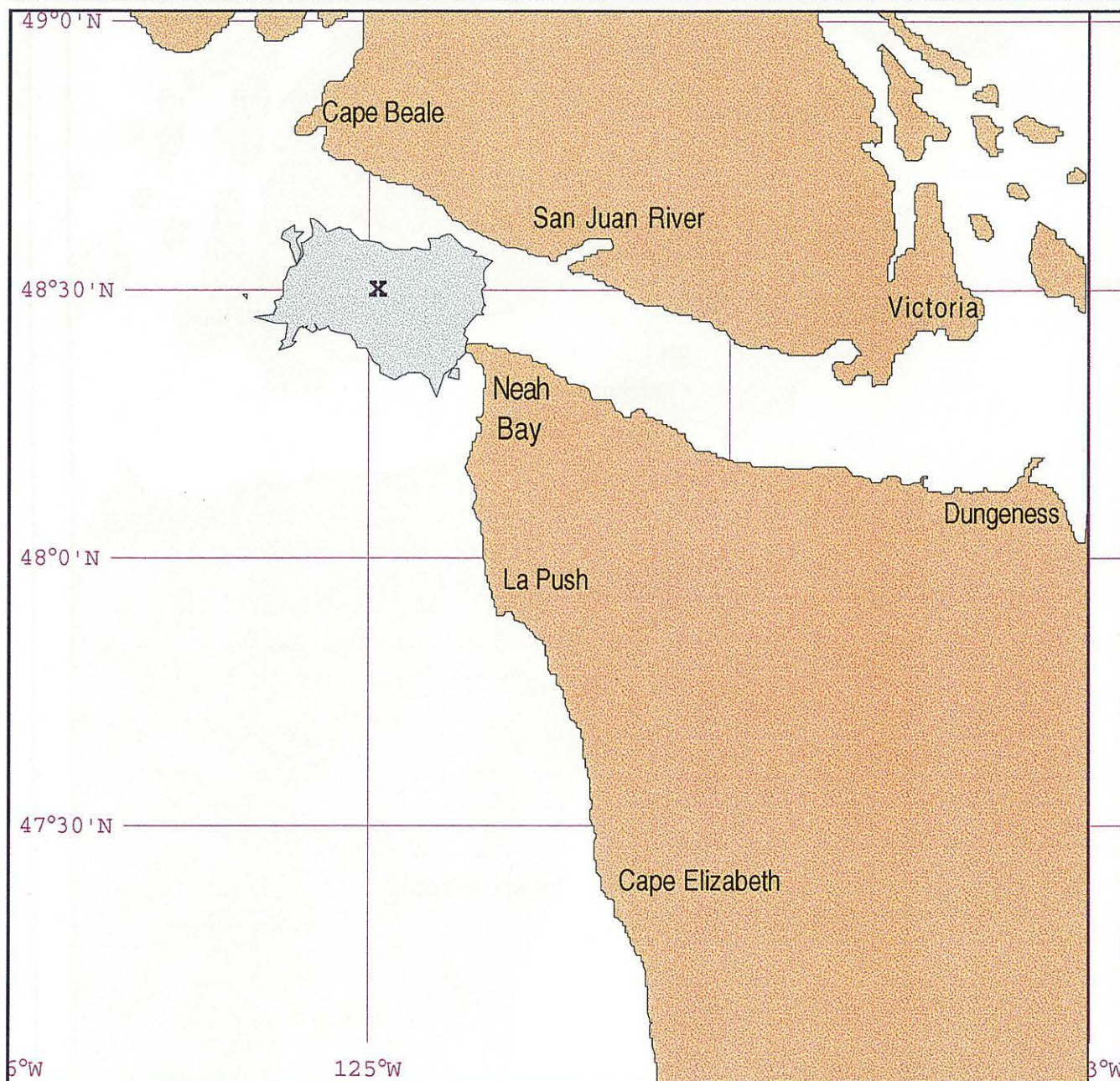


Figure B-117. Map of 8-hour probability contours, summer, 8 percent drift for site 6.



Ship drift analysis

MASS Statistical Analysis



Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317

Season: Summer

Ship drift: 8% of the wind speed representing both wind and wave action

Time: 12-hours

At each site, the contour represents the 95% probability distribution.

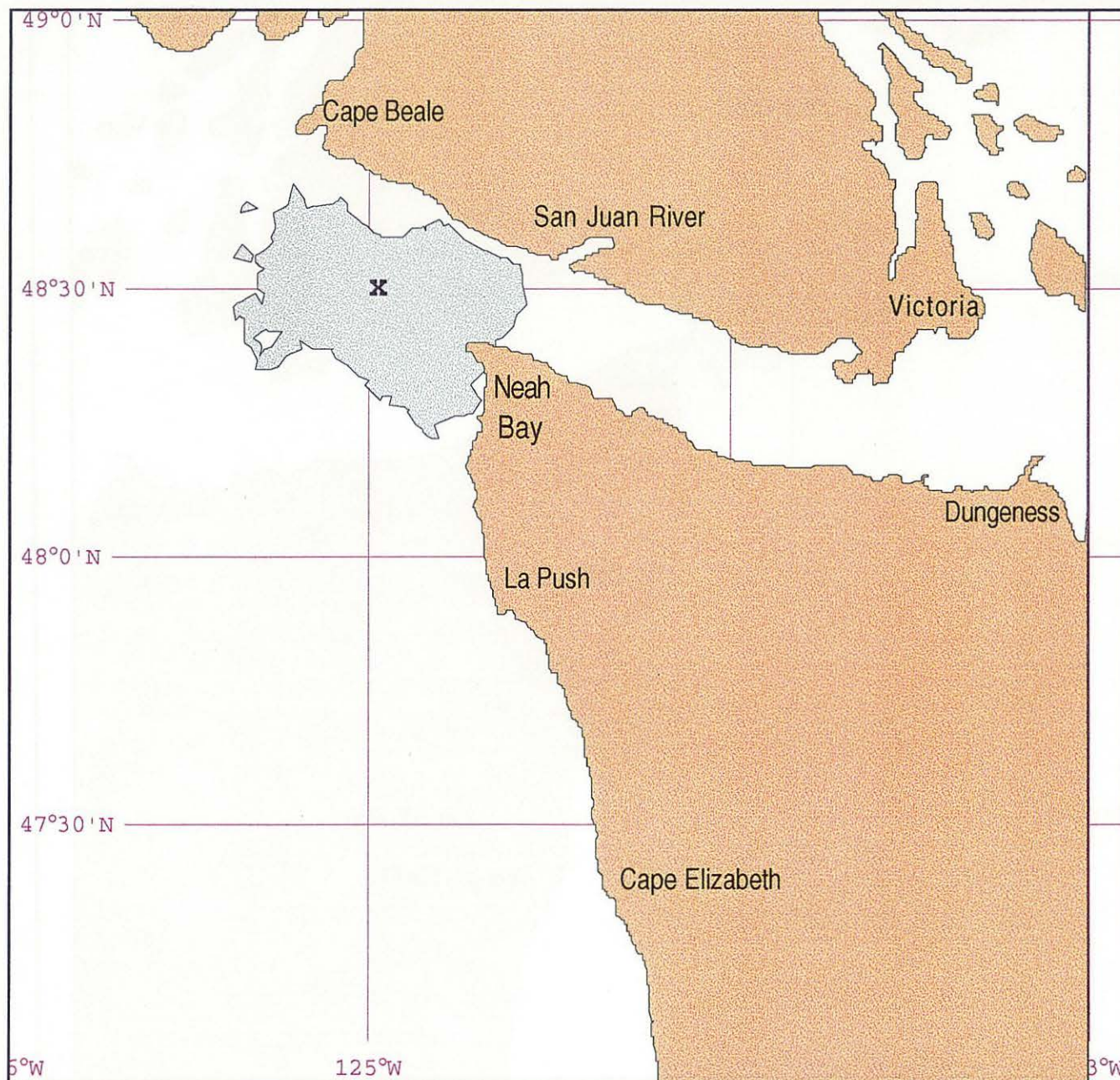


Figure B-118. Map of 12-hour probability contours, summer, 8 percent drift for site 6.

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Summer

Ship drift: 10% of the wind speed representing both wind and wave action

Time: 2-hours

At each site, the contour represents the 95% probability distribution.

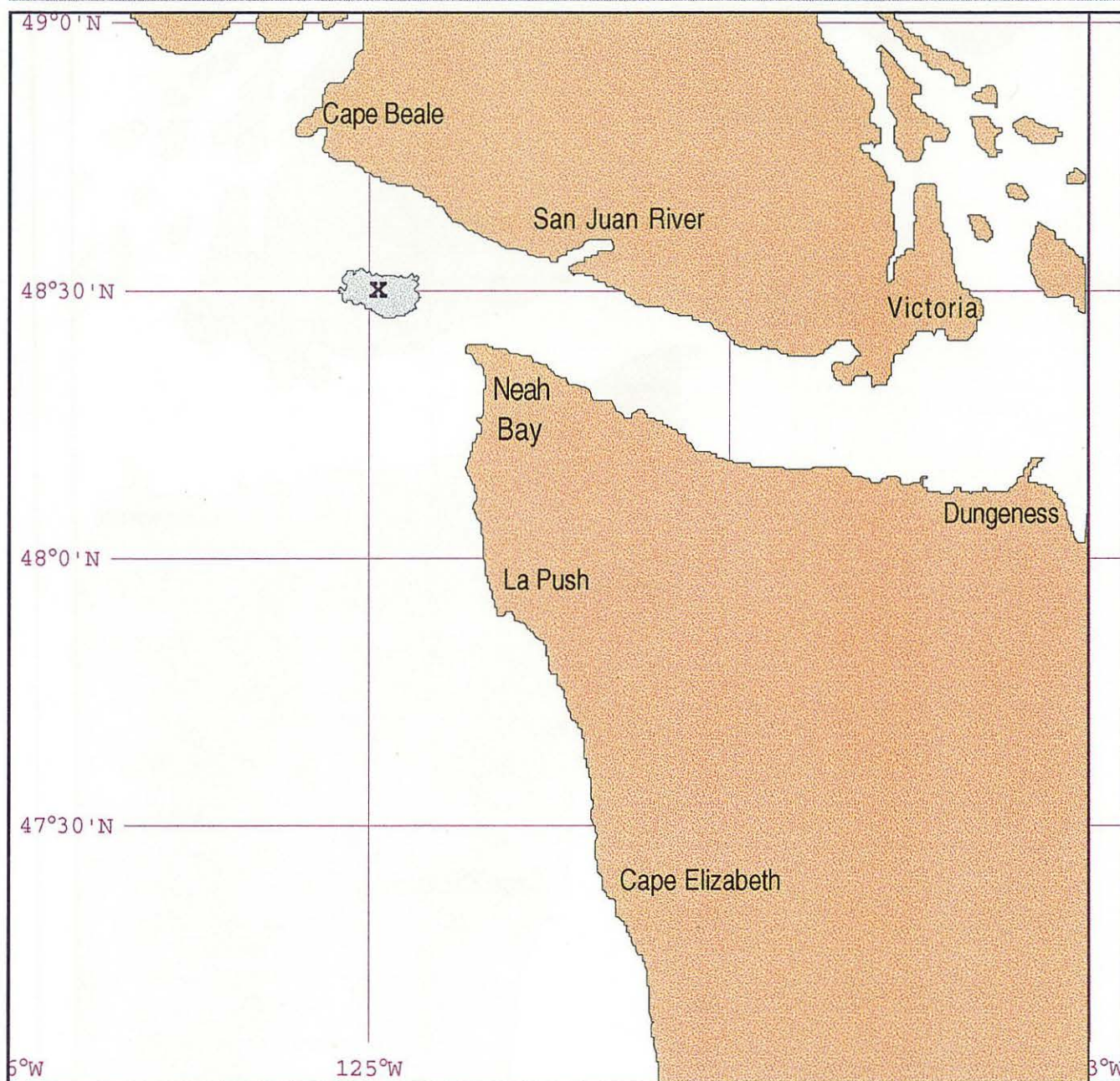


Figure B-119. Map of 2-hour probability contours, summer, 10 percent drift for site 6.

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Summer

Ship drift: 10% of the wind speed representing both wind and wave action

Time: 4-hours

At each site, the contour represents the 95% probability distribution.

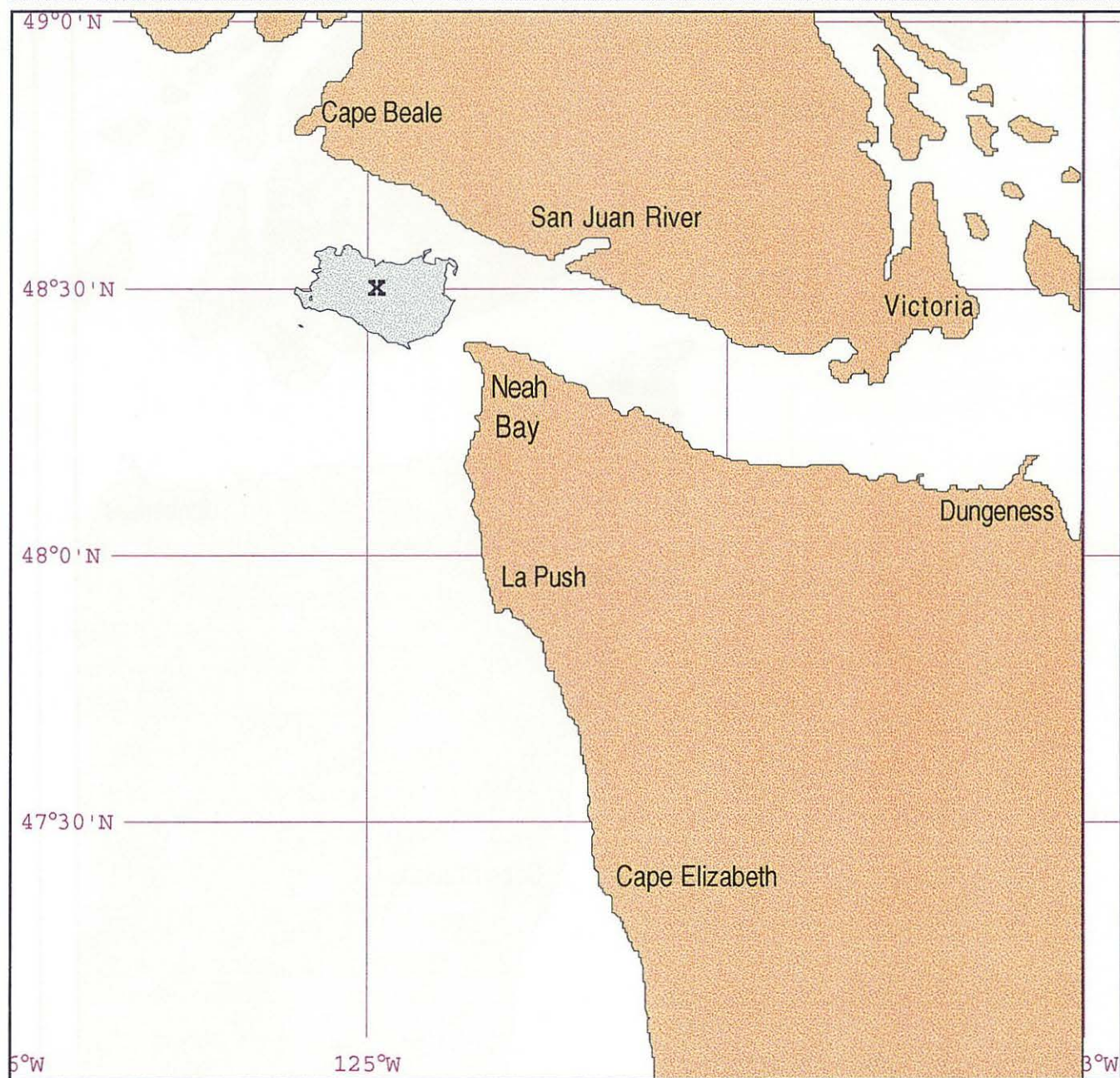


Figure B-120. Map of 4-hour probability contours, summer, 10 percent drift for site 6.

**Ship drift analysis**

Estimate for:

Prepared: ,

MASS Statistical Analysis

NOAA/HAZMAT/MASS (206) 526-6317



Season: Summer

Ship drift: 10% of the wind speed representing both wind and wave action

Time: 6-hours

At each site, the contour represents the 95% probability distribution.

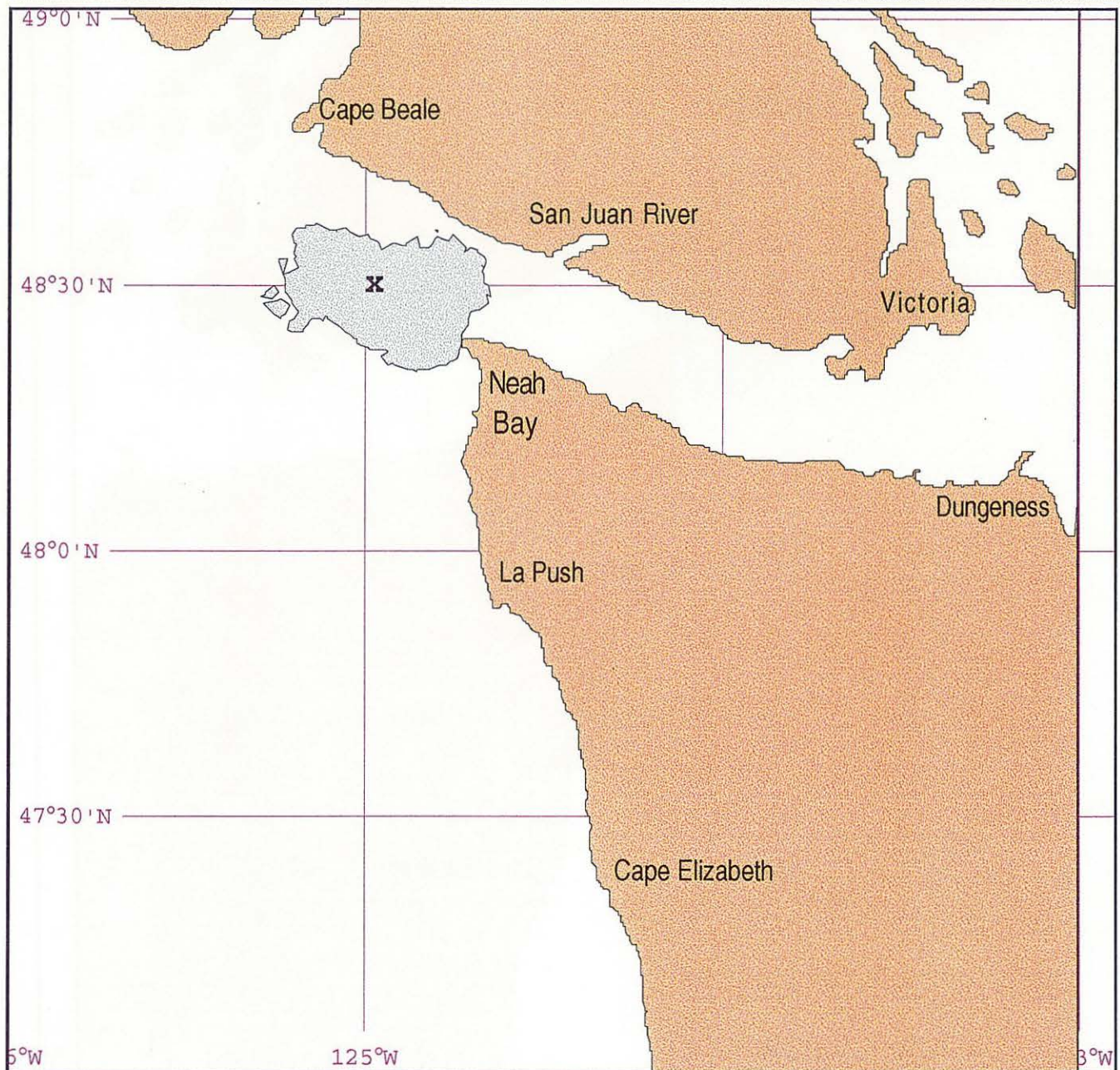


Figure B-121. Map of 6-hour probability contours, summer, 10 percent drift for site 6.

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Summer

Ship drift: 10% of the wind speed representing both wind and wave action

Time: 8-hours

At each site, the contour represents the 95% probability distribution.

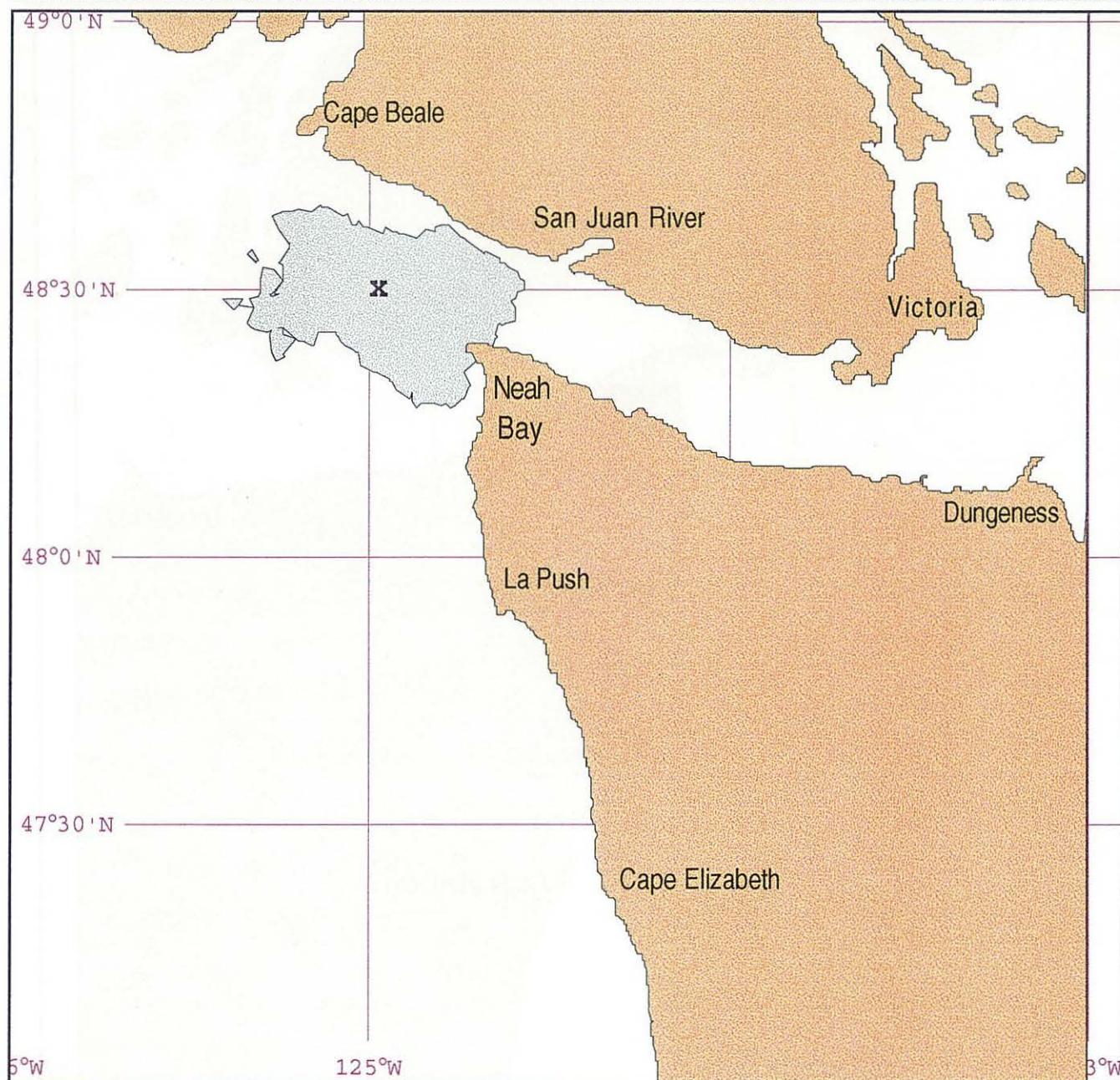


Figure B-122. Map of 8-hour probability contours, summer, 10 percent drift for site 6.

**Ship drift analysis**

Estimate for:

Prepared: ,

MASS Statistical Analysis

NOAA/HAZMAT/MASS (206) 526-6317



Season: Summer

Ship drift: 10% of the wind speed representing both wind and wave action

Time: 12-hours

At each site, the contour represents the 95% probability distribution.

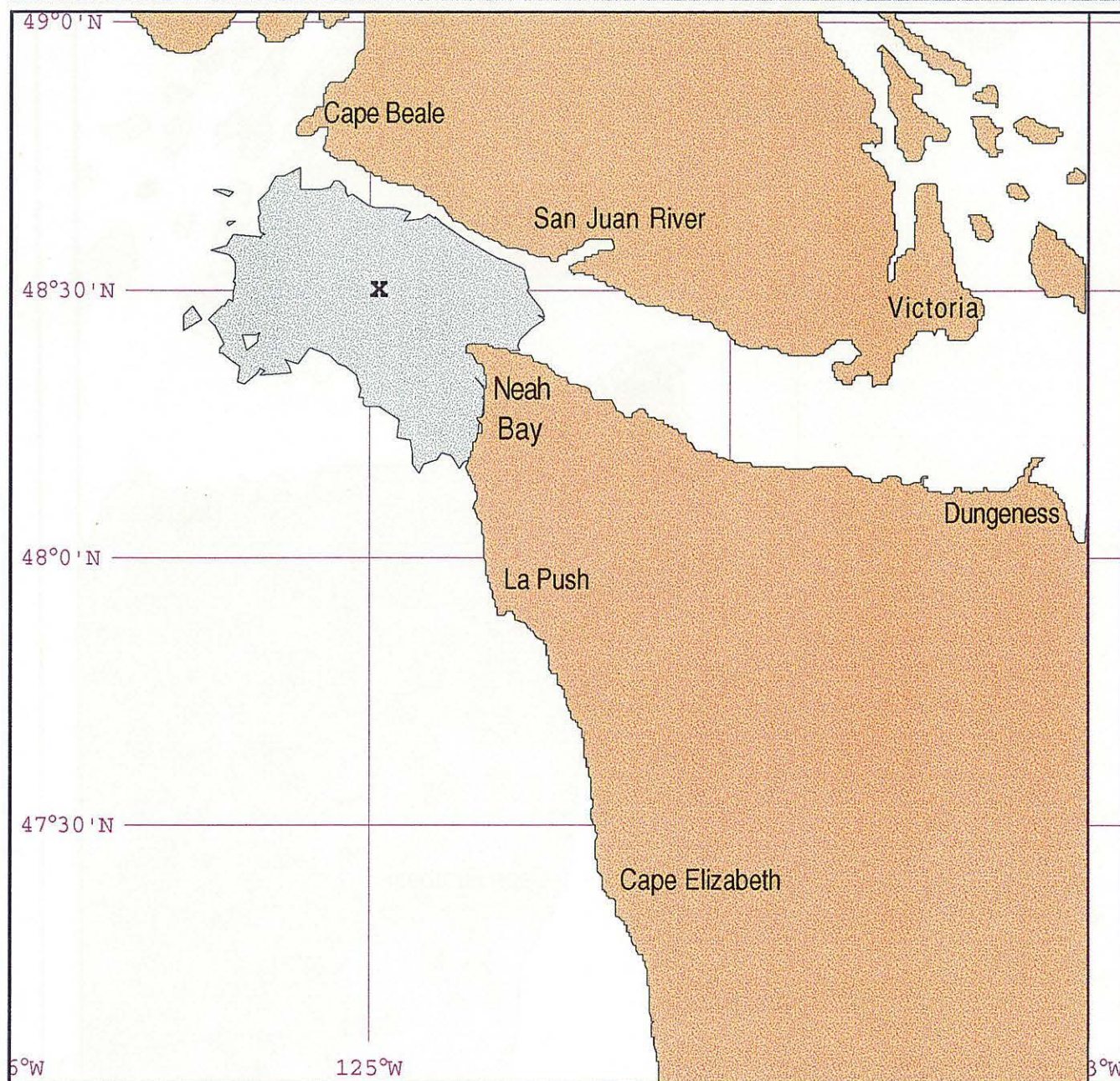


Figure B-123. Map of 12-hour probability contours, summer, 10 percent drift for site 6.

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Fall

Ship drift: 2% of the wind speed representing both wind and wave action

Time: 2-hours

At each site, the contour represents the 95% probability distribution.

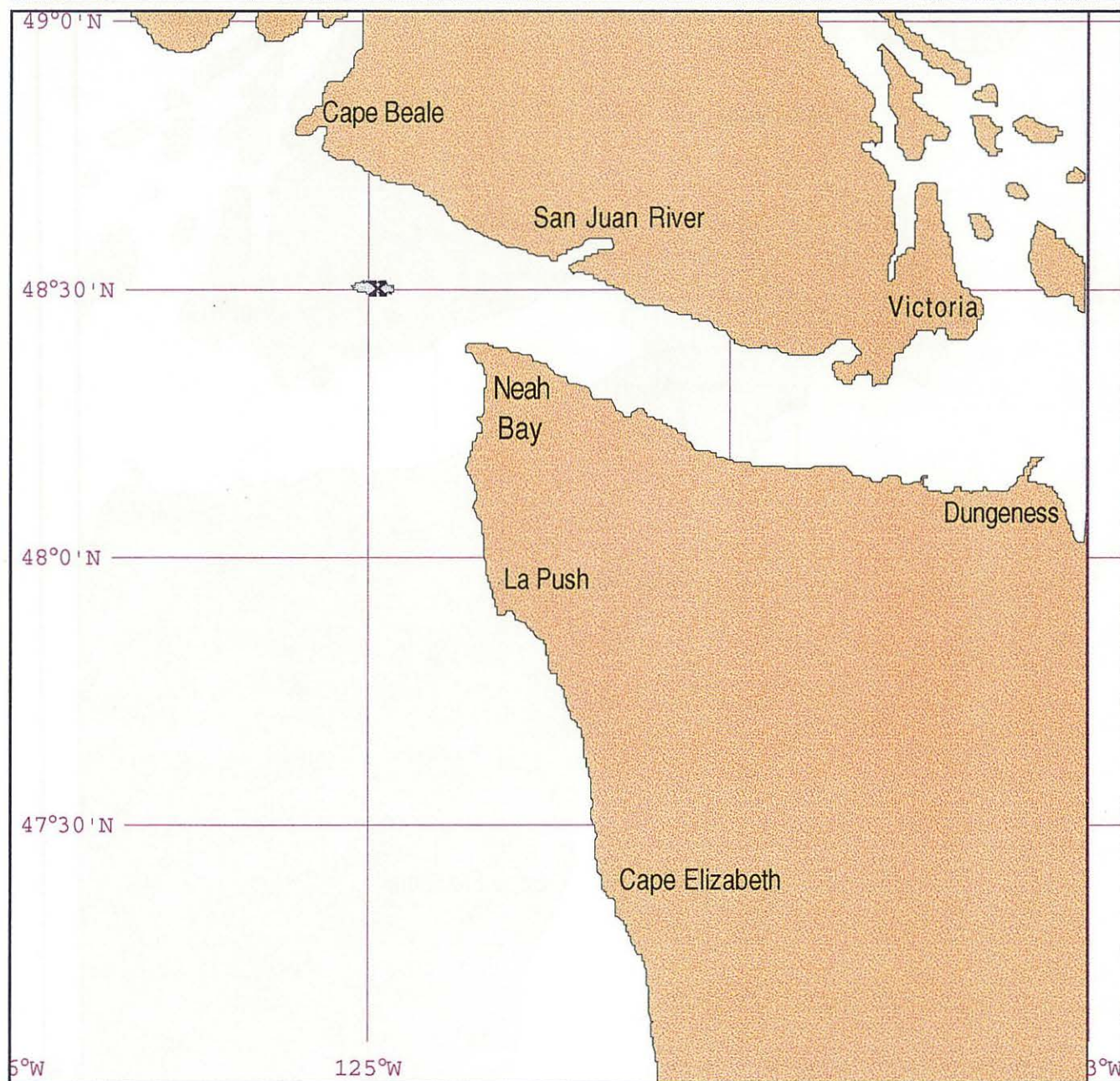


Figure B-124. Map of 2-hour probability contours, fall, 2 percent drift for site 6.

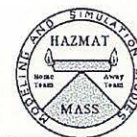
**Ship drift analysis**

Estimate for:

Prepared: ,

MASS Statistical Analysis

NOAA/HAZMAT/MASS (206) 526-6317



Season: Fall

Ship drift: 2% of the wind speed representing both wind and wave action

Time: 4-hours

At each site, the contour represents the 95% probability distribution.

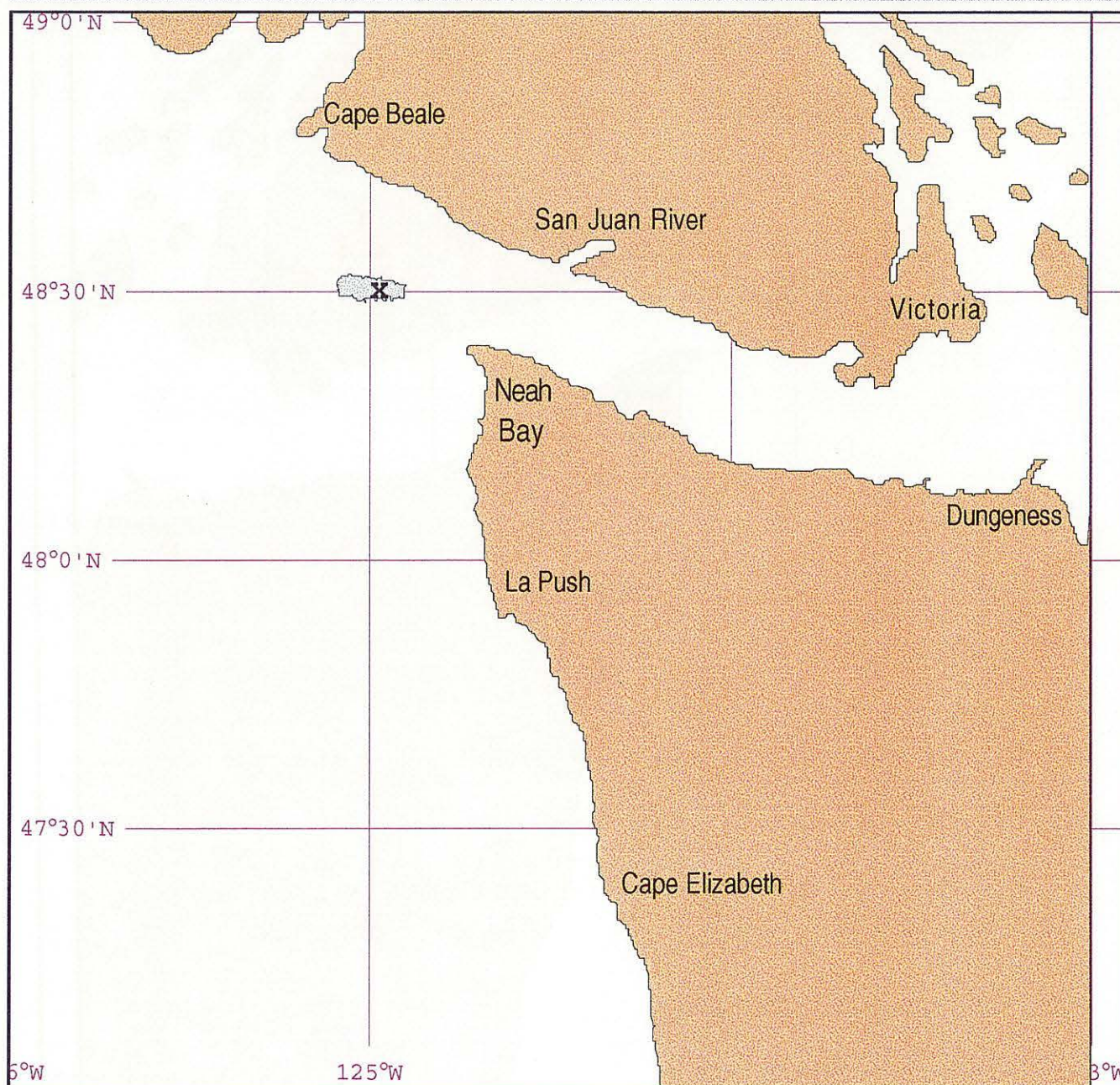


Figure B-125. Map of 4-hour probability contours, fall, 2 percent drift for site 6.



Ship drift analysis

MASS Statistical Analysis



Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317

Season: Fall

Ship drift: 2% of the wind speed representing both wind and wave action

Time: 6-hours

At each site, the contour represents the 95% probability distribution.

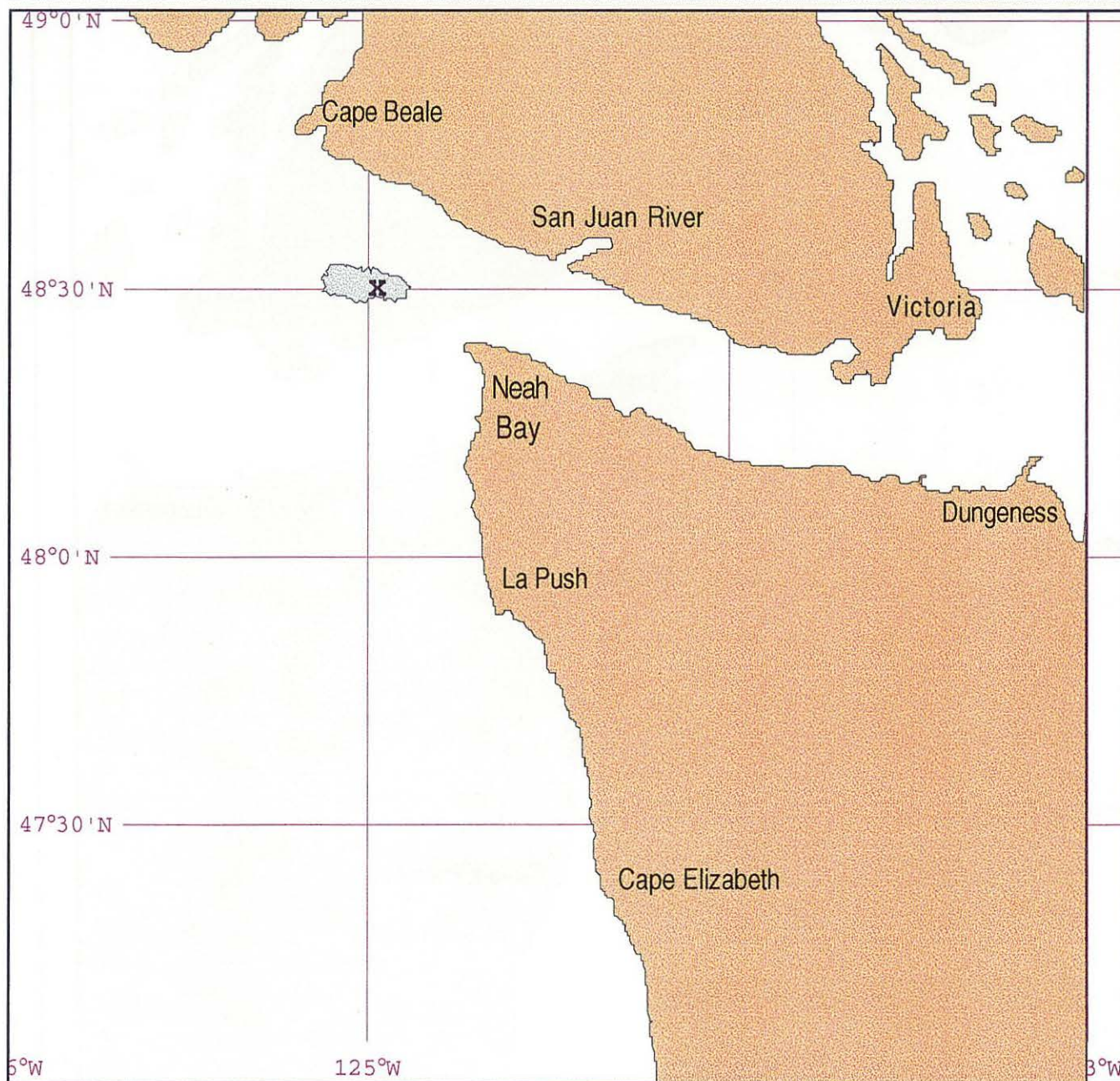


Figure B-126. Map of 6-hour probability contours, fall, 2 percent drift for site 6.

**Ship drift analysis**

Estimate for:

Prepared: ,

MASS Statistical Analysis

NOAA/HAZMAT/MASS (206) 526-6317



Season: Fall

Ship drift: 2% of the wind speed representing both wind and wave action

Time: 8-hours

At each site, the contour represents the 95% probability distribution.

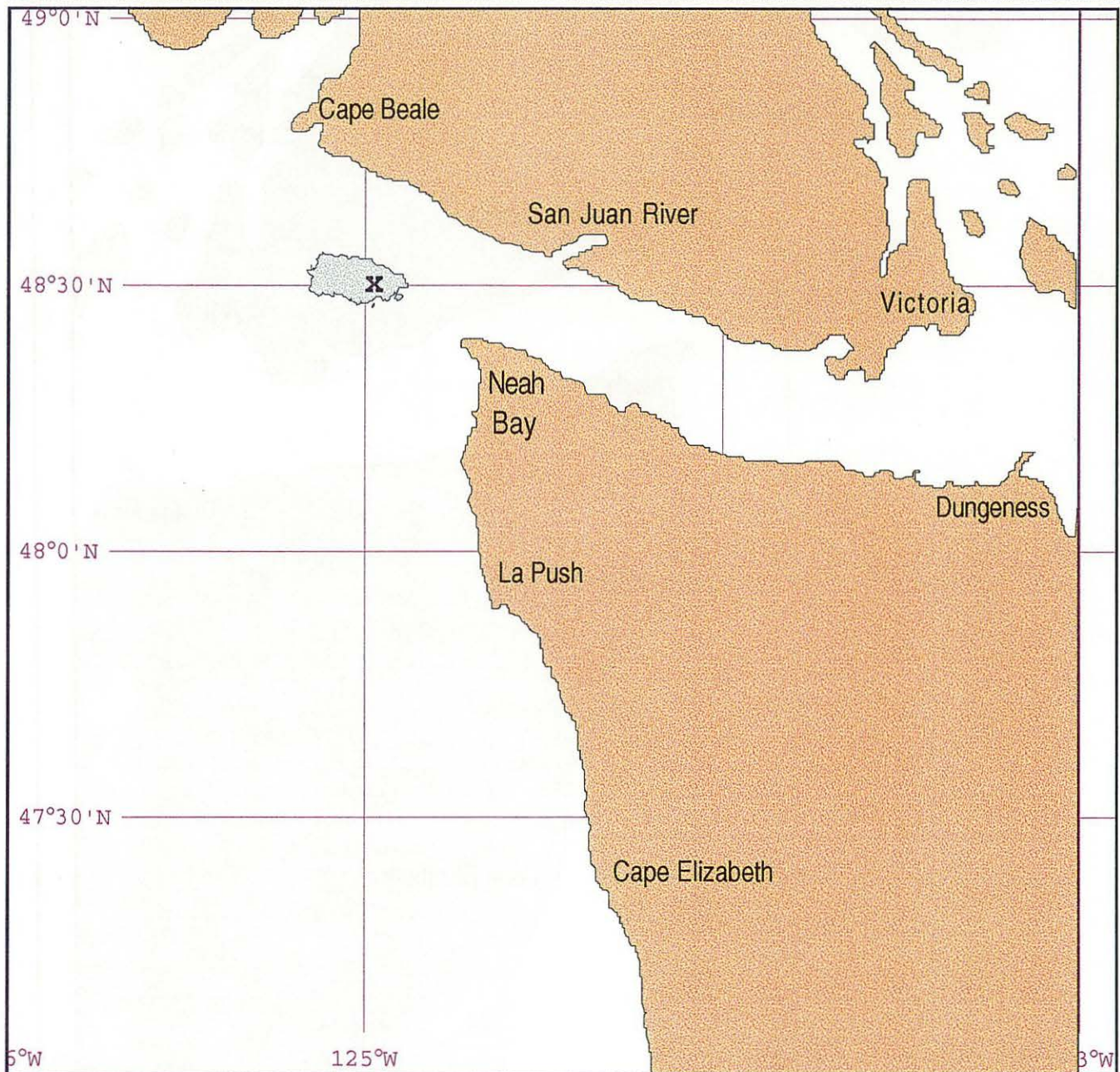


Figure B-127. Map of 8-hour probability contours, fall, 2 percent drift for site 6.

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Fall

Ship drift: 2% of the wind speed representing both wind and wave action

Time: 12-hours

At each site, the contour represents the 95% probability distribution.

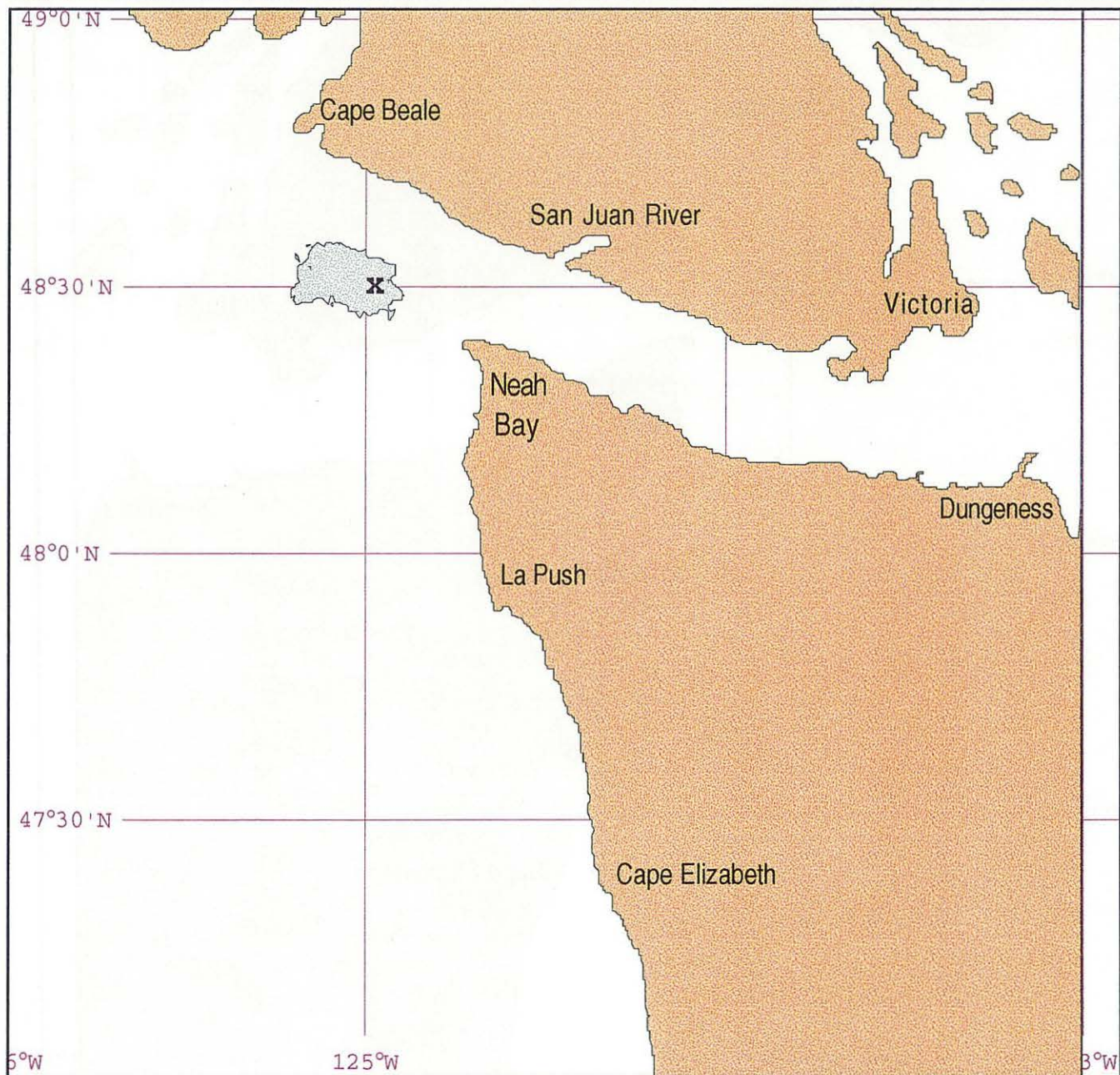


Figure B-128. Map of 12-hour probability contours, fall, 2 percent drift for site 6.

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Fall

Ship drift: 4% of the wind speed representing both wind and wave action

Time: 2-hours

At each site, the contour represents the 95% probability distribution.

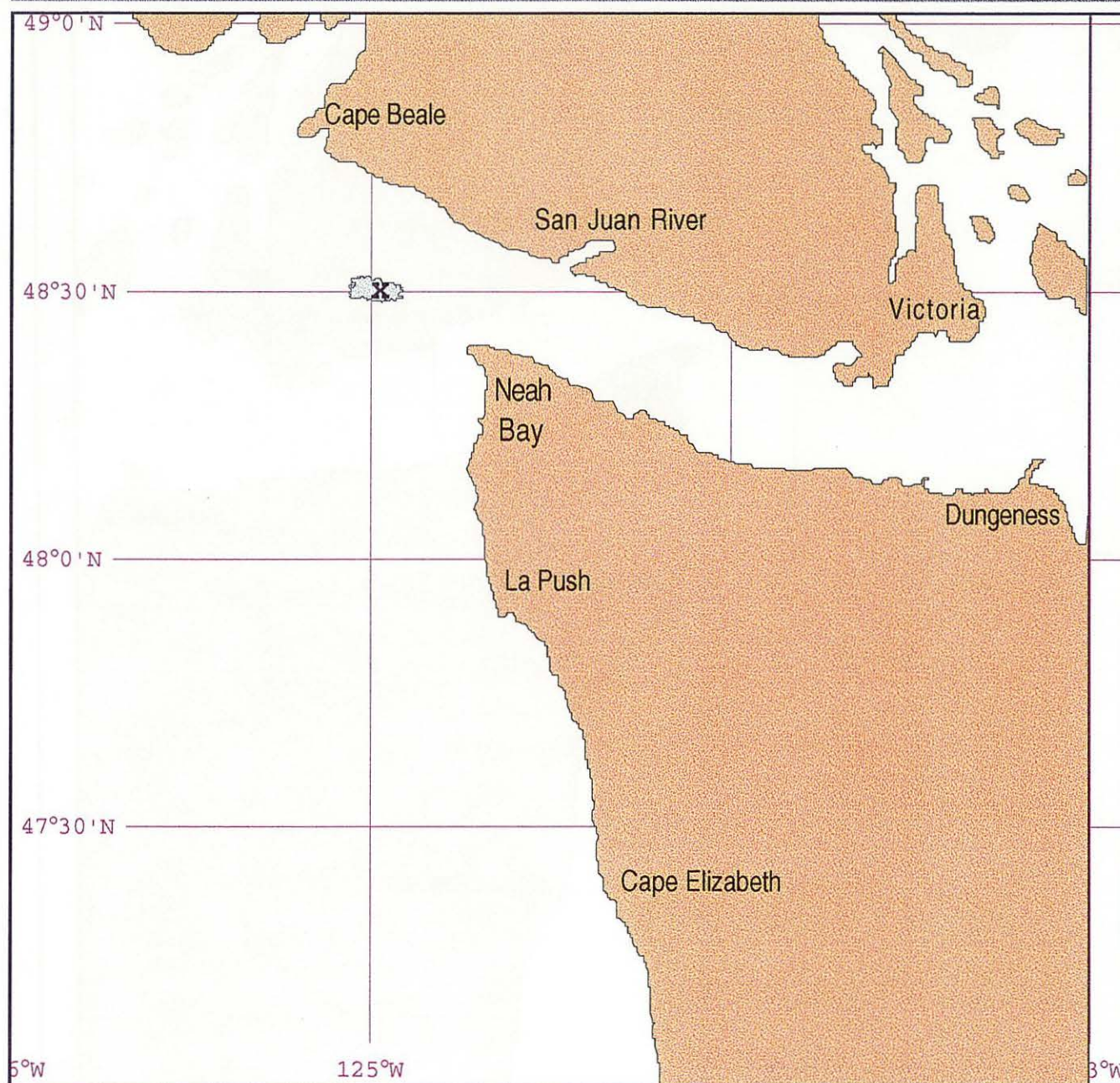


Figure B-129. Map of 2-hour probability contours, fall, 4 percent drift for site 6.

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Fall

Ship drift: 4% of the wind speed representing both wind and wave action

Time: 4-hours

At each site, the contour represents the 95% probability distribution.

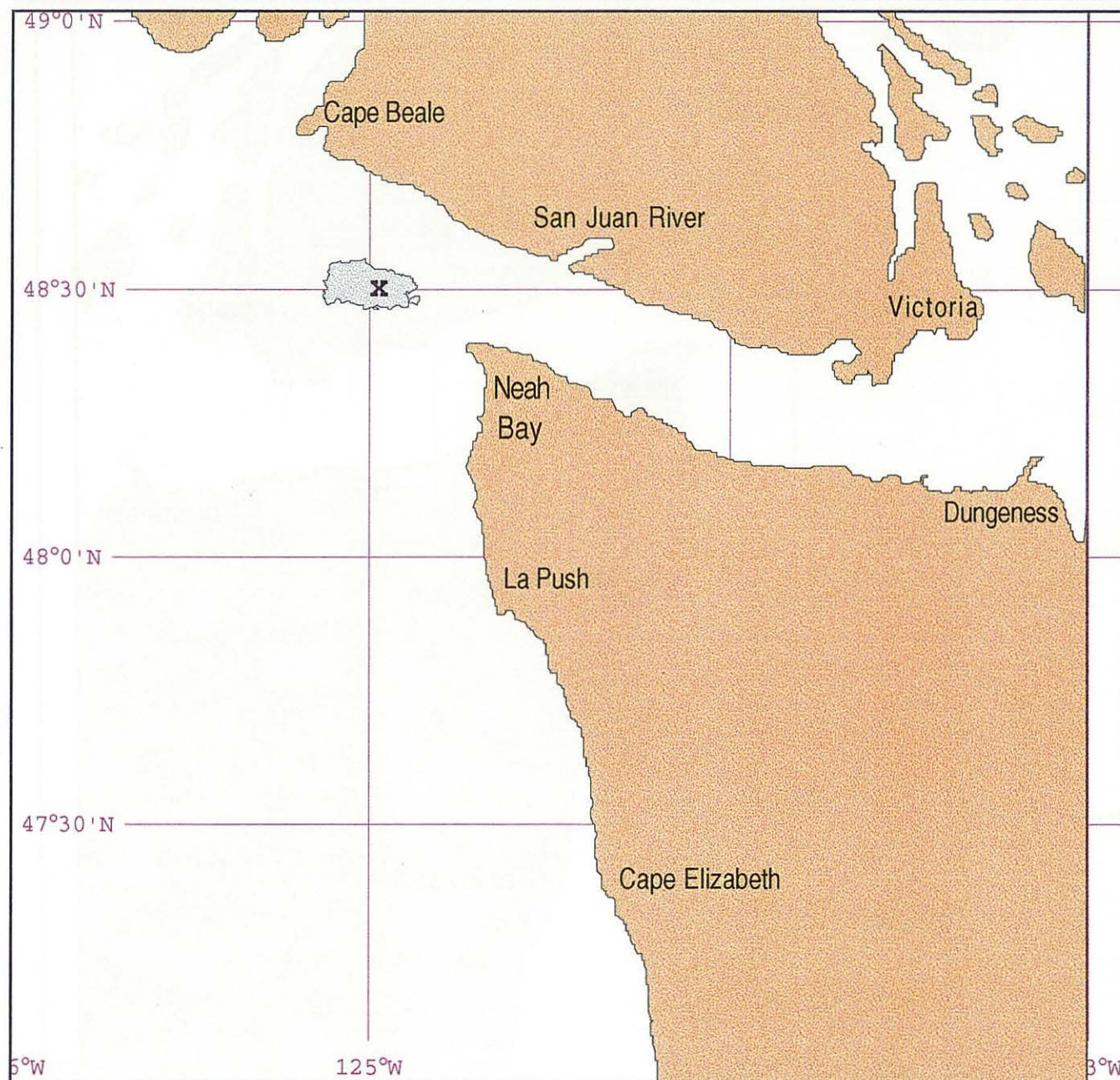


Figure B-130. Map of 4-hour probability contours, fall, 4 percent drift for site 6.

**Ship drift analysis**

Estimate for:

Prepared: ,

MASS Statistical Analysis

NOAA/HAZMAT/MASS (206) 526-6317



Season: Fall

Ship drift: 4% of the wind speed representing both wind and wave action

Time: 6-hours

At each site, the contour represents the 95% probability distribution.

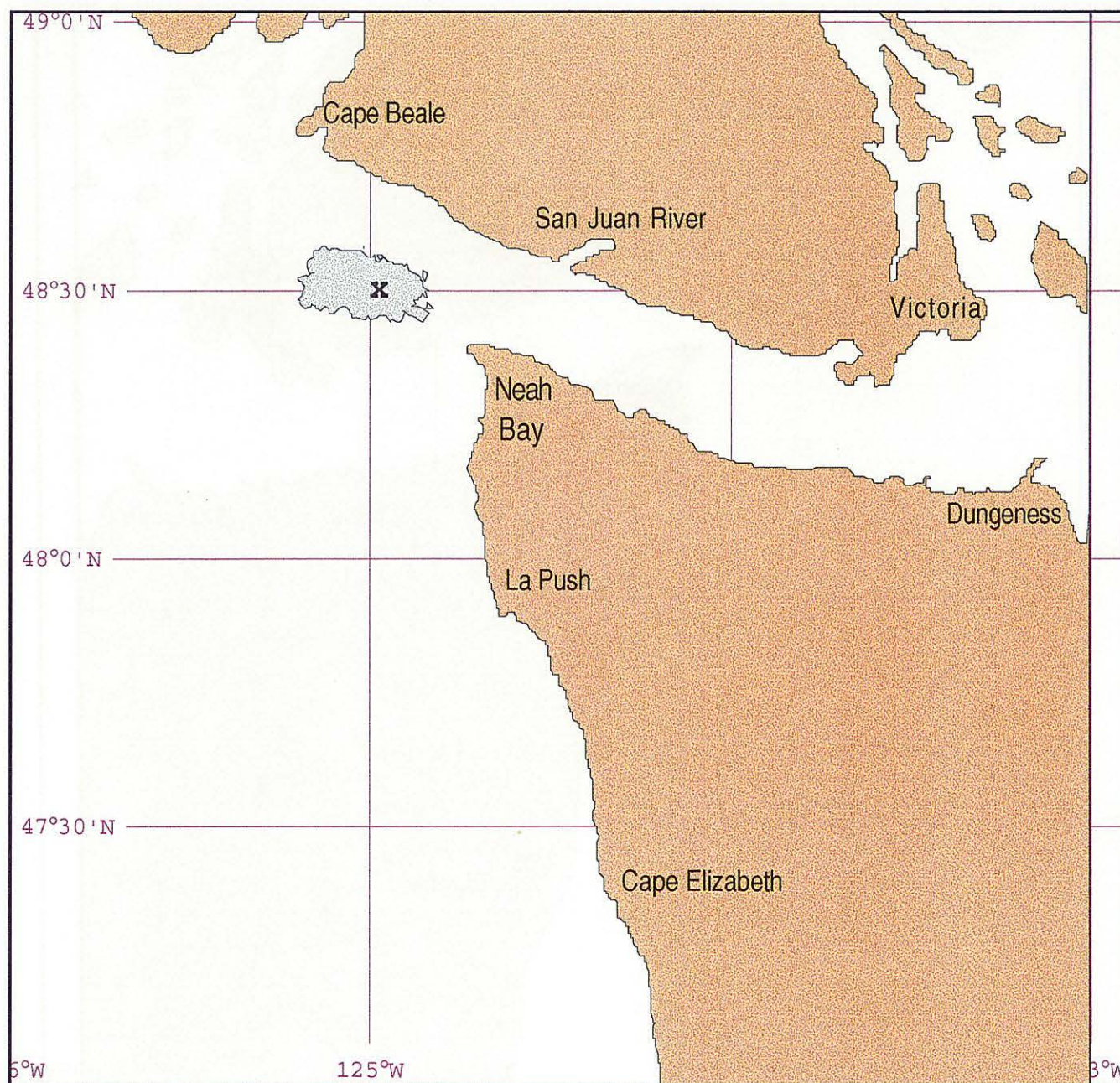


Figure B-131. Map of 6-hour probability contours, fall, 4 percent drift for site 6.

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Fall

Ship drift: 4% of the wind speed representing both wind and wave action

Time: 8-hours

At each site, the contour represents the 95% probability distribution.

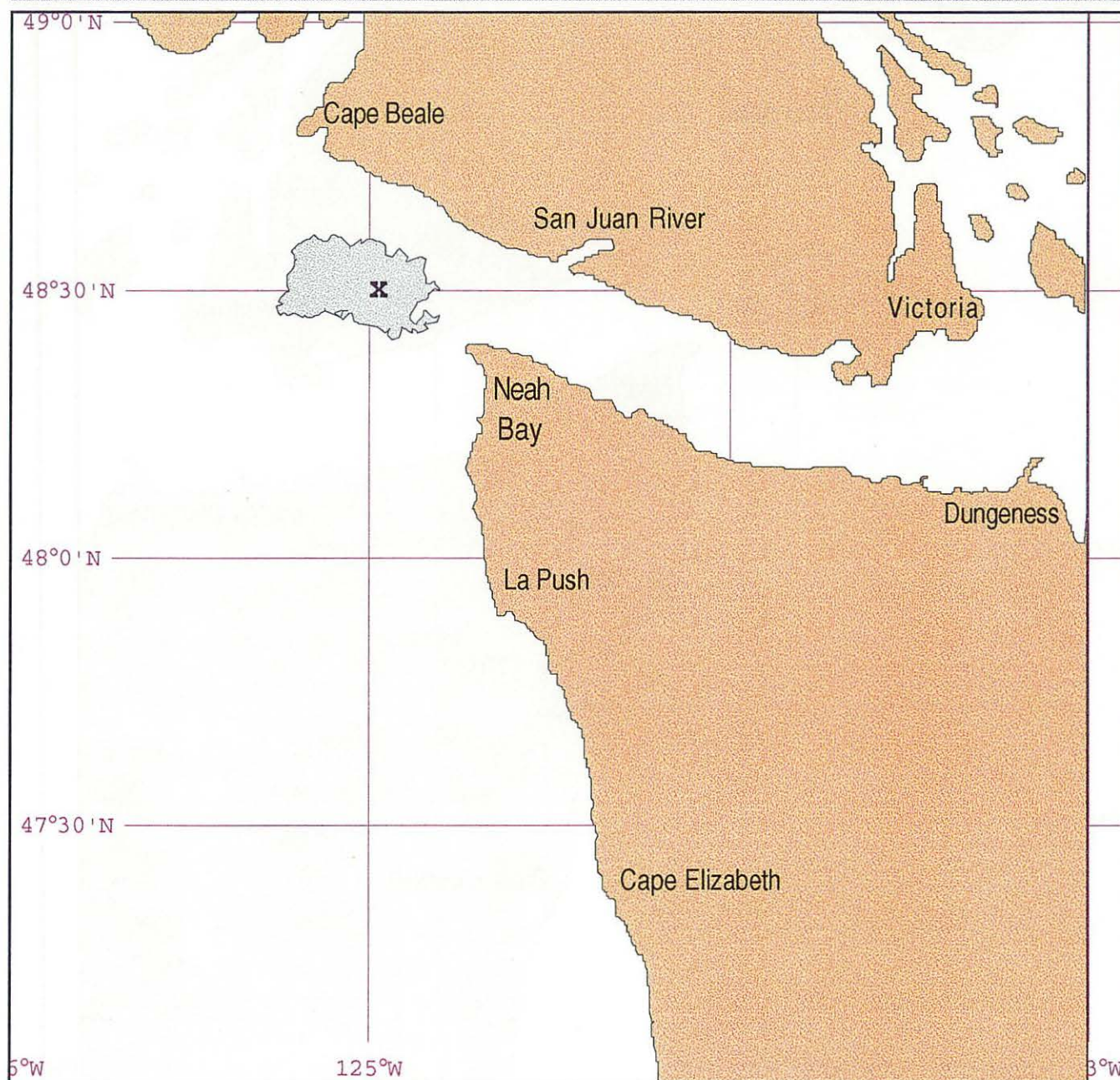


Figure B-132. Map of 8-hour probability contours, fall, 4 percent drift for site 6.

**Ship drift analysis**

Estimate for:

Prepared: ,

MASS Statistical Analysis

NOAA/HAZMAT/MASS (206) 526-6317



Season: Fall

Ship drift: 4% of the wind speed representing both wind and wave action

Time: 12-hours

At each site, the contour represents the 95% probability distribution.

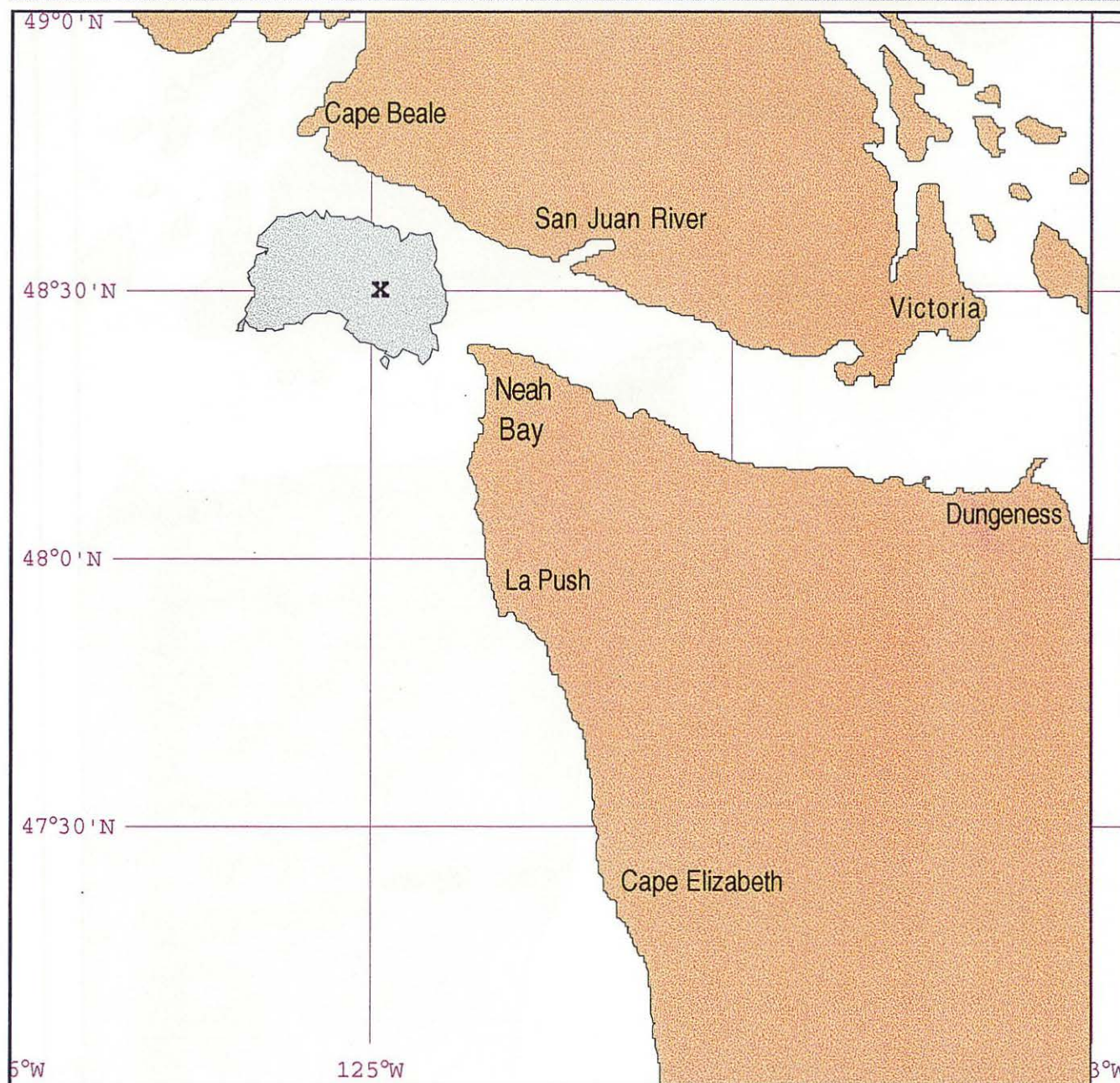


Figure B-133. Map of 12-hour probability contours, fall, 4 percent drift for site 6.

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Fall

Ship drift: 6% of the wind speed representing both wind and wave action

Time: 2-hours

At each site, the contour represents the 95% probability distribution.

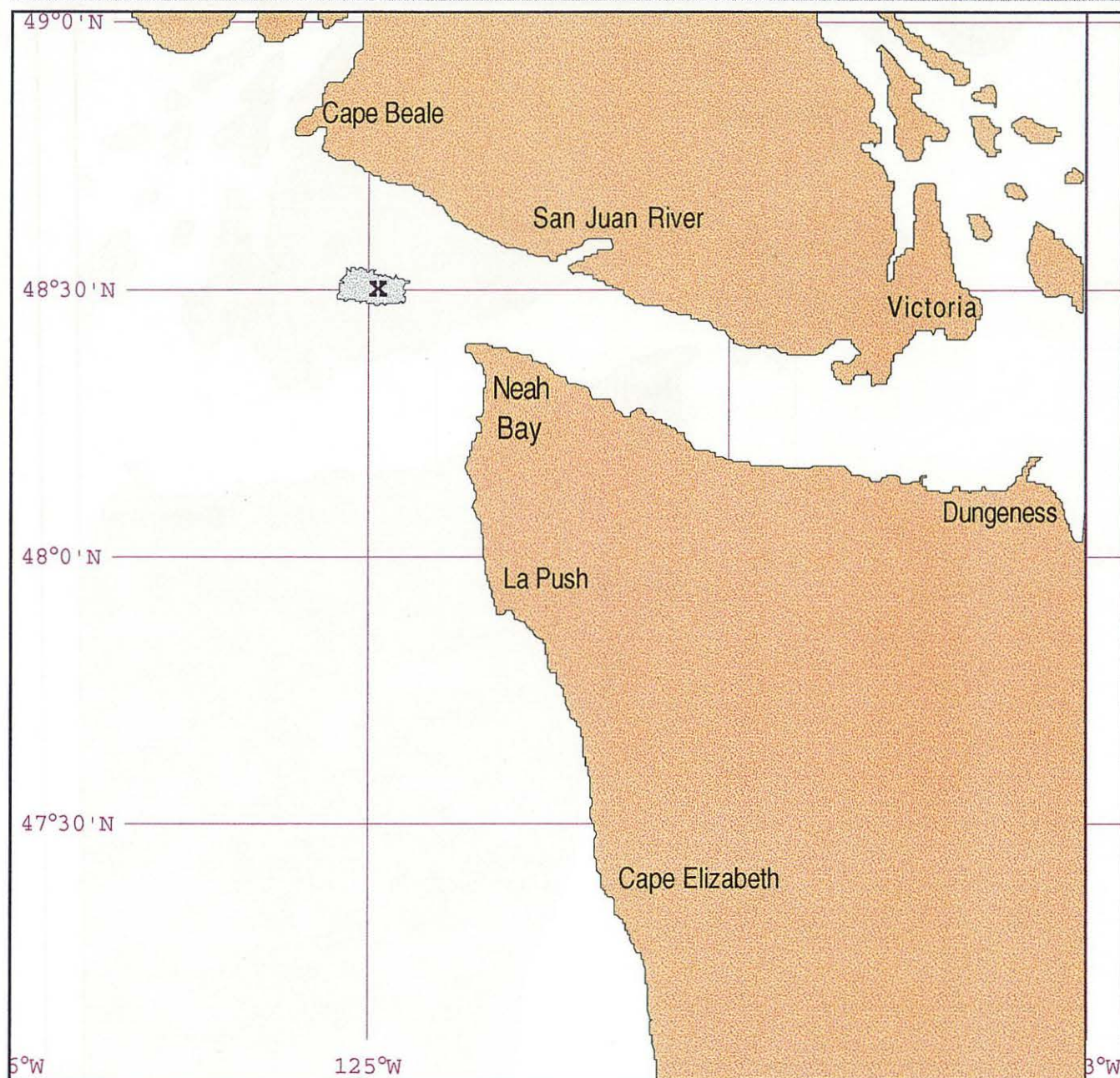


Figure B-134. Map of 2-hour probability contours, fall, 6 percent drift for site 6.

**Ship drift analysis**

Estimate for:

Prepared: ,

MASS Statistical Analysis

NOAA/HAZMAT/MASS (206) 526-6317



Season: Fall

Ship drift: 6% of the wind speed representing both wind and wave action

Time: 4-hours

At each site, the contour represents the 95% probability distribution.

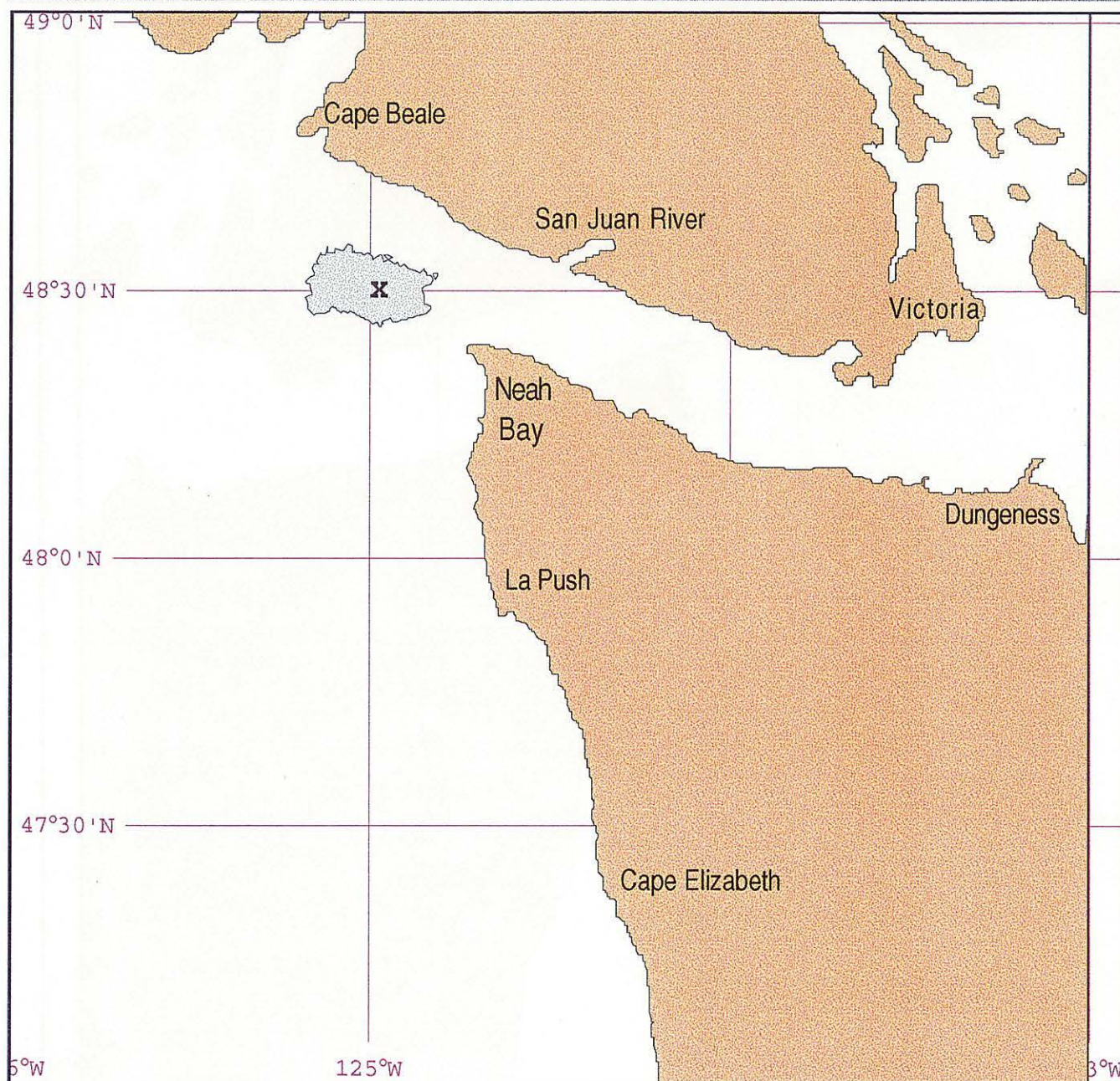


Figure B-135. Map of 4-hour probability contours, fall, 6 percent drift for site 6.

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Fall

Ship drift: 6% of the wind speed representing both wind and wave action

Time: 6-hours

At each site, the contour represents the 95% probability distribution.

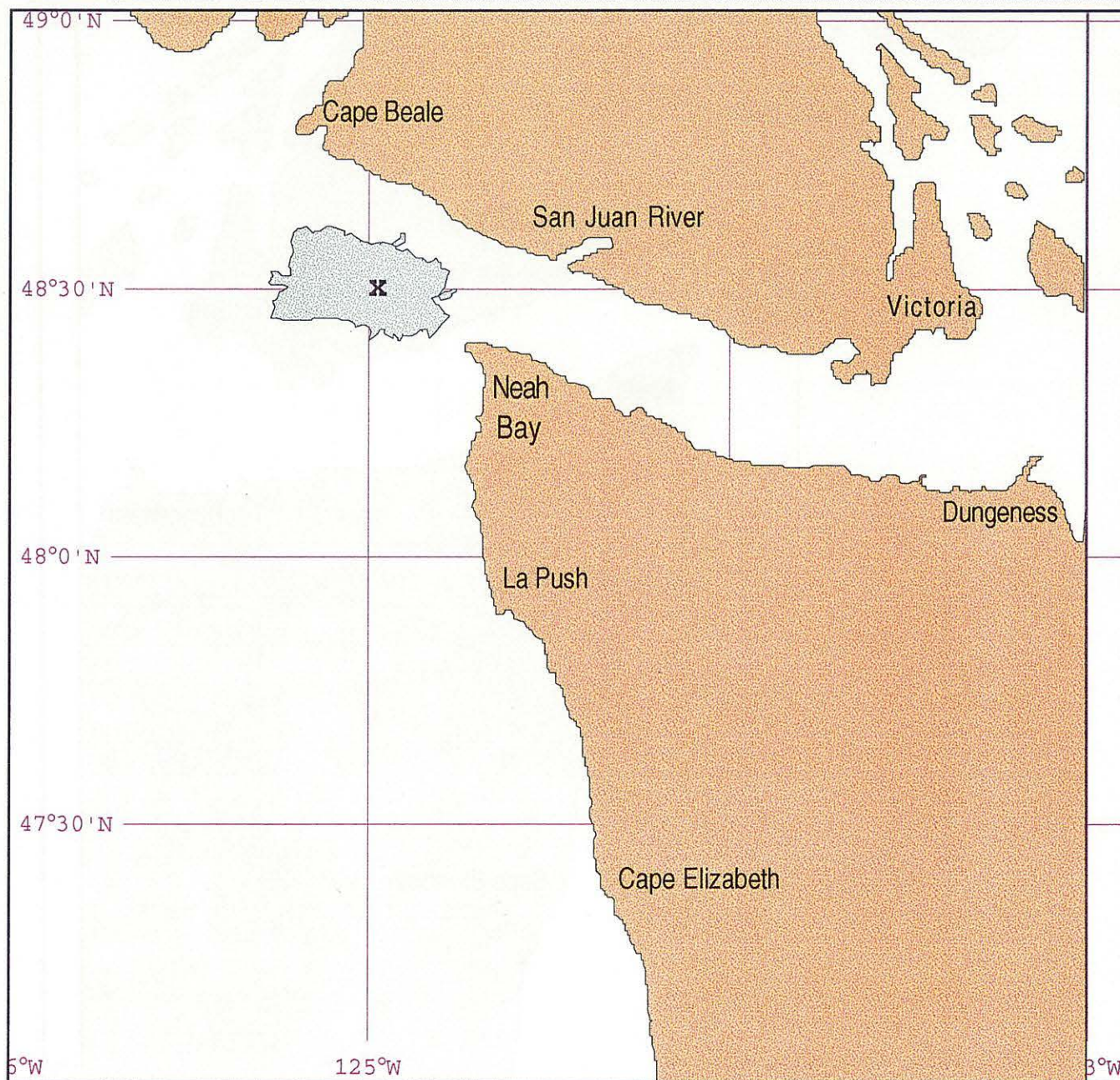


Figure B-136. Map of 6-hour probability contours, fall, 6 percent drift for site 6.

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Fall

Ship drift: 6% of the wind speed representing both wind and wave action

Time: 8-hours

At each site, the contour represents the 95% probability distribution.

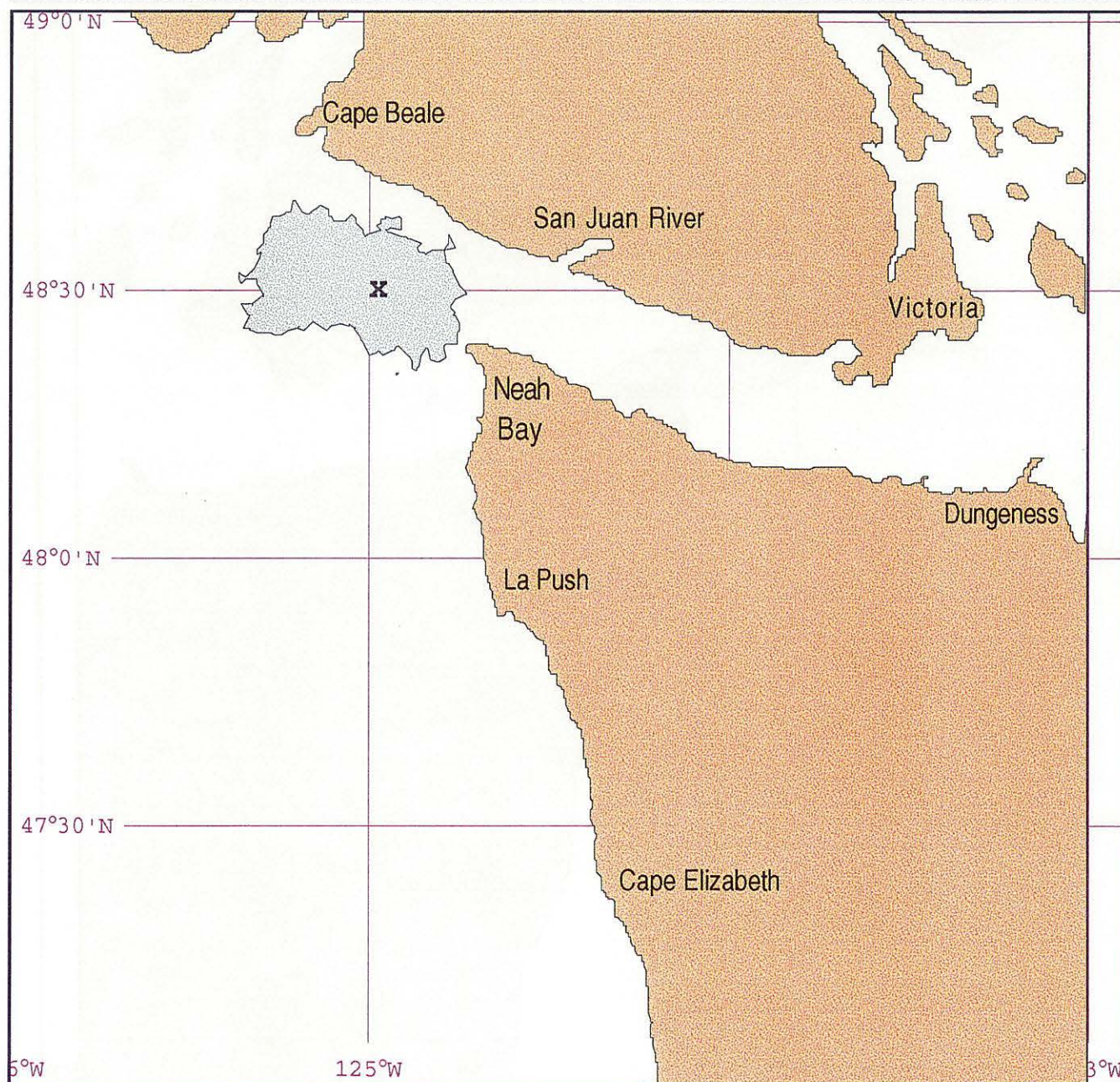


Figure B-137. Map of 8-hour probability contours, fall, 6 percent drift for site 6.

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Fall

Ship drift: 6% of the wind speed representing both wind and wave action

Time: 12-hours

At each site, the contour represents the 95% probability distribution.

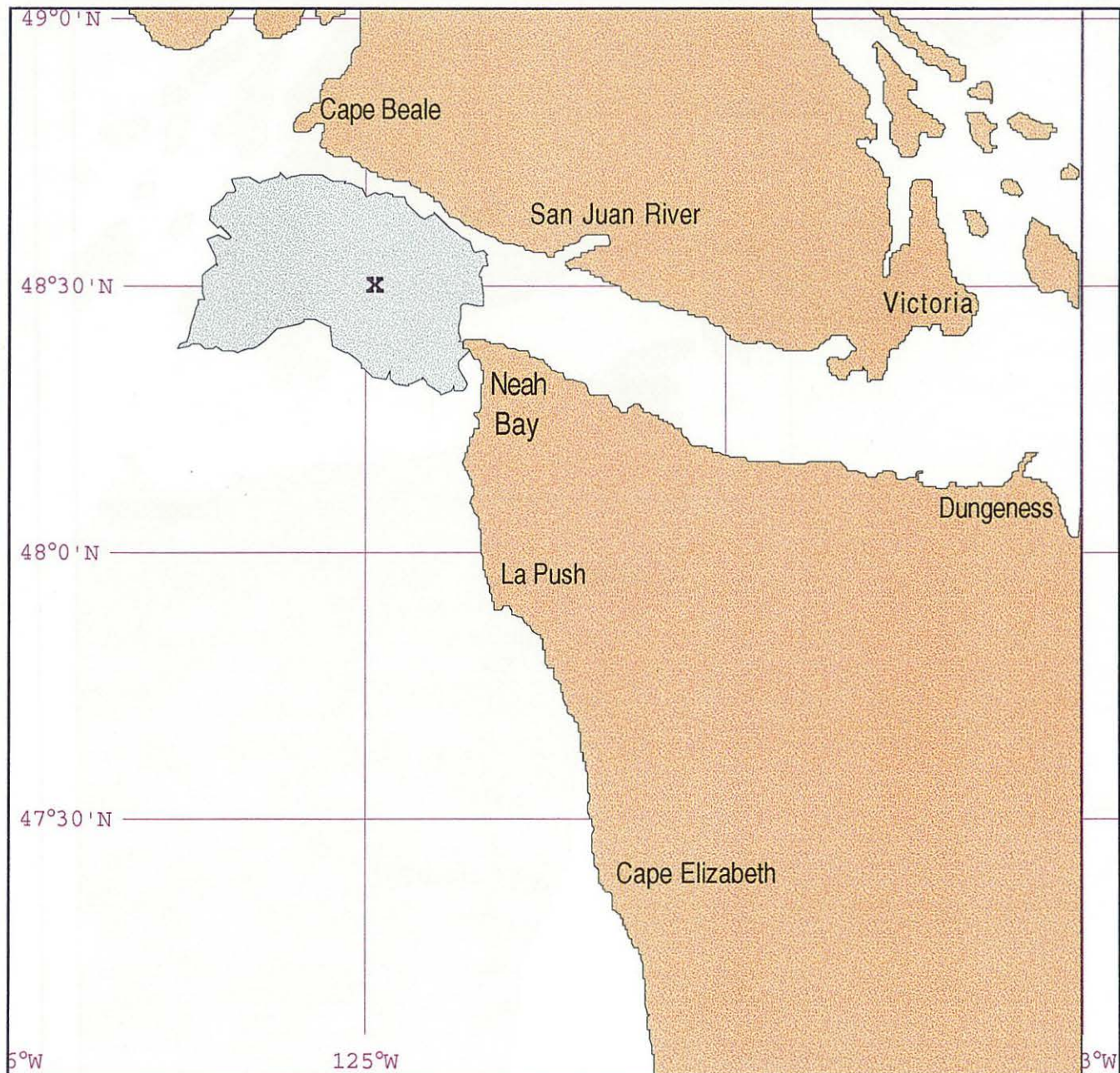


Figure B-138. Map of 12-hour probability contours, fall, 6 percent drift for site 6.

**Ship drift analysis**

Estimate for:

Prepared: ,

MASS Statistical Analysis

NOAA/HAZMAT/MASS (206) 526-6317



Season: Fall

Ship drift: 8% of the wind speed representing both wind and wave action

Time: 2-hours

At each site, the contour represents the 95% probability distribution.

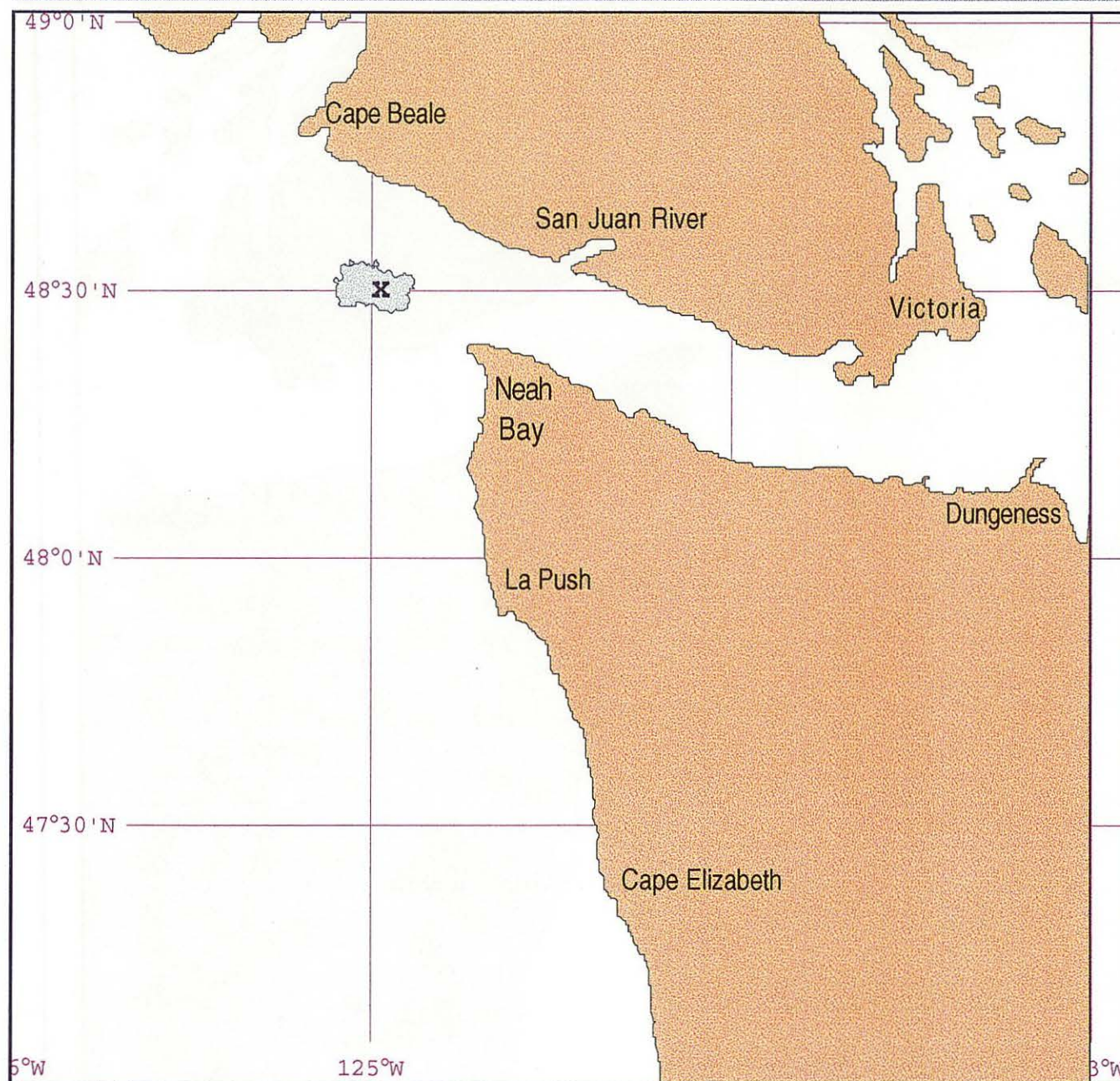


Figure B-139. Map of 2-hour probability contours, fall, 8 percent drift for site 6.

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Fall

Ship drift: 8% of the wind speed representing both wind and wave action

Time: 4-hours

At each site, the contour represents the 95% probability distribution.

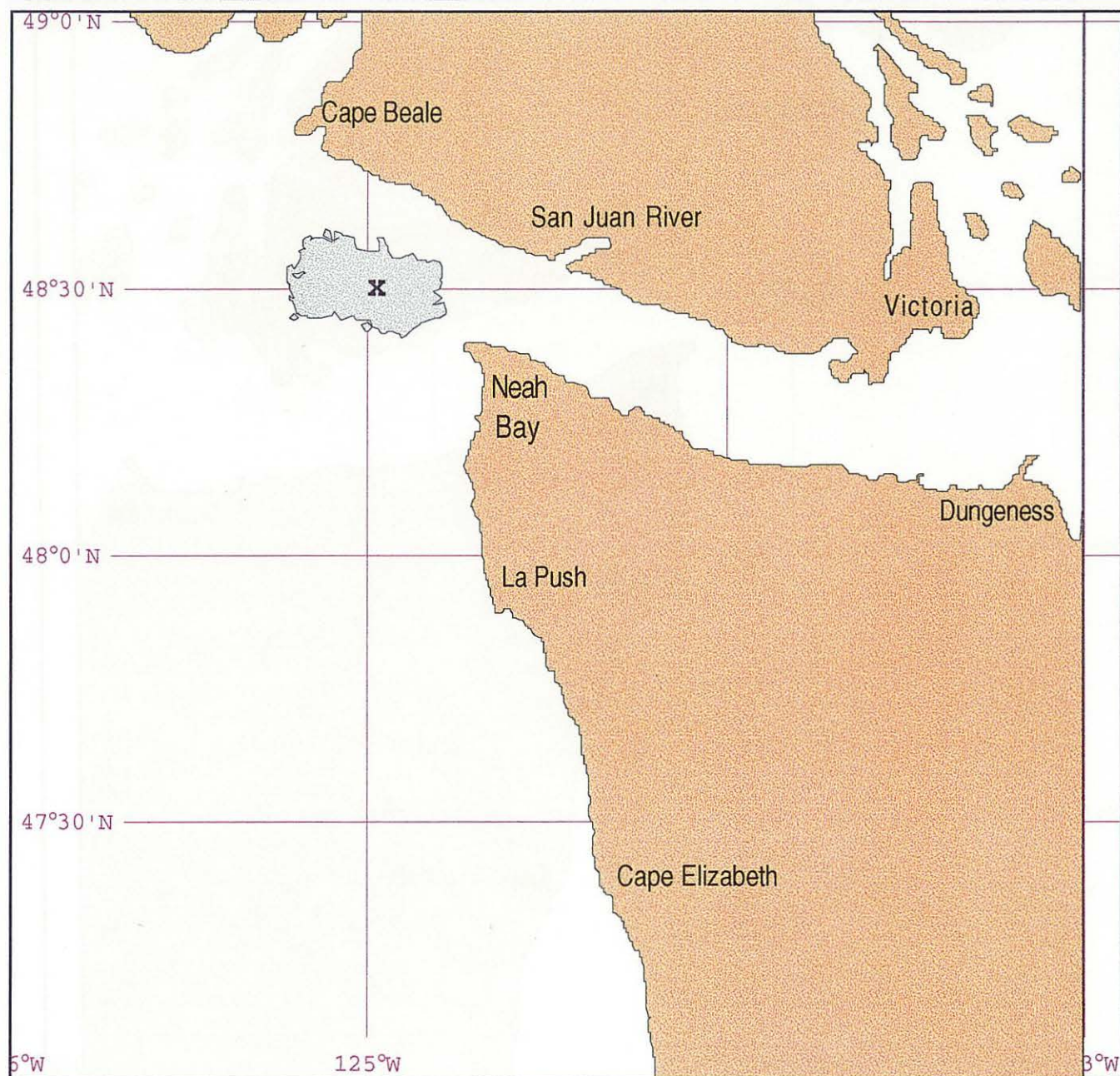


Figure B-140. Map of 4-hour probability contours, fall, 8 percent drift for site 6.

**Ship drift analysis**

Estimate for:

Prepared: ,

MASS Statistical Analysis

NOAA/HAZMAT/MASS (206) 526-6317



Season: Fall

Ship drift: 8% of the wind speed representing both wind and wave action

Time: 6-hours

At each site, the contour represents the 95% probability distribution.

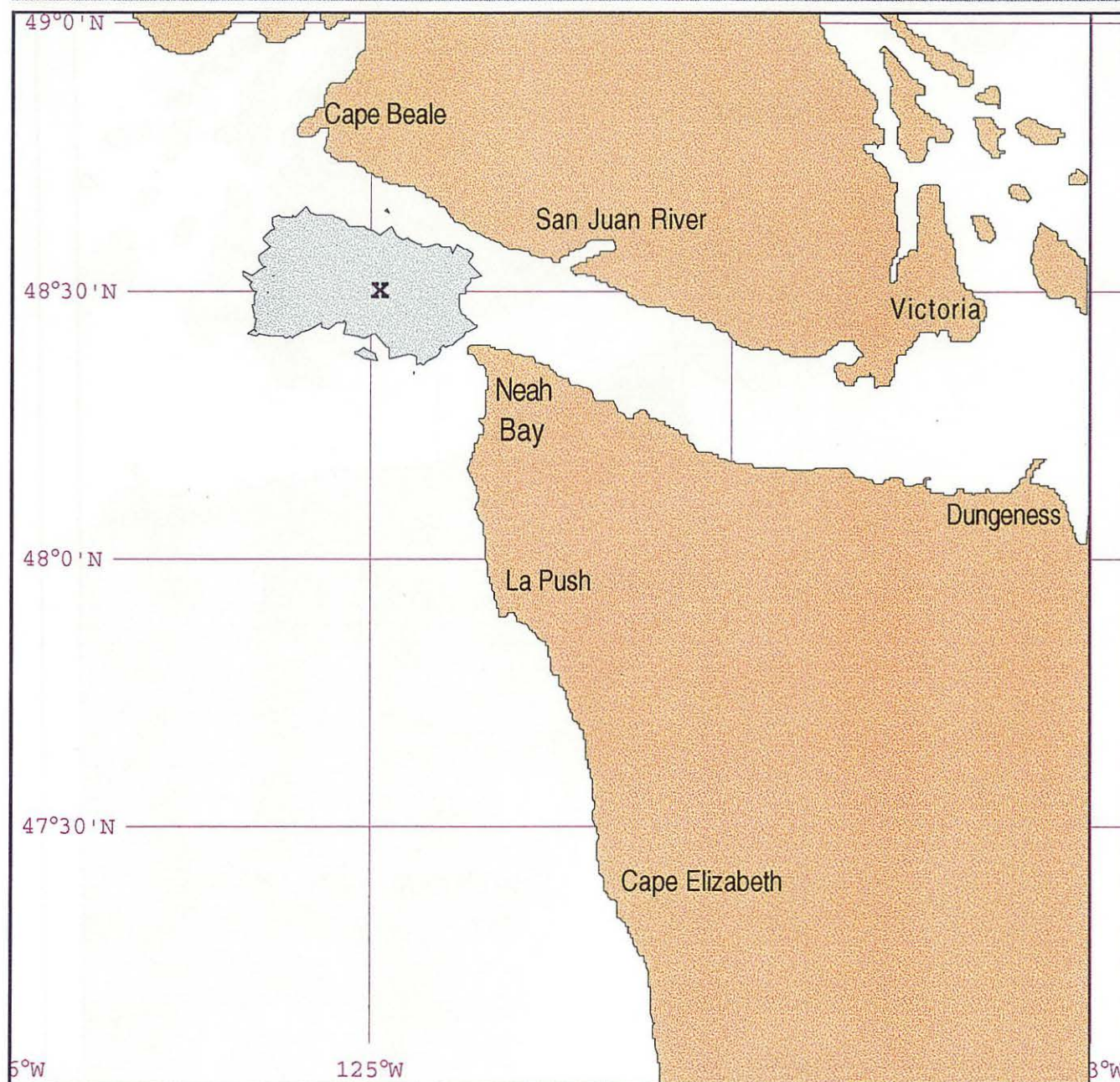


Figure B-141. Map of 6-hour probability contours, fall, 8 percent drift for site 6.



Ship drift analysis

MASS Statistical Analysis



Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317

Season: Fall

Ship drift: 8% of the wind speed representing both wind and wave action

Time: 8-hours

At each site, the contour represents the 95% probability distribution.

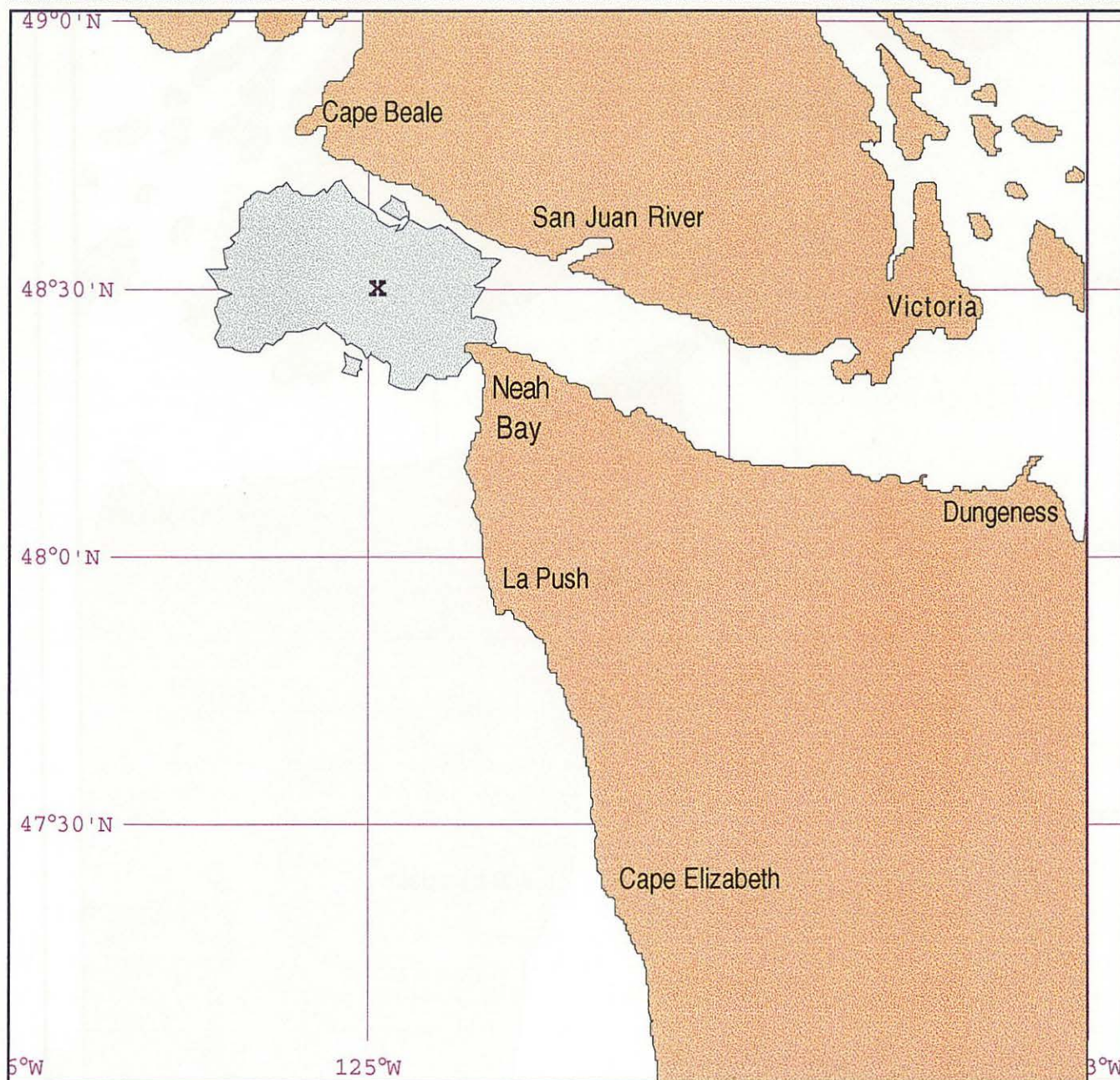


Figure B-142. Map of 8-hour probability contours, fall, 8 percent drift for site 6.

**Ship drift analysis**

Estimate for:

Prepared: ,

MASS Statistical Analysis

NOAA/HAZMAT/MASS (206) 526-6317



Season: Fall

Ship drift: 8% of the wind speed representing both wind and wave action

Time: 12-hours

At each site, the contour represents the 95% probability distribution.

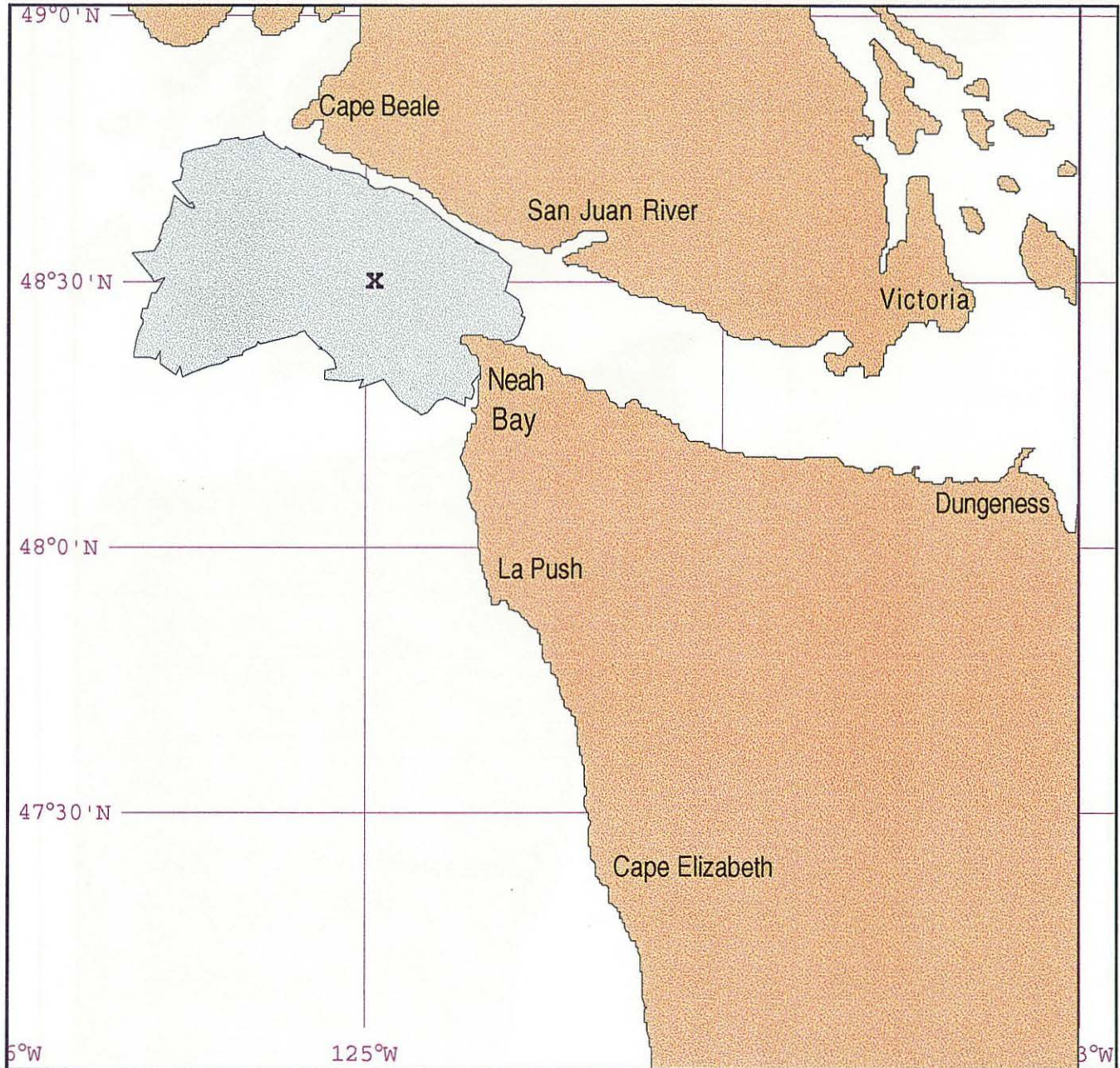


Figure B-143. Map of 12-hour probability contours, fall, 8 percent drift for site 6.

**Ship drift analysis****MASS Statistical Analysis**

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Fall

Ship drift: 10% of the wind speed representing both wind and wave action

Time: 2-hours

At each site, the contour represents the 95% probability distribution.

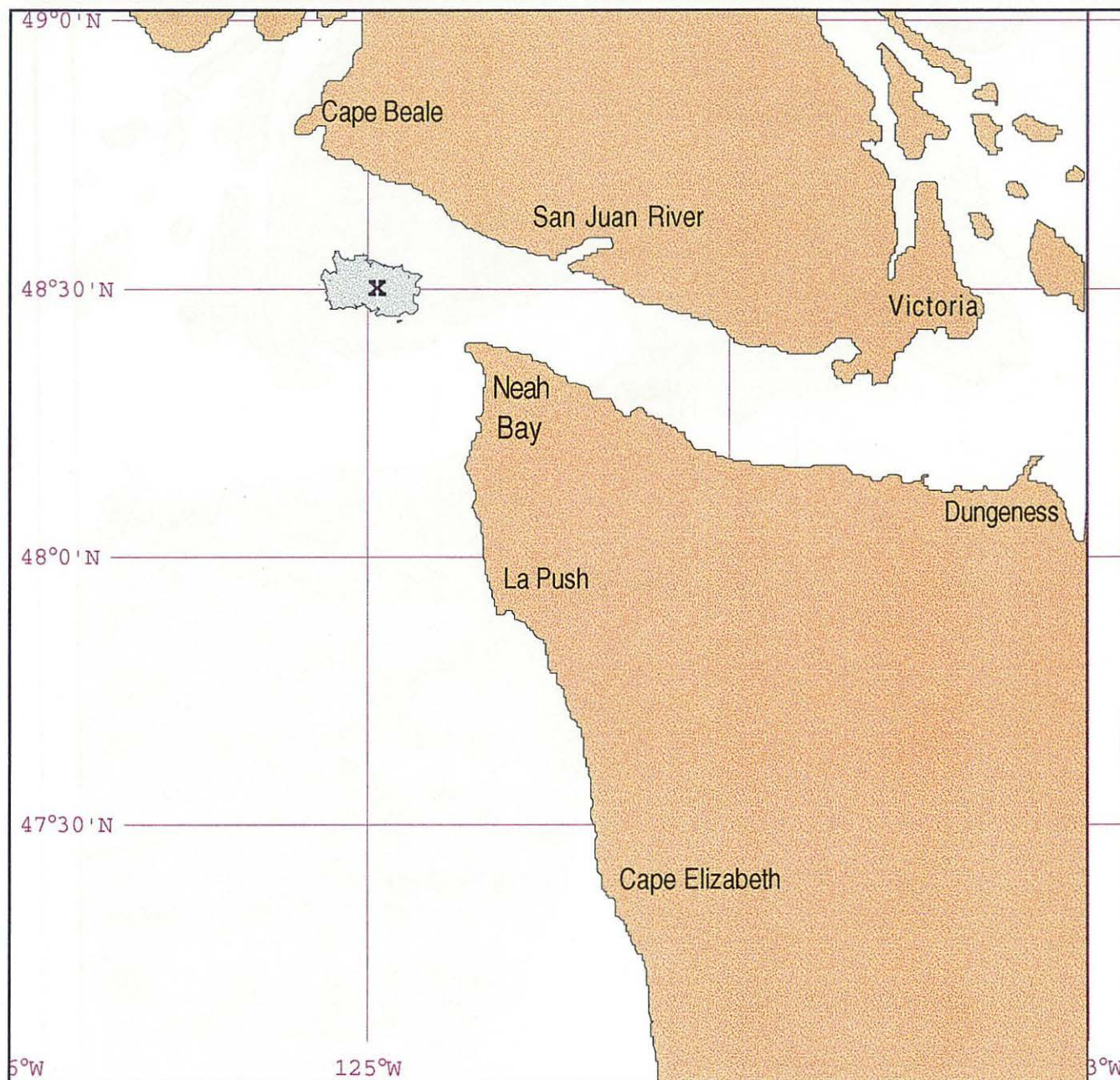


Figure B-144. Map of 2-hour probability contours, fall, 10 percent drift for site 6.

**Ship drift analysis**

Estimate for:

Prepared: ,

MASS Statistical Analysis

NOAA/HAZMAT/MASS (206) 526-6317



Season: Fall

Ship drift: 10% of the wind speed representing both wind and wave action

Time: 4-hours

At each site, the contour represents the 95% probability distribution.

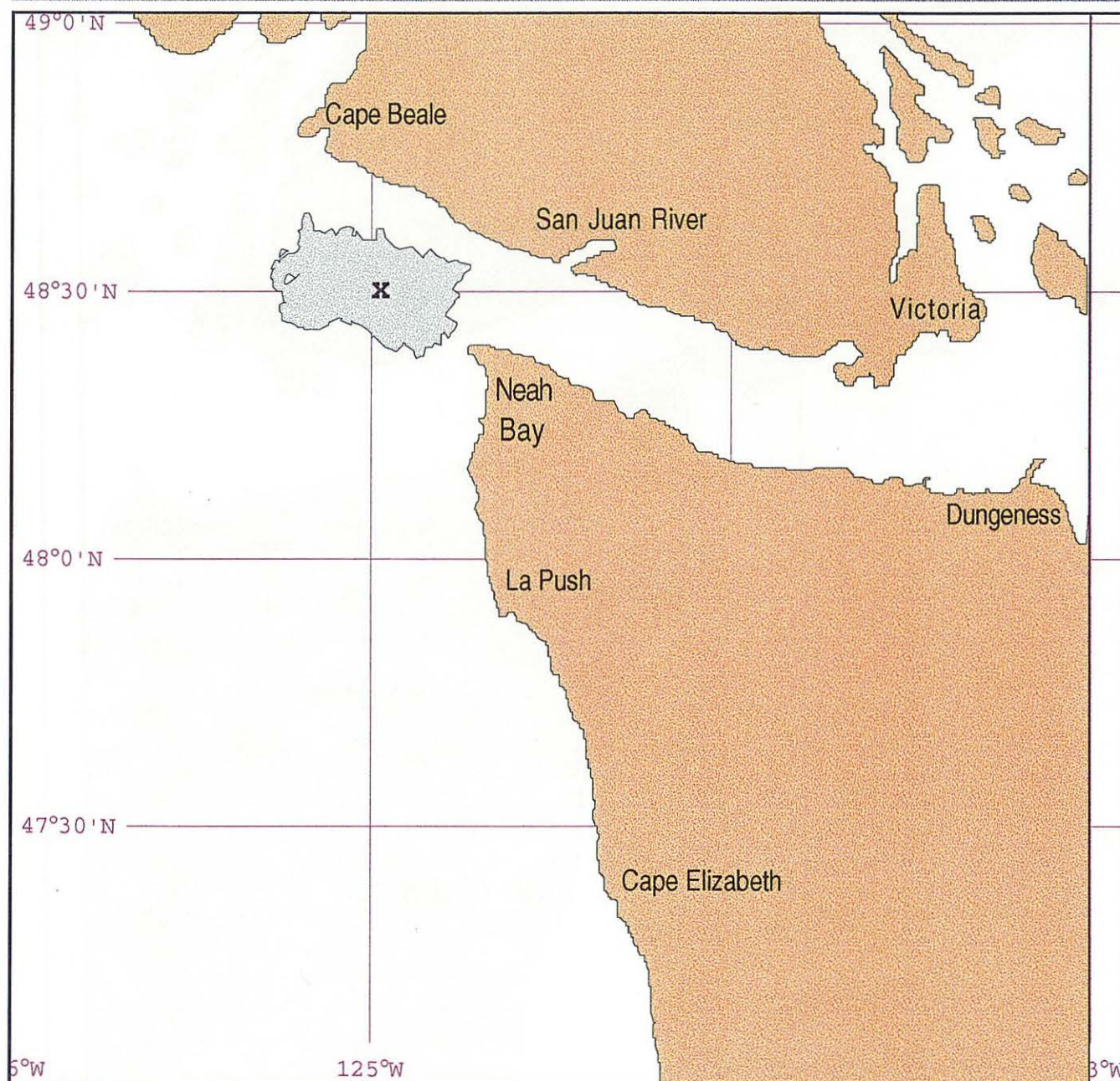


Figure B-145. Map of 4-hour probability contours, fall, 10 percent drift for site 6.



Ship drift analysis

MASS Statistical Analysis

Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317



Season: Fall

Ship drift: 10% of the wind speed representing both wind and wave action

Time: 6-hours

At each site, the contour represents the 95% probability distribution.

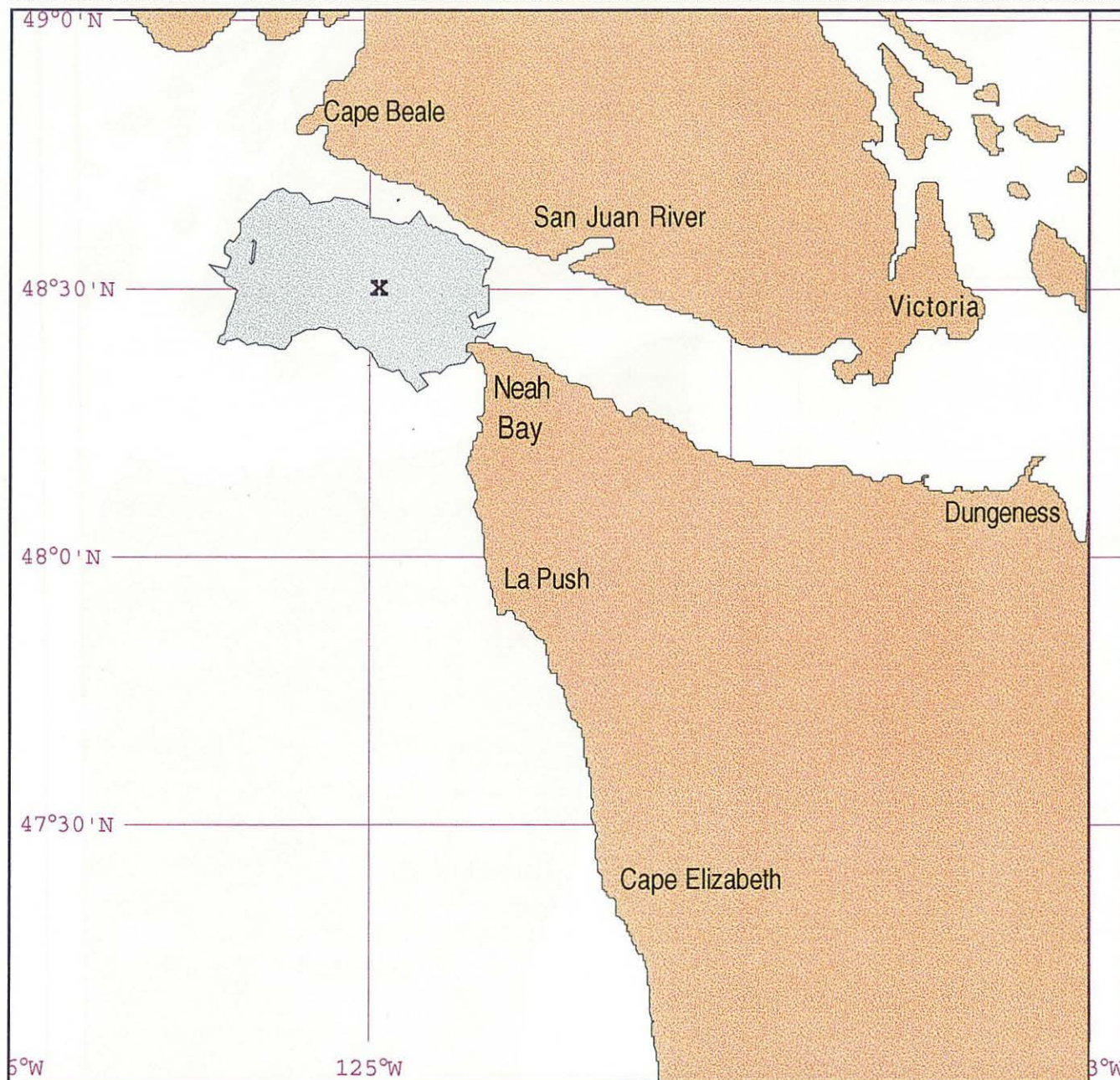


Figure B-146. Map of 6-hour probability contours, fall, 10 percent drift for site 6.

**Ship drift analysis**

Estimate for:

Prepared: ,

MASS Statistical Analysis

NOAA/HAZMAT/MASS (206) 526-6317



Season: Fall

Ship drift: 10% of the wind speed representing both wind and wave action

Time: 8-hours

At each site, the contour represents the 95% probability distribution.

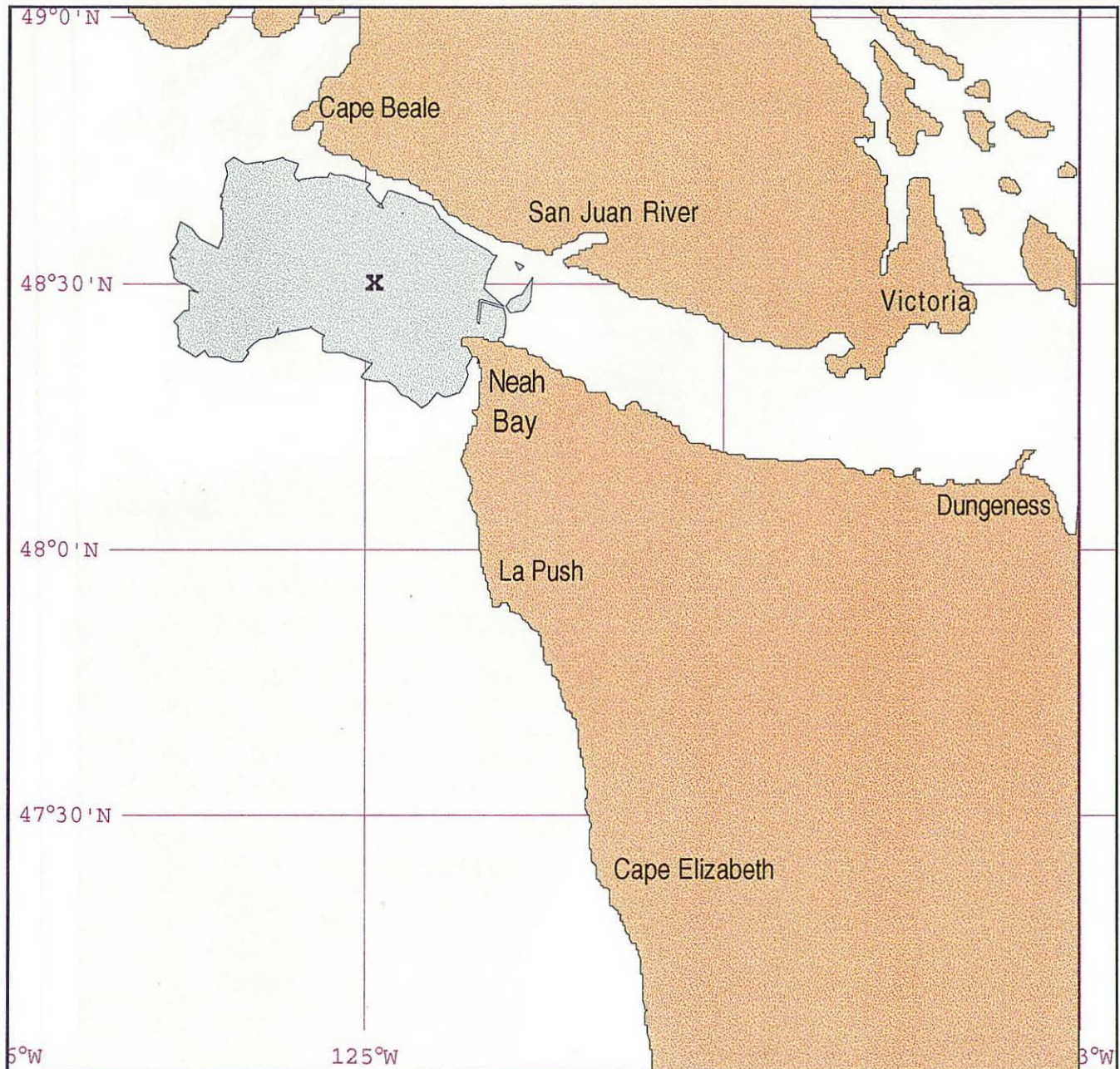


Figure B-147. Map of 8-hour probability contours, fall, 10 percent drift for site 6.



Ship drift analysis

MASS Statistical Analysis



Estimate for:

Prepared: ,

NOAA/HAZMAT/MASS (206) 526-6317

Season: Fall

Ship drift: 10% of the wind speed representing both wind and wave action

Time: 12-hours

At each site, the contour represents the 95% probability distribution.

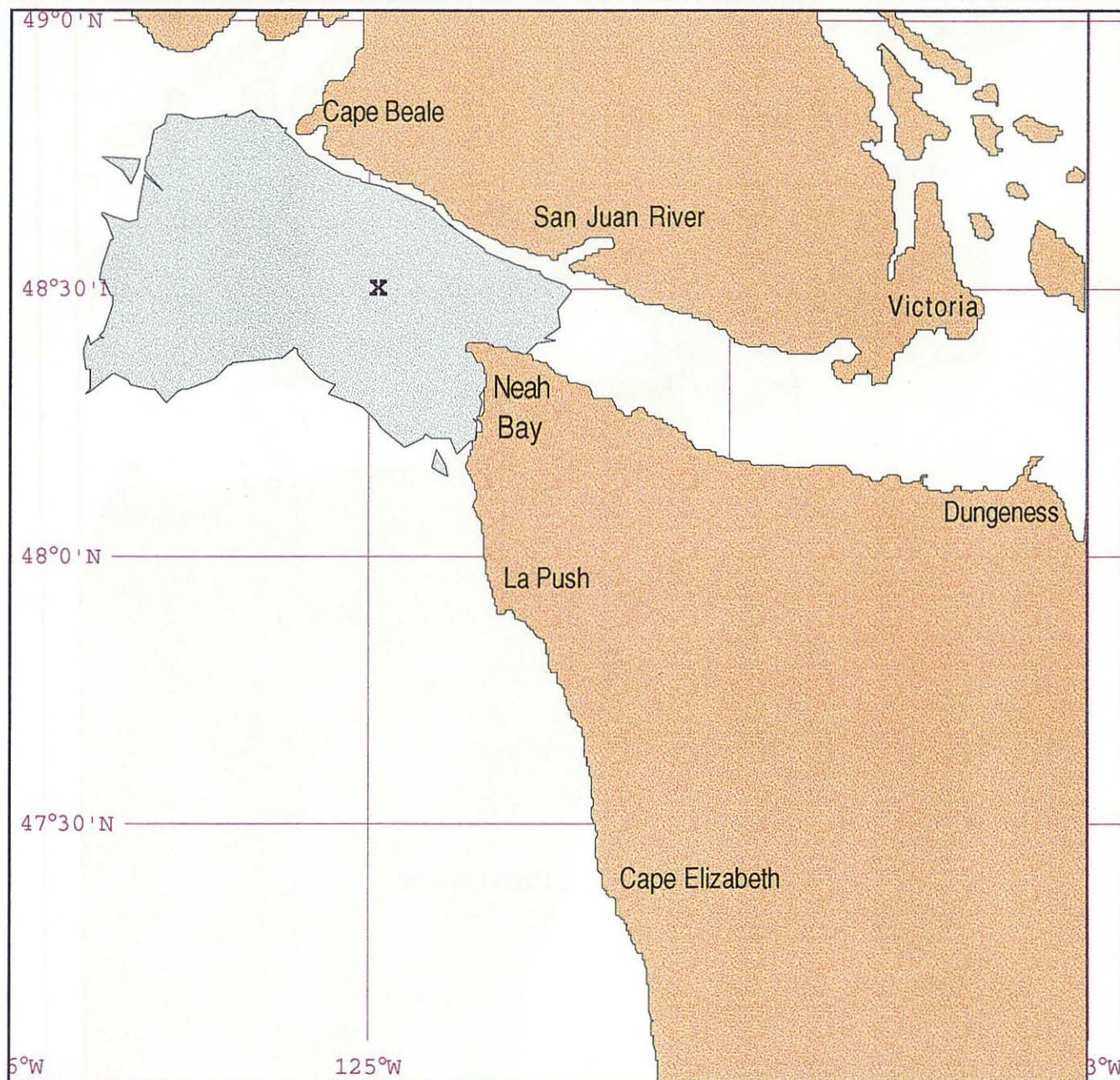


Figure B-148. Map of 12-hour probability contours, fall, 10 percent drift for site 6.