



# Regional Marine Operations Report

**Issued:** Sunday,  
June 14, 2026 —  
07:30 PM NDT

**Zone:** Avalon East  
& Placentia Bay  
Coastal Waters

**Valid Period:** 24-  
Hour Operational  
Window

**Next Update:**  
Monday, June 15,  
2026 — 05:30 AM  
NDT

## Marine Warnings & Active Risk Matrix

**ACTIVE REGIONAL WARNING:** Environment and Climate Change Canada (ECCC) has issued a **Gale Warning** for Placentia Bay and the Avalon East marine zones, effective late Tuesday afternoon through Wednesday morning. Sustained winds will reach 34 knots.

Marine Asset Class	Risk Level	Operational Guidance
Inshore / Small Craft (<15m)	● HIGH RISK	Operations suspended Tuesday afternoon due to steep chop.
Nearshore / Supply Vessels	● MODERATE	Safe transit Monday; watch cargo lashings Tuesday evening.
Harbour / Berthing Operations	● MODERATE	Structural surge monitoring required at exposed east-facing piers.
Coastal Infrastructure (Docks)	● LOW RISK	No significant storm surge or high-tide flooding expected.

## Sea State & Wind Analysis (Next 24 Hours)

Conditions across the primary commercial shipping lanes are breaking down as a slow-moving low-pressure system approaches from the south.

Forecast Period	Sustained Wind	Peak Wind Gusts	Wave Height (Significant)	Wave Period & Type
<b>Tonight (Sun)</b>	E 10–15 kts	18 kts	1.0 – 1.5 m	7s / Short-period wind chop
<b>Monday AM</b>	E 15–20 kts	25 kts	1.5 – 2.0 m	8s / Mixed wind wave
<b>Monday PM</b>	NE 20–25 kts	30 kts	2.0 – 2.5 m	9s / Developing swell
<b>Tuesday AM</b>	NE 25–30 kts	<b>38 kts</b>	<b>3.0 – 3.5 m</b>	11s / Heavy southeasterly swell

## Specialized Marine Metrics

### Visibility & Fog Forecasts

- **Current Visual Range:** 8 to 10 nautical miles across open water.
- **Trend Outlook:** A warm, moist air mass moving over the colder waters of the Labrador Current will trigger widespread advection fog starting mid-morning Monday.
- **Impact Window:** Expect visibility to drop rapidly to less than 0.5 nautical miles inside Placentia Bay between 09:00 AM and 03:00 PM Monday. Radar navigation protocols should be fully engaged for all harbour approaches.

### Sea State & Harbour-Specific Routing

- **St. John's Harbour Approaches:** The upcoming shift to strong northeasterly winds on Tuesday will create a challenging wind-against-tide dynamic during the afternoon ebb tide. Expect chaotic, steepening wave profiles directly outside the Narrows.
- **Placentia Bay Outer Zones:** A heavy secondary swell (2.5m at 12 seconds) will create significant hull-slapping and rolling risks for lower-displacement vessels traveling beam-to-the-sea.

### Storm Tracking & Deep-Water Safety

The low-pressure center is currently tracking northeastward along the US Eastern Seaboard. It is projected to deepen as it passes south of the Grand Banks on Tuesday night. While the system stays well offshore, its expansive wind field will generate a long-period swell that will impact coastal infrastructure along the southern and eastern Avalon for up to 36 hours after the system departs.

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