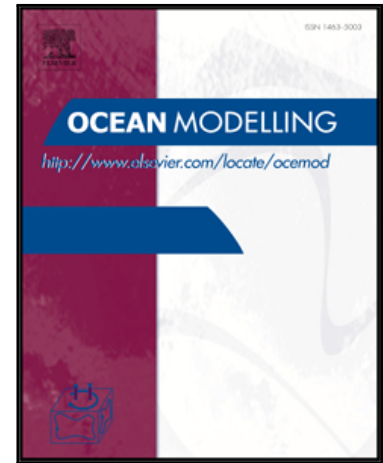


## Accepted Manuscript

Frontal Dynamics at the Edge of the Columbia River Plume

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PII: S1463-5003(17)30196-8  
DOI: [10.1016/j.ocemod.2017.12.001](https://doi.org/10.1016/j.ocemod.2017.12.001)  
Reference: OCEMOD 1268



To appear in: *Ocean Modelling*

Received date: 6 June 2017  
Revised date: 3 December 2017  
Accepted date: 6 December 2017

Please cite this article as: Çiğdem Akan, James C. McWilliams, Saeed Moghimi, H. Tuba Özkan-Haller, Frontal Dynamics at the Edge of the Columbia River Plume, *Ocean Modelling* (2017), doi: [10.1016/j.ocemod.2017.12.001](https://doi.org/10.1016/j.ocemod.2017.12.001)

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**Highlights**

- The main advective front is initiated by the vorticity generated near the river mouth during ebb tide.
- Strain-induced frontogenesis and secondary circulation sharpen the front.
- Lateral shear and centrifugal instability develop farther offshore and as the ebb tide slackens and fragment the front.

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