



**Cover:** In Hirano et al. (<https://doi.org/10.1029/2017JC013307>), Alaskan Coastal Winter Water entering the Arctic basin is one of the source waters to form and maintain the cold halocline layer and/or lower halocline layer that thermally insulates the cold surface mixed layer (i.e., sea ice) from the deep warm Atlantic Water. Hirano et al. demonstrated that Pacific-origin water is modified to Alaskan Coastal Winter Water over the eastern Chukchi shelf through an upwelling of warm Atlantic Water as well as sea-ice production in coastal polynyas over the shelf, indicating the strong influence of Atlantic Water even in the Pacific sector of the Arctic Ocean. See pp. 5688–5705.

**5688** Daisuke Hirano, Yasushi Fukamachi, Kay I. Ohshima, Eiji Watanabe, Andrew R. Mahoney, Hajo Eicken, Motoyo Itoh, Daisuke Simizu, Katsushi Iwamoto, Joshua Jones, Toru Takatsuka, Takashi Kikuchi, and Takeshi Tamura  
 Winter Water Formation in Coastal Polynyas of the Eastern Chukchi Shelf: Pacific and Atlantic Influences  
 (<https://doi.org/10.1029/2017JC013307>)