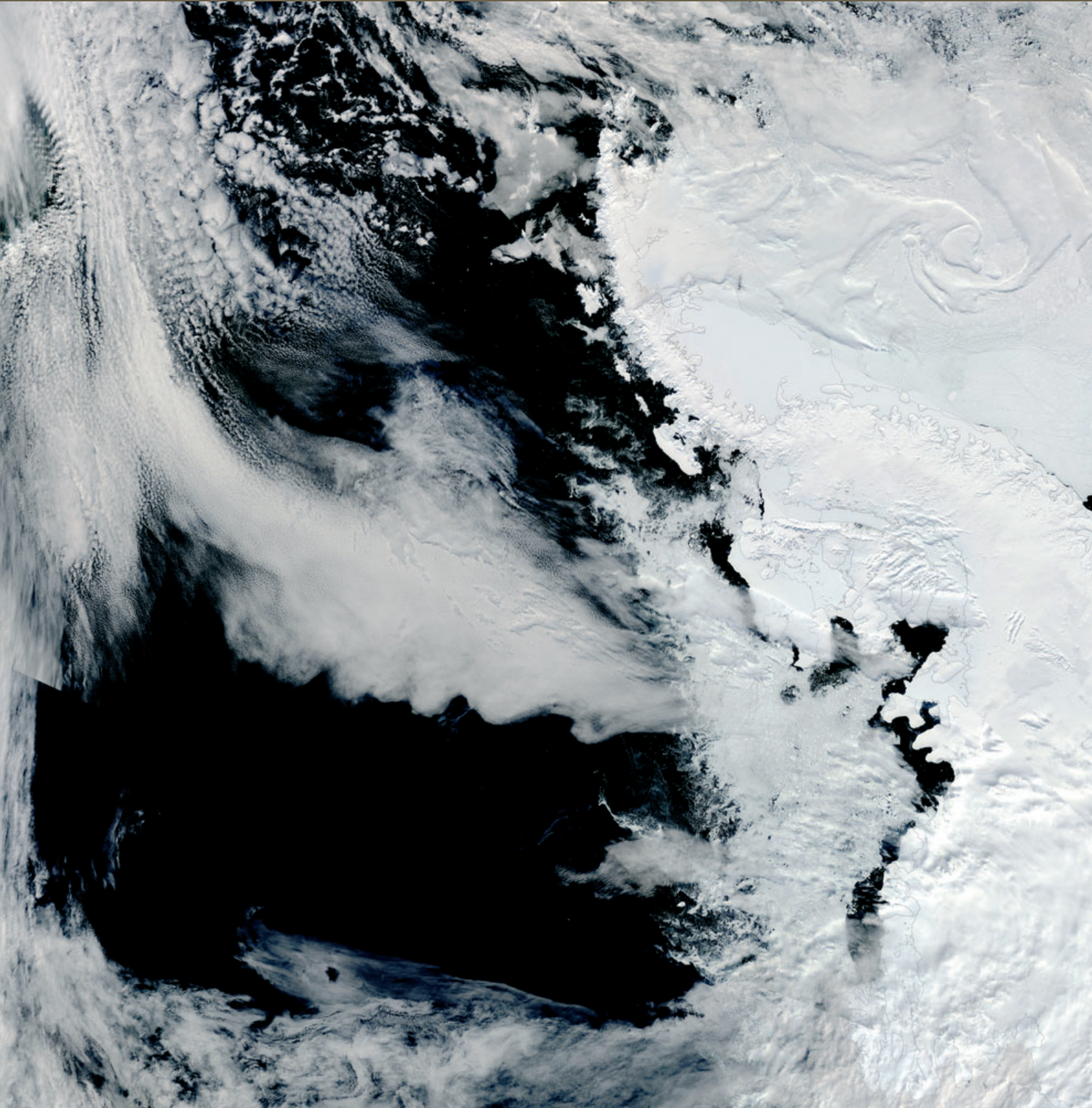


# Geophysical Research Letters

AN AGU JOURNAL

Volume 45 • Issue 14 • 28 July 2018 • Pages 6751–7236



# Geophysical Research Letters

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**Cover:** The satellite image taken from Aqua/Modis (retrieved via NASA's worldview) shows the characteristic cloud signature of a stationary anticyclone, known as atmospheric block, that affected the Amundsen-Bellinghousen Sea during January 2016. It was the second strongest blocking period since 1979. Characteristic is the massive and impressively large cloud-free spot formed due to the large-scale sinking motion in the center of the block off the Amundsen-Bellinghousen Sea (the underlying sea appears to be black). The anomalous anticyclonic circulation near the surface caused offshore cold-air advection downstream over the Weddell Sea (upper-right corner of image) and onshore warm-air advection over the Amundsen Sea (lower right corner of image). In agreement with this, January 2016 was characterized by an below-average sea ice extension over the Amundsen Sea and an above-average sea ice extension over the Weddell Sea. See also Schemm (pp. 7165-7175; <https://doi.org/10.1029/2018GL079109>).

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GEOPHYSICAL RESEARCH LETTERS, (ISSN 0094-8276), is published semi-monthly by Wiley Subscription Services, Inc., a Wiley Company, 111 River St., Hoboken, NJ 07030-5774.

Periodical Postage Paid at Hoboken, NJ and additional offices.

Postmaster: Send all address changes to GEOPHYSICAL RESEARCH LETTERS, John Wiley & Sons Inc., C/O The Sheridan Press, PO Box 465, Hanover, PA 17331.

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ISSN 0094-8276 (Print)  
ISSN 1944-8007 (Online)

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