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Southern Ocean Ice Conditions and Recent Trends

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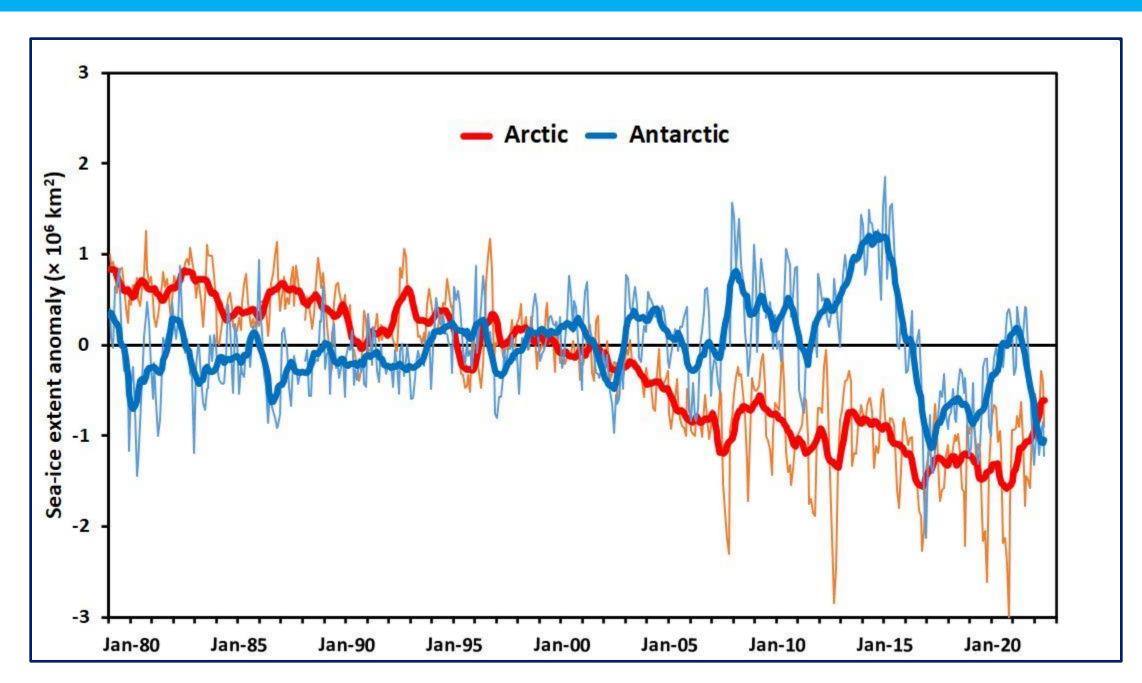
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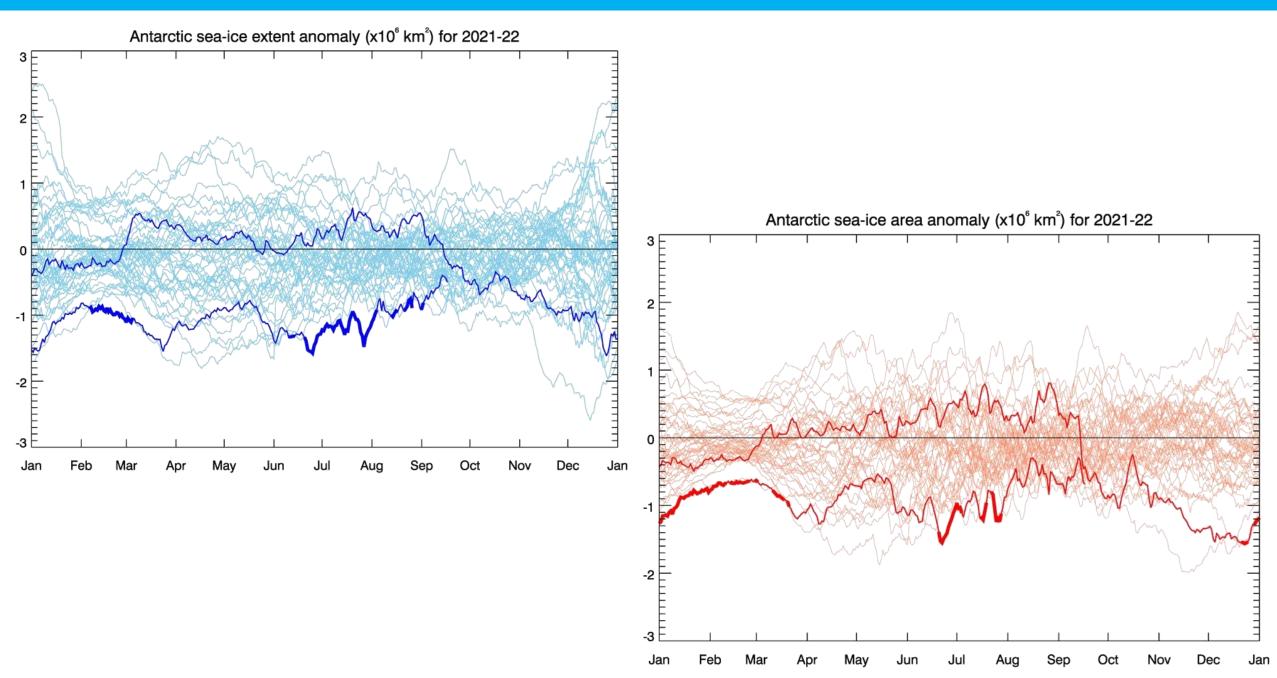
Southern Ocean Ice Conditions and Recent Trends

Jan L Lieser & Phil Reid

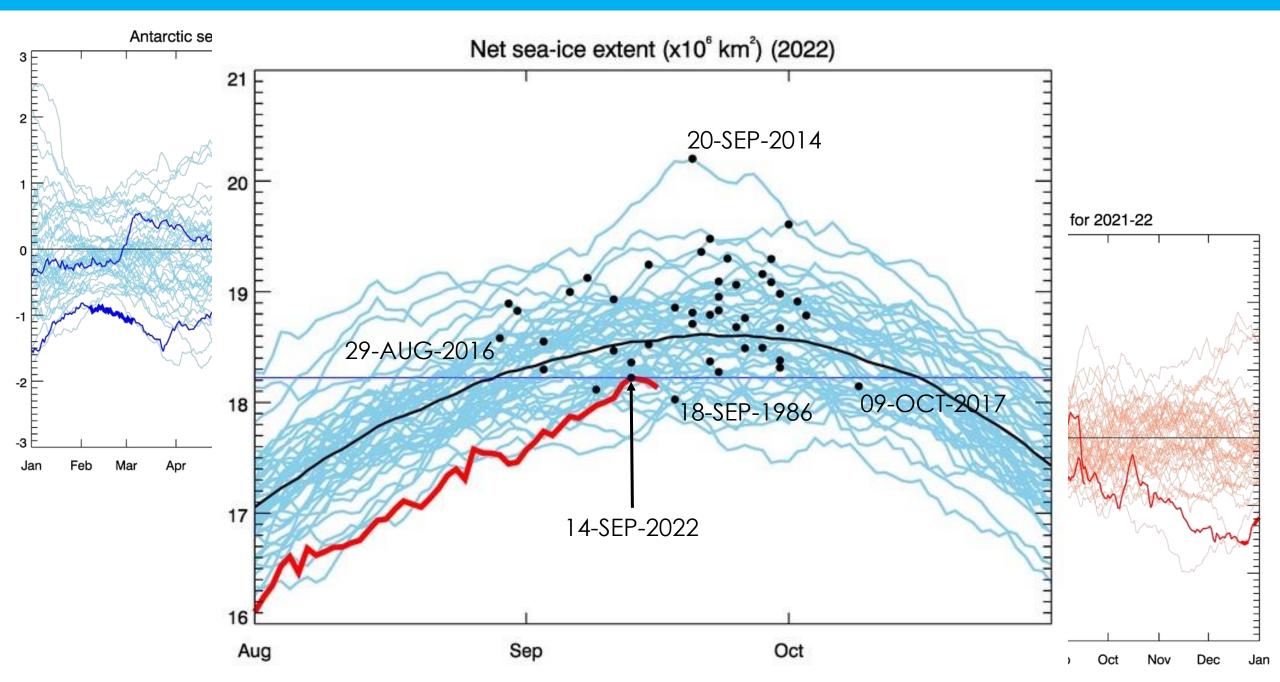




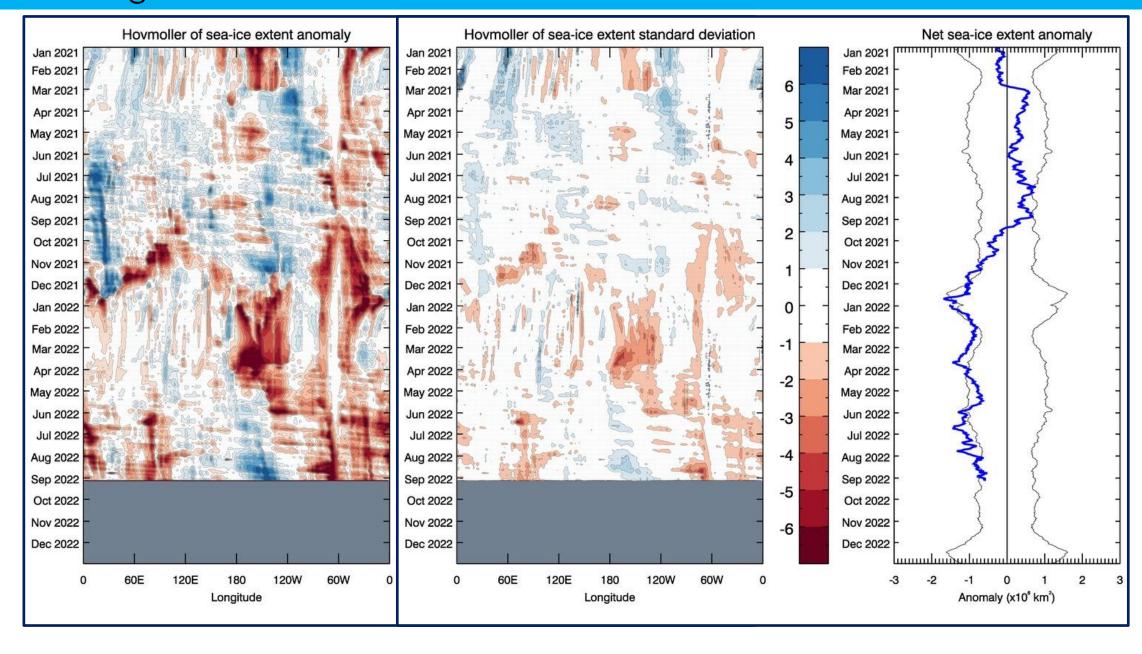
Recent Antarctic net sea-ice extent and area



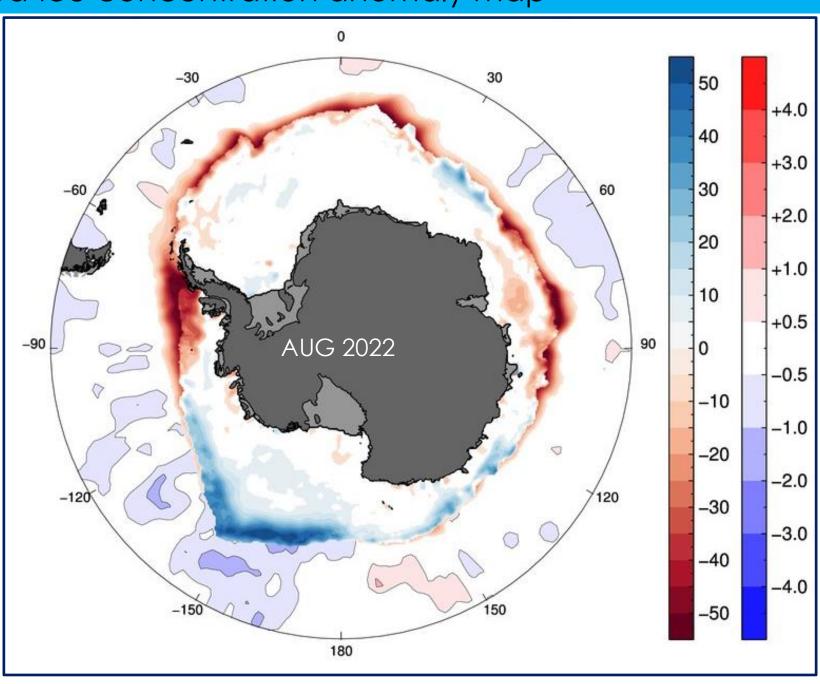
Recent Antarctic net sea-ice extent and area



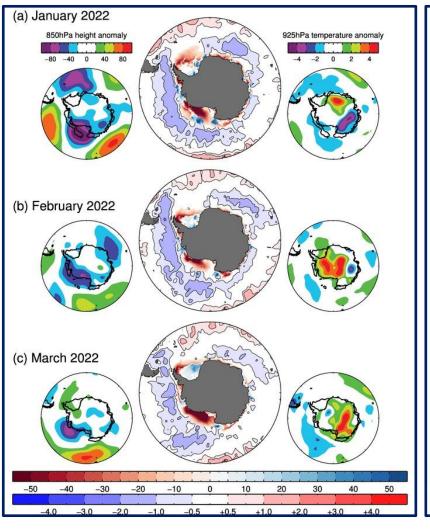
2021-2022 regional anomalies of sea-ice extent – as Hovmöllers

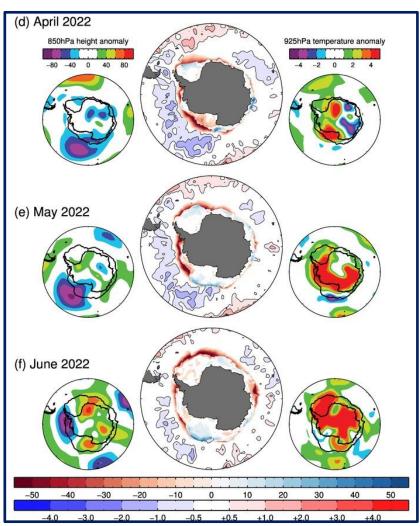


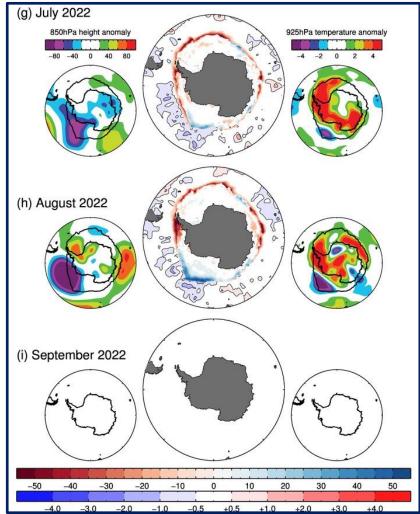
Most recent sea-ice concentration anomaly map



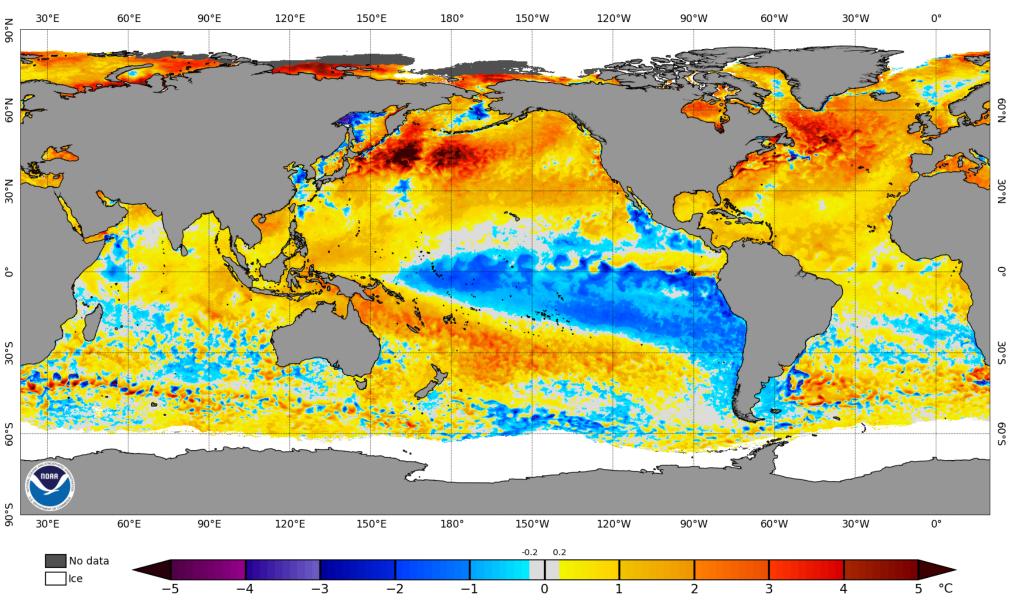
Synoptic and ocean drivers





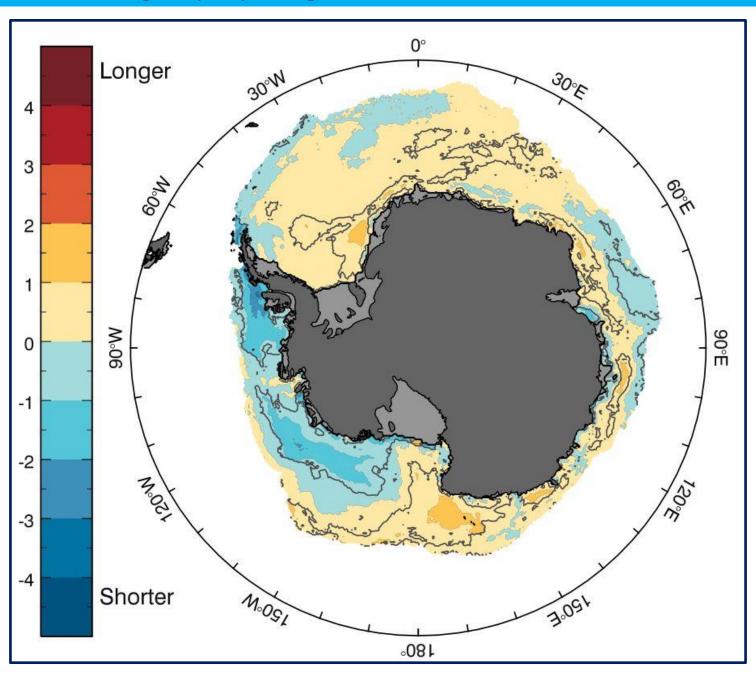


NOAA Coral Reef Watch Daily 5km SST Anomalies (v3.1) 21 Sep 2022

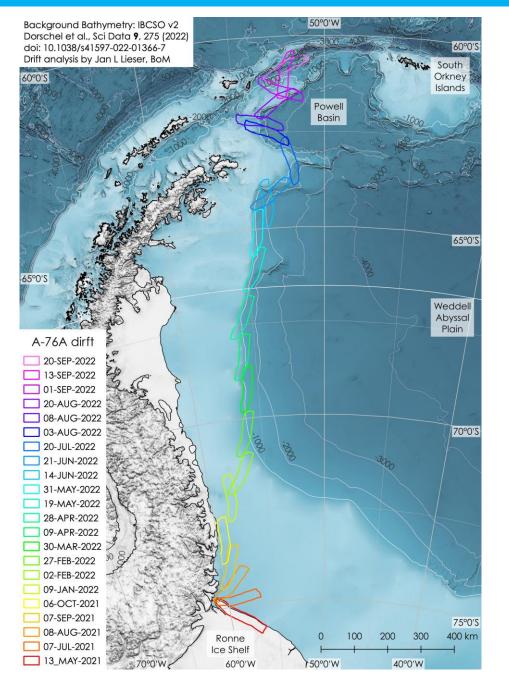


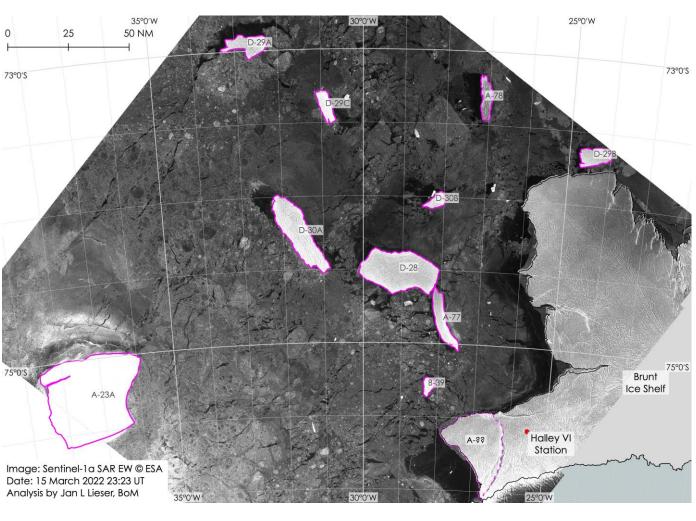
https://www.ospo.noaa.gov/data/cb/ssta/ssta.daily.current.png

Trend in sea-ice duration [days/year]

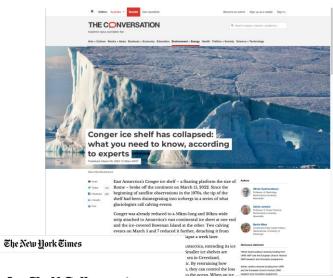


Icebergs





Icebergs



In a First, an Ice Shelf Collapses in East Antarctica

Scientists say a period of unusual weather, combined with record-low sea ice, led to the disintegration of the Conger ice shelf

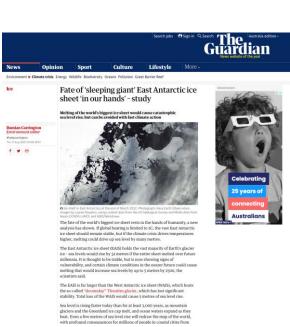


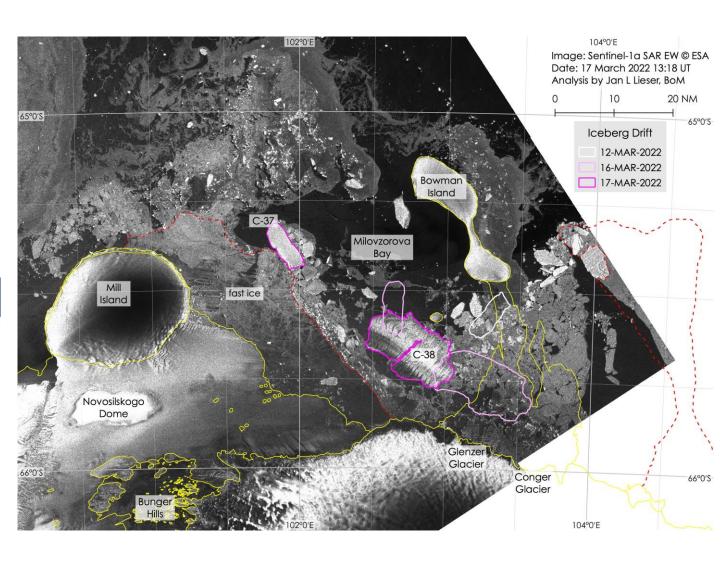
A satellite image taken over East Antarctica on March 17 shows the largest fragment of the Collapsed Conger ice shelf, an iceberg named C-38. U.S. National Ice Center, via Agence Prance-Presse —Getty Images

By Henry Fountain

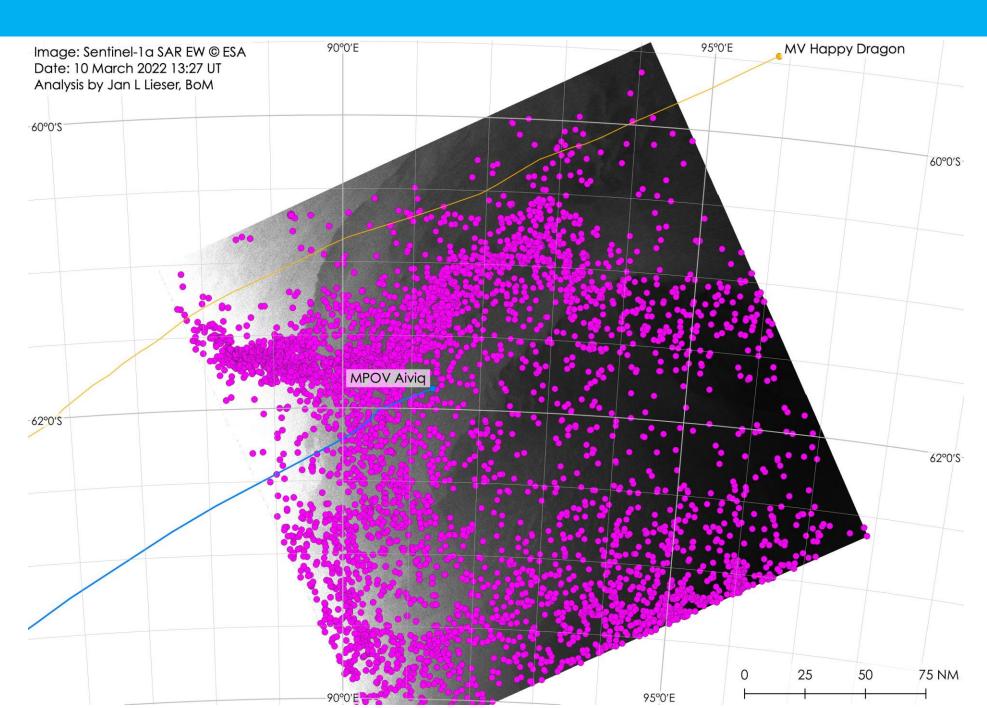
March 25, 2022

For the first time since satellites began observing Antarctica nearly half a century ago, an ice shelf has collapsed on the eastern





Icebergs



Thank you

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