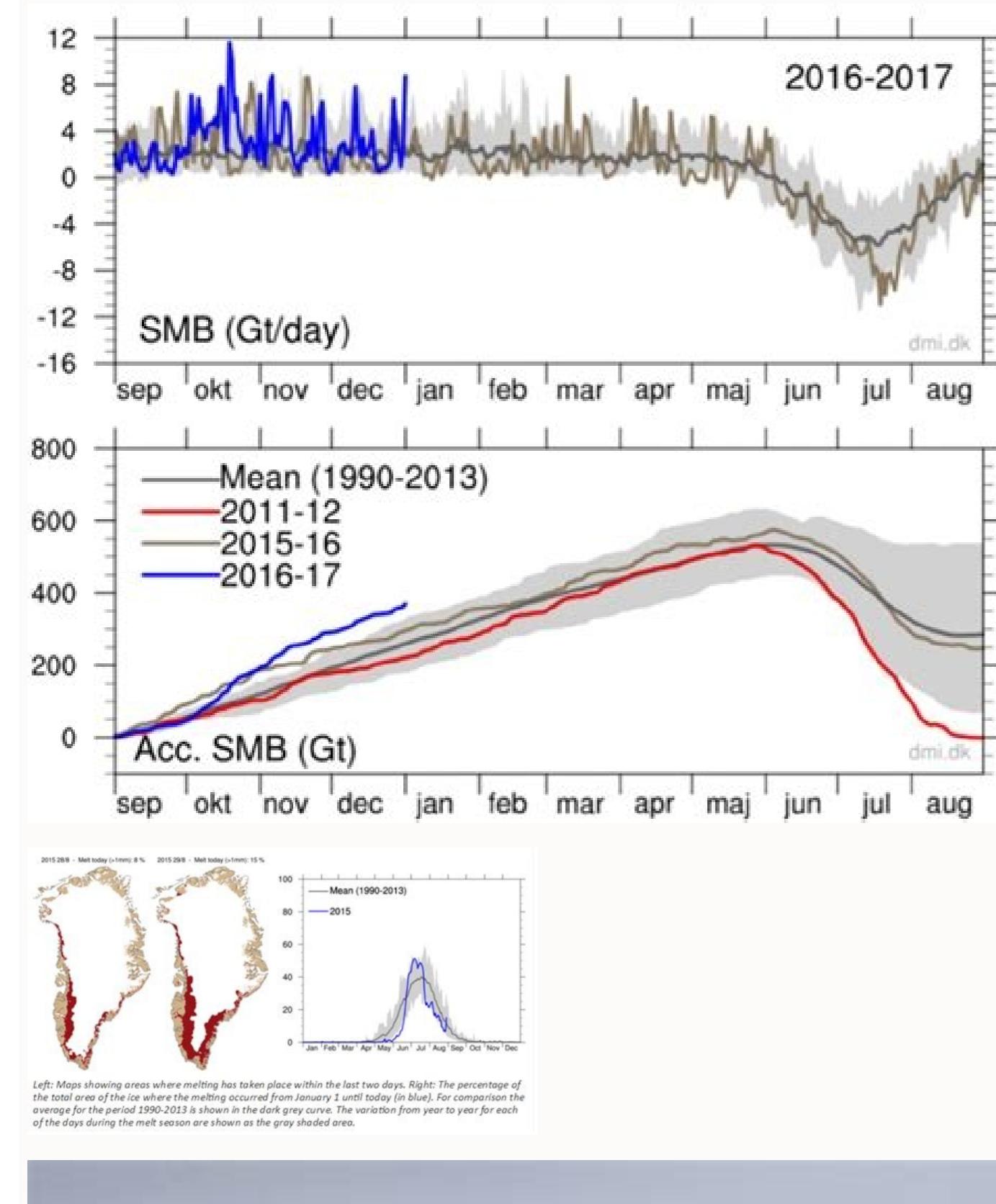


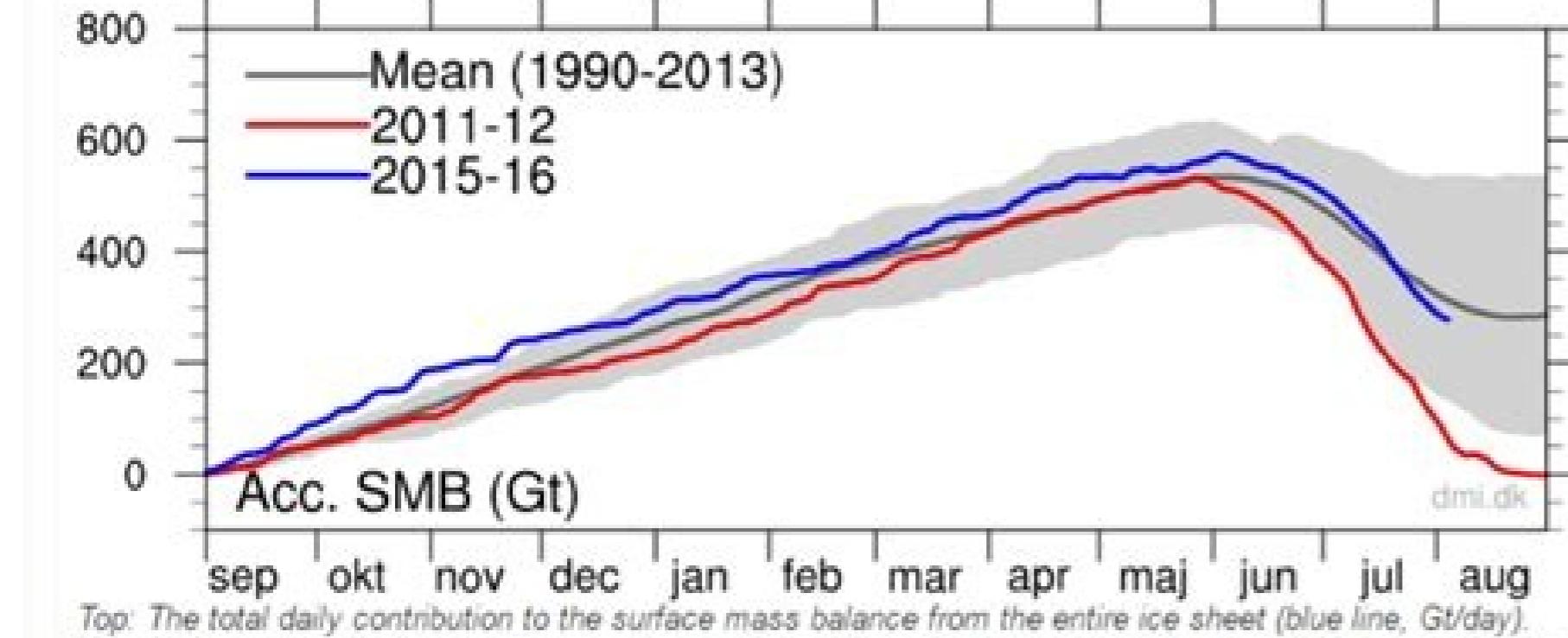
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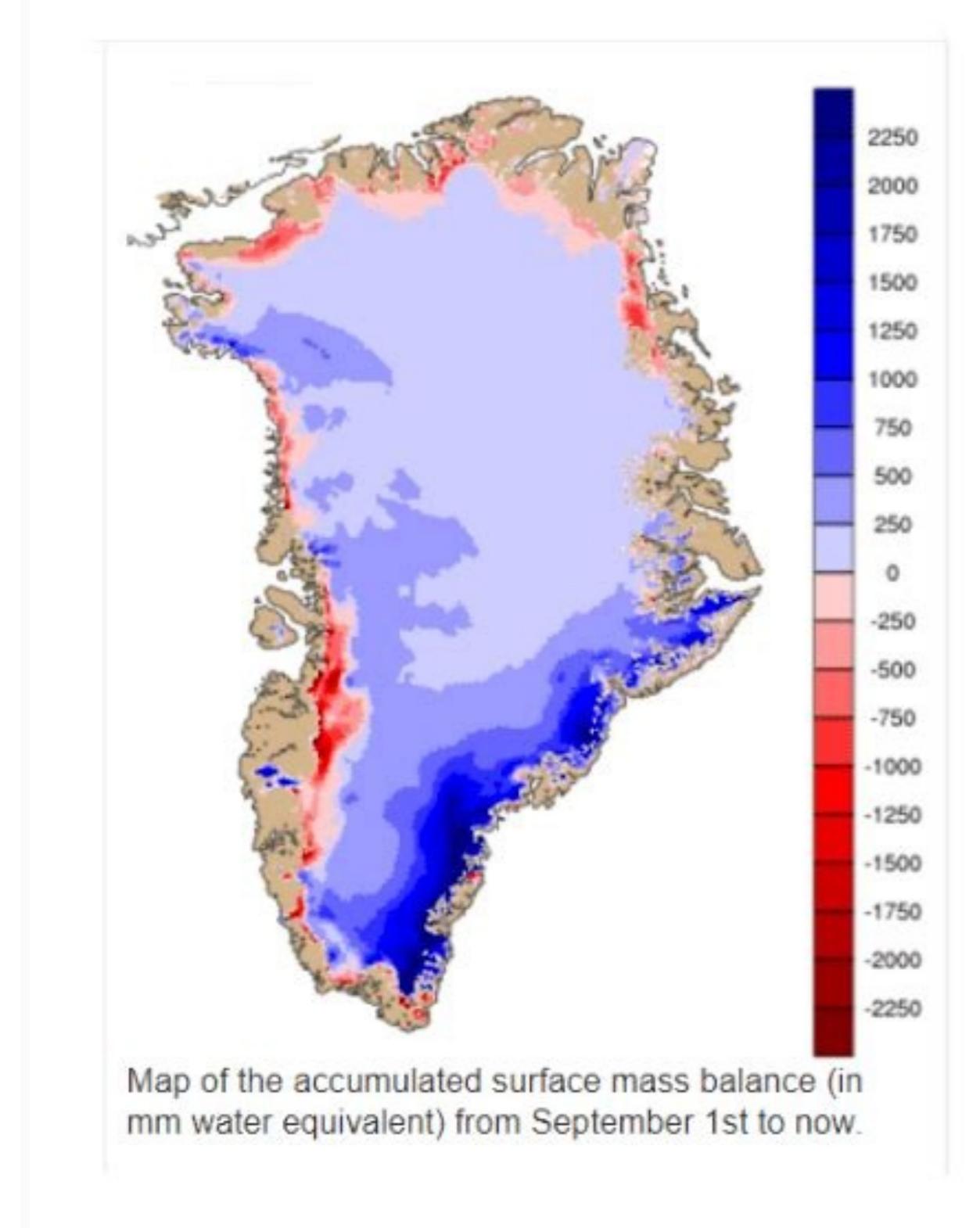
# Greenland ice sheet surface mass budget dmi



Left: Maps showing areas where melting has taken place within the last two days. Right: The percentage of the total area of the ice where melting occurred from January 1 until today (in blue). For comparison the average for the period 1990-2013 is shown in the dark grey curve. The variation from year to year for each of the days during the melt season is shown in the grey shaded area.



Top: The total daily contribution to the surface mass balance from the entire ice sheet (blue line, Gt/day). Bottom: The accumulated surface mass balance from September 1st to now (blue line, Gt) and the season 2011-12 (red) which had very high summer melt in Greenland. For comparison, the mean curve from the period 1990-2013 is shown (dark grey). The same calendar day in each of the 24 years (in the period 1990-2013) will have its own value. These differences from year to year are illustrated by the light grey band. For each calendar day, however, the lowest and highest values of the 24 years have been left out.



# 2016

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'A aigoop alleuQ Budget page of the daily mass balance is freely available for search purposes from the DMI research department. While a rapid attribution studio revealed that a so far event would have been Å c. c. Å "virtually impossible" without the underlying influence of man caused by man was primarily driven by a meandering jet stream. Å Over the western part of Canada and the US, a huge ÅÄÄAblockingÅÄÄ high pressure system formed. This means that the period September 2020 to August 2021 ranks as 28th lowest out of a 41-year timeseries. Although this year was not a record ice loss year in Greenland, when we also account for calving, it was still the 25th year in a row where the ice sheet lost more ice than it gained. Å Å Å The total mass balance for 2020-21 is a loss of around 166Gt of ice from Greenland ÅÄÄ close to the total ice lost each year for the period 1986-2021. Å Å Å This means that 2021 is the 25th year in a row where Greenland has lost more ice than it gained. The grey line shows the 1986-2010 average. In this quest post, we unravel the processes of ice sheet melt, glacier calving, weather and climate that explain these losses. Shaped like the capital Greek letter Omega (Å©), such a flow pattern occurs regularly, but has never been observed with such a strength. Å The jet stream was diverted far to the north into the Canadian Arctic. Given the calving and ocean melt losses from Greenland this year, we were lucky the surface mass budget was so high, increasing snowfall and cool summers will not always help to balance the ice budget. This data is not processed in near real time and is openly available, allowing us to monitor the whole ice sheet budget. The river draining about 12000 km<sup>2</sup> of the inland ice, 6am, rates observed. More information: PROMICE This year's data for the total contribution can be downloaded here. However, it also loses ice by other processes, the ice budget. 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