

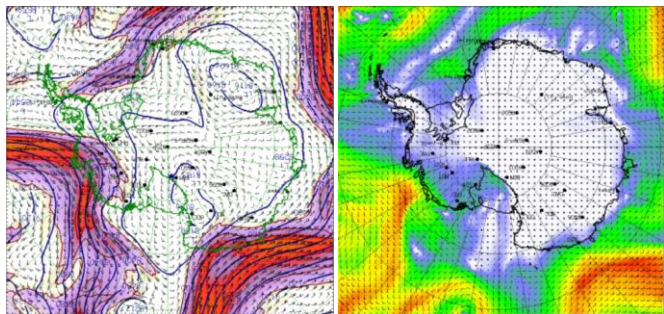
300hPa

IVT

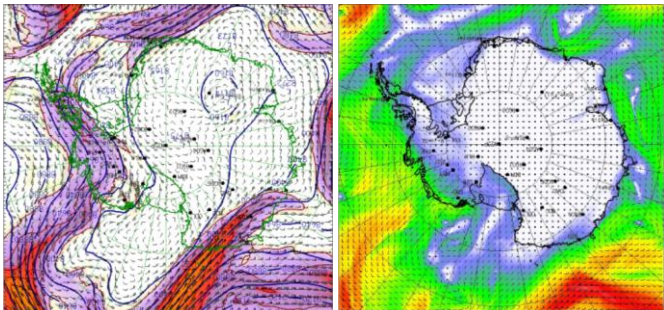
Discussion

Date Issued: 4-25-2022

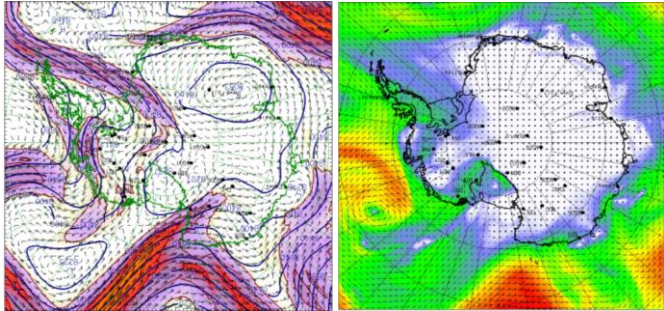
Activate TOPS Davis	Day 1-3 Day 4-6 Day 7-10	Weak No No	Activate TOPS Casey	Day 1-3 Day 4-6 Day 7-10	Weak Weak No	Activate TOPS McMurdo	Day 1-3 Day 4-6 Day 7-10	Weak No Weak	Activate TOPS Palmer	Day 1-3 Day 4-6 Day 7-10	No Weak Yes
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Tue



Thu



Sat (UTC)

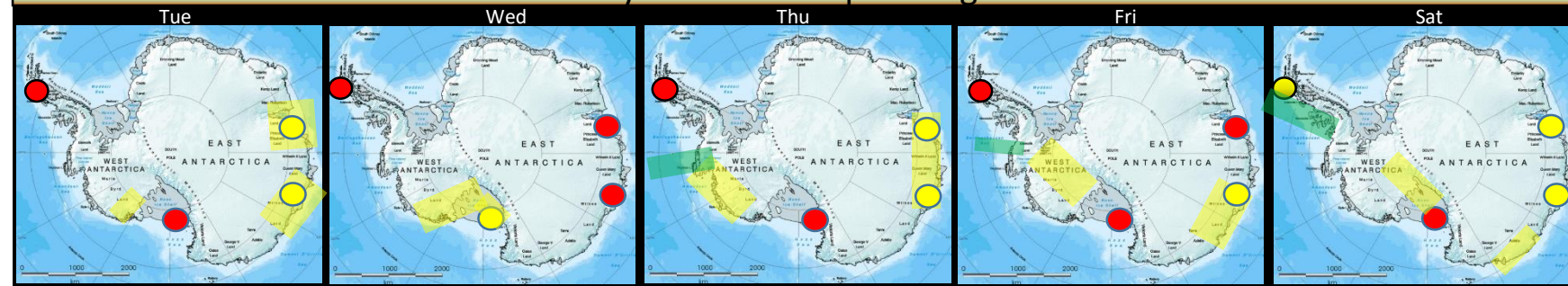
The four wave pattern in the jet is short lived and although it is producing stormy conditions over most locations there has not been a continuous/intact flow with a major push inland. Even over West Antarctica a harder push was projected in last weeks extended outlook that now has shown to be weaker over time.

The steering flow over West Antarctica will stay organized enough to provide an impact over the mid to northern parts of the Antarctic Peninsula this weekend. This region is the best opportunity in the current forecast models but may lose its push southward as the jet winds weaken around South America on Saturday.

Davis and Casey Station will have the continuous parade of stalled frontal boundaries along their coast with the greatest intrusions occurring today and again on 2 May. All of these systems have limited intrusions and best seen using low level temperature values to depict the extent of the impact. There is a lack of mid-level to upper level flow that exists into the interior over this area from the oceanic region.

Ross Island will have a couple depressions move from Western Antarctica though the Ross Ice Shelf providing stormy conditions but both systems on Thursday as well as Saturday/Sunday will be far removed and highly modified from the initial flow that pushed in from the Amundsen Sea.

6 Day Predicted Impact Regions



Best Guesses for 10 Day Outlook: None expected – Attached below are significant patterns identified in narrative

Extended Outlook:

Davis – Casey: The best activity will be Monday at Casey Station with limited advances inland.

Ross Island area: West Antarctica flow is too weak to provide a solid Atmospheric River into Ross Island region but the area will experience some storm conditions as the low pressure systems pass on their northward track into the Ross Sea.

Palmer area: Early next week has the greatest potential but the lack of upper level wind support is concerning that it may not have the strength to be significant.

AUS

EC- 2 May 2022 15Z
925hPa Wind/Temp

Davis Casey

Princess E.–Wilkes Land 2 May

NZ

EC- 1 May 2022 12Z
925hPa Wind/Temp

RI

George V – M. Byrd Land 1 May

PA

EC- 2 May 2022 21Z
925hPa Wind/Temp

Roth

Antarctic Peninsula 2 May