

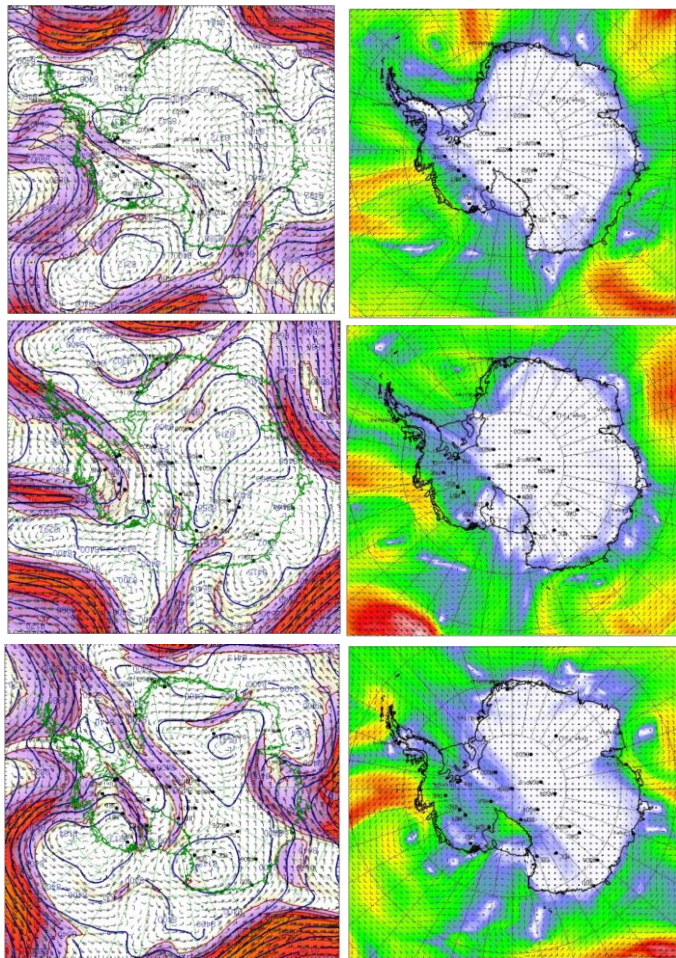
300hPa

IVT

# Discussion

Date Issued: 4-04-2022

Activate TOPS <b>Davis</b>	Day 1-3 Day 3-5 Day 5-10	No Weak No	Activate TOPS <b>Casey</b>	Day 1-3 Day 3-5 Day 5-10	No No Weak	Activate TOPS <b>McMurdo</b>	Day 1-3 Day 3-5 Day 5-10	No No No	Activate TOPS <b>Palmer</b>	Day 1-3 Day 3-5 Day 5-10	No Weak Potential
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Tue

Thu

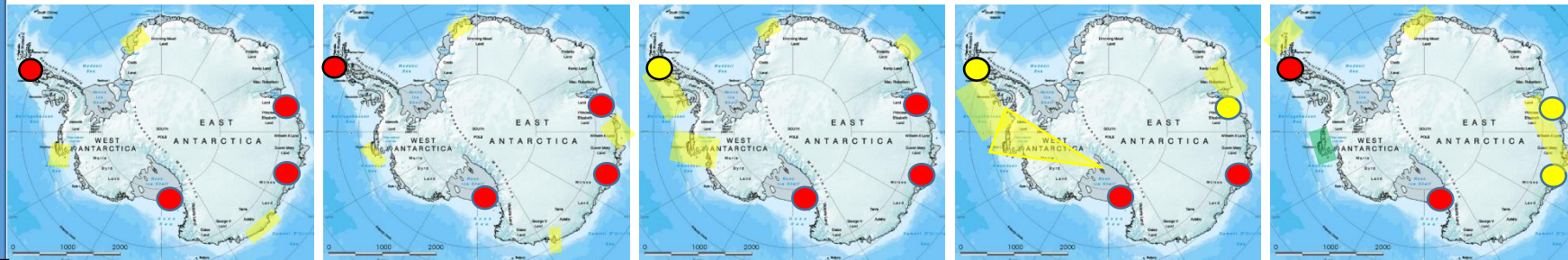
Sat  
(UTC)

The Jet Flow has a distorted pattern this week and presents a couple weak opportunities over both hemispheres. The Peninsula has a deeper signature with a series of depression that stems from the Western Pacific. A series of lows and associated frontal boundary will migrate through the Amundsen Sea into the Bellingshausen. This is developing a deep ridge over the entirety of Western Antarctica and will have a trough from the Pacific Ocean into Palmer Land. Over this period there is no single push into Antarctica. The upper level support weakens above 700hPa and is associated with several shortwave troughs which is why I would project this as a minor or weak intrusion. The highly modified intrusion does extend across the Ross Ice Shelf and toward Ross Island on Saturday but is disjointed with several embedded waves. When the energy crosses into the Weddell Sea next week, it may have a more serious impact as it should stall and force following systems to have a greater southward trajectory.

A migratory systems will have a decaying wave just off the Amery Ice Shelf. This will impact both Davis and Casey Station through the week but the strong circumpolar flow will only allow a minor intrusion, most predominate on Saturday and retreating off continent by Monday.

AUS NZ PA  
 Davis-Casey Roth  
 May 2022 15Z 700hPa  
 Wind/Temp  
 RI

## 6 Day Predicted Impact Regions



Tue

Wed

Thu

Fri

Sat