

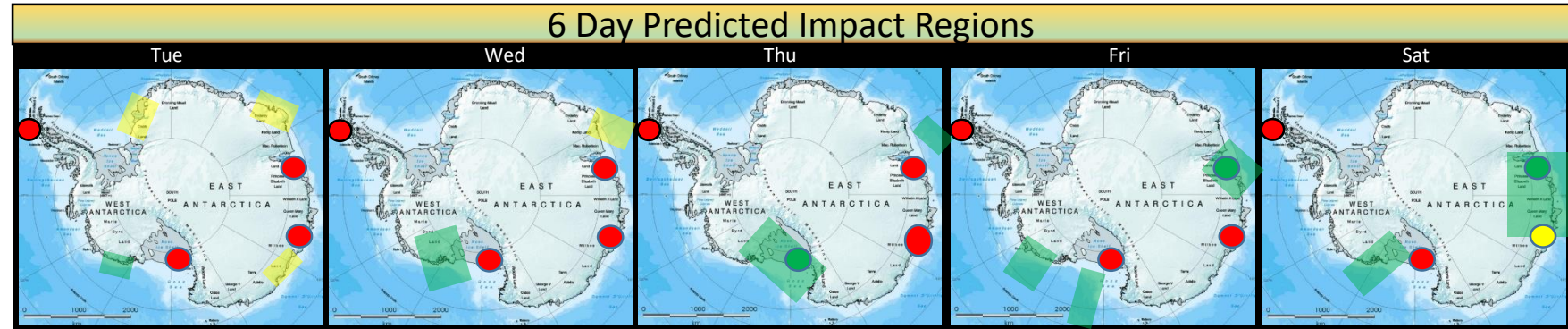
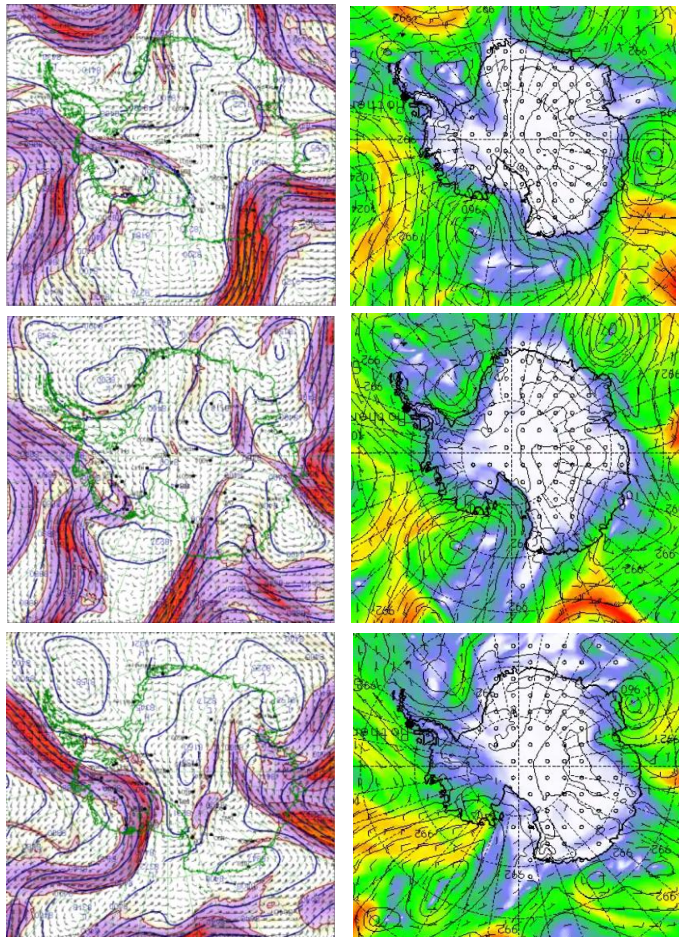
Discussion

Date Issued: 5-23-2022

Activate TOPS Davis Day 1-3 No Day 4-6 Yes Day 7-10 No	Activate TOPS Casey Day 1-3 No Day 4-6 Weak Day 7-10 No	Activate TOPS McMurdo Day 1-3 No Day 4-6 Yes Day 7-10 Yes	Activate TOPS Palmer Day 1-3 No Day 4-6 No Day 7-10 No
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The steering levels are favoring AR intrusions over Eastern Antarctica's areas of interest and the Ross Sea. A deep low coming out of the Indian Ocean will provide favorable conditions This weekend easing by Monday. A flow arching across from Wilkes Land into Victoria Land will impact AR's intruding into the Southern Ross Ice Shelf.

- Davis and Casey will see the strongest push approaching on Thursday and easing on Monday. This system is currently depicted to override the surface air mass but has ample support aloft to indicate a measurable conditions.
- An upper level circulation is centered over the Ross Sea for much of the period. A number of waves will push AR's from Marie Byrd Land into the Transantarctic's over the next week. An off continent flow will create katabatic conditions that will hinder the duration, impact, and west migration of each wave.
- The strong off continent flow over the Ellsworth Land will keep AR's away from the Peninsula this week and not expected to subside over the next 10 days.



Extended Outlook:
Davis – Casey: The AR over the weekend will ease by Monday and the meridional flow in this area weakens through the remainder of the period.

Ross Island area: A second AR will approach from the eastern Ross Ice Shelf on the 31st and expected to impact Ross Island and the coastal stations to the north during this period.

Palmer area: No AR's are expected through the 10 day outlook but the pattern of off continent flow, appears to be changing by late next week.

Best Guess for 10 Day Outlook

<p>AUS</p> <p>EC- 29 May 2022 12Z 925hPa Wind/Temp</p> <p>Princess E.–Wilkes Land 29 May</p>	<p>NZ</p> <p>EC- 29 May 2022 12Z 850hPa Wind/Temp</p> <p>George V – M. Byrd Land 31 May</p>	<p>PA</p> <p>EC- 1 Jun 2022 21Z 600hPa Wind/Temp</p> <p>Antarctic Peninsula 1 Jun</p>
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