

300hPa

IVT

Discussion

Date Issued: 5-09-2022

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

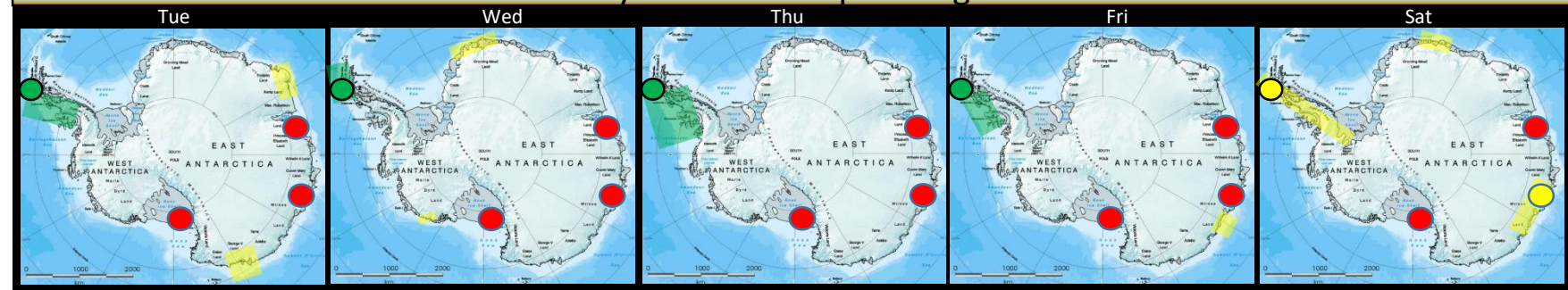
Thu

Sat (UTC)

Globally the polar jet migration northward is evident on the 300hPa level over previous weeks. By Saturday the pattern is indicating extensive meridional flows over the Peninsula which will weaken and migrate eastward into the Weddell Sea by the middle of next week. A push from the Jet Stream over Wilkes Land will support an intrusion on to the plateau to near 70 South just east of Casey Station.

- Migrating lows continue to skirt the East Antarctic Coast. A well supported frontal boundary will park just north of Casey Station on Friday. This will push a weak AR inland originating from Tasmania and surface temperatures increasing as much as 20C as far inland as 72-South.
- Ross Island region will be clear of any AR's this week as a large cyclonic flow over the ice shelf continues to be fed from Western Antarctica.
- The Peninsula will see it's first measurable AR through this week as a series of cyclones pass around the upper level low providing a consistent steering flow over the region.

6 Day Predicted Impact Regions



Best Guess for 10 Day Outlook

<p>AUS NZ</p> <p>EC- 15 May 2022 12Z 700hPa Wind/Temp</p> <p><i>Princess E.–Wilkes Land 15 May</i></p>	<p>AUS NZ</p> <p>EC- 16 May 2022 12Z 925hPa Wind/Temp</p> <p><i>George V – M. Byrd Land 16 May</i></p>	<p>PA</p> <p>EC- 16 May 2022 12Z 925hPa Wind/Temp</p> <p><i>Antarctic Peninsula 16 May</i></p>
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Extended Outlook:
Davis – Casey: Casey and area's east will have a minor event late this week with a final push from the jet driving moisture and temperatures inland peaking on 15 May.

Ross Island area: No AR's are expected through the period.

Palmer area: A moderate AR over the Peninsula will see several advances over the next 10 days. TOPS has been activated for this region. The strongest AR support next Monday should advance the supporting system east into the Weddell Sea by the 18th ending the event.