

Discussion

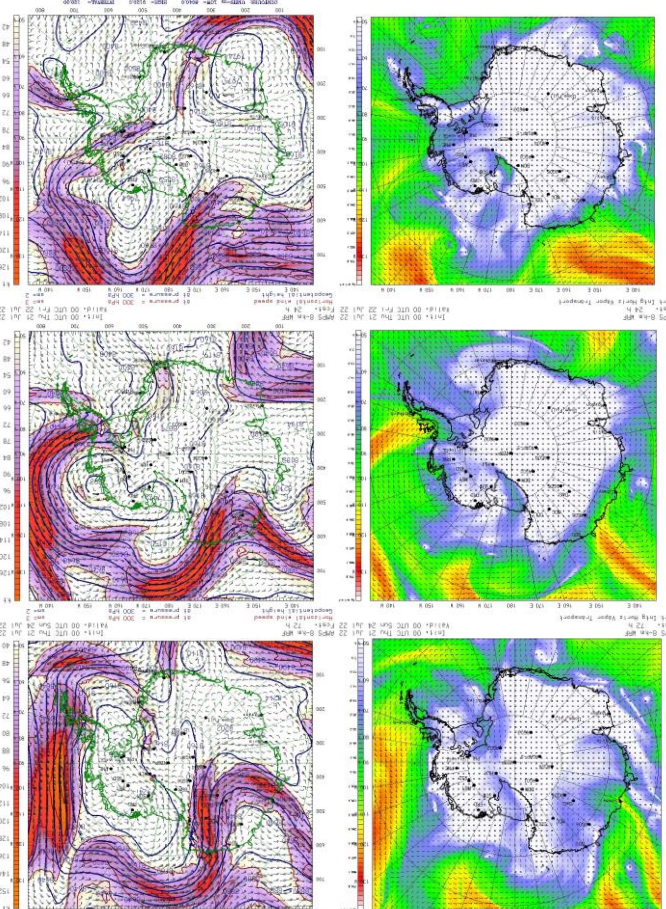
Date Issued: 07-21-2022

Activate TOPS Davis Day 1-3 No Day 4-6 No Day 7-10 No	Activate TOPS Casey Day 1-3 No Day 4-6 Yes Day 7-10 Weak	Activate TOPS McMurdo Day 1-3 Weak Day 4-6 No Day 7-10 No	Activate TOPS Palmer Day 1-3 No Day 4-6 Yes Day 7-10 Yes
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Fri +24hr

Sun +72hr

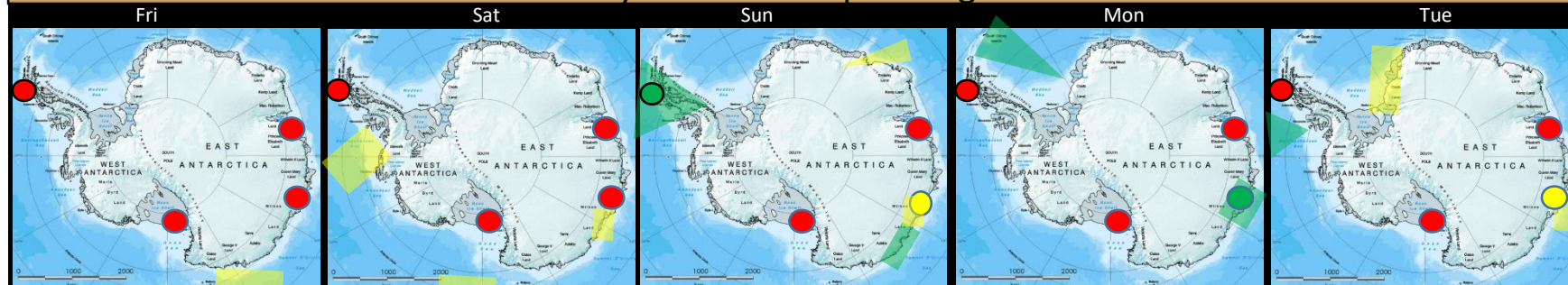
Tue +120hr



There are two predominate flows around the four spoke pattern, one centered over Wilkes Land and the other over Palmer Land. A Jet flow over Casey Station will continue through the period. The flow over Palmer Land will be pushed north as the upper level Low repositions this will drive the Jet Max around the Peninsula into the Weddell Sea by Monday. This flow will stay strong over the tip of the peninsula going into next week.

- A distal Low stalling just off the coast of Casey Station will move an AR over Wilkes Land migrating east through George V Land early next week.
- Current Low pressure on the Ross Ice Shelf will sweep east of Ross Island. The remainder of the period will be dominated by the flow coming off the Plateau High Pressure system..
- Migratory Lows transiting through the Bellingshausen Sea will provide the most rigorous activity with a measurable but fast moving AR's into the Weddell over the weekend.

6 Day Predicted Impact Regions



Best Guess for 10 Day Outlook

Davis Casey

EC 925HPa Temp
w/SFC Press

Princess E.–Wilkes Land

NZ

EC SFC
Wind/Temp/Press
RI Wed->Sat

George V – M. Byrd Land

PA

Roth

EC 400hPa Wind
w/SFC Press
Wed->Sat

Antarctic Peninsula

Extended Outlook:

Davis – Casey: The distal system will slowly fill off the coast of Casey as the activity over Wilkes Land ends by Mid-week.

Ross Island area: No change in the dominance of plateau air mass over this region, coupled with a broad barrier wind over the Ice Shelf following the pattern of the upper level Low.

Palmer area: Quick moving systems along the Jet flow will bring AR's over the region mostly impacting the northern tip of the Peninsula through this period.