

# Discussion

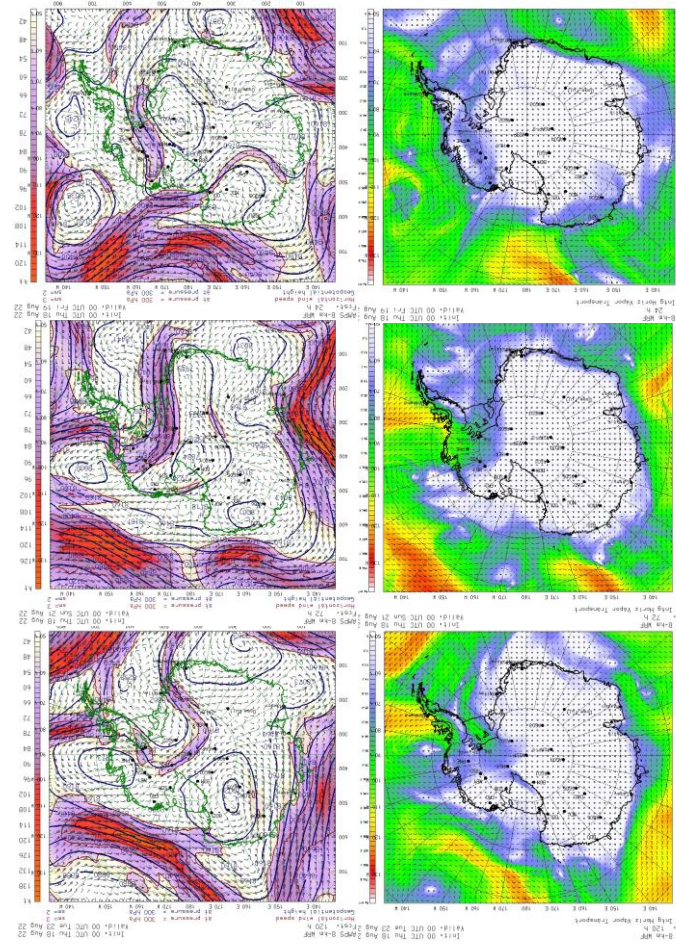
Date Issued: 08-18-2022

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

Sun +72hr

Tue +120hr

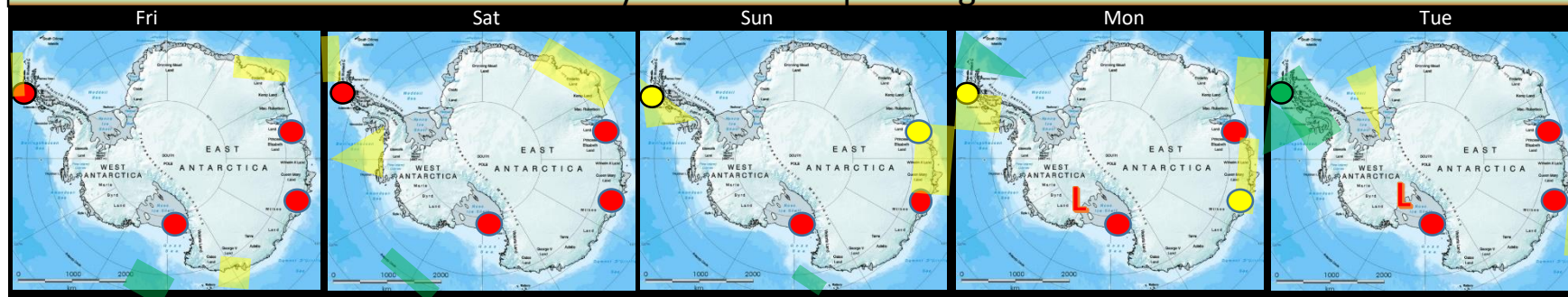


-At least the pattern has been consistent over this winter – (*\*potential pattern change the 27<sup>th</sup>???*)

As previous patterns, the lull in activity will be replaced with two intrusions, one sliding across East Antarctica from Mawson to Casey starting Friday and during the same period the jet ridging into Marie Byrd Land will strengthen as cyclones push into the Peninsula.

- A frontal boundary will extend over the coastline beginning at Mawson on Friday. A second push along this system will drive an AR along the coastline from Davis to Casey over the weekend. This system will have a minimal intrusion into the interior on its eastward trajectory.
- A prevailing ridge in the upper levels extends into the northern Ross Sea through this period with cyclones passing eastward through the Amundsen Sea. With a prevailing off continent flow along the Transantarctic Mts., no AR's are expected during this period.
- Two frontal boundaries will drive measurable AR's over the Peninsula beginning Sunday with the strongest projected early next week.

## 6 Day Predicted Impact Regions



## Best Guess for 10 Day Outlook (24-27<sup>th</sup>)

### Extended Outlook:

**Davis – Casey:** Cyclones passing north of Kemp to Wilkes Land will remain seaward in a mostly zonal flow through this extended period with no AR's expected.

**Ross Island area:** A depression with a complete cyclonic flow in the lower levels will form over the Ross Ice Shelf causing stormy conditions over Ross Island by late Tuesday through Wednesday of next week as it migrates north. *\* Note EC SFC Press-400hPa on Saturday 27 Aug shows a stacked low stalled over the Ross Sea. "If" this occurs "near" that location, a series of AR's would impact the Ross Island region just beyond this 10 day outlook period, as troughs swing around the low.*

**Palmer area:** AR activity will continue through next week as multiple cyclones move across the region from the South Pacific with *\*a break* expected by the following weekend to a zonal flow across the Drake.



Storm Tracks Tue>Fri (*\*Sat has possible changes*)