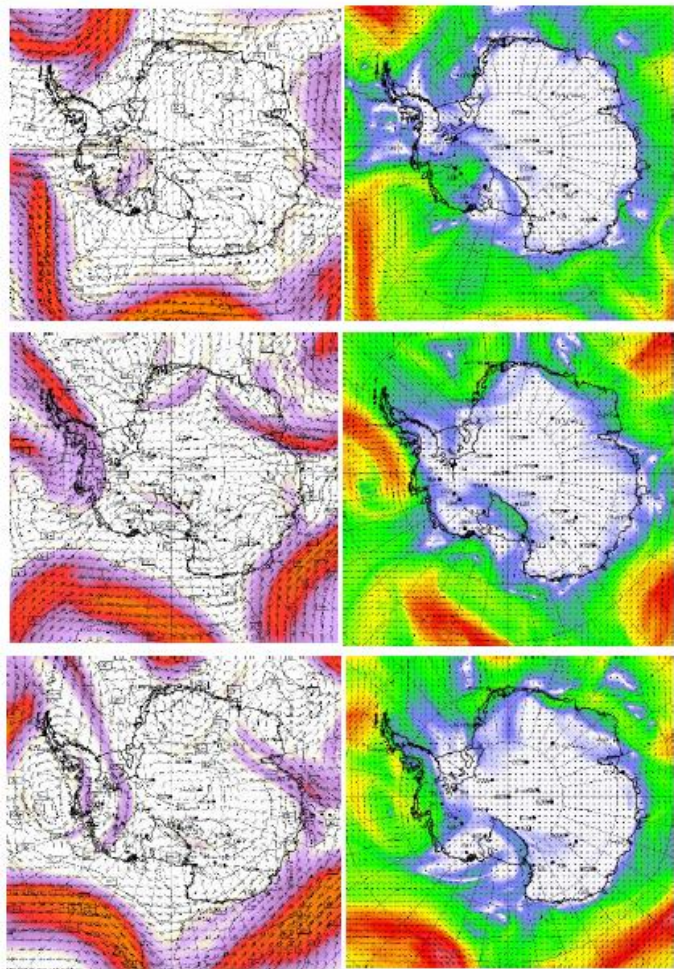


Discussion

Date: 03/28/2022

Activate TOPS Davis	Day 1-3 No	Day 3-5 No	Day 5-10 No	Activate TOPS Casey	Day 1-3 No	Day 3-5 No	Day 5-10 No	Activate TOPS McMurdo	Day 1-3 No	Day 3-5 No	Day 5-10 No	Activate TOPS Palmer	Day 1-3 No	Day 3-5 Moderate	Day 5-10 Yes
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Mon
Wed-Thu
Fri
(UTC)

Weather systems causing intrusions into Antarctica over the past 10 days have weakened as the plateau high is stabilizing. The long wave pattern has increased from 4 to 5-6 spokes which produces shorter lengths and a zonal flow which in turn provides less opportunities over Antarctica.

Strong jet winds are still close in proximity to the Antarctic coastline and a deep trough in the East Atlantic may alter this pattern back to a meridional flow in the extended outlook. A hint in the five day outlook on both ECMWF and AMPS is showing signs of a return to a 4 spoke pattern which would cause a greater amplitude in the Indian Ocean to West Pacific in the future.*

The current shallow wave pattern only presents a potential moderate opportunity over the Peninsula later this week, where an elongated system will extend from the central Pacific into the Drake Passage. At this time, this system should not have pronounced mid-latitude features. A greater potential for Palmer Land may exist in the extreme forecast (5-10 days) as a more prominent jet max pushes through the Ross Sea and heads toward South America with a deeper trajectory.

A stray finger of the jet will support a highly modified intrusion approaching Ross Island mid-week. Although heavy winds and warming temperatures will be expected, the long movement over western Antarctica will deplete any resemblance of mid-latitude features.

Aus NZ
*See ECMWF 2 April 2022 12Z
400hPa Winds from 03/28 00Z run

Casey PA
Davis Roth
RI

Comparative ECMWF for Day 5 (WINDY.COM)

5 Day Predicted Impact Regions



Mon Tue Wed Thu Fri