

300hPa

IVT

Discussion

Date Issued: 4-14-2022

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 No
Day 7-10 No

Activate TOPS
McMurdo

Day 1-3 No
Day 4-6 No
Day 7-10 No

Activate TOPS
Palmer

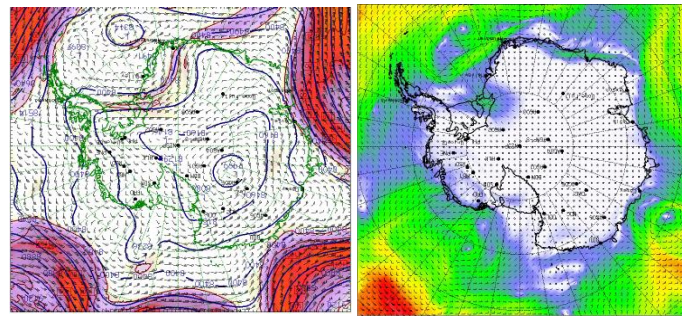
Day 1-3 No
Day 4-6 Weak
Day 7-10 No

A six wave pattern in the jet broadens and weakens over the So. Pacific going into next week. The chaos in the Pacific may present better opportunities beyond this forecast period as it organizes. For the short-term an interesting flow in the mid levels (500hPa) has a tight pattern from Casey to the Ross Sea and pushes hard across Western Antarctica into the Weddell Sea. This limits intrusions for all our areas of interest.

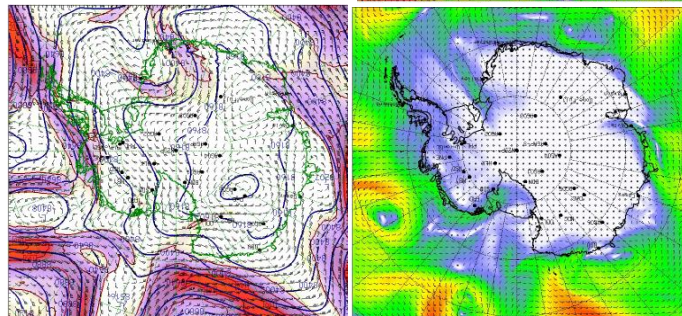
East Antarctica will continue to have migrating lows pass but the Plateau High with cold air damming limits any significant progression of warm air advection.

The steering flow from East Antarctica through West Antarctica will dominate the migration of depressions passing from the Ross Sea into the southern Ross Ice Shelf. This will cause a series of decaying waves with warm air advection from the continuous process over the entirety of Western Antarctica. Katabatic flow from Victoria Land will mostly dominate Ross Island. The well mixed low pressure systems collecting in the Ross Ice Shelf will have minimal impact on Ross Island due to the strong push from the north in the steering pattern keeping most activity to the south and east.

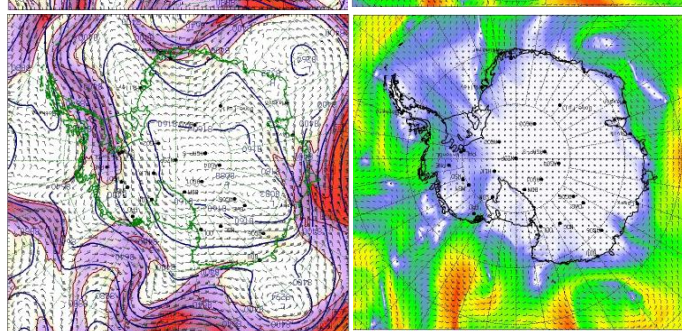
Migrating lows through the Drake Passage appear to have a strong zonal flow through the forecast period and no major intrusions are now expected.



Fri



Sun



Tue (UTC)

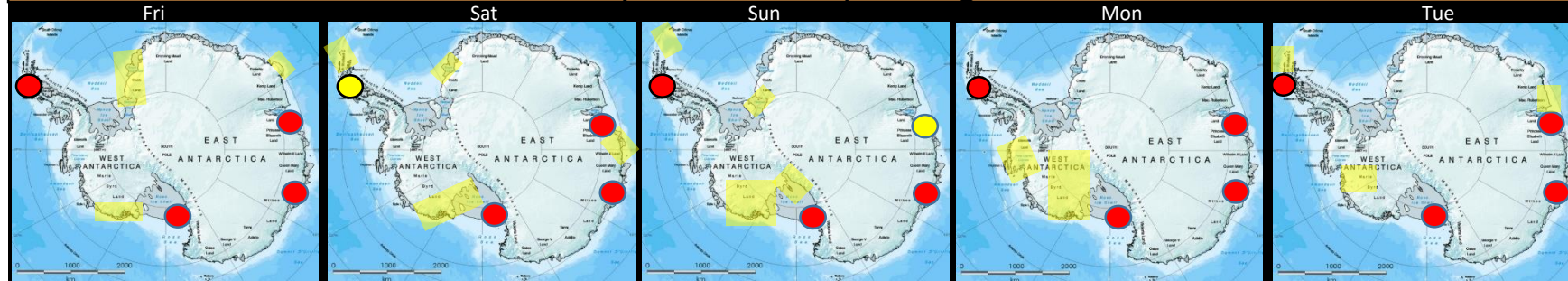
Extended Outlook:

All area's will have some cyclone activity but lack a strong intrusion inland with the exception of West Antarctica.

An interesting pattern is projected on the edge of the forecast period for the Ross Sea

See EC- Sat 23 April 600hPa Wind/Temp For Ross Sea

6 Day Predicted Impact Regions



Best Guesses for 10 Day Outlook = No significant activity

AUS

EC- 20 Apr 2022 03Z
925hPa Wind/Temp
Davis Casey

Princess E.-Wilkes Land 19 Apr

NZ

EC- 17 Apr 2022 21Z
925hPa Wind/Temp
RI

George V - M. Byrd Land 17 Apr

PA

EC- 17 Apr 2022 21Z
925hPa Wind/Temp
Roth

Antarctic Peninsula 19 Apr