

300hPa

IVT

Discussion

Date Issued: 4-18-2022

Activate TOPS Day 1-3 ● No
 Activate TOPS Day 4-6 ● No
 Activate TOPS Day 7-10 ● No

Activate TOPS Day 1-3 ● Weak
 Activate TOPS Day 4-6 ● No
 Activate TOPS Day 7-10 ● No

Activate TOPS Day 1-3 ● No
 Activate TOPS Day 4-6 ● No
 Activate TOPS Day 7-10 ● No

Activate TOPS Day 1-3 ● Weak
 Activate TOPS Day 4-6 ● No
 Activate TOPS Day 7-10 ● No

Davis

Casey

McMurdo

Palmer

Tue

Thu

Sat (UTC)

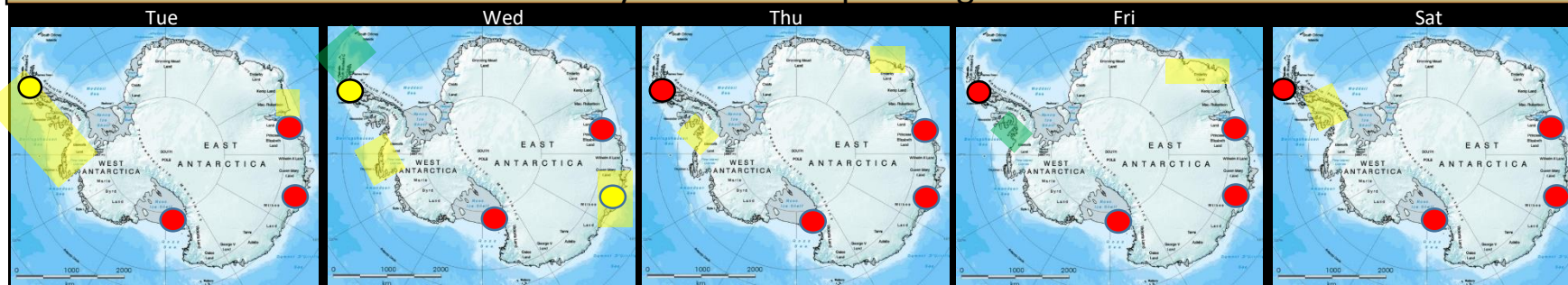
A predominately zonal flow is present around Antarctica except for the broad disruption in the long wave pattern over the South Pacific. Under that unorganized pattern is an assortment of cyclonic and anti-cyclonic flows that are scattered throughout the Pacific. Best guidance on trajectories can be seen at or below the 400hPa level.

Two depressions advancing toward the Bellingshausen Sea through the week will produce stormy weather with the greatest temperature flux occurring on Tuesday over the southern portions of the Peninsula. The best direct northerly flow will occur Friday over Alexander Island but will have very weak properties and lack a push inland.

A series of migrating lows will continue to skirt the East Antarctic coast with the strongest near Casey today. No intrusions into the continent are expected through the forecast period. The Plateau High is very dominate in this region. Probabilities are low, but at the end of the tenth day forecast on the ECMWF, a strong signature is suggested approaching Queen Mary Land.

The weakness in the upper level pattern over the pacific, extends south into the Ross Sea and Ice Shelf. Weak mesoscale circulations will be populating the area through the weekend. A barrier wind will be established early next week and feed into a cyclone off the Ford Ranges on Monday. The mass movement of air off West Antarctica during this process, may provide a future path for an intrusion to follow.

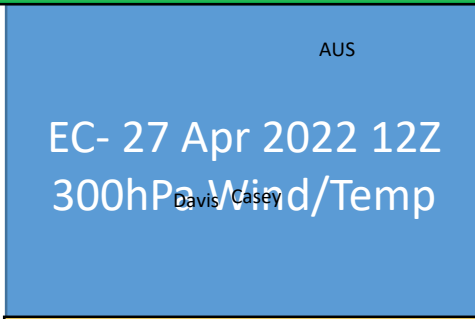
6 Day Predicted Impact Regions



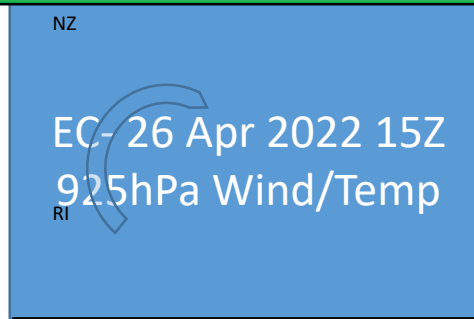
Best Guesses for 10 Day Outlook: None expected – Attached below are significant patterns identified in narrative

Extended Outlook:

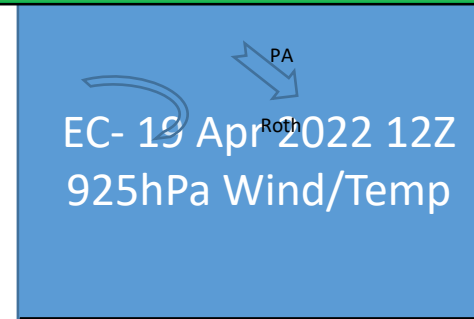
No Atmospheric rivers are expected at any of the locations through the forecast period.



Princess E.–Wilkes Land 27 Apr



George V – M. Byrd Land 26 Apr



Antarctic Peninsula 19 Apr