300hPa AMPS 2022 07/11/00Z IVT

Discussion

Date Issued: **07-11-2022**

Activate TOPS		Activate TOPS		Activate TOPS		Activate TOPS	
Davis	Day 1-3: No	**Casey**	Day 1-3: No	**McMurdo**	Day 1-3: No	**Palmer**	Day 1-3: No
	Day 4-6: Yes		Day 4-6: Yes		Day 4-6: No		Day 4-6: Weak
	Day 7-10: Weak		Day 7-10: Weak		Day 7-10: Weak		Day 7-10: Yes

A four spoke pattern in the upper level steering flow will develop over the week promoting meridional surges throughout the areas of focus. Most significant will be over the Peninsula.

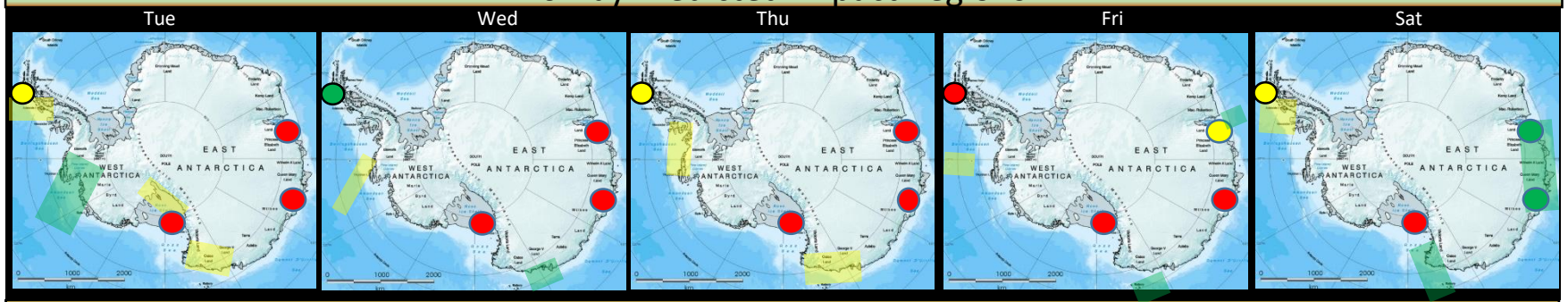
- Davis to Casey Stations will see an AR associated with a migrating frontal boundary over the region late Thursday through Saturday.
- The AR over DDU extending into Victoria Land will move east into the Ross Sea Tomorrow. This will help alter a pathway over DDU and across Victoria Land for the next two approaching systems. Current trajectory has a low moving into the central Ross Sea extending into the Ross Ice Shelf during the weekend.
- A depression will set up in the Bellingshausen Sea with a stalled frontal boundary along the Peninsula's coast by late week. This will provide a continuous path for ARs to move into the region throughout the weekend into the following week ahead.

Tue +24hr

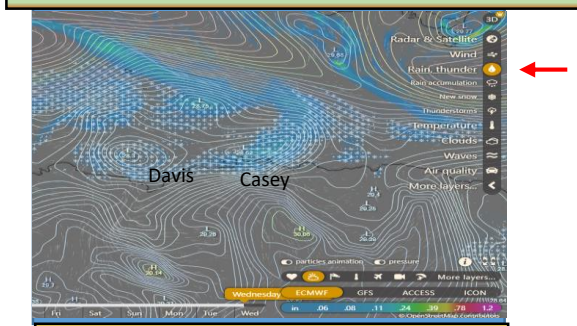
Thu 00Z

Sat +120hr

6 Day Predicted Impact Regions

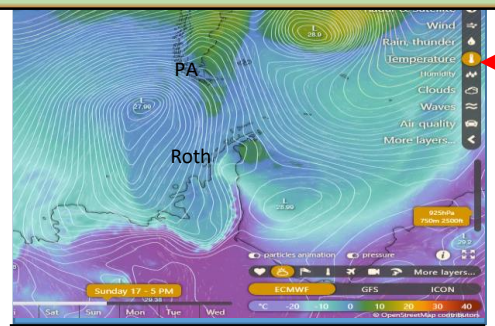


Best Guess for 10 Day Outlook



Princess E.–Wilkes Land 20 Jul

George V – M. Byrd Land 18 Jul



Antarctic Peninsula 17 Jul

Extended Outlook:

Davis – Casey: A double Low pressure system and associated front will lay across the area from Davis to Casey Station on Wednesday. This system will produce ample moisture over the coast but will lack a significant North/South flow to move a thermal intrusion inland.

Ross Island area: A decaying Low will be stacked in the Ross Sea and expected to deepen into next week with a shortwave moving a weak AR westward toward Ross Island.

Palmer area: A series of troughs will move along the stalled frontal boundary and continue to support a primary low in the Bellingshausen Sea with a measurable AR lasting into next week.