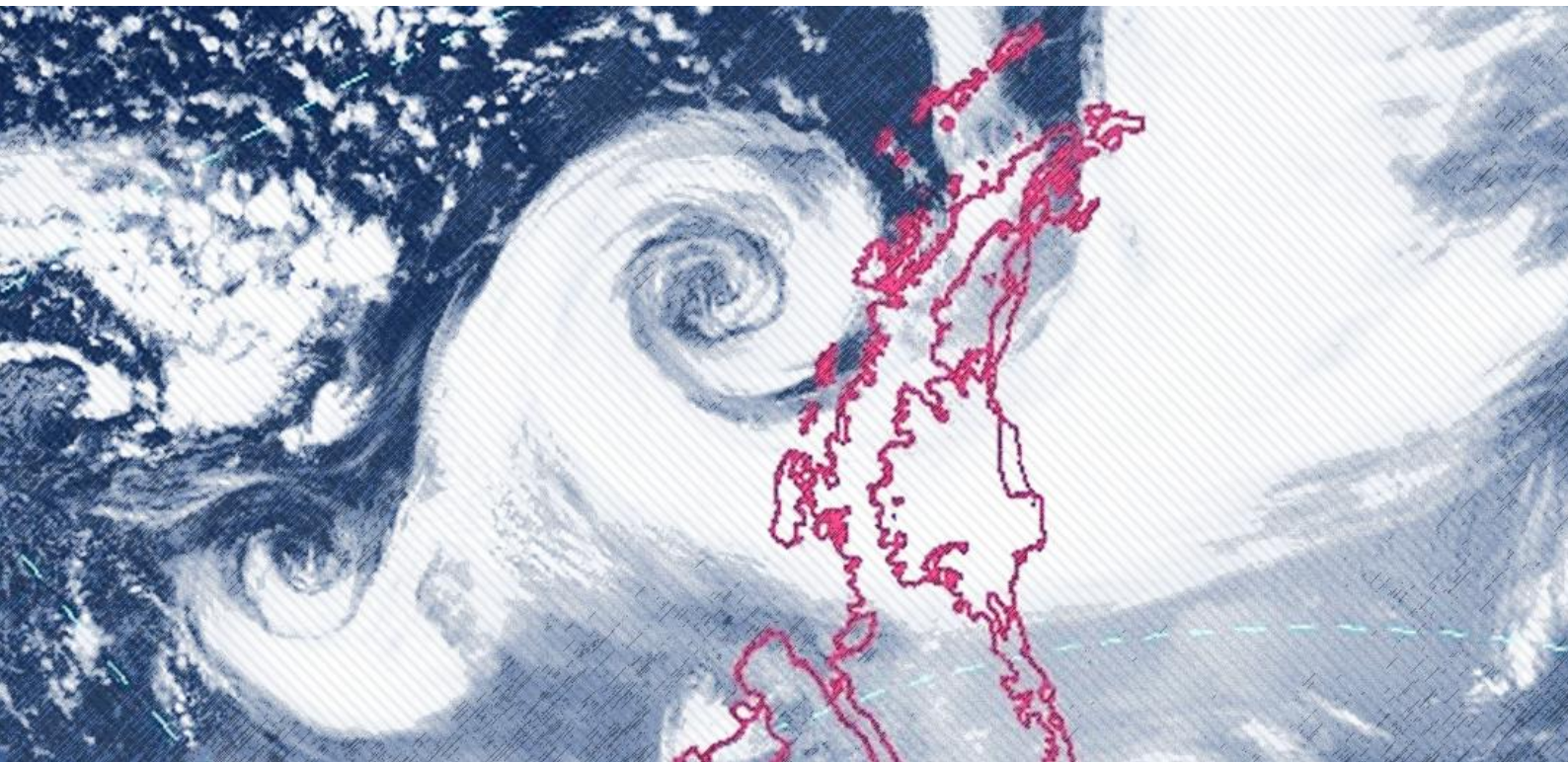




WORLD  
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# MONITORING EXPLOSIVE CYCLONES ON THE COAST OF THE ANTARCTIC CONTINENT



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By Romao, M. and Pires, L. B. M.



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## MONITORING EXPLOSIVE CYCLONES ON THE COAST OF THE ANTARCTIC CONTINENT

JUNE 2024

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During this month, 09 events were registered among the 13 research stations located on the coast of the Antarctic utilized as references for the monitoring of bomb cyclones. The stations hit by a cyclone this month was Davis, Frei, Mawson, Marambio and Fossil Bluff. The cyclone that hit Mawson reached the category of Antarctic Hurricane AH-1.

### TOTAL OF EVENTS REGISTERED IN STATIONS IN JUNE

2017	2018	2019	2020	2021	2022	2023	2024
06	10	12	06	09	09	03	09

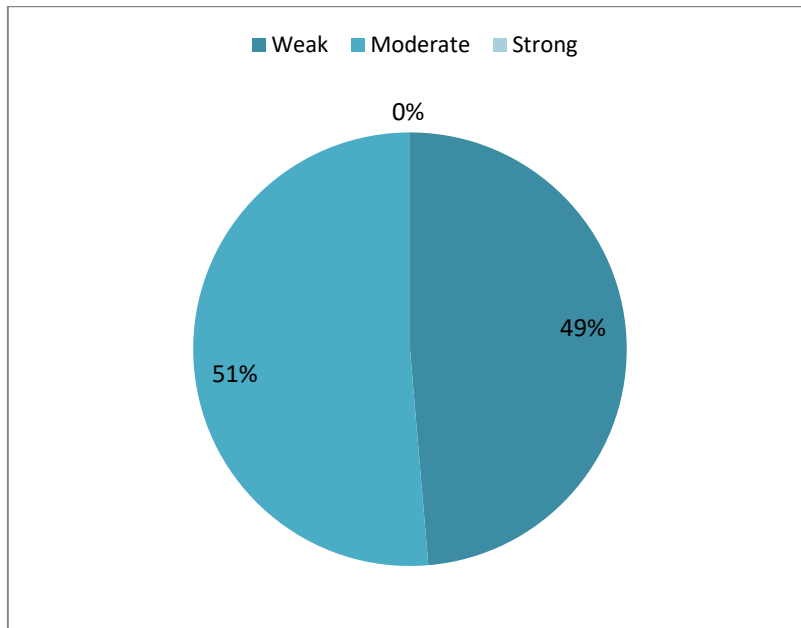
### STATISTICS OF THE MONTH: JUNE 2024

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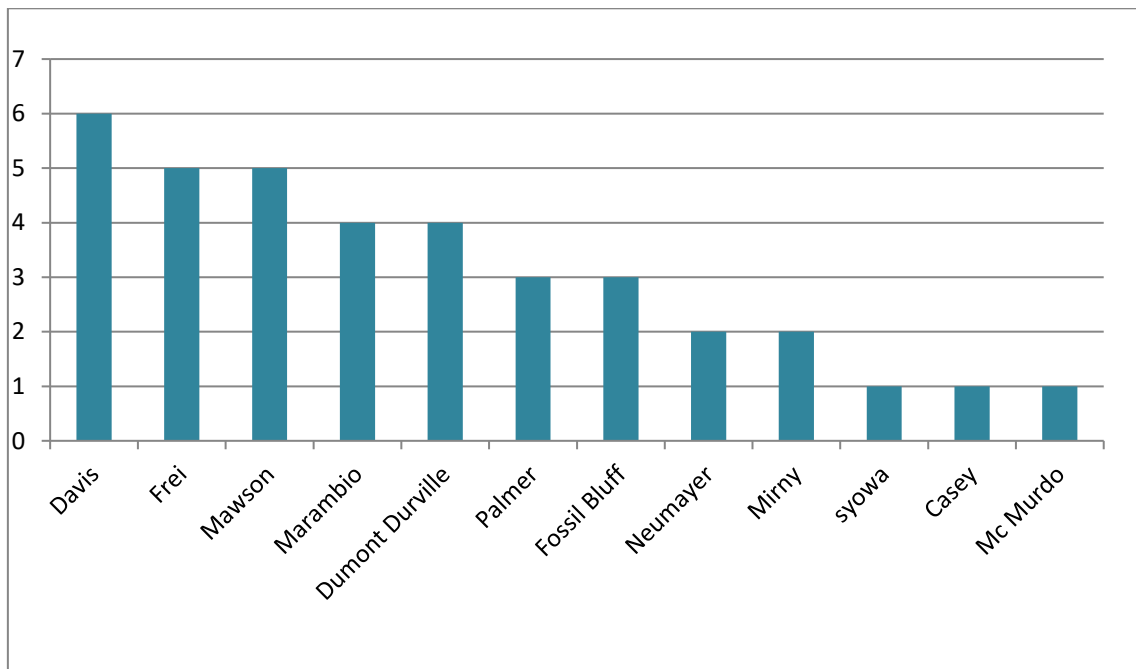
CLASSIFICATION	BERGERON SCALE	INTENSITY	TOTAL OF CASES REGISTERED IN THE MONTH
B1	1 a 1.2	Weak	06
B2	1.3 a 1.8	Moderate	03
B3	> 1.8	Strong	00

HIGHEST PRESSURE DROP	LOWEST RECORDED PRESSURE	HIGHEST SUSTAINED WIND
-37.5 hPa/24h	956.9 hPa	38.0 m/s
Davis Station	Davis Station	Mawson Station
June 11	June 11	June 08

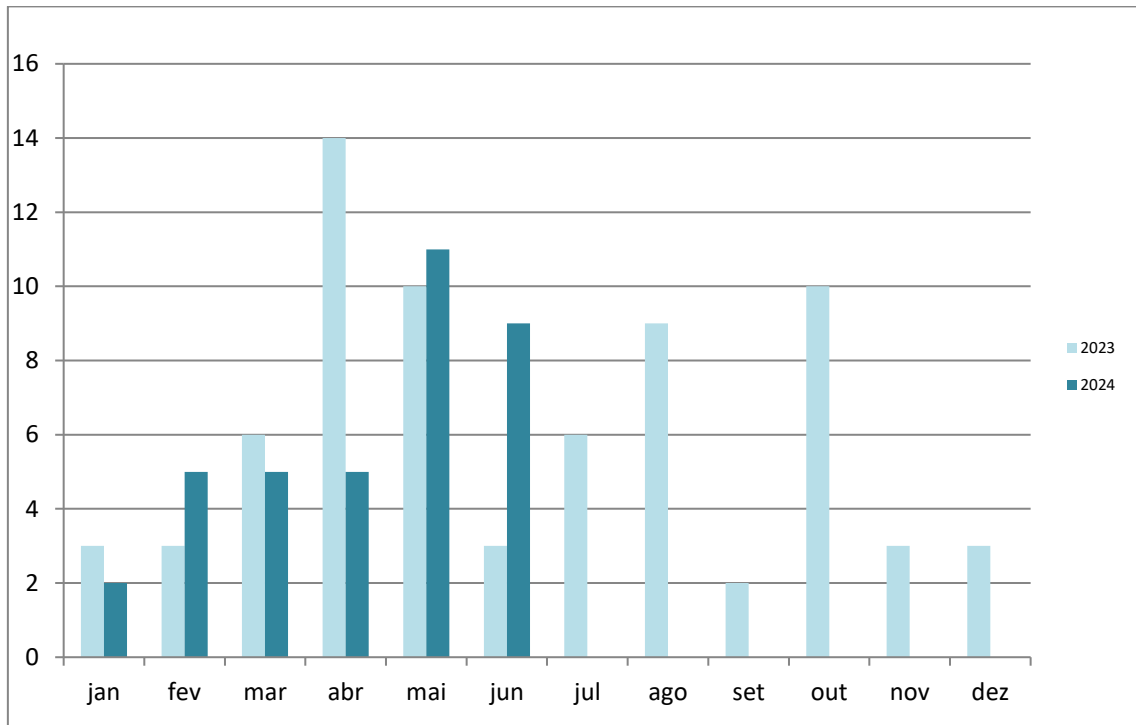
### BERGERON INTENSITY TOTAL OF ANNUAL EVENTS IN 2024



### TOTAL OF EVENTS REGISTERED BY STATION IN 2024

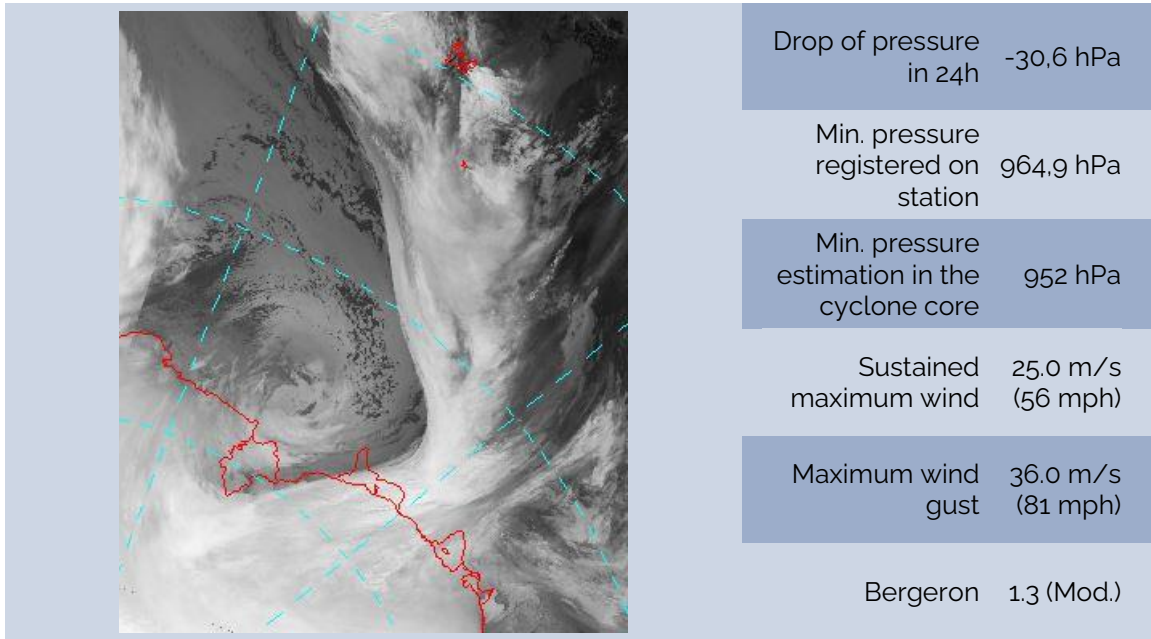


### TOTAL EXPLOSIVE CYCLONES IN THE ANTARCTIC



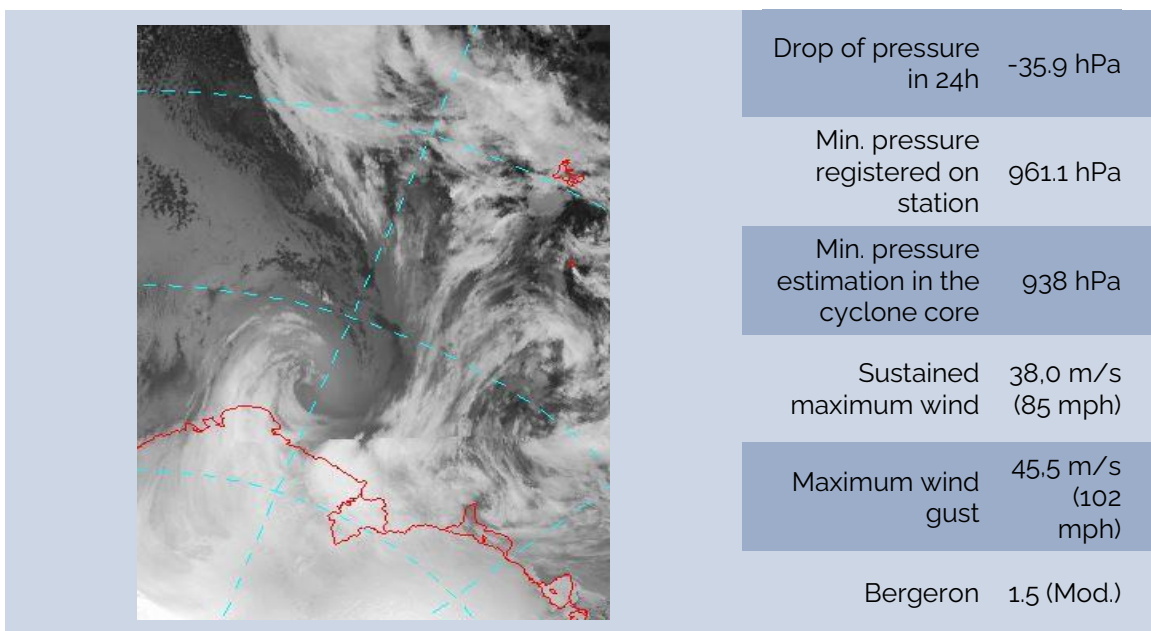
## BOMB CYCLONE N°27/2024 - DATE: June/08/2024

LOCAL: DAVIS STATION – WMO 89571 (OPERATED BY AUSTRALIA)



## BOMB CYCLONE N°28/2024 - DATE: June/08/2024 (AH-1)

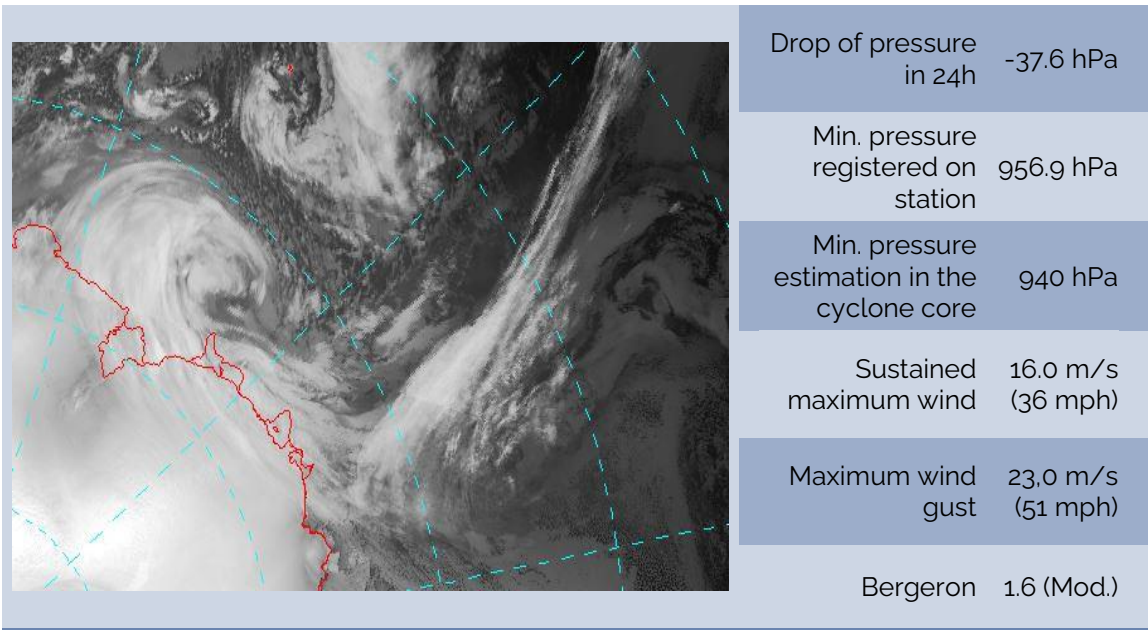
LOCAL: MAWSON STATION – WMO 89564 (OPERATED BY AUSTRALIA)



## BOMB CYCLONE N°29/2024 - DATE: June/11/2024

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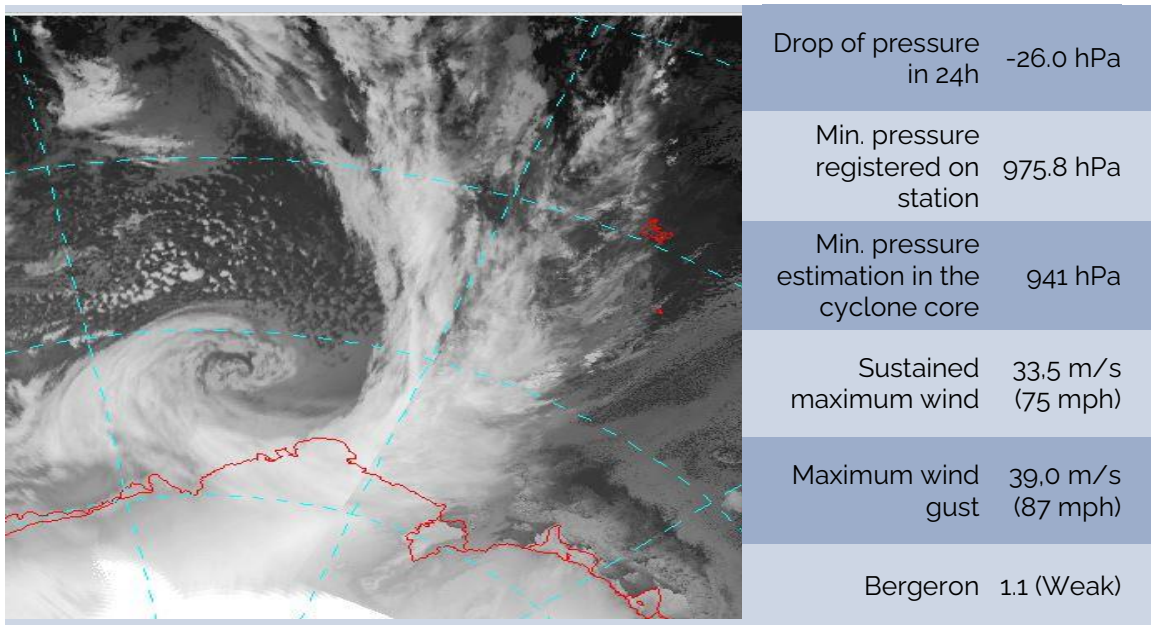
LOCAL: DAVIS STATION – WMO 89571 (OPERATED BY AUSTRALIA)



## BOMB CYCLONE N°30/2024 - DATE: June/20/2024

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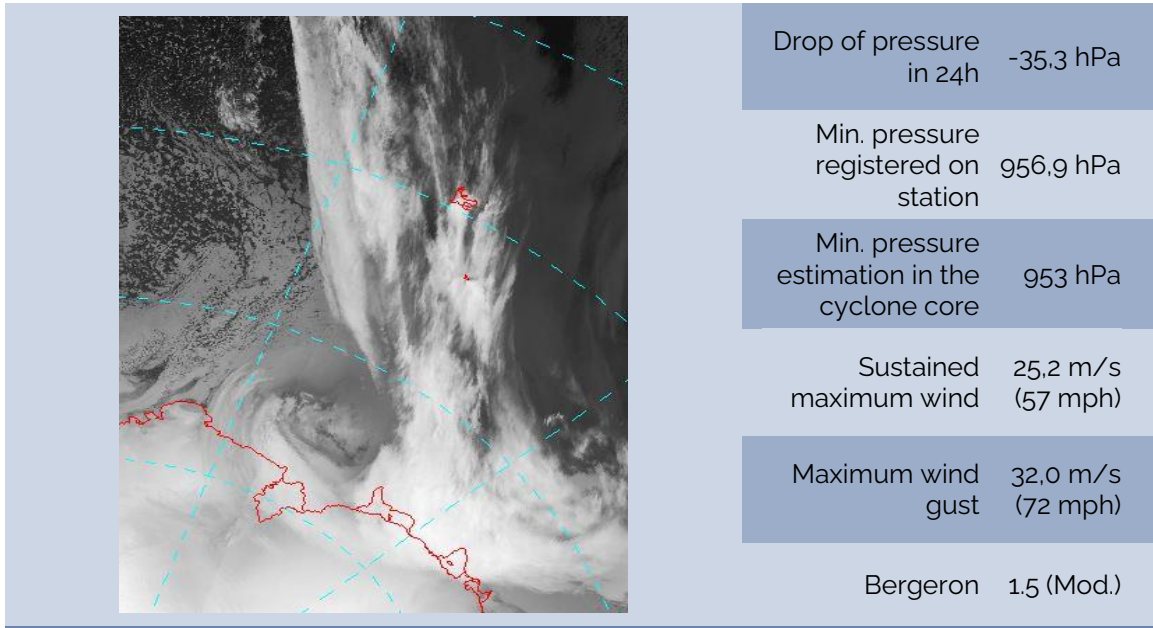
LOCAL: MAWSON STATION – WMO 89564 (OPERATED BY AUSTRALIA)



## BOMB CYCLONE N°31/2024 - DATE: June/23/2024

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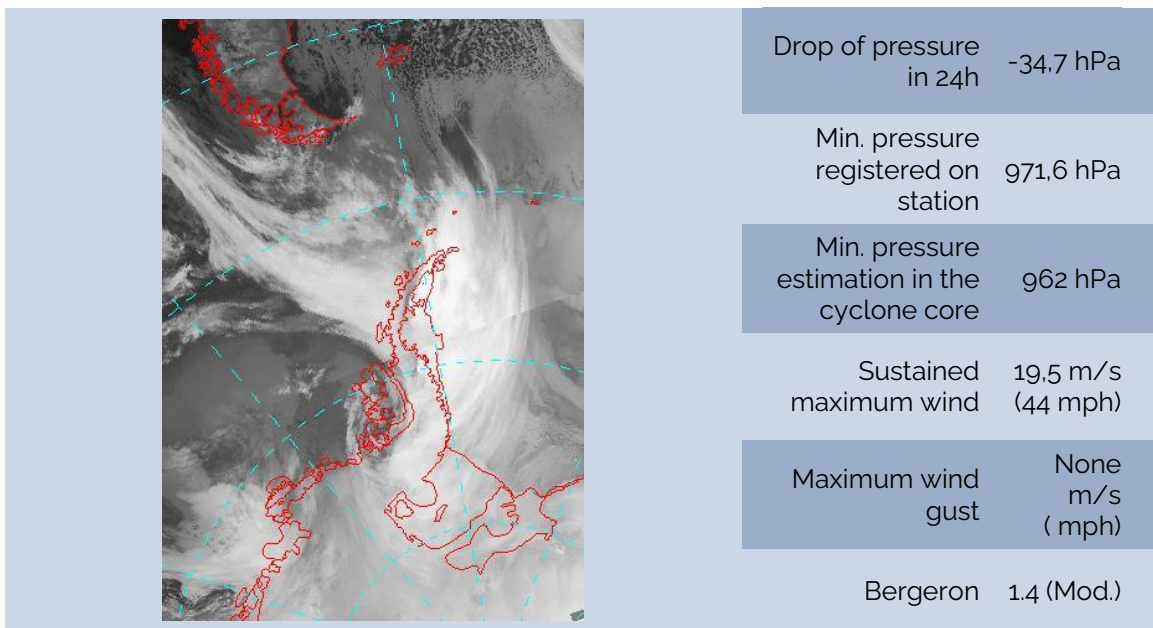
LOCAL: DAVIS STATION – WMO 89571 (OPERATED BY AUSTRALIA)



## BOMB CYCLONE N°32/2024 - DATE: June/24/2024

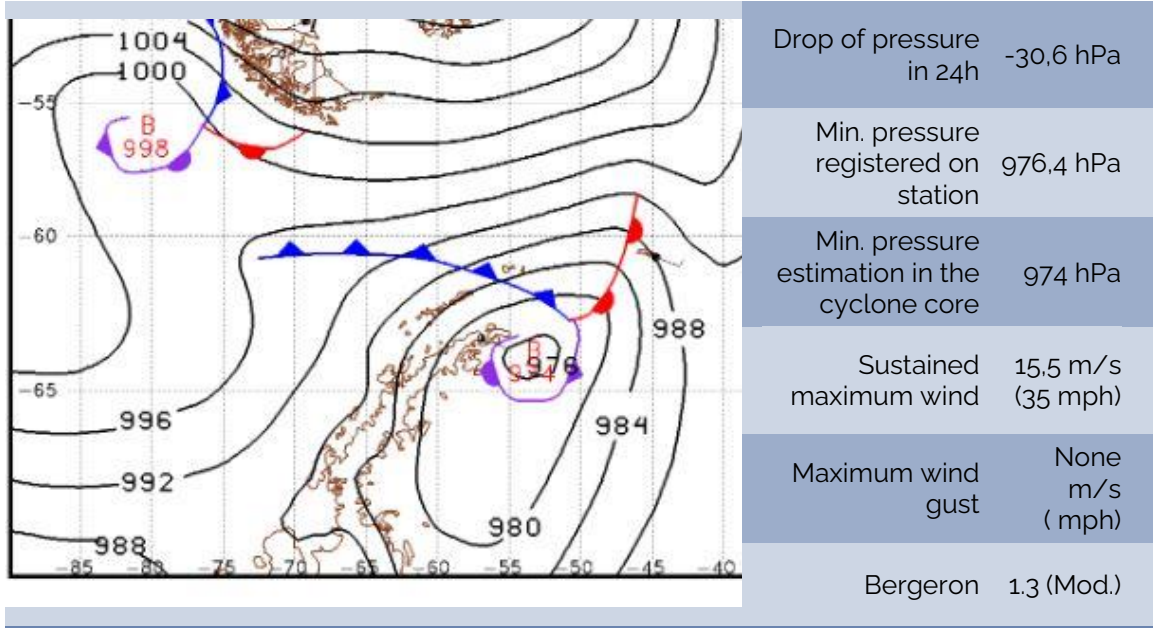
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LOCAL: FOSSIL BLUFF STATION – WMO 89 (OPERATED BY U.K.)



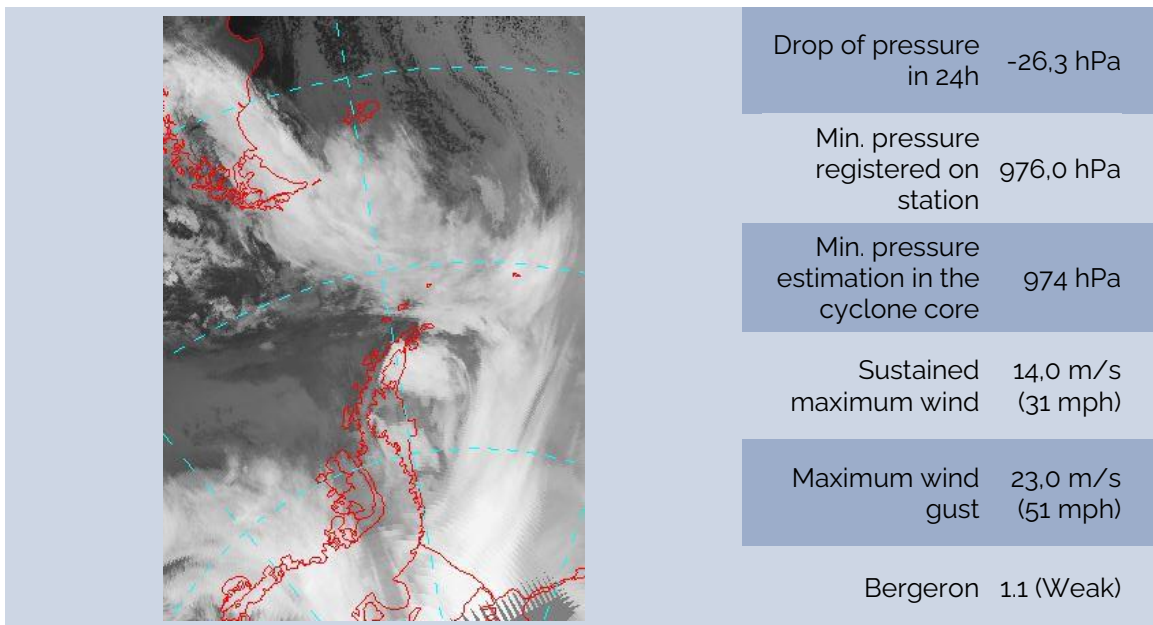
## BOMB CYCLONE N°33/2024 - DATE: June/25/2024

LOCAL: MARAMBIO STATION – WMO 89055 (OPERATED BY ARGENTINA)



## BOMB CYCLONE N°34/2024 - DATE: June/25/2024

LOCAL: FREI STATION – WMO 89056 (OPERATED BY CHILE)





## BOMB CYCLONE N°35/2024 - DATE: June/29/2024

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LOCAL: DAVIS STATION – WMO 89571 (OPERATED BY AUSTRALIA)

NO IMAGE	Drop of pressure in 24h	-26,6 hPa
	Min. pressure registered on station	971.6 hPa
	Min. pressure estimation in the cyclone core	946 hPa
	Sustained maximum wind	29,0 m/s (65 mph)
	Maximum wind gust	34.5 m/s (77 mph)
	Bergeron	1.1 (Weak.)

### SOURCES

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<https://worldview.earthdata.nasa.gov>

<http://www.bom.gov.au>

<https://data.aad.gov.au>

<http://meteoarmada.directemar.cl>

<https://www.marinha.mil.br/chm/chm/dados-do-smm-cartas-sinoticas>

[www. https://amrc.ssec.wisc.edu/](http://www.amrc.ssec.wisc.edu/)