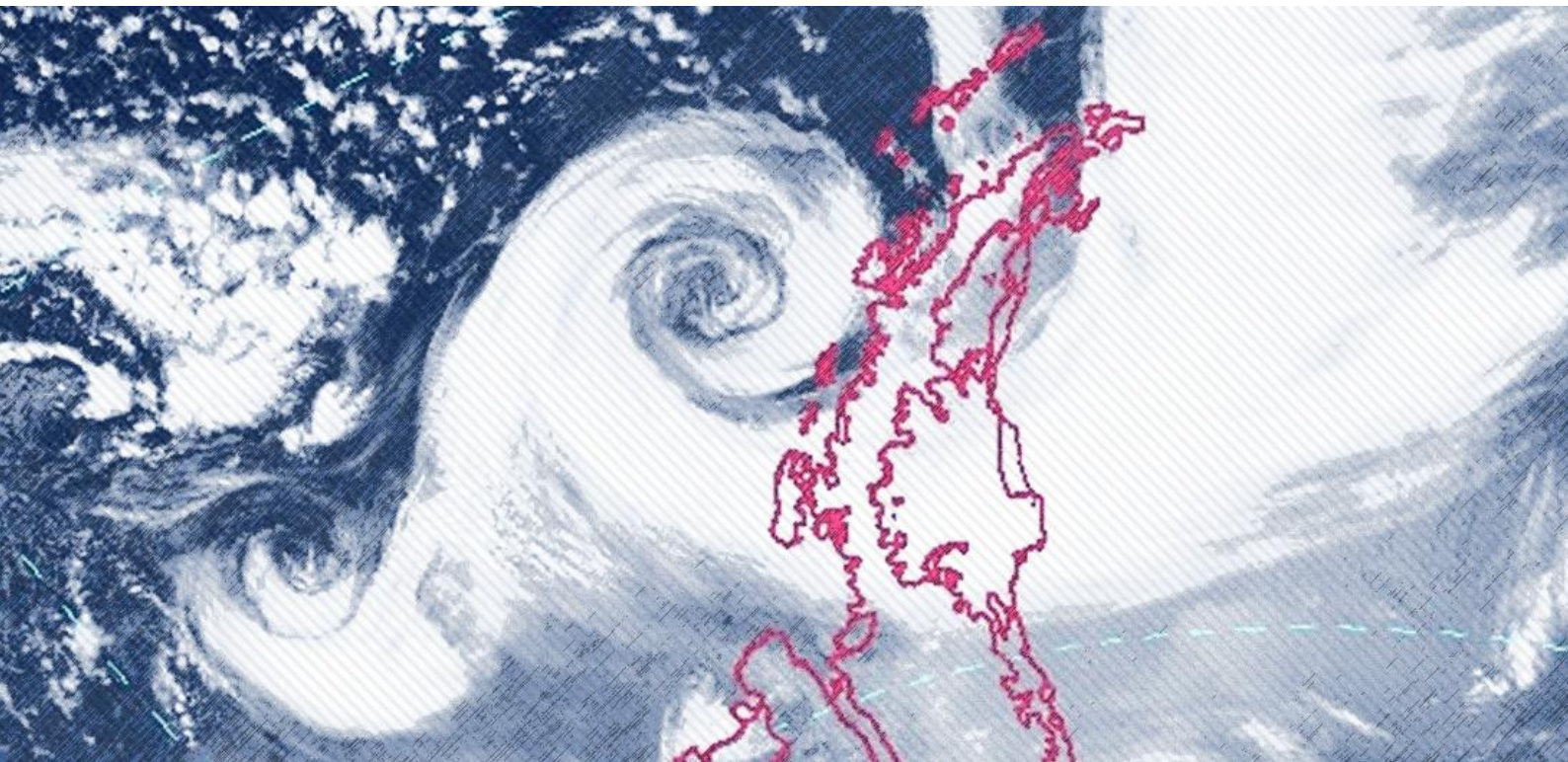




WORLD  
ENVIRONMENTAL  
CONSERVANCY

# MONITORING EXPLOSIVE CYCLONES ON THE COAST OF THE ANTARCTIC CONTINENT



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# MONITORING EXPLOSIVE CYCLONES ON THE COAST OF THE ANTARCTIC CONTINENT

MAY 2024

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During this month, 11 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 Palmer, Frei, Mawson, McMurdo, Marambio, Fossil Bluff and Dumont D'Urville. The cyclone that hit Mawson reached the category of Antarctic Hurricane AH-1.

## TOTAL OF EVENTS REGISTERED IN STATIONS IN APRIL

2017	2018	2019	2020	2021	2022	2023	2024
10	08	06	04	07	05	10	11

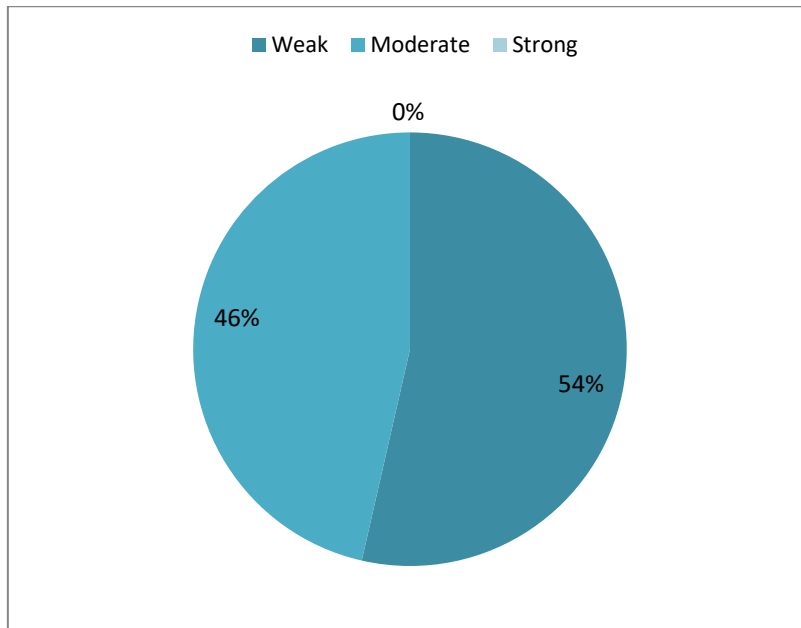
## STATISTICS OF THE MONTH: MAY 2024

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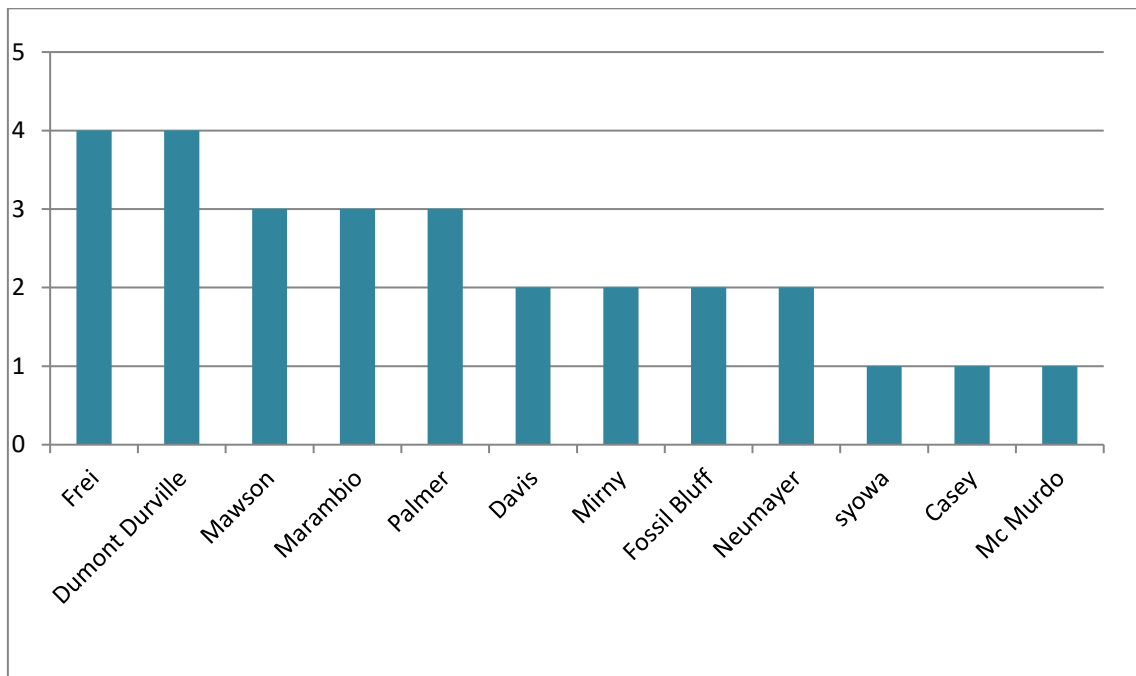
CLASSIFICATION	BERGERON SCALE	INTENSITY	TOTAL OF CASES REGISTERED IN THE MONTH
B1	1 a 1.2	Weak	06
B2	1.3 a 1.8	Moderate	05
B3	> 1.8	Strong	00

HIGHEST PRESSURE DROP	LOWEST RECORDED PRESSURE	HIGHEST SUSTAINED WIND
-36.6 hPa/24h	953.8 hPa	35.0 m/s
Marambio Station	McMurdo Station	Mawson Station
May 18	May 05	May 27

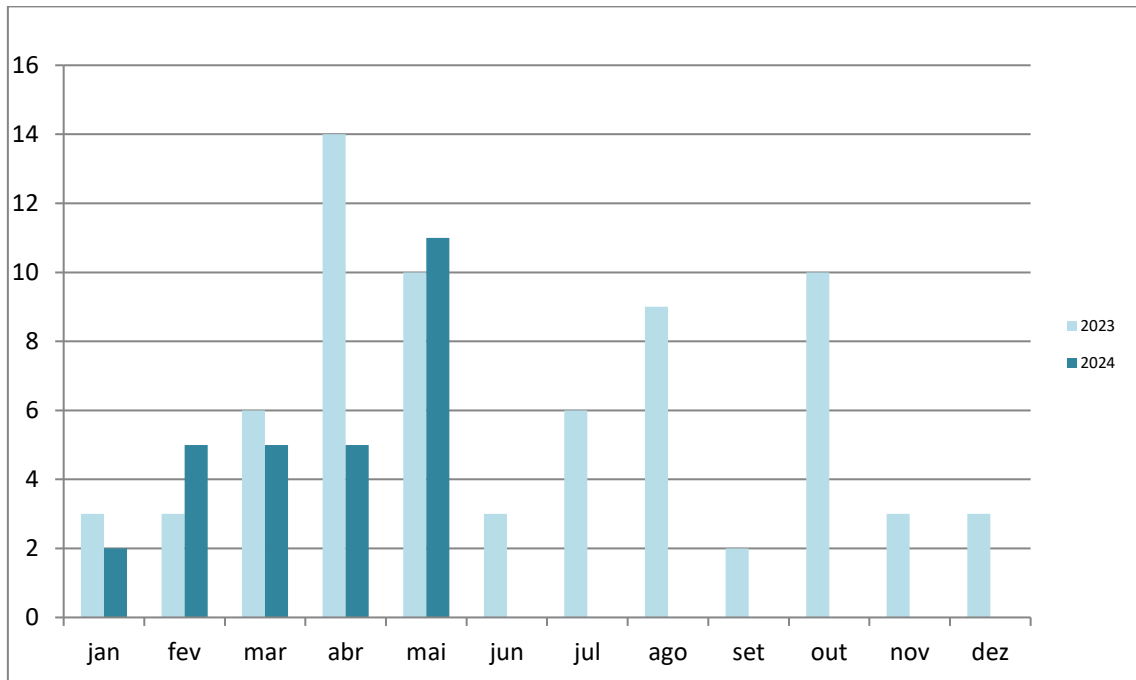
### BERGERON INTENSITY TOTAL OF ANNUAL EVENTS IN 2024



### TOTAL OF EVENTS REGISTERED BY STATION IN 2024

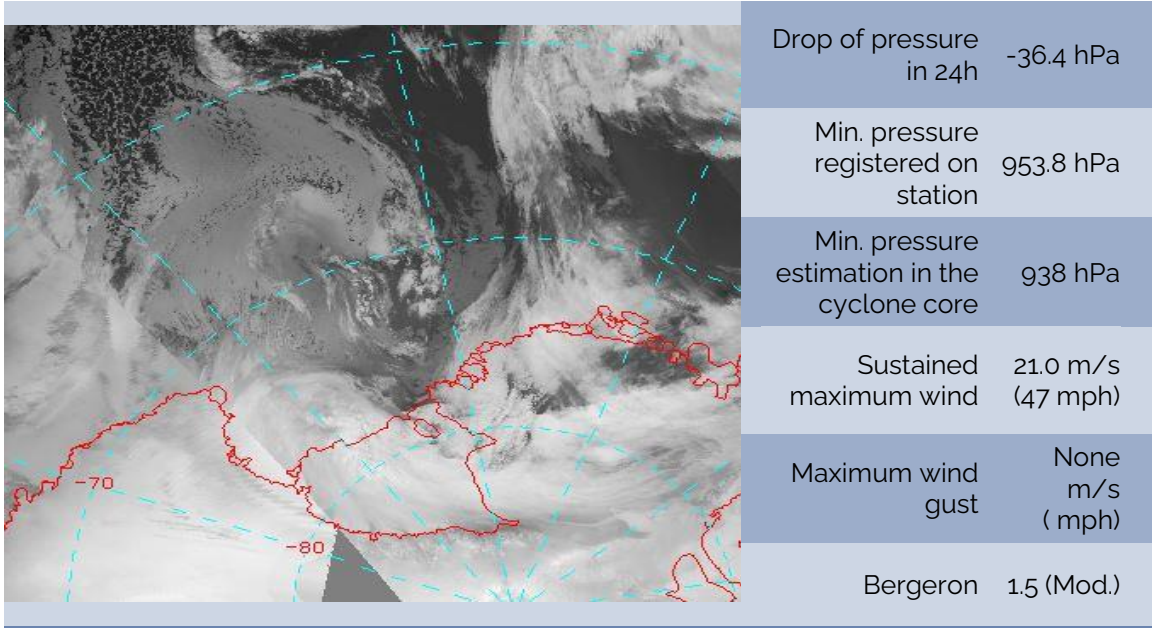


### TOTAL EXPLOSIVE CYCLONES IN THE ANTARCTIC



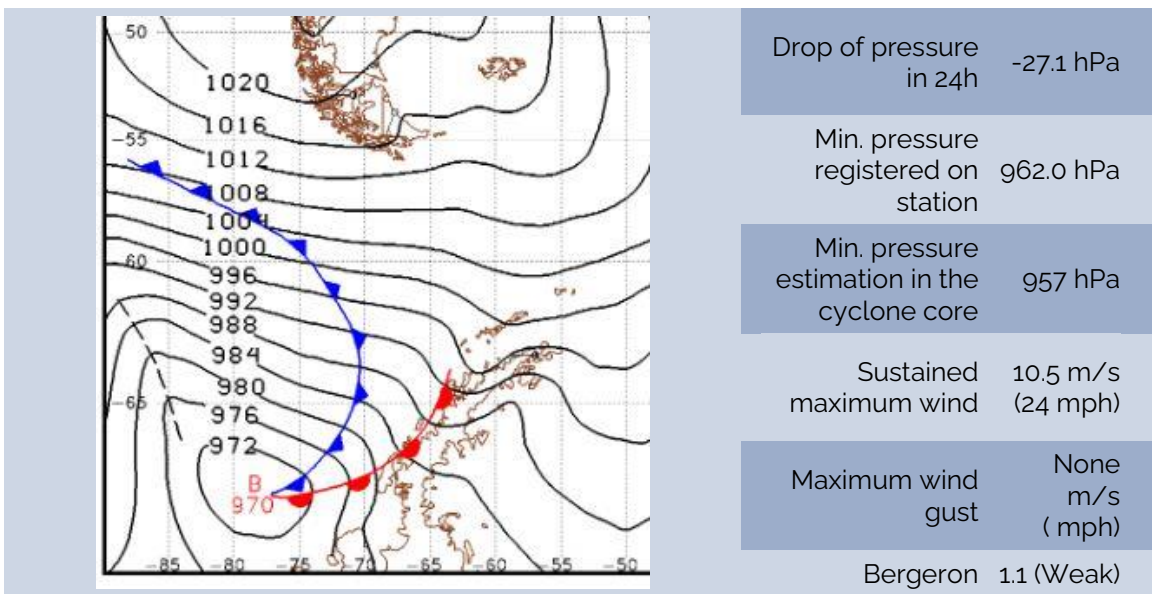
## BOMB CYCLONE N°16/2024 - DATE: MAY/05/2024

LOCAL: MC MURDO STATION – WMO 89664 (OPERATED BY U.S.A.)



## BOMB CYCLONE N°17/2024 - DATE: MAY/11/2024

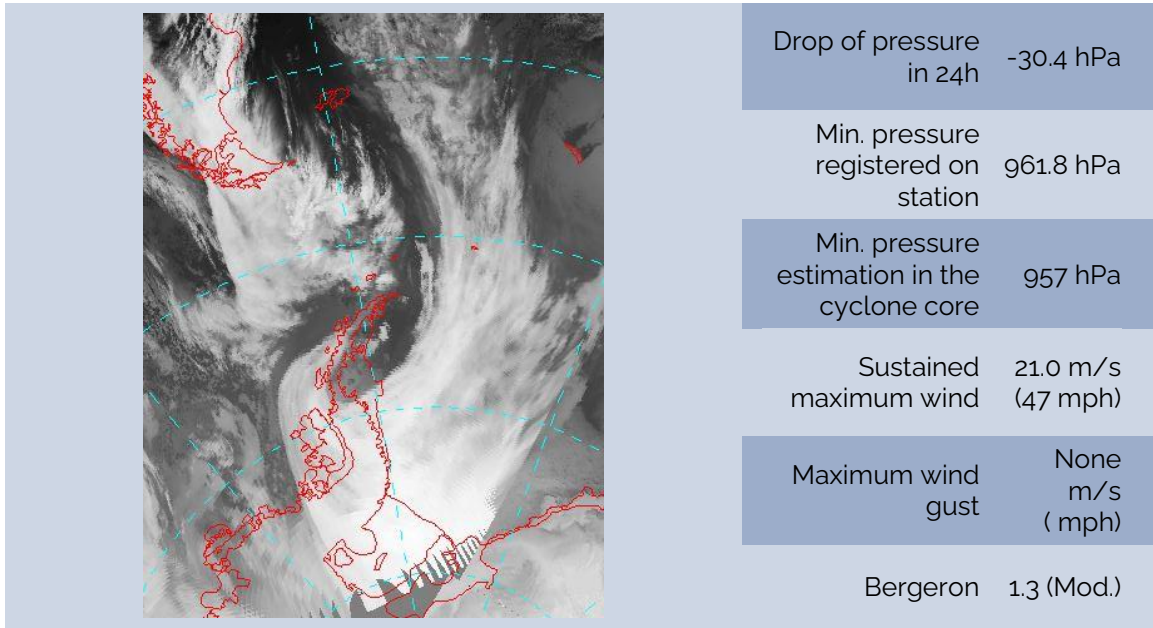
LOCAL: FOSSIL BLUFF STATION – WMO 89065 (OPERATED BY U.K.)





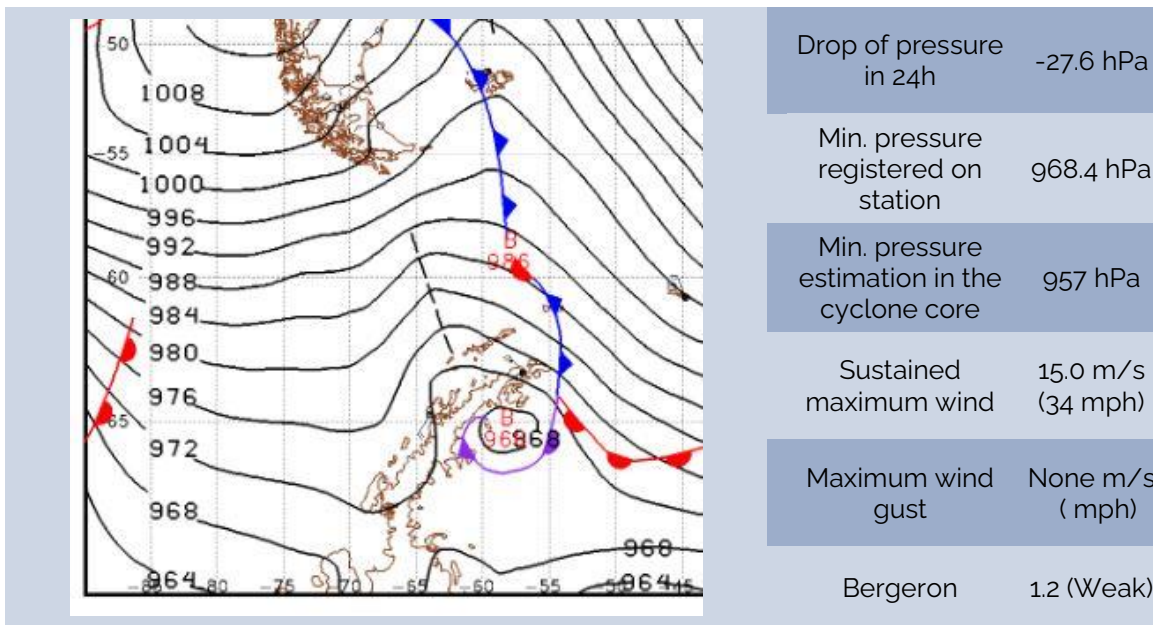
## BOMB CYCLONE N°18/2024 - DATE: MAY/11/2024

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



## BOMB CYCLONE N°19/2024 - DATE: MAY/11/2024

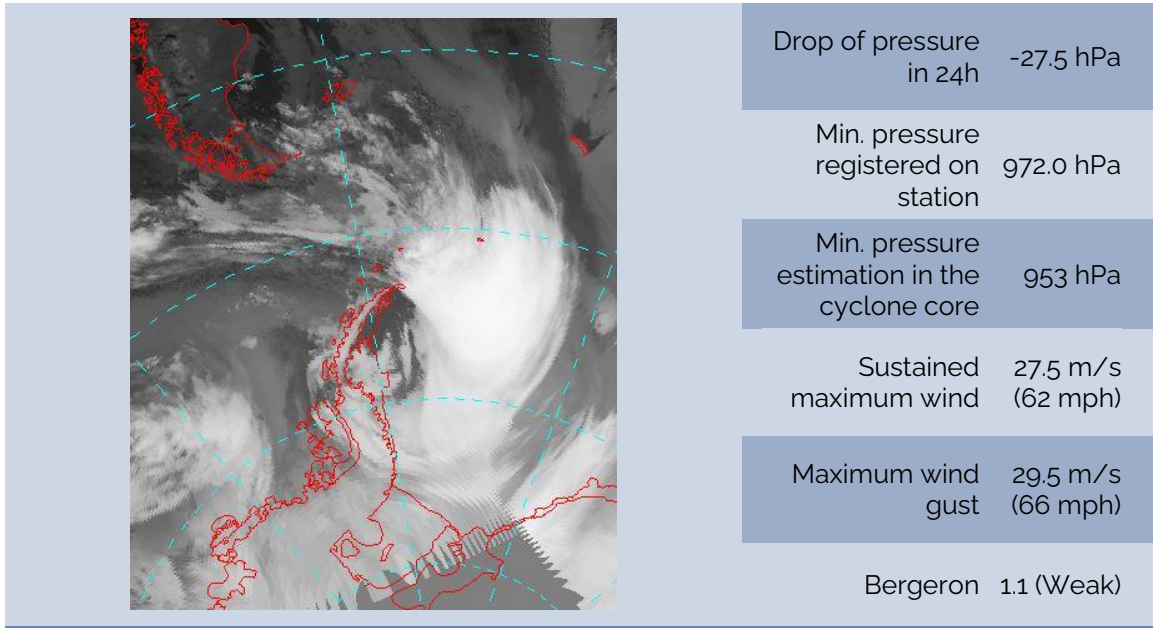
LOCAL: PALMER STATION – WMO 89061 (OPERATED BY U.S.A.)



## BOMB CYCLONE N°20/2024 - DATE: MAY/18/2024

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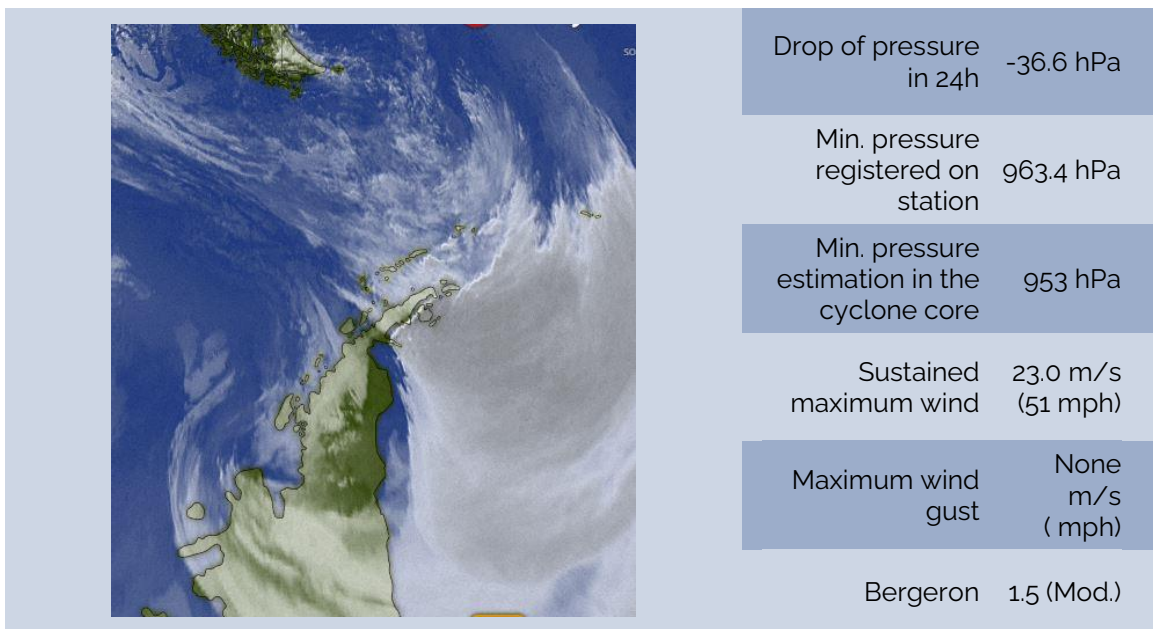
LOCAL: FREI STATION – WMO 89056 (OPERATED BY CHILE)



## BOMB CYCLONE N°21/2024 - DATE: MAY/18/2024

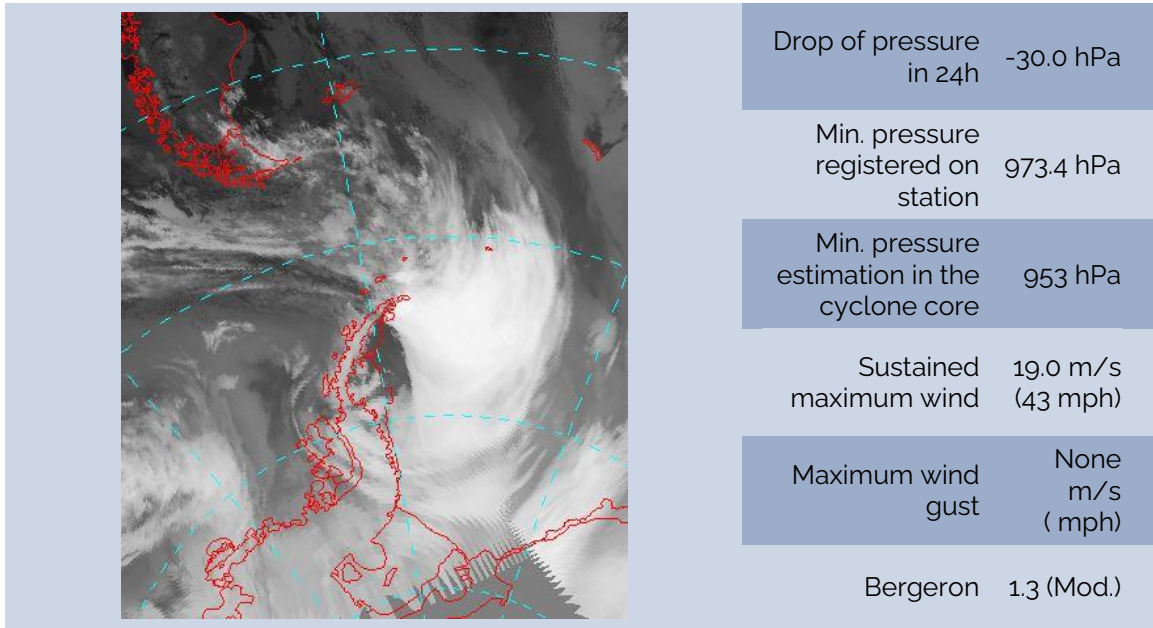
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LOCAL: MARAMBIO STATION – WMO 89055 (OPERATED BY ARGENTINA)



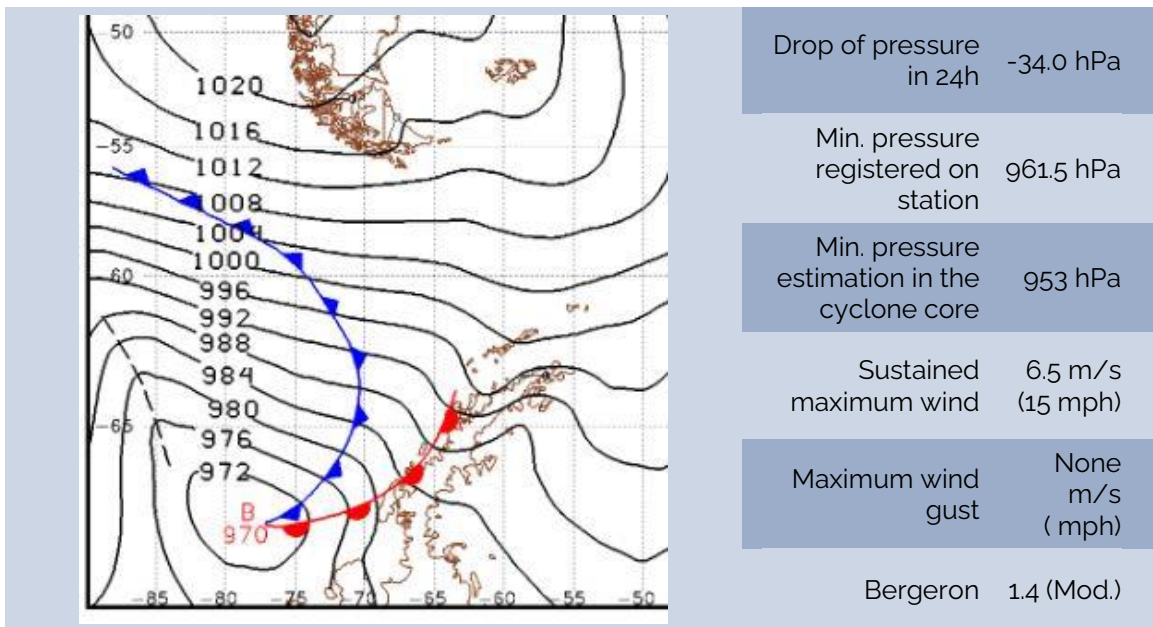
## BOMB CYCLONE N°22/2024 - DATE: MAY/18/2024

LOCAL: PALMER STATION – WMO 89 (OPERATED BY U.S.A.)



## BOMB CYCLONE N°23/2024 - DATE: MAY/18/2024

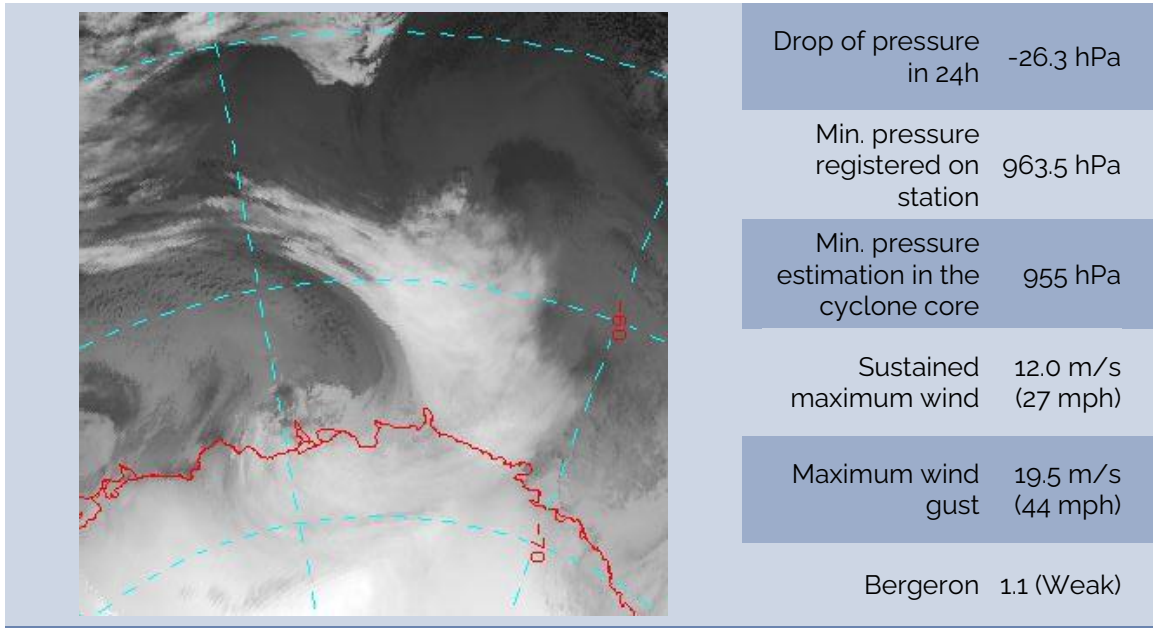
LOCAL: FOSSIL BLUFF STATION – WMO 89065 (OPERATED BY U.K.)





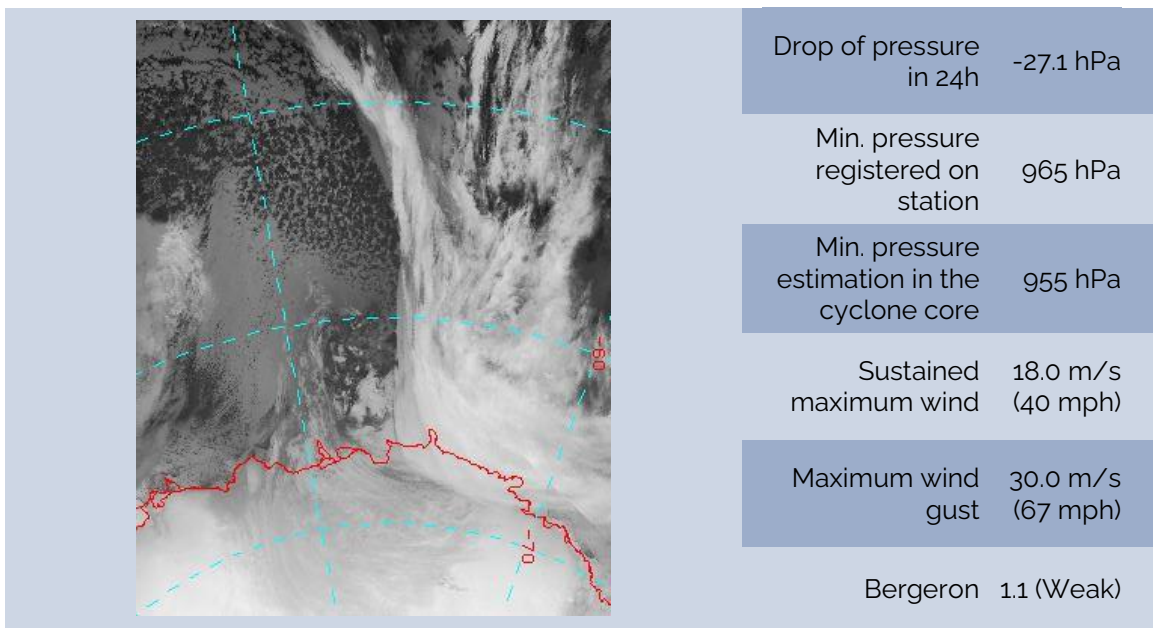
## BOMB CYCLONE N°24/2024 - DATE: MAY/19/2024

LOCAL: DUMONT D'URVILLE STATION – WMO 89642 (OPERATED BY FRANCE)



## BOMB CYCLONE N°25/2024 - DATE: MAY/22/2024

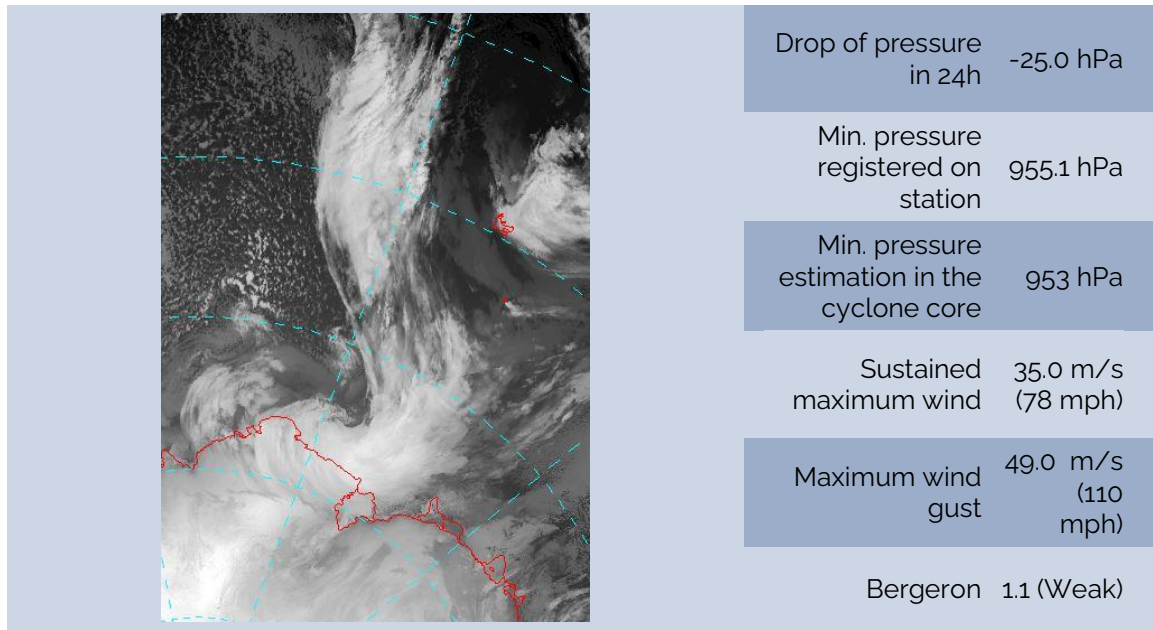
LOCAL: DUMONT D'URVILLE STATION – WMO 89642 (OPERATED BY FRANCE)



## BOMB CYCLONE N°26/2024 - DATE: MAY/27/2024 – AH-1

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



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## 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/)