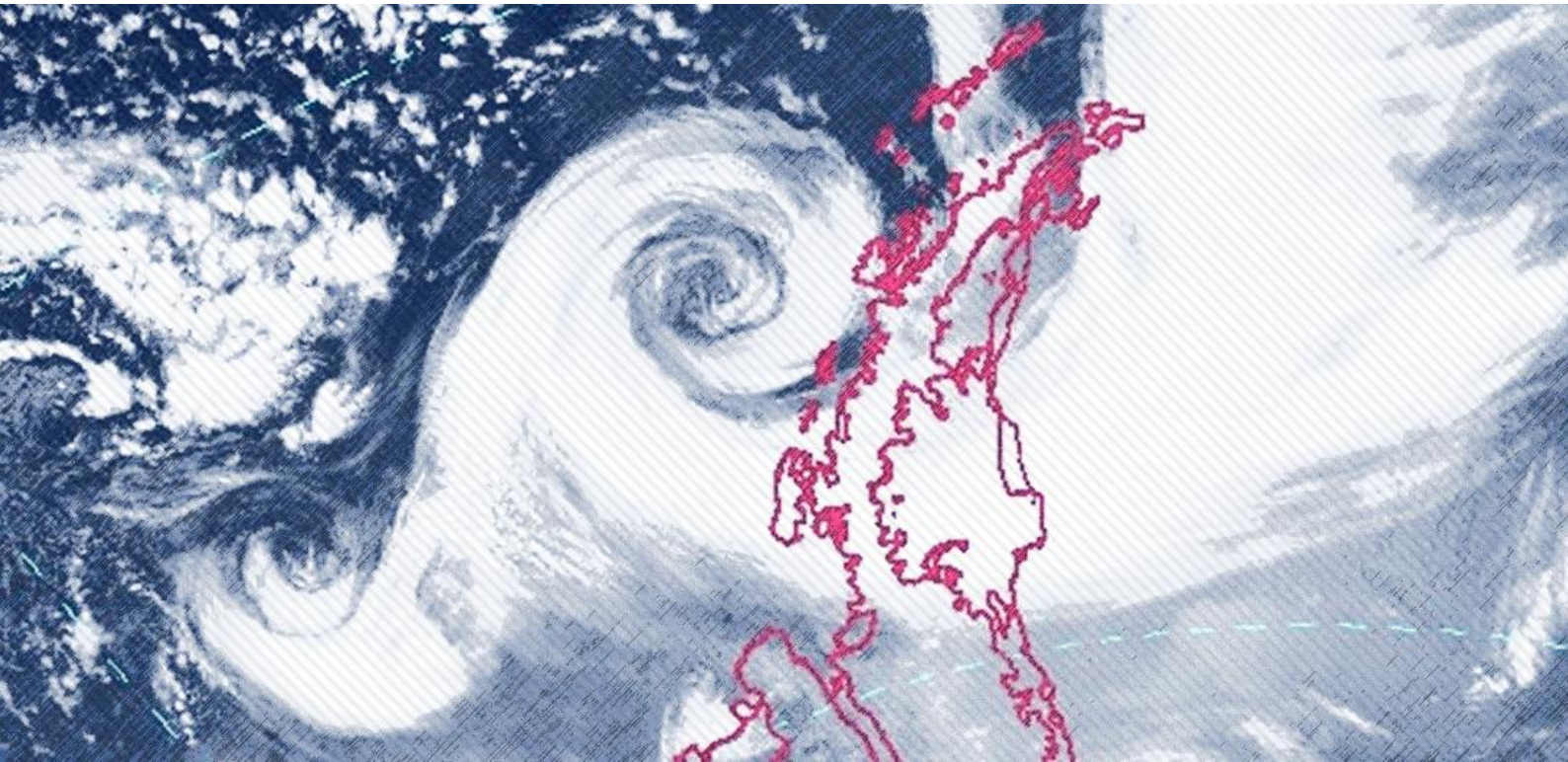




WORLD  
ENVIRONMENTAL  
CONSERVANCY

# MONITORING EXPLOSIVE CYCLONES ON THE COAST OF THE ANTARCTIC CONTINENT



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

DECEMBER 2022

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During this month, only 02 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 Frei. Of these 02 events 00 of them reached the level of an Antarctic Hurricane.

### TOTAL OF EVENTS REGISTERED IN STATIONS IN DECEMBER

2017	2018	2019	2020	2021	2022
04	05	01	03	02	02

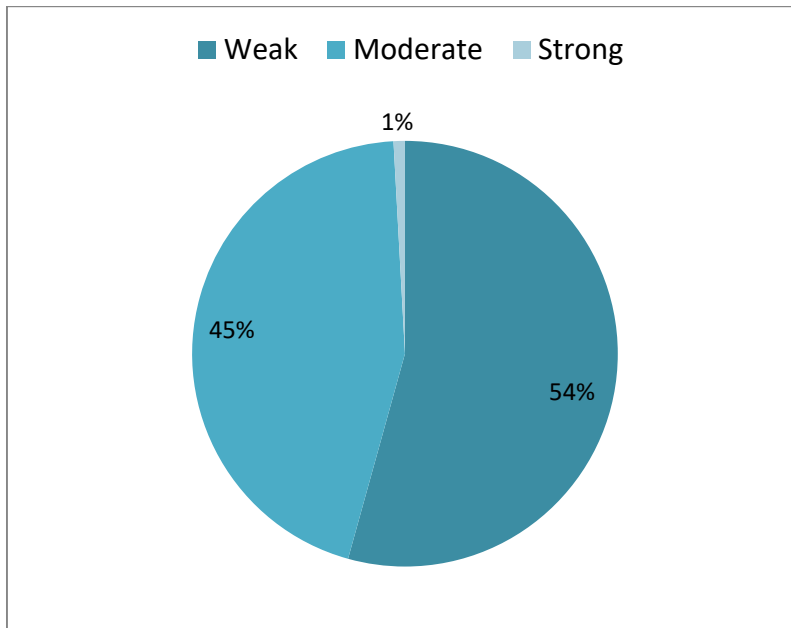
### STATISTICS OF THE MONTH: DECEMBER 2022

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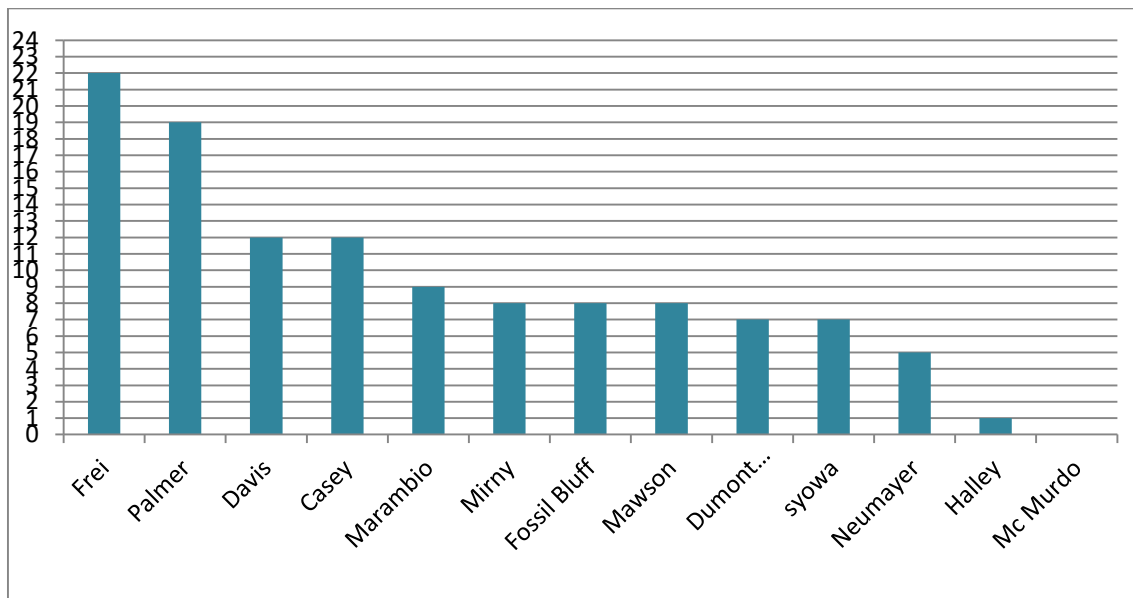
CLASSIFICATION	BERGERON SCALE	INTENSITY	TOTAL OF CASES REGISTERED IN THE MONTH
B1	1 a 1.2	Weak	02
B2	1.3 a 1.8	Moderate	00
B3	> 1.8	Strong	00

HIGHEST PRESSURE DROP	LOWEST RECORDED PRESSURE	HIGHEST SUSTAINED WIND
-25.1 hPa/24h	964.4 hPa	20.0 m/s
Frei station	Frei station	Frei station
Dec. 29	Dec. 29	Dec. 29

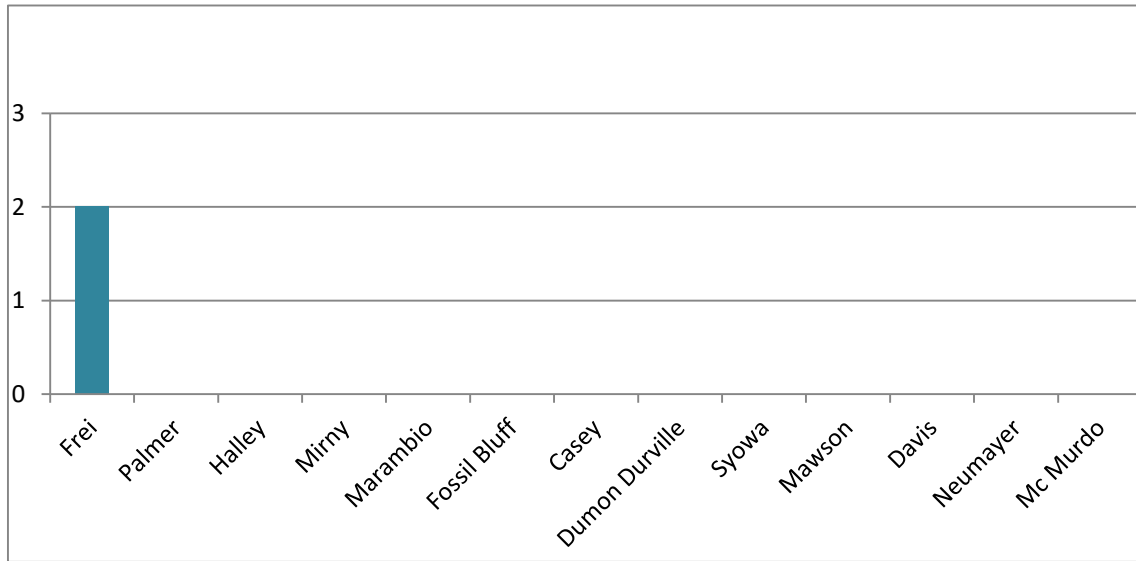
BERGERON INTENSITY TOTAL OF ANNUAL EVENTS IN 2022



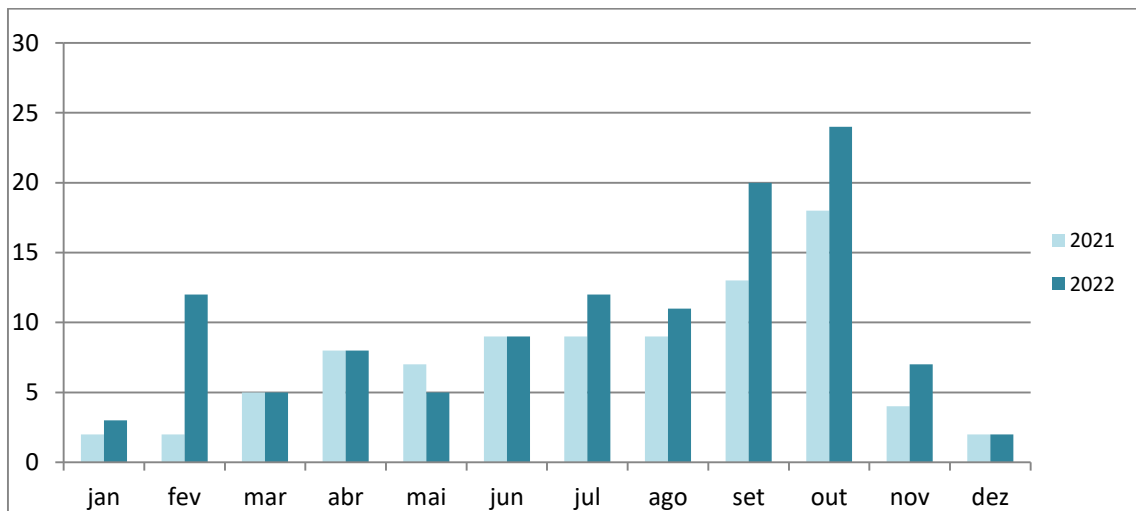
TOTAL OF EVENTS REGISTERED BY STATION IN 2022



TOTAL OF EVENTS REGISTERED IN EACH STATION IN THE MONTH OF DECEMBER/2022

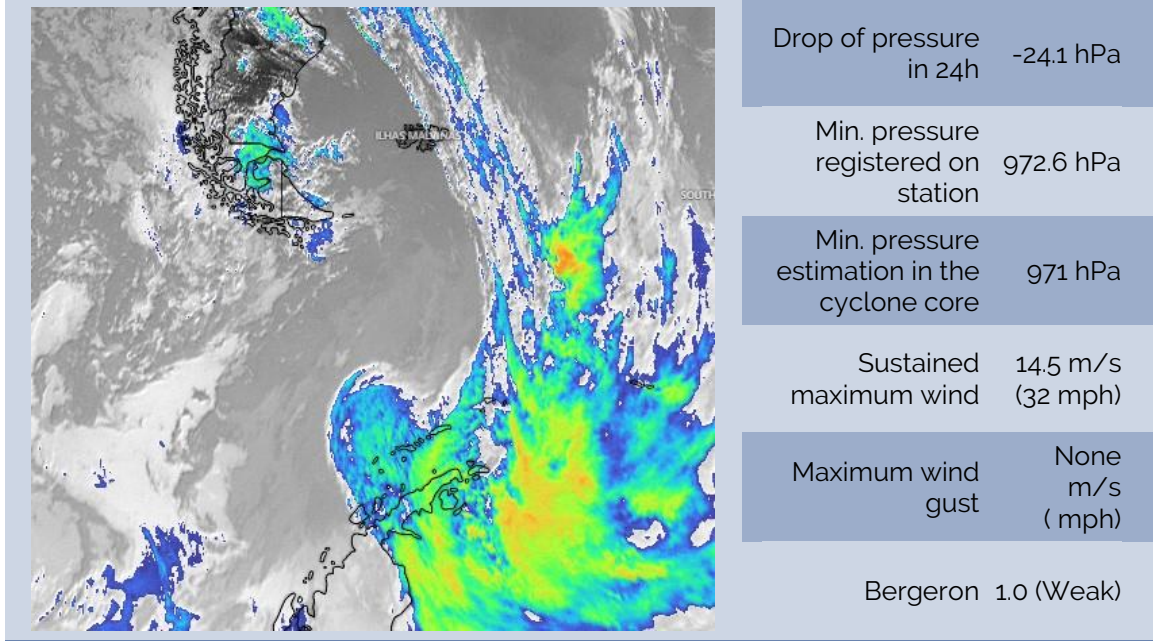


TOTAL EXPLOSIVE CYCLONES IN THE ANTARCTIC



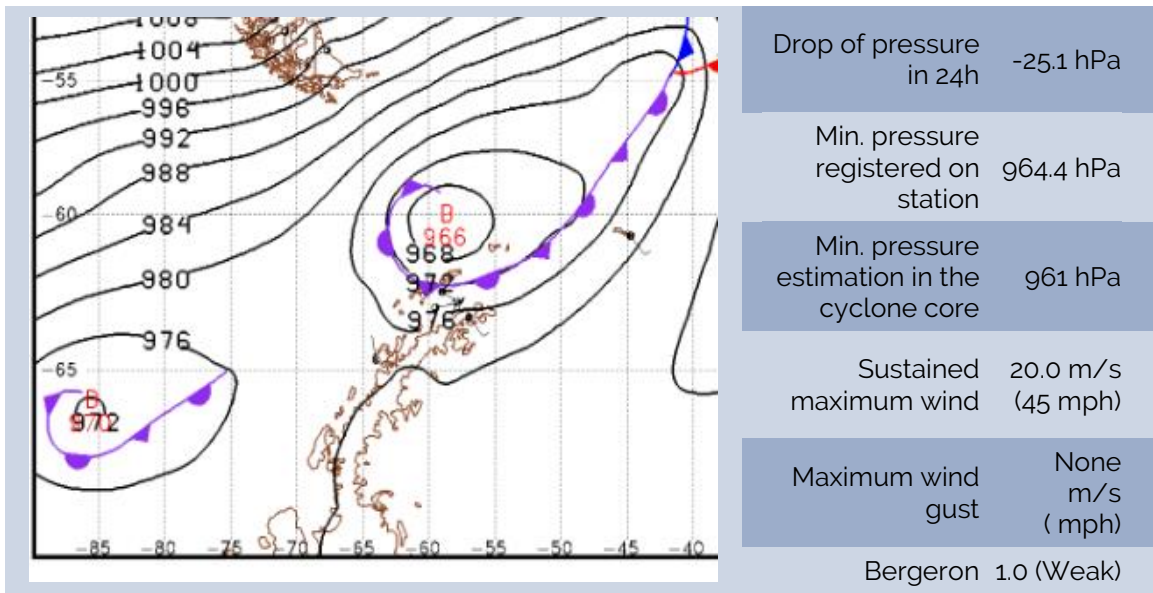
## BOMB CYCLONE N°114/2022 - DATE: DEC./17/2022

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



## BOMB CYCLONE N°115/2022 - DATE: DEC./29/2022

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



## SOURCES

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

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

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

<http://www.smn.gov.ar>

<http://meteoarmada.directemar.cl>

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

<https://amrc.ssec.wisc.edu/>

[www.windy.com](http://www.windy.com)