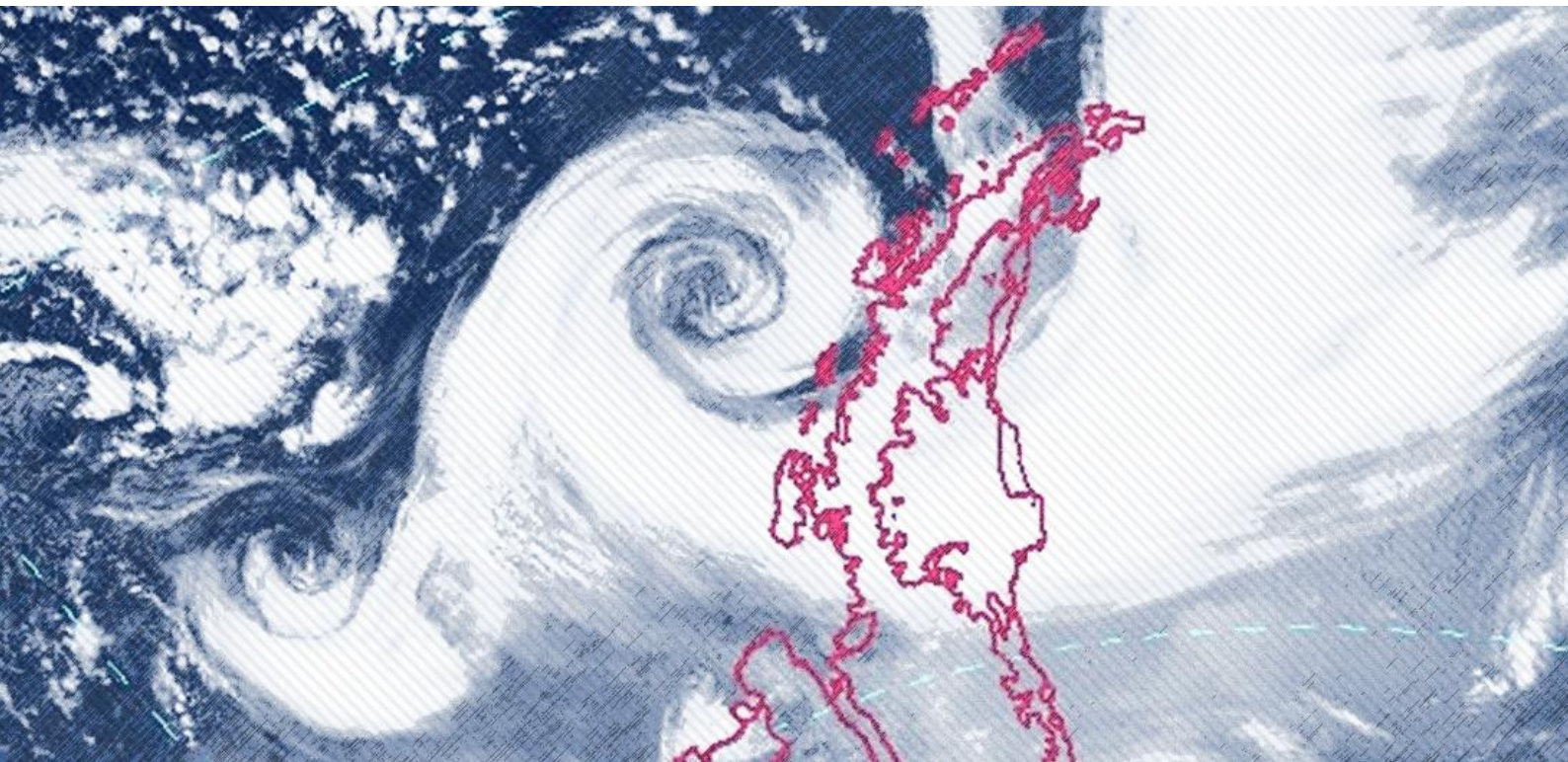




WORLD
ENVIRONMENTAL
CONSERVANCY

MONITORING EXPLOSIVE CYCLONES ON THE COAST OF THE ANTARCTIC CONTINENT



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



MONITORING EXPLOSIVE CYCLONES ON THE COAST OF THE ANTARCTIC CONTINENT

MARCH 2024

During this month, only 05 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, Mirny, Mawson, Syowa and Dumon D'Urville. The cyclone that hit Mawson on the 17th reached the category of Antarctic Hurricane AH-1.

TOTAL OF EVENTS REGISTERED IN STATIONS IN MARCH

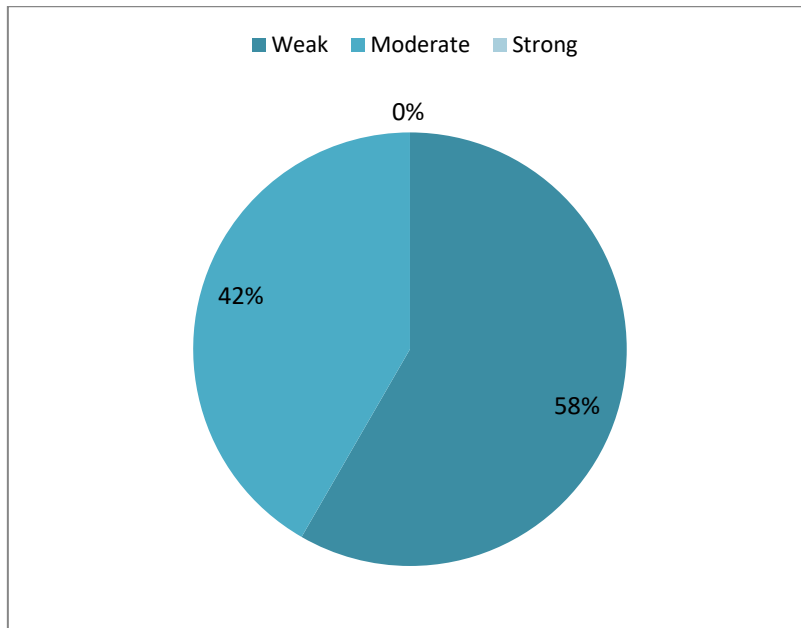
2017	2018	2019	2020	2021	2022	2023	2024
07	06	02	06	05	05	06	05

STATISTICS OF THE MONTH: MARCH 2024

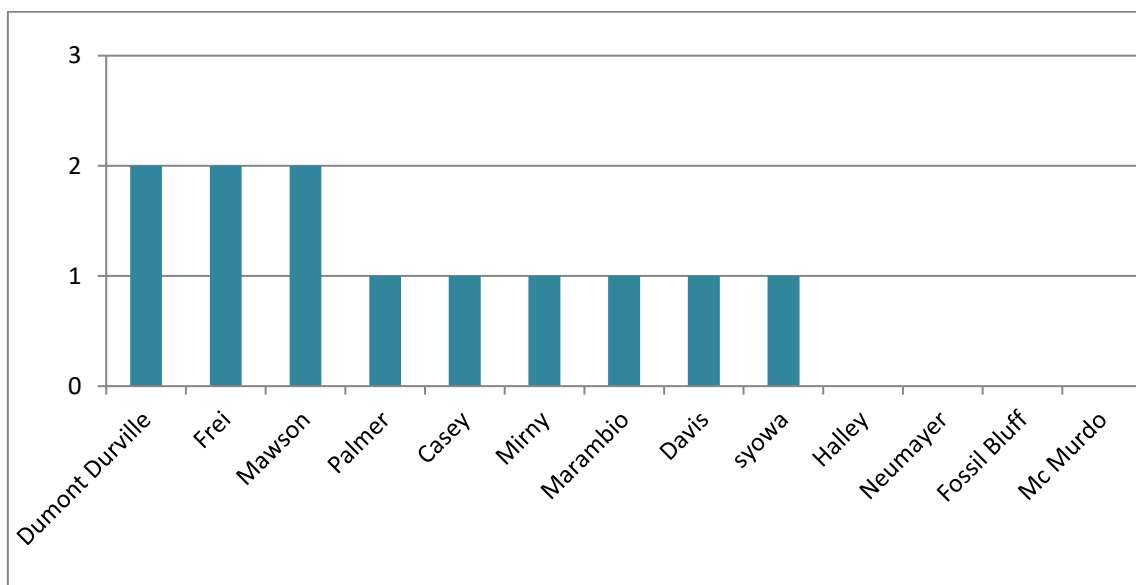
CLASSIFICATION	BERGERON SCALE	INTENSITY	TOTAL OF CASES REGISTERED IN THE MONTH
B1	1 a 1.2	Weak	03
B2	1.3 a 1.8	Moderate	02
B3	> 1.8	Strong	00

HIGHEST PRESSURE DROP	LOWEST RECORDED PRESSURE	HIGHEST SUSTAINED WIND
-34.1 hPa/24h	956.1 hPa	34.0 m/s
Dumont D'Urville Station	Mirny Station	Mawson Station
Mar. 05	Mar. 03	Mar. 17

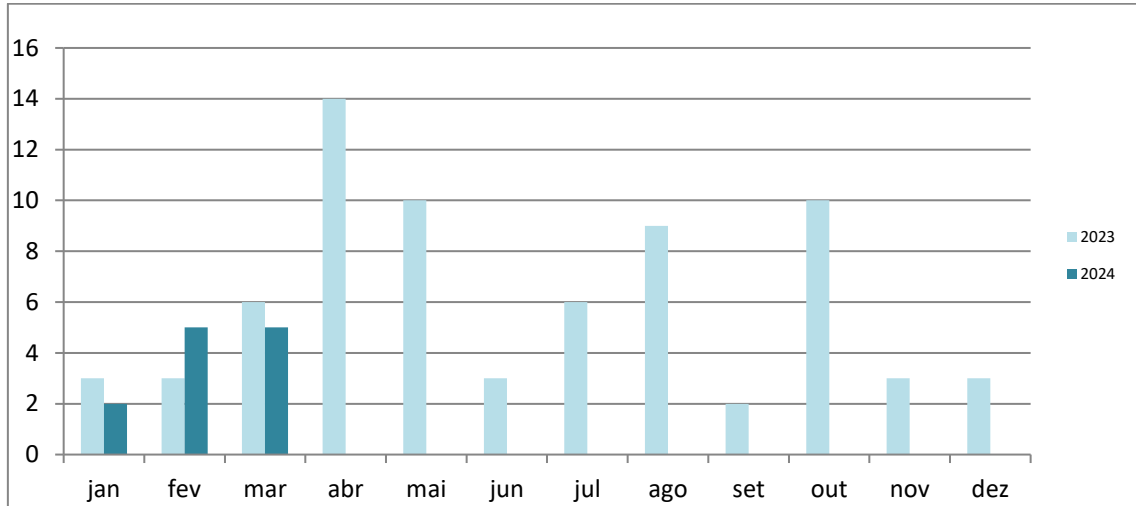
BERGERON INTENSITY TOTAL OF ANNUAL EVENTS IN 2024



TOTAL OF EVENTS REGISTERED BY STATION IN 2024

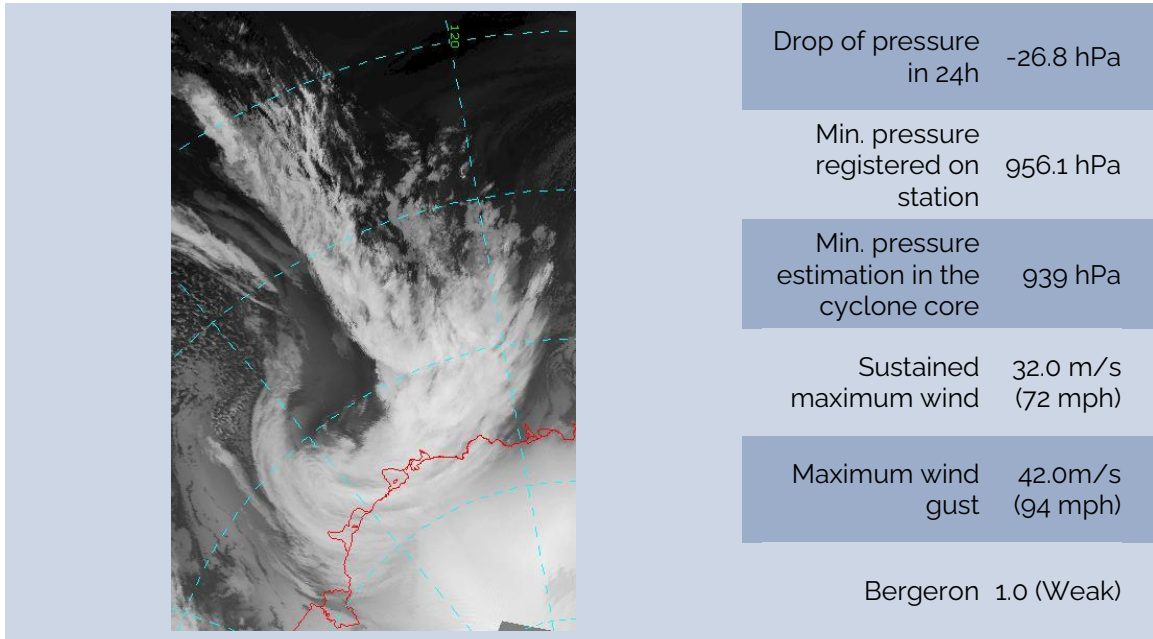


TOTAL EXPLOSIVE CYCLONES IN THE ANTARCTIC



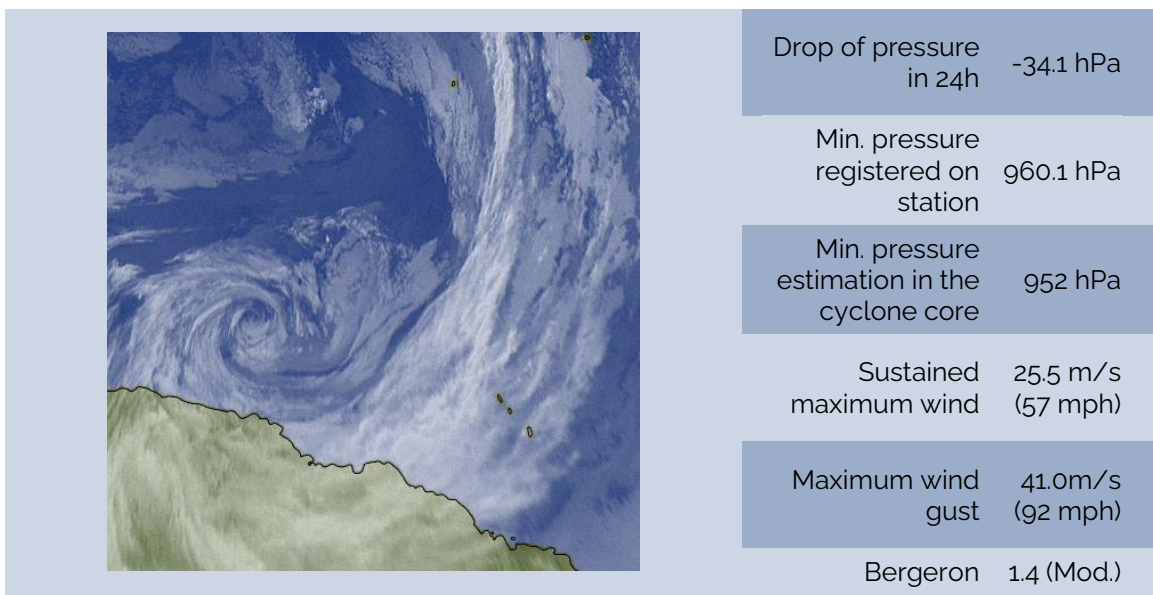
BOMB CYCLONE N°06/2024 - DATE: MAR./03/2024

LOCAL: MIRNY STATION – WMO 89592 (OPERATED BY RUSSIA)



BOMB CYCLONE N°07/2024 - DATE: MAR./05/2024

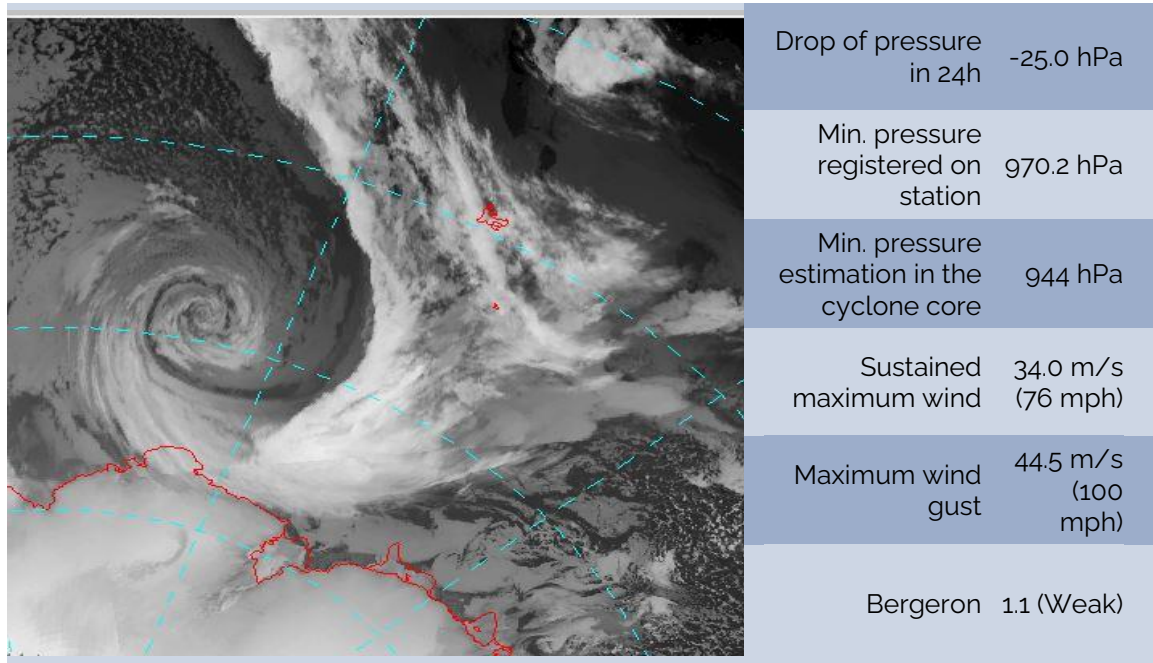
LOCAL: DUMONT D'URVILLE STATION – WMO 89642 (OPERATED BY FRANCE)



BOMB CYCLONE N°08/2024 - DATE: MAR./17/2024

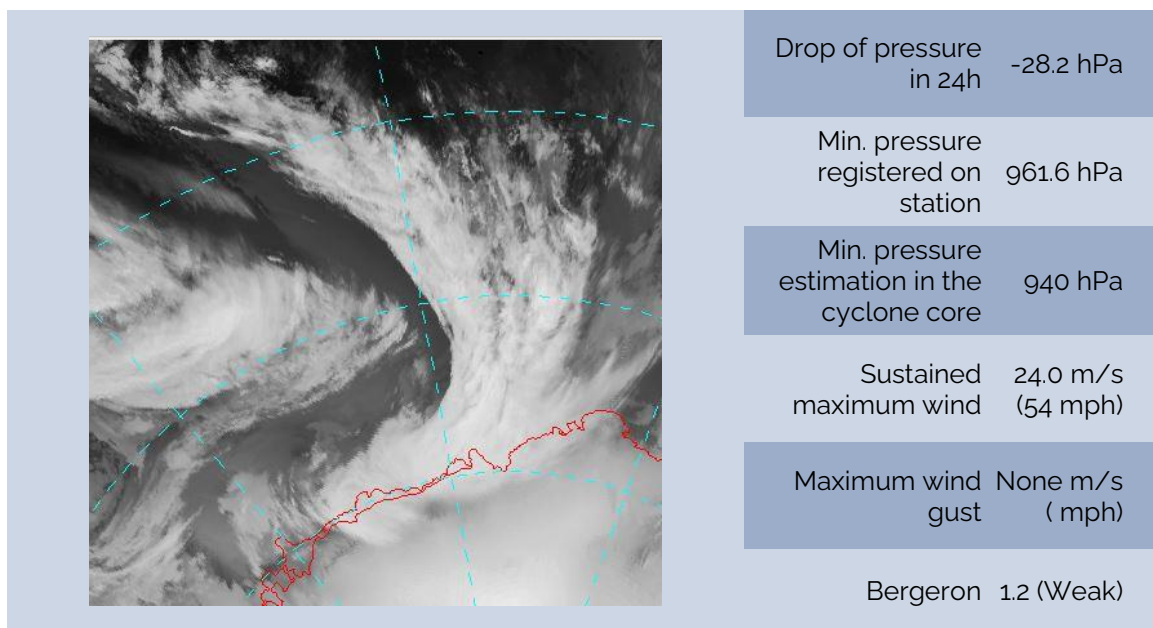
(ANTARCTIC HURRICANE CAT-1)

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



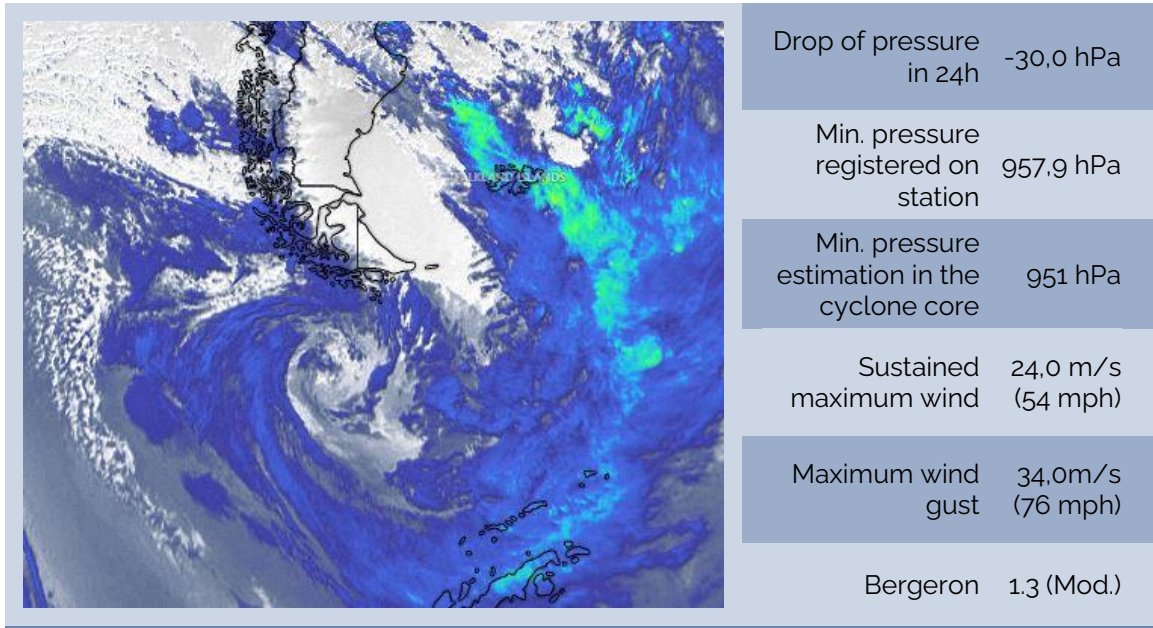
BOMB CYCLONE N°09/2024 - DATE: MAR./23/2024

LOCAL: SYOWA STATION – WMO 89532 (OPERATED BY JAPAN)



BOMB CYCLONE N°10/2024 - DATE: MAR./29/2024

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>