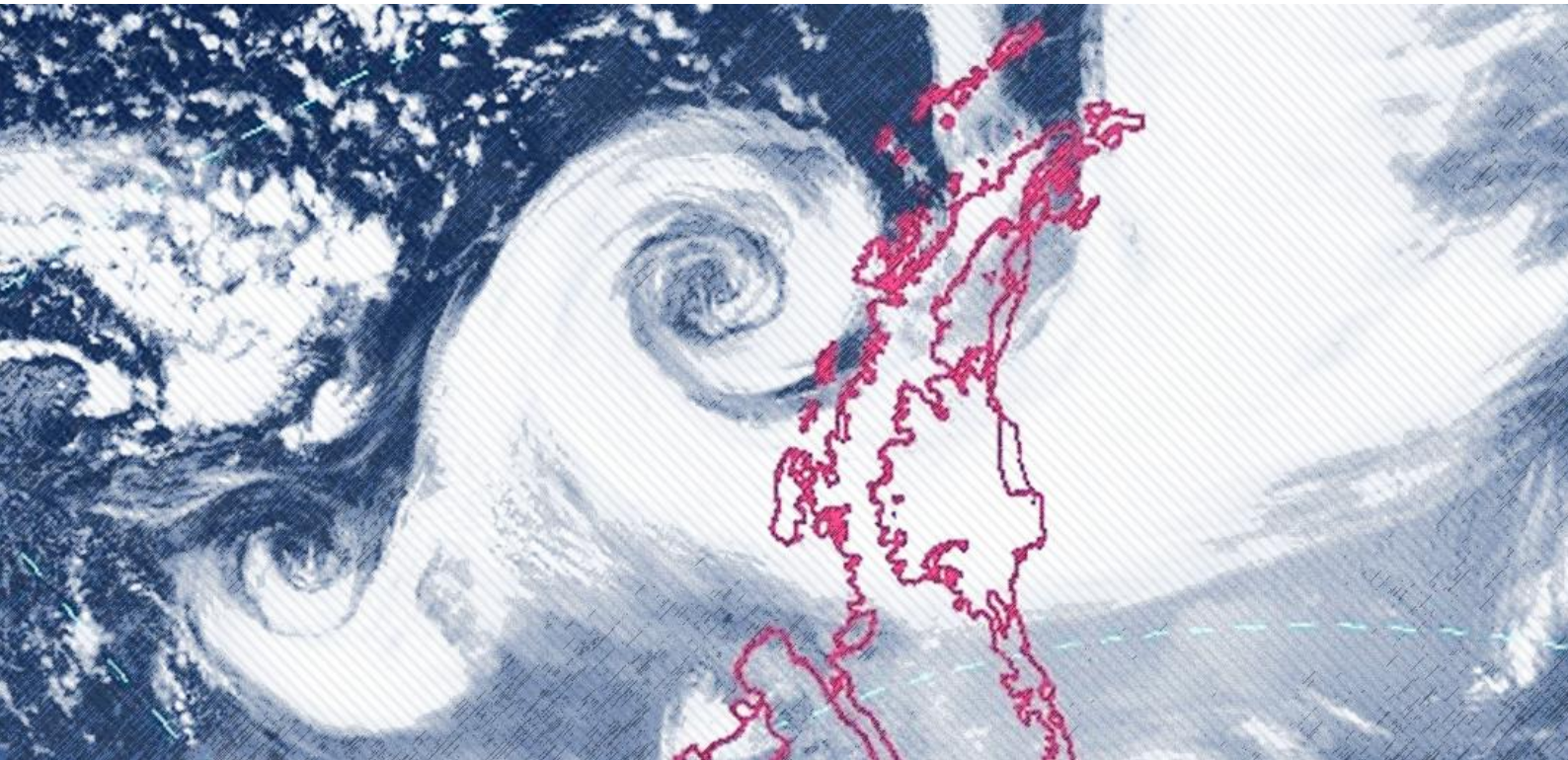




WORLD
ENVIRONMENTAL
CONSERVANCY

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

SEPTEMBER 2023

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 Neumayer and Dumont D'Urville,

TOTAL OF EVENTS REGISTERED IN STATIONS IN SEPTEMBER

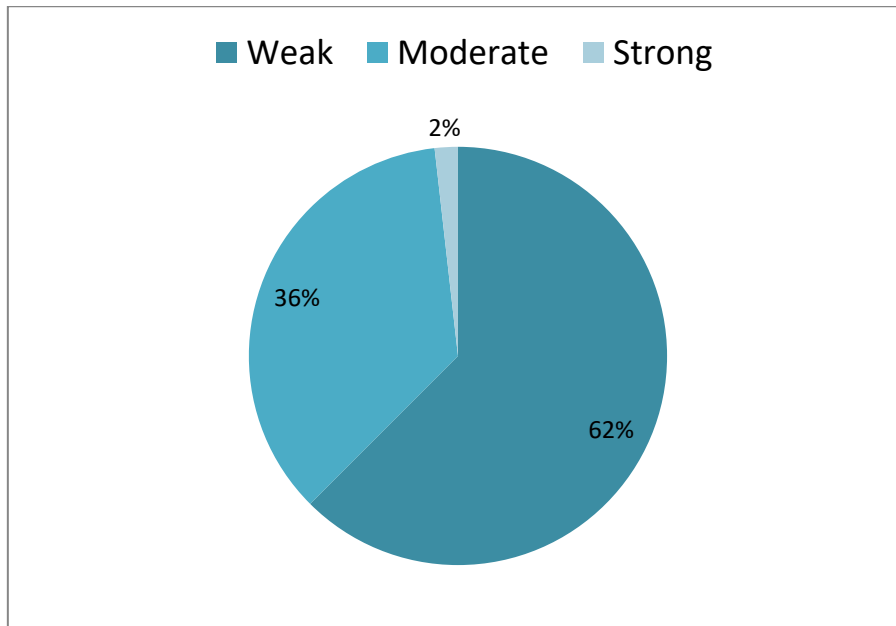
2017	2018	2019	2020	2021	2022	2023
16	11	07	10	13	20	02

STATISTICS OF THE MONTH: SEPTEMBER 2023

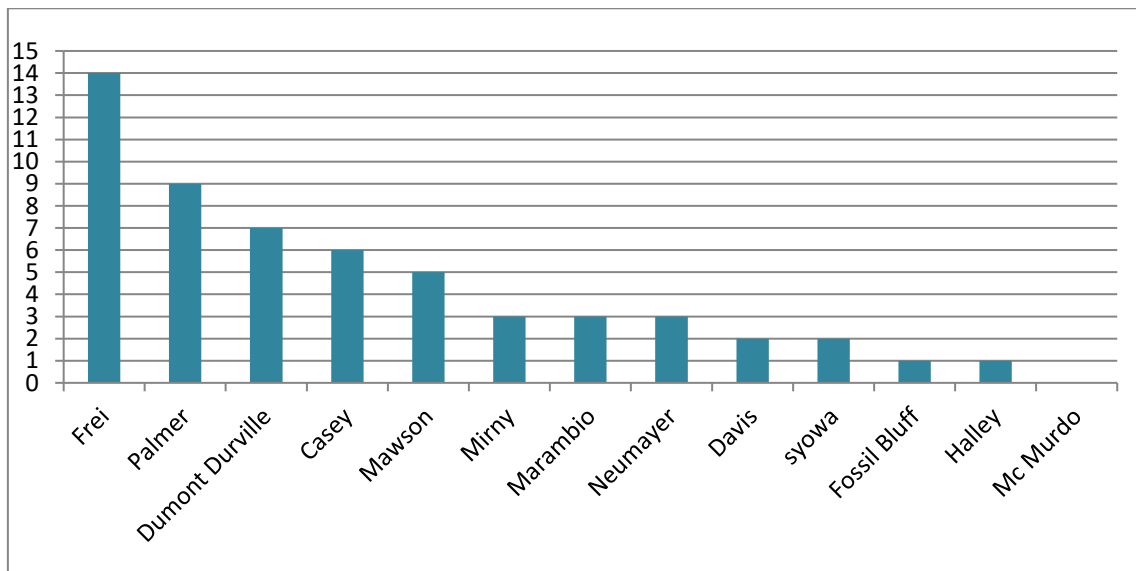
CLASSIFICATION	BERGERON SCALE	INTENSITY	TOTAL OF CASES REGISTERED IN THE MONTH
B1	1 a 1.2	Weak	01
B2	1.3 a 1.8	Moderate	01
B3	> 1.8	Strong	00

HIGHEST PRESSURE DROP	LOWEST RECORDED PRESSURE	HIGHEST SUSTAINED WIND
-31.8 hPa/24h	953.4 hPa	21.6 m/s
Neumayer station	Neumayer station	Neumayer station
Sept. 19	Sept. 19	Sept. 19

BERGERON INTENSITY TOTAL OF ANNUAL EVENTS IN 2023



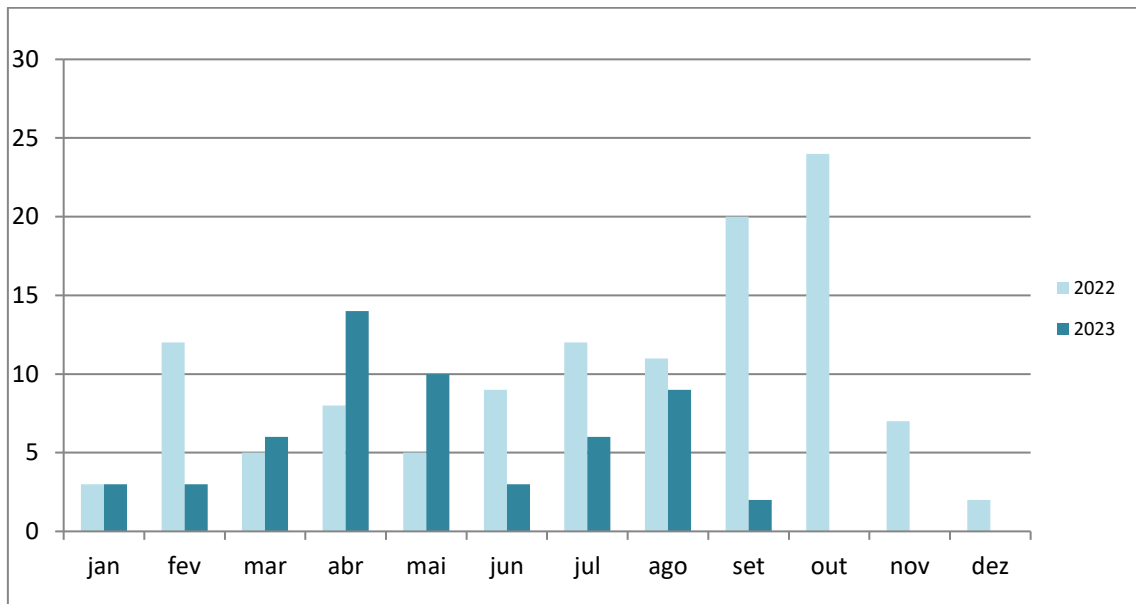
TOTAL OF EVENTS REGISTERED BY STATION IN 2023



TOTAL OF EVENTS REGISTERED IN EACH STATION IN THE MONTH OF SEPTEMBER/2023

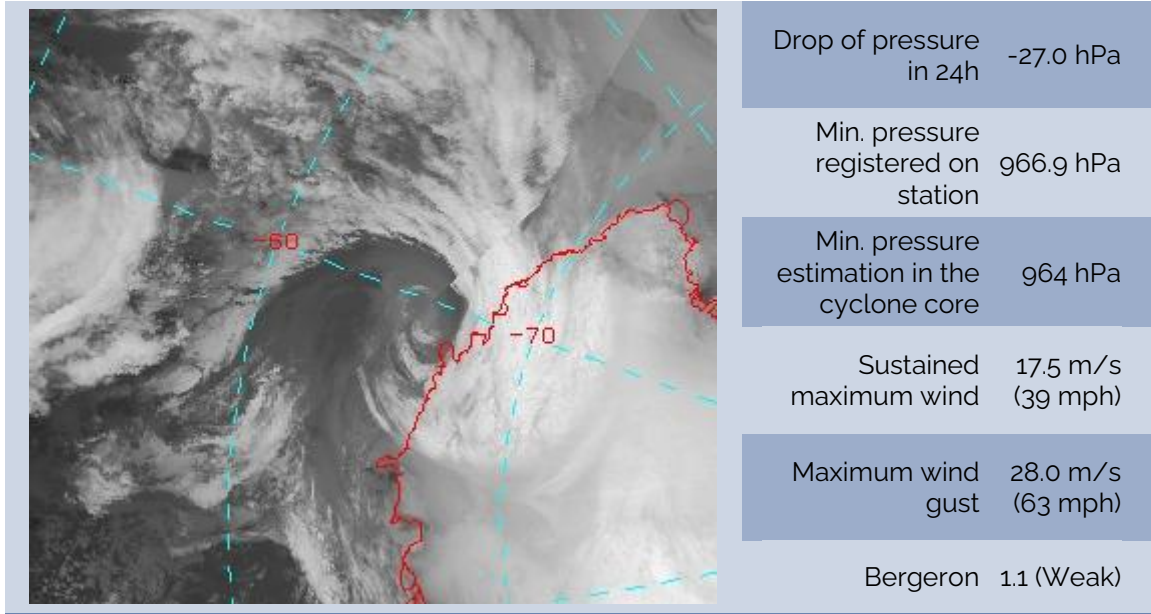


TOTAL EXPLOSIVE CYCLONES IN THE ANTARCTIC



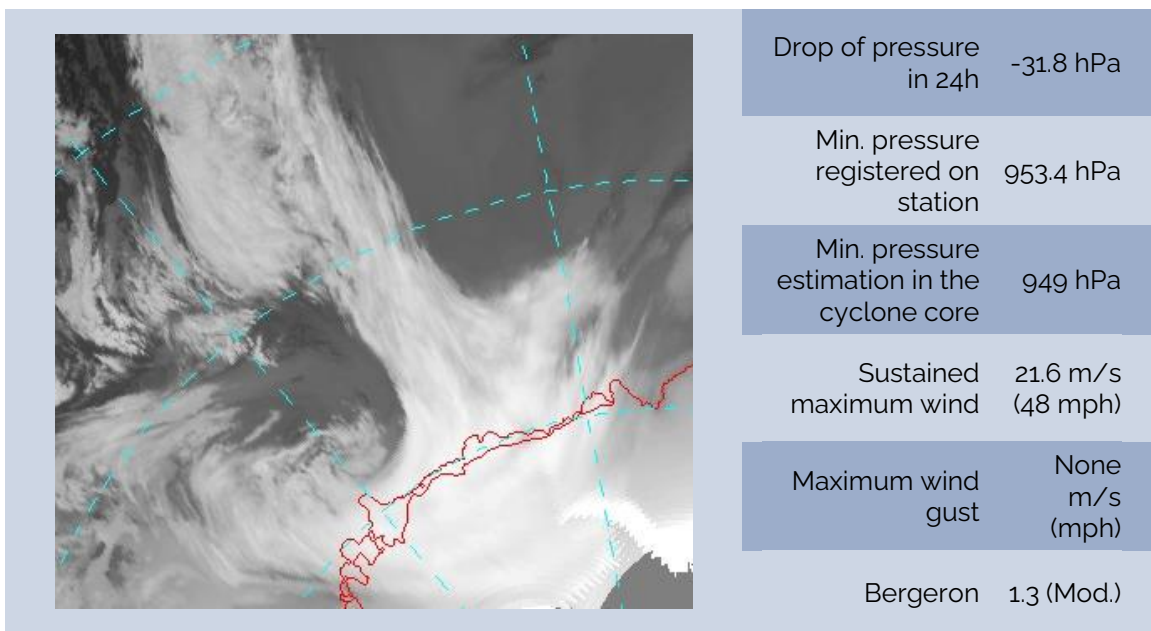
BOMB CYCLONE N°55/2023 - DATE: SEP./03/2023

LOCAL: DUMONT D'URVILLE STATION – WMO 89056 (OPERATED BY FRANCE)



BOMB CYCLONE N°56/2023 - DATE: SEP./19/2023

LOCAL: NEUMAYER STATION – WMO 89002 (OPERATED BY GERMANY)



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/>