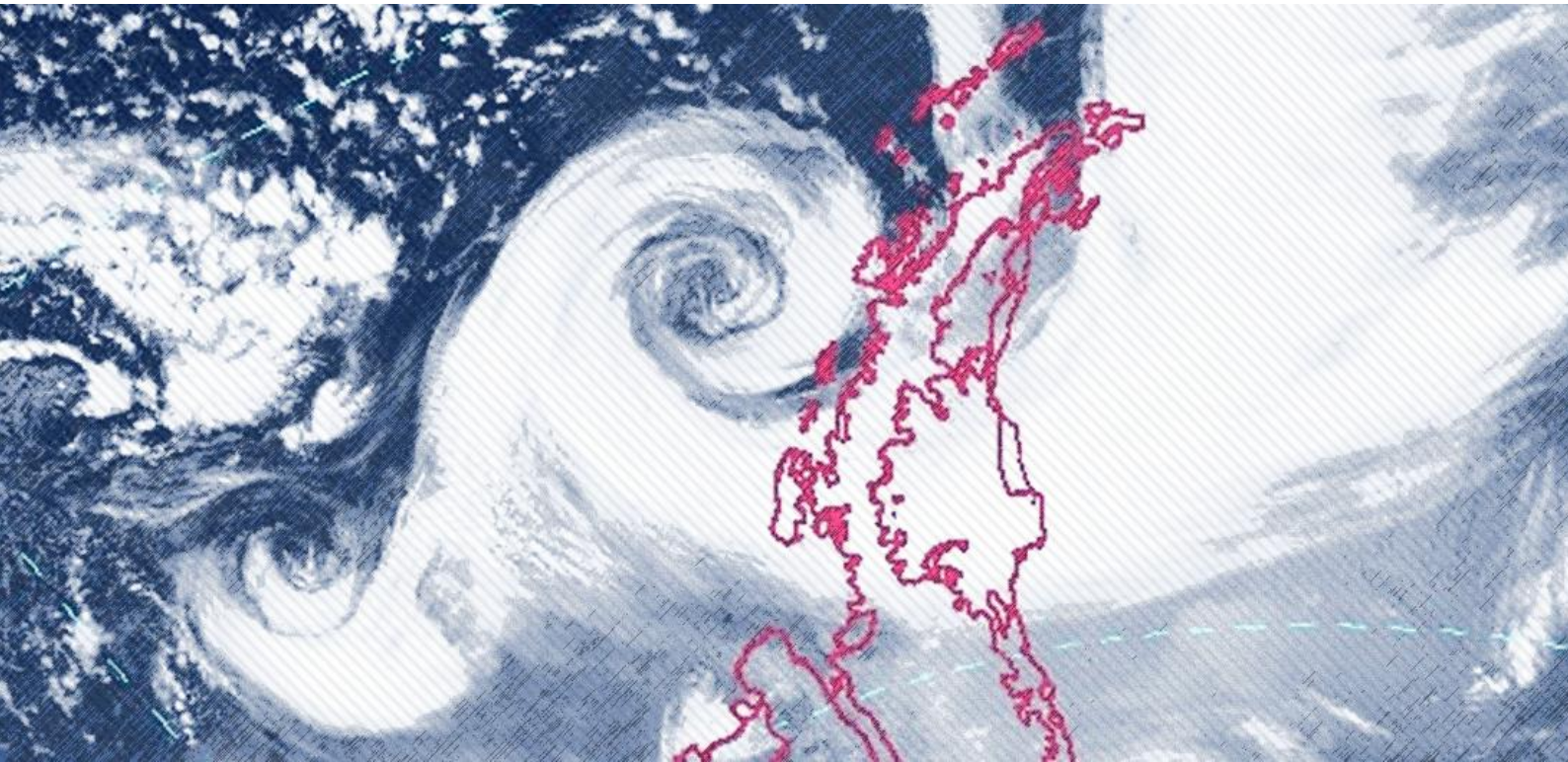




WORLD
ENVIRONMENTAL
CONSERVANCY

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

FEBRUARY 2022

During this month, only 12 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, Marambio, Fossil Bluff, Palmer and Davis. There was an increase (500%) in the number of cyclones in comparison to the same month of the previous year (2021) and an increase of 500% in comparison to the 2020 also.

TOTAL OF EVENTS REGISTERED IN STATIONS IN FEBRUARY

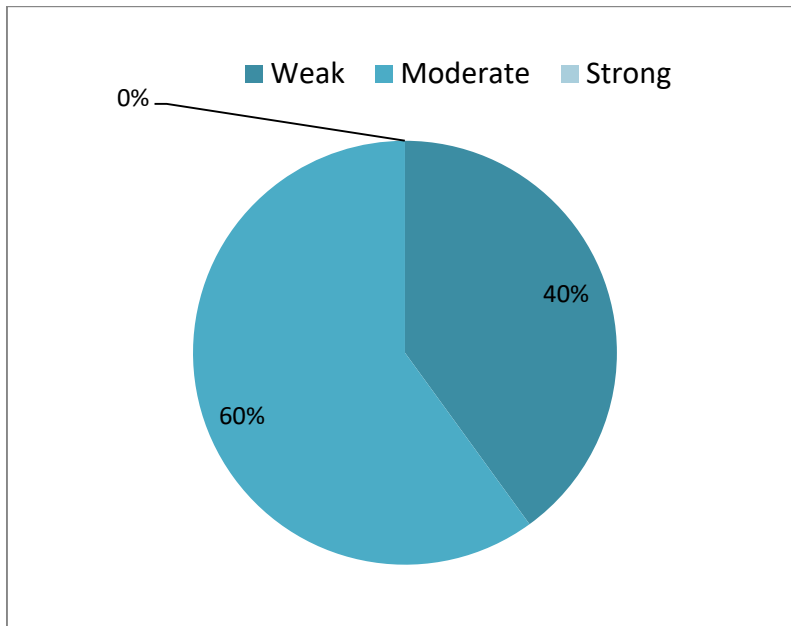
2017	2018	2019	2020	2021	2022
03	02	01	02	02	12

STATISTICS OF THE MONTH: FEBRUARY 2022

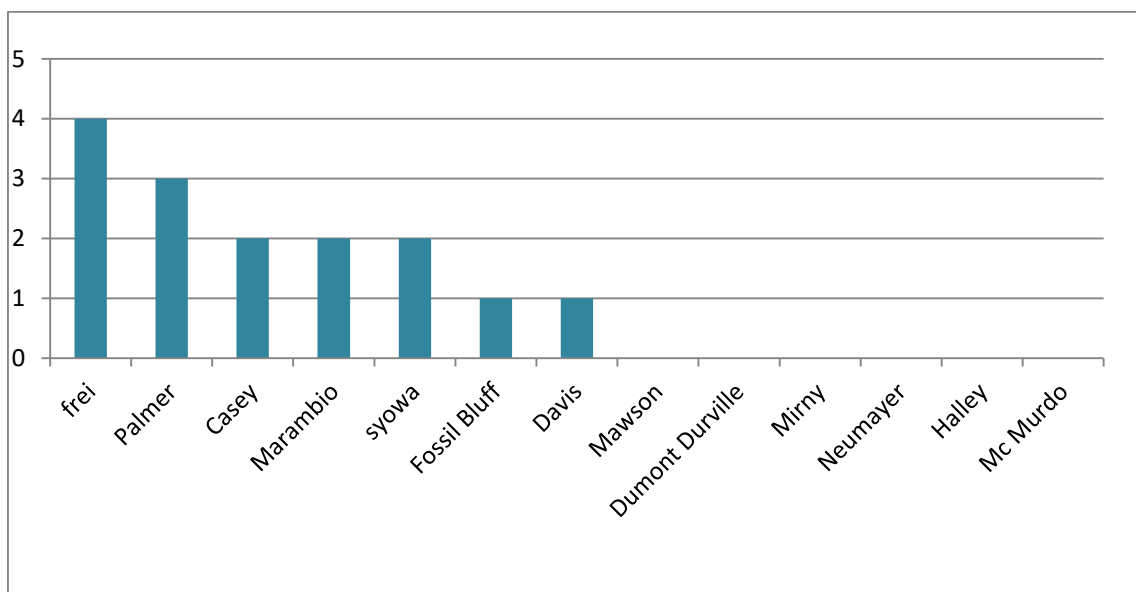
CLASSIFICATION	BERGERON SCALE	INTENSITY	TOTAL OF CASES REGISTERED IN THE MONTH
B1	1 a 1.2	Weak	04
B2	1.3 a 1.8	Moderate	08
B3	> 1.8	Strong	00

HIGHEST PRESSURE DROP	LOWEST RECORDED PRESSURE	HIGHEST SUSTAINED WIND
-34.1 hPa/24h	952.9 hPa	22.0 m/s
Marambio Station	Palmer Station	Davis Station
Feb. 21	Feb. 01	Feb. 20

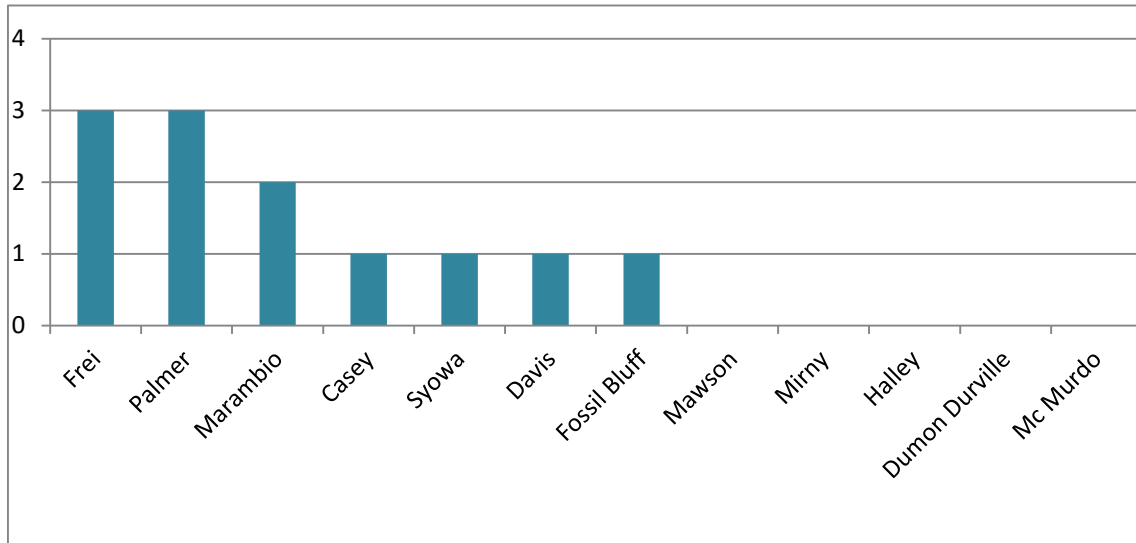
BERGERON INTENSITY TOTAL OF ANNUAL EVENTS IN 2022



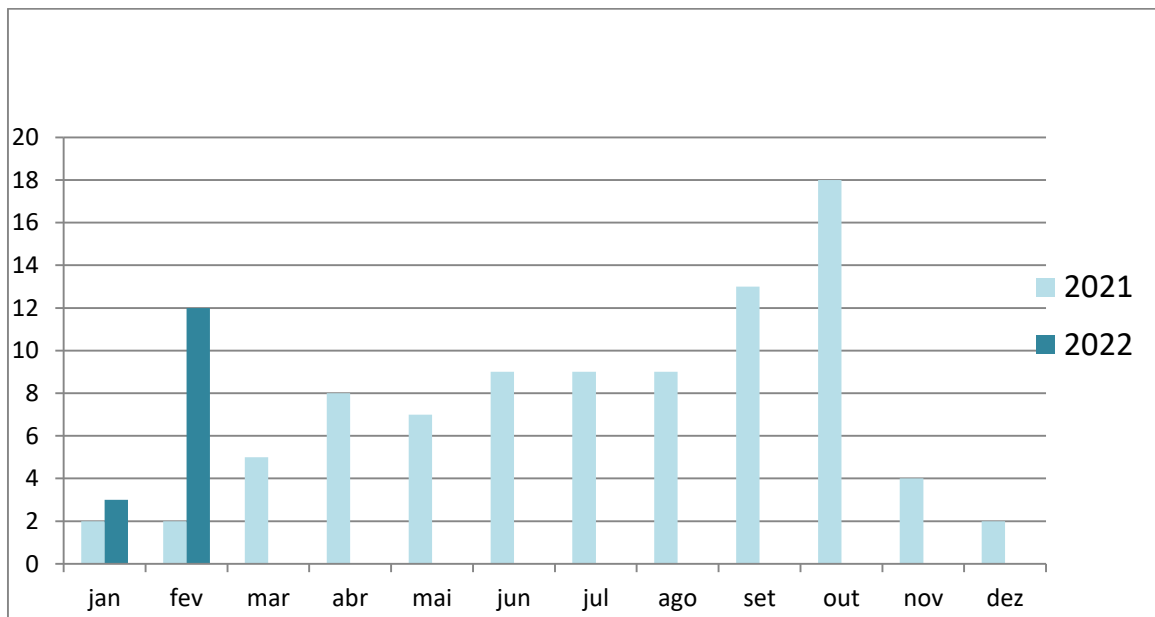
TOTAL OF EVENTS REGISTERED BY STATION IN 2022



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

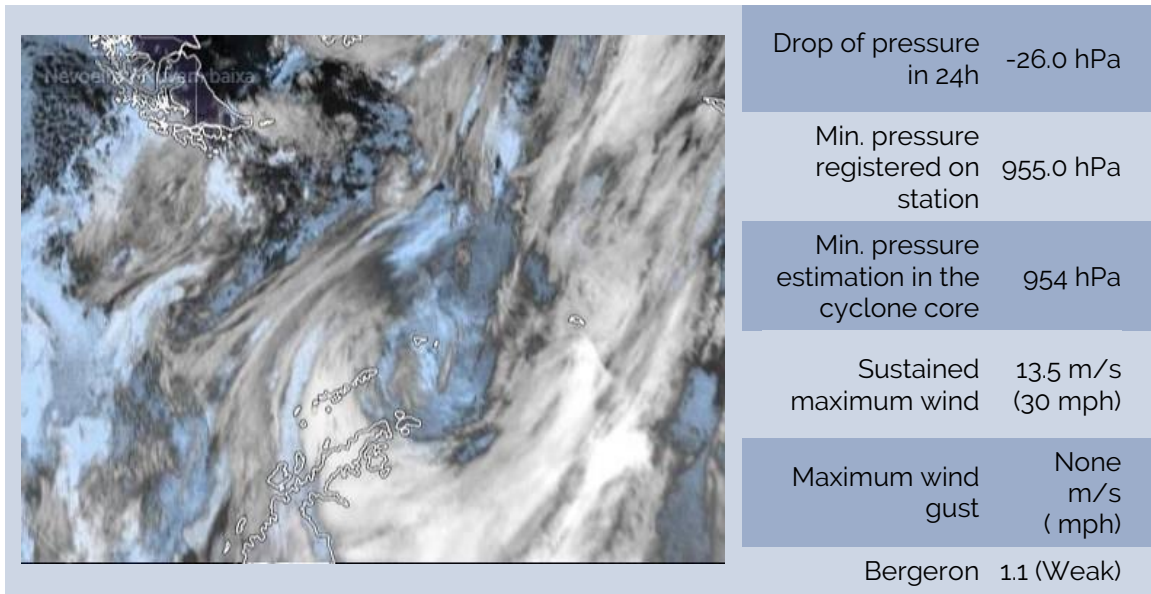


TOTAL EXPLOSIVE CYCLONES IN THE ANTARCTIC



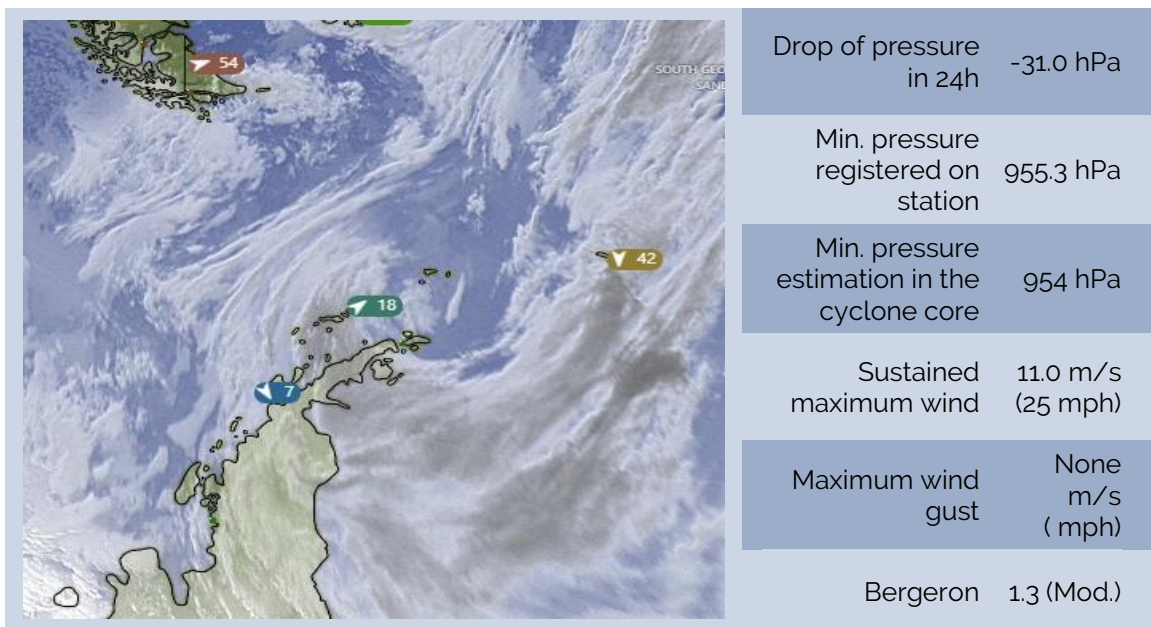
BOMB CYCLONE N°04/2022- DATE: FEB/01/2022

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



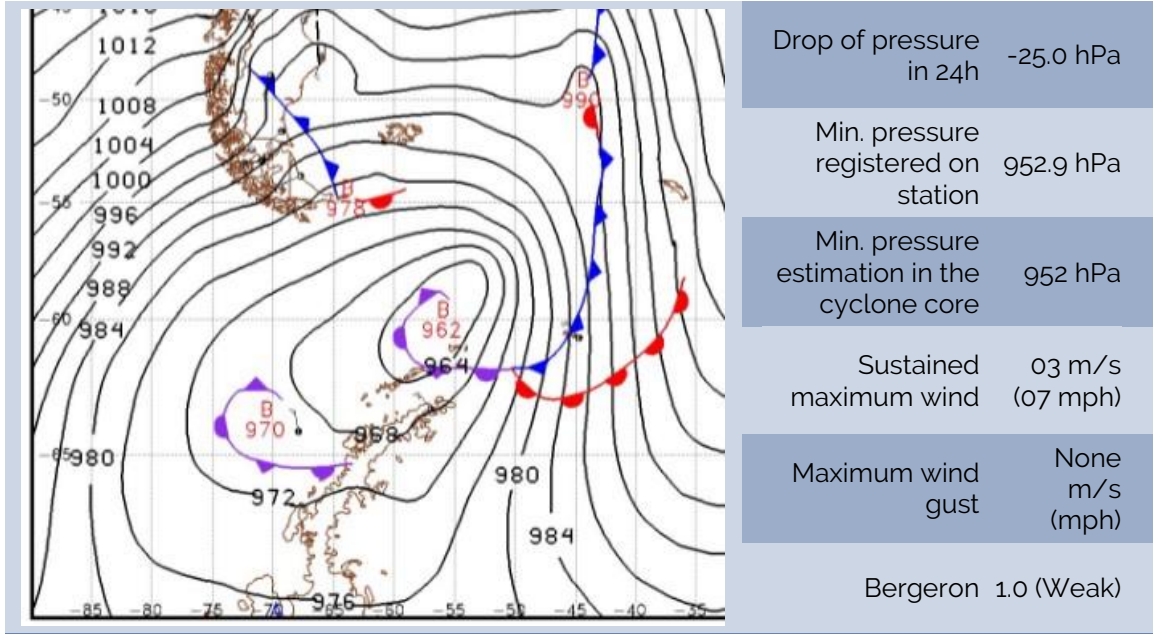
BOMB CYCLONE N°05/2022- DATE: FEB/01/2022

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



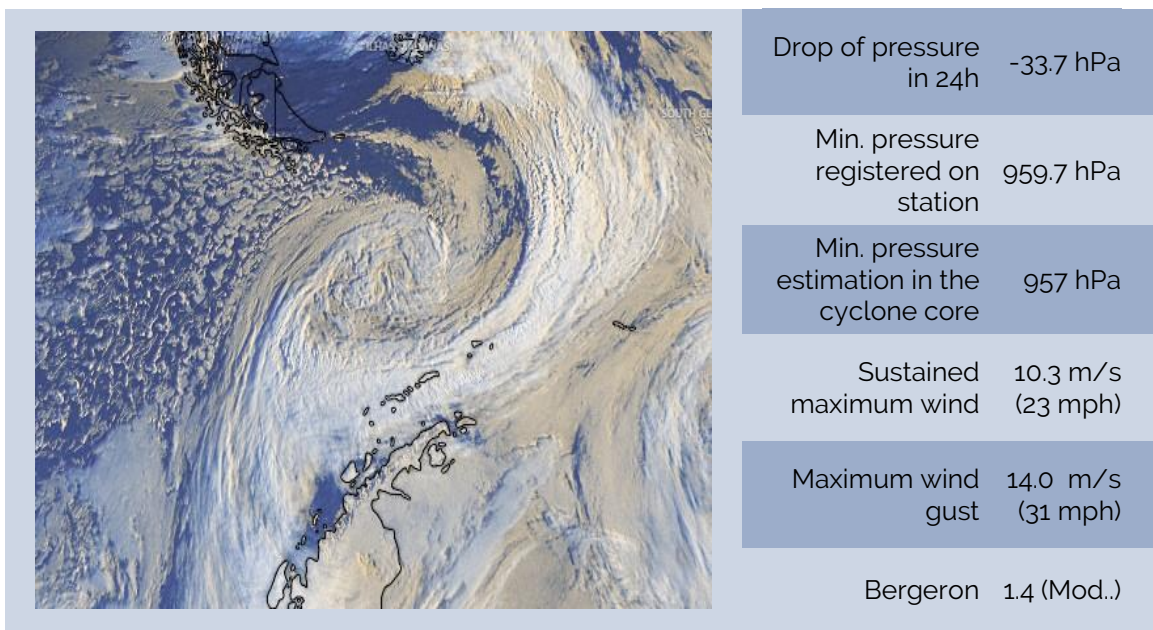
BOMB CYCLONE N°06/2022- DATE: FEB/01/2022

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



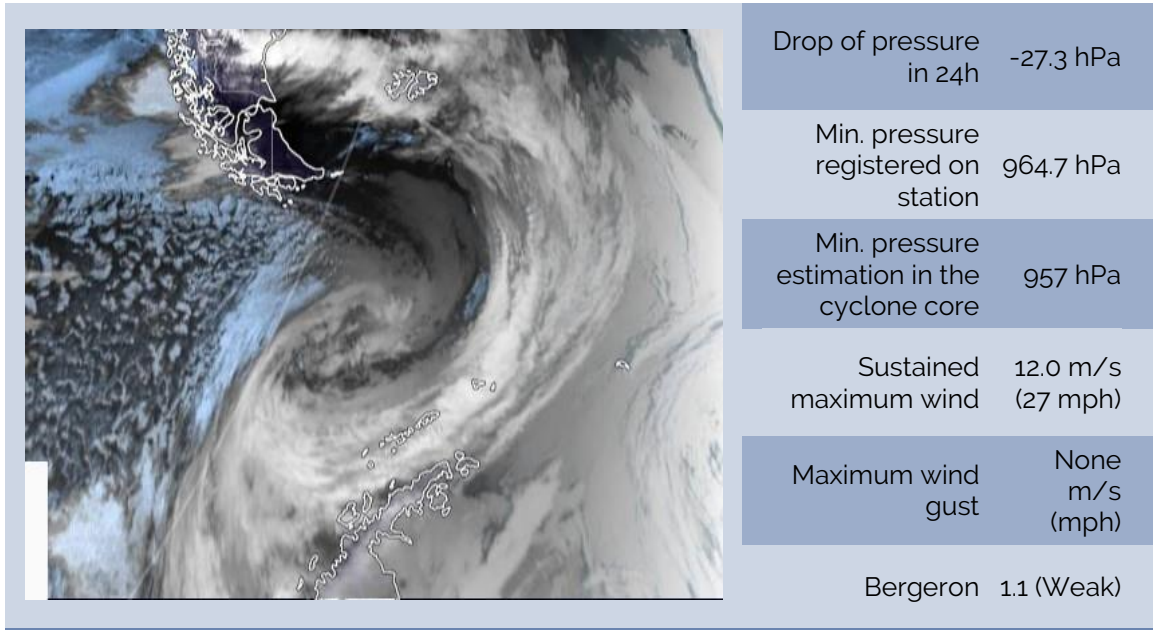
BOMB CYCLONE N°07/2022- DATE: FEB/12/2022

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



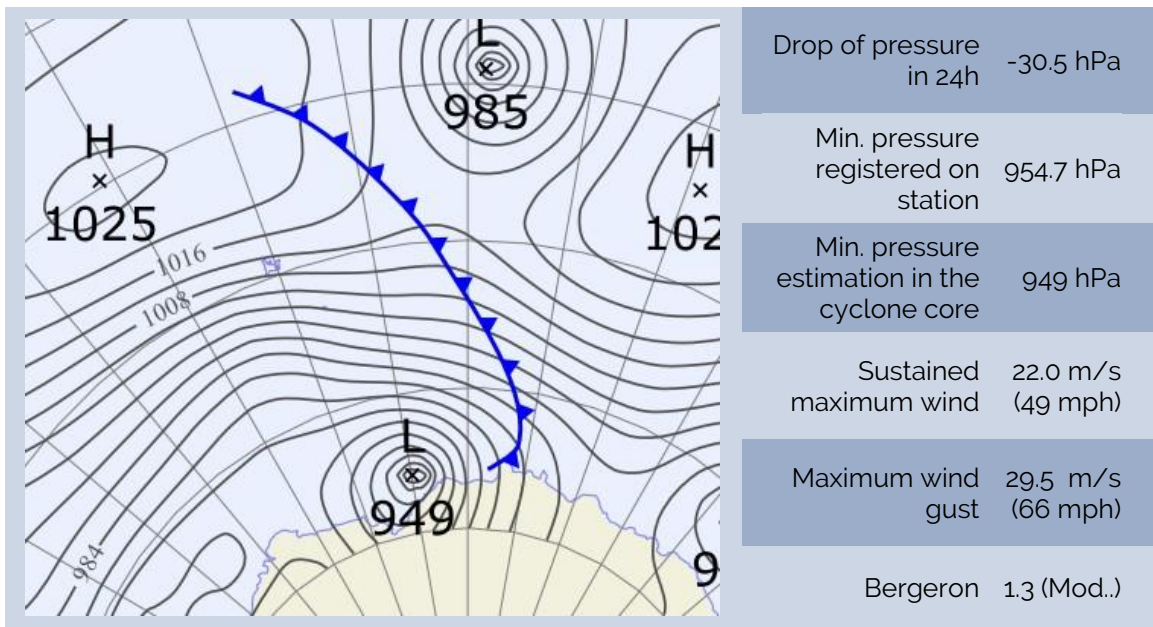
BOMB CYCLONE N°08/2022- DATE: FEB/12/2022

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



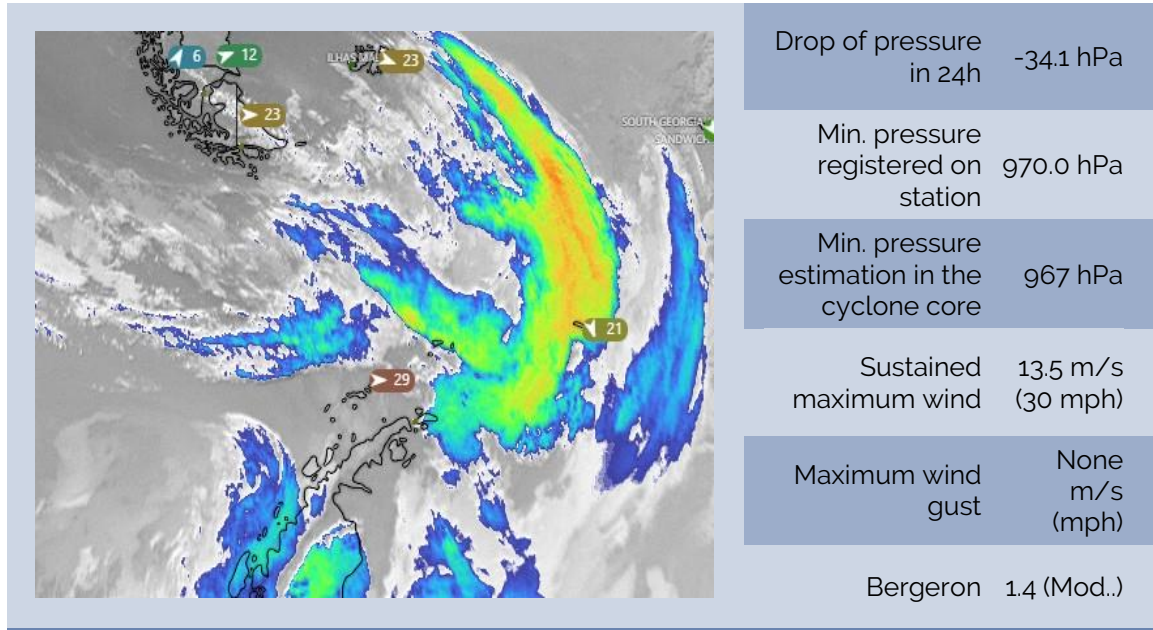
BOMB CYCLONE N°09/2022- DATE: FEB/20/2022

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



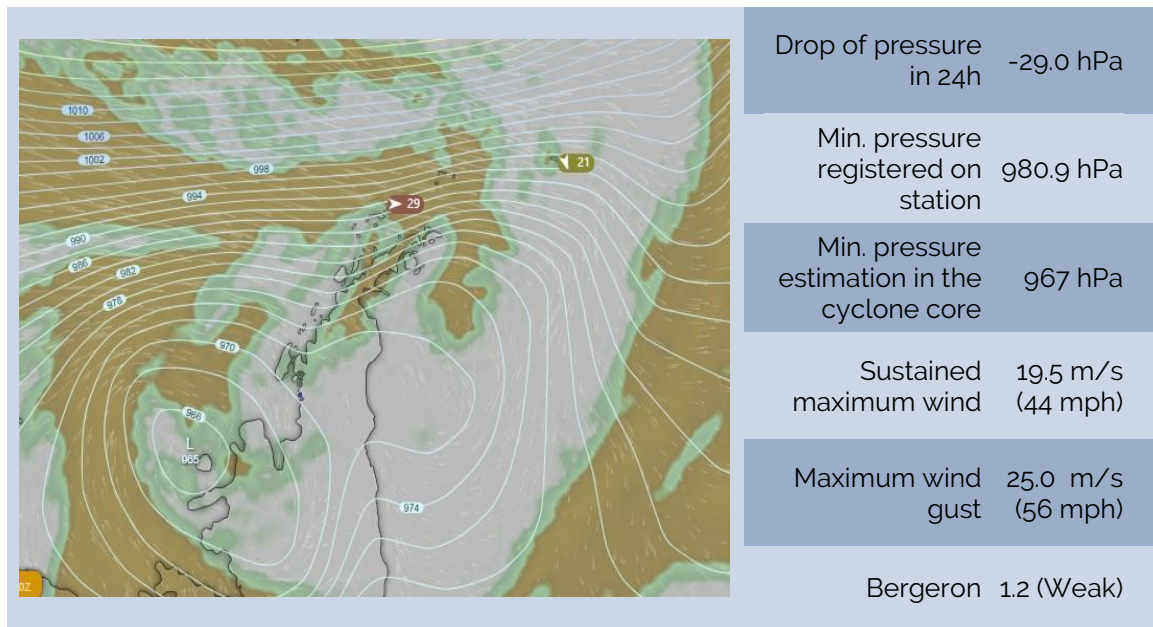
BOMB CYCLONE N°10/2022- DATE: FEB/21/2022

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



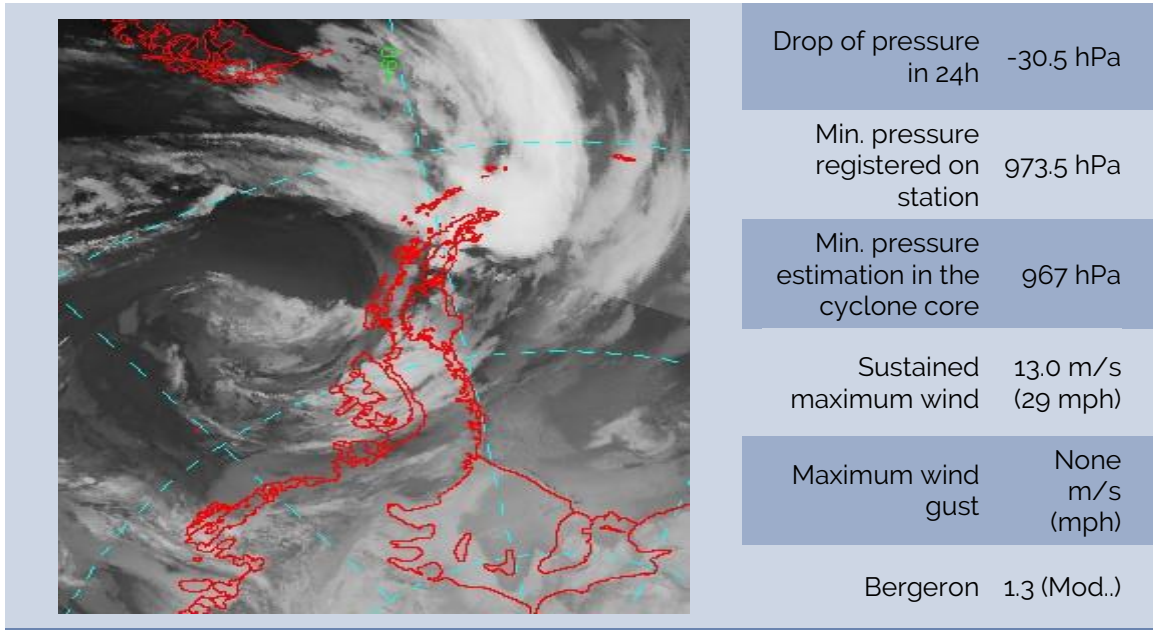
BOMB CYCLONE N°11/2022- DATE: FEB/21/2022

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



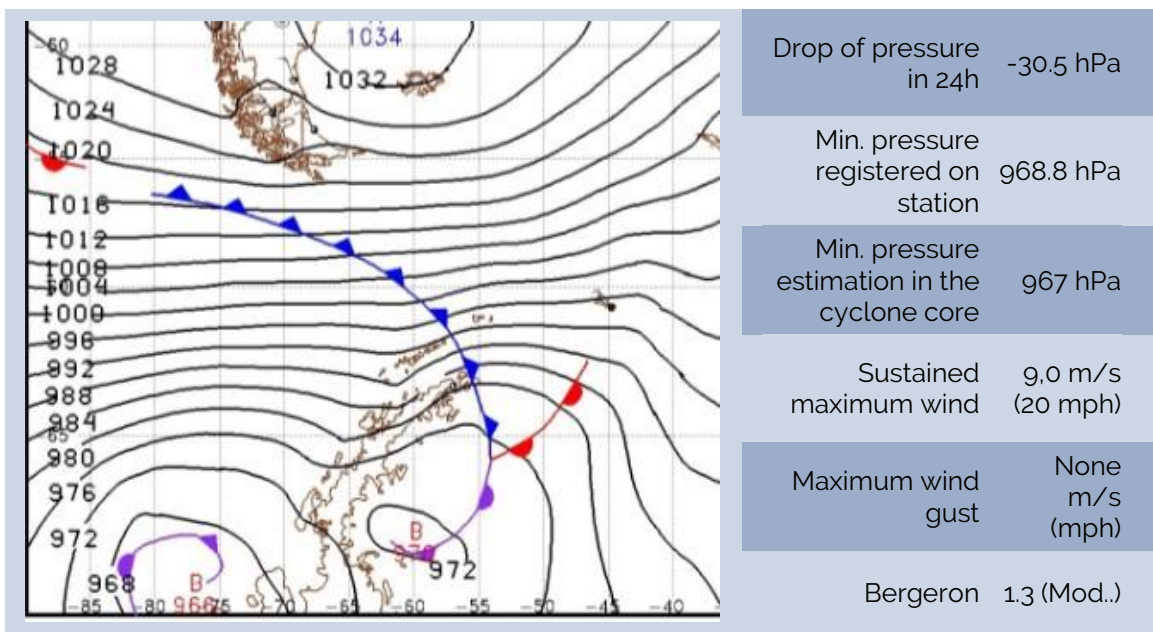
BOMB CYCLONE N°12/2022- DATE: FEB/21/2022

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



BOMB CYCLONE N°13/2022- DATE: FEB/21/2022

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



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>