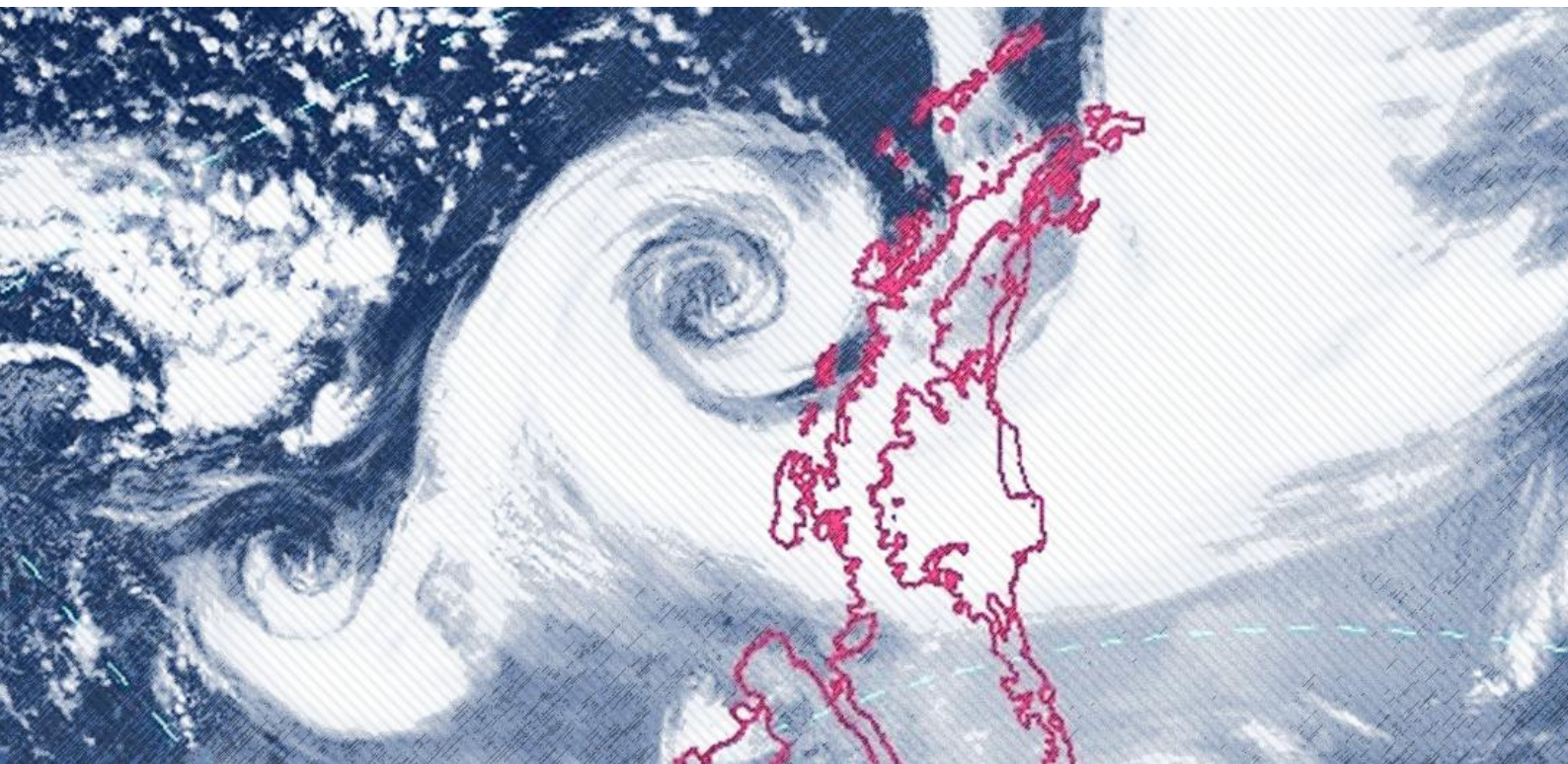




WORLD
ENVIRONMENTAL
CONSERVANCY

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

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JULY 2021

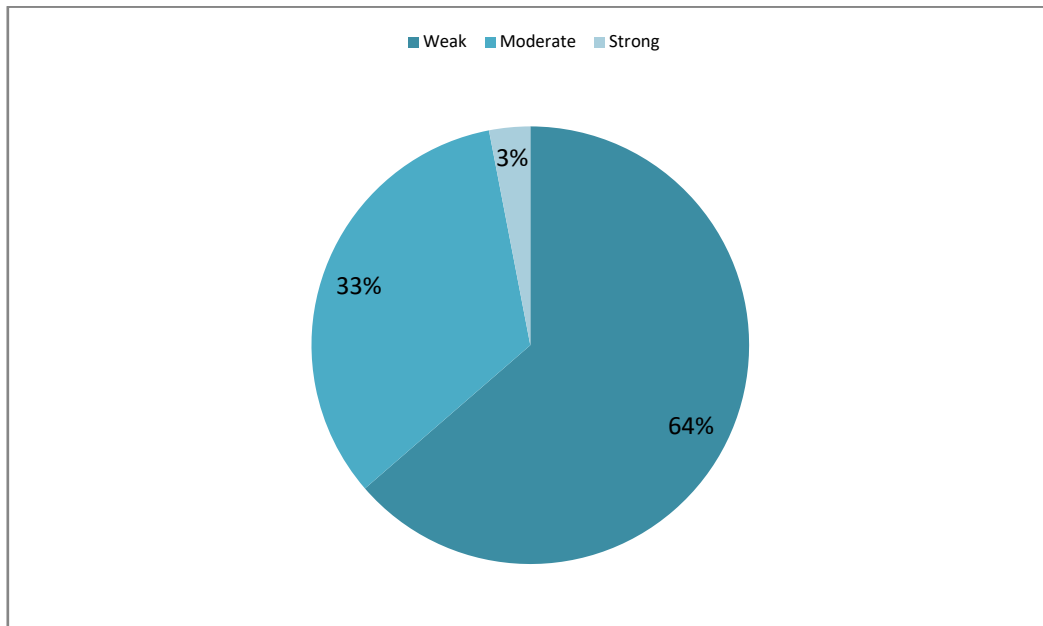
During this month, 09 events were registered among the 13 research stations located on the coast of the Antarctic utilized as references for the monitoring of bomb cyclones. The stations affected by cyclones this month were: Marambio, Casey, Syowa, Frei, Mawson and Palmer. There was a decrease (10%) in the number of cyclones in comparison to the same month of the previous year (2020).

STATISTICS OF THE MONTH

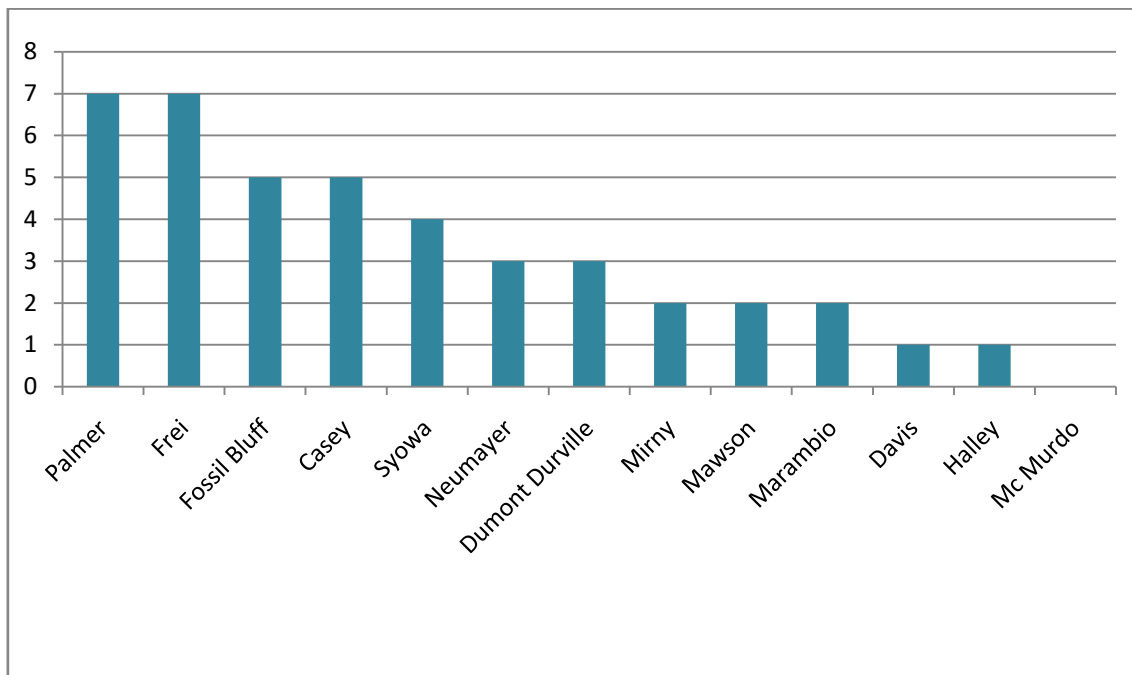
CLASSIFICATION	BERGERON SCALE	INTENSITY	TOTAL OF CASES REGISTERED IN THE MONTH
B1	1 a 1.2	Weak	03
B2	1.3 a 1.8	Moderate	04
B3	> 1.8	Strong	00

HIGHEST PRESSURE DROP	LOWEST RECORDED PRESSURE	HIGHEST SUSTAINED WIND
-32.0 hPa/24h	956.1 hPa	42.5 m/s
Frei Station	Palmer Station	Mawson Station
Jul. 19	Jul. 30	Jul. 03

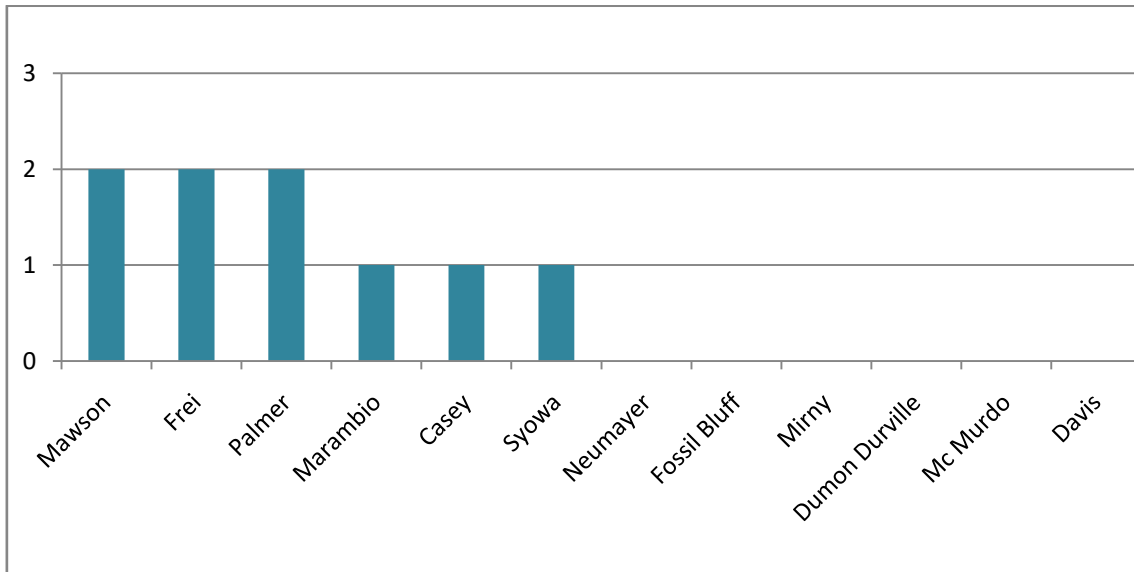
BERGERON INTENSITY TOTAL OF ANNUAL EVENTS IN 2021



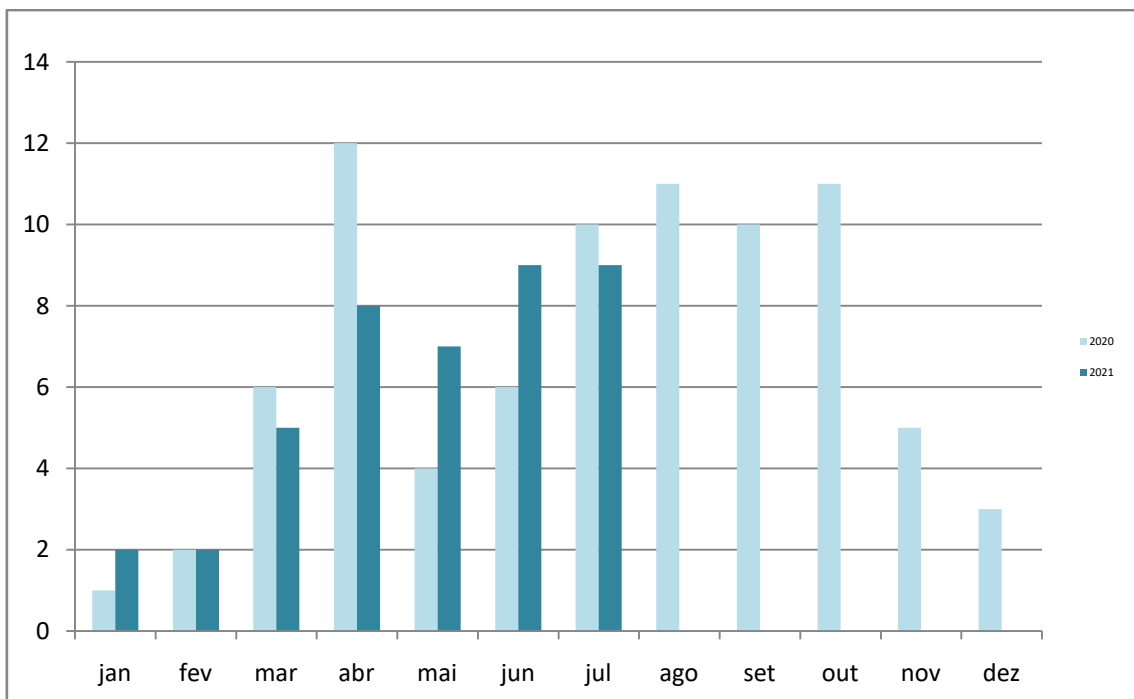
TOTAL OF EVENTS REGISTERED BY STATION IN 2021



TOTAL OF EVENTS REGISTERED IN EACH STATION IN THE MONTH OF JULY/2021

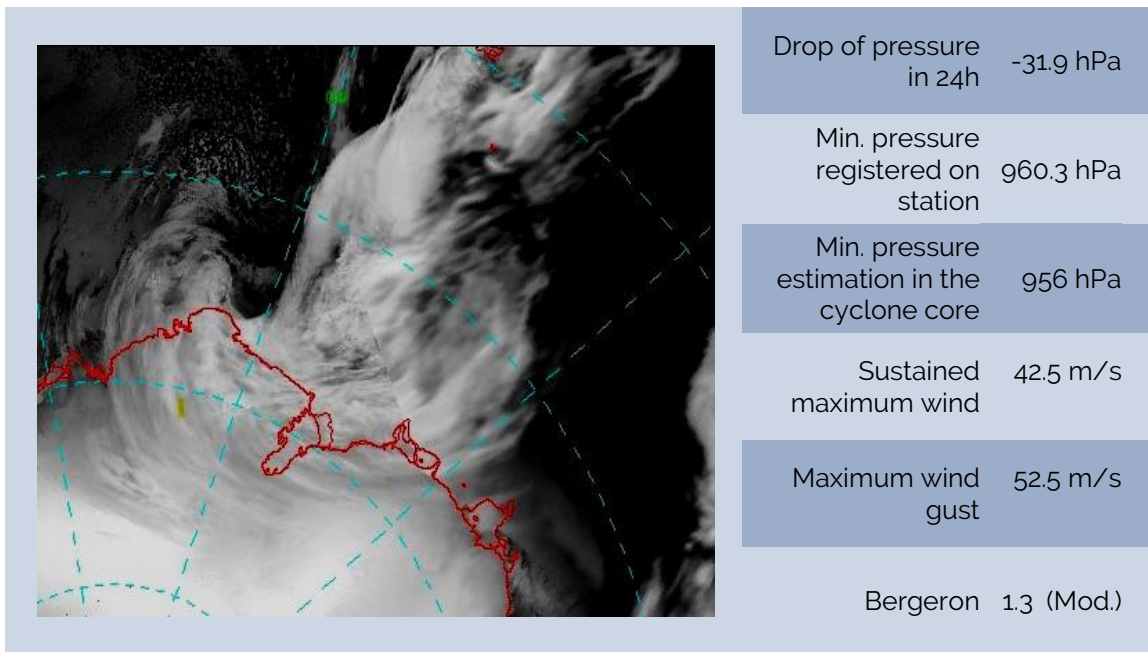


TOTAL EXPLOSIVE CYCLONES IN THE ANTARCTIC



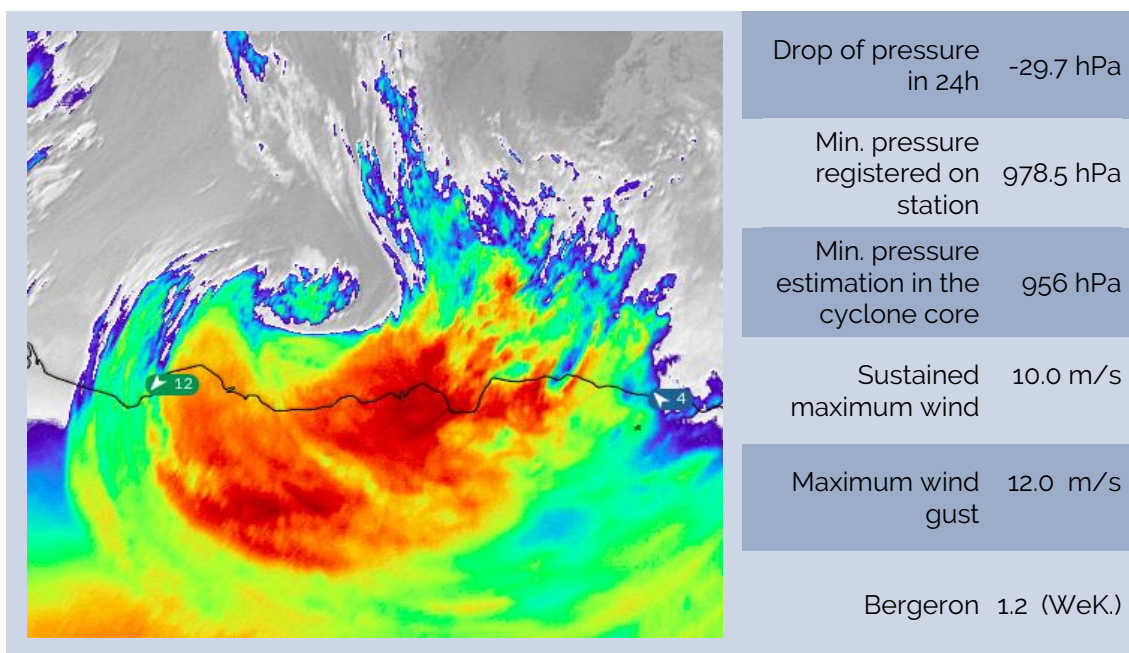
BOMB CYCLONE N°34/2021- DATE: JUL/03/2021

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



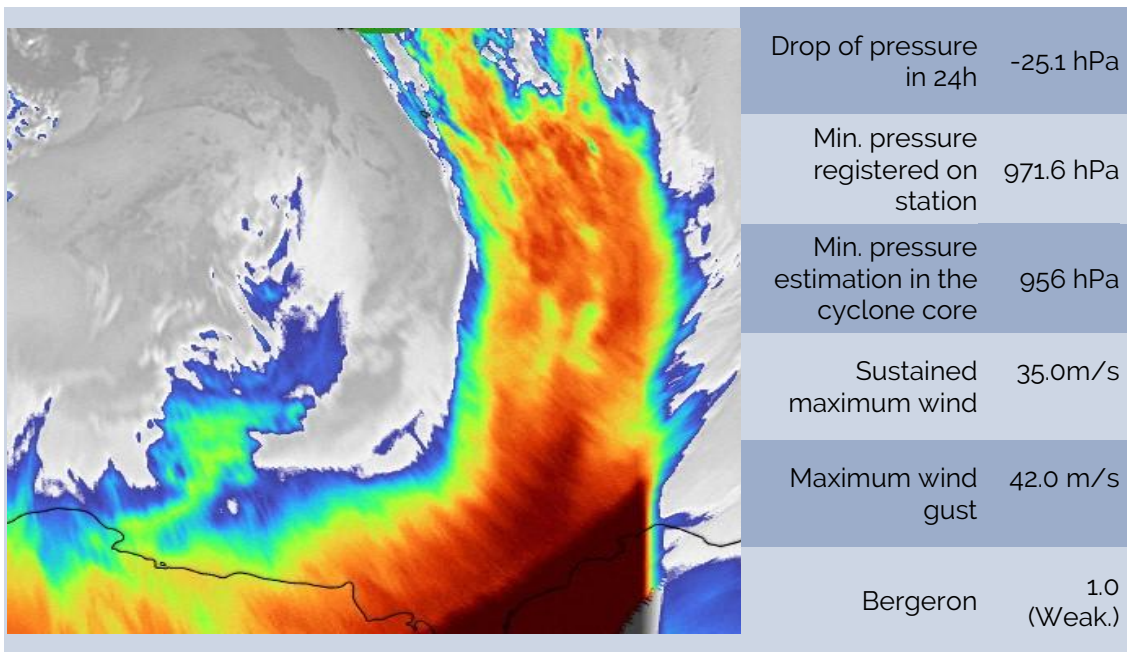
BOMB CYCLONE N°35/2021- DATE: JUL/09/2021

LOCAL: CASEY STATION – WMO 89611 (OPERATED BY AUSTRALIA)



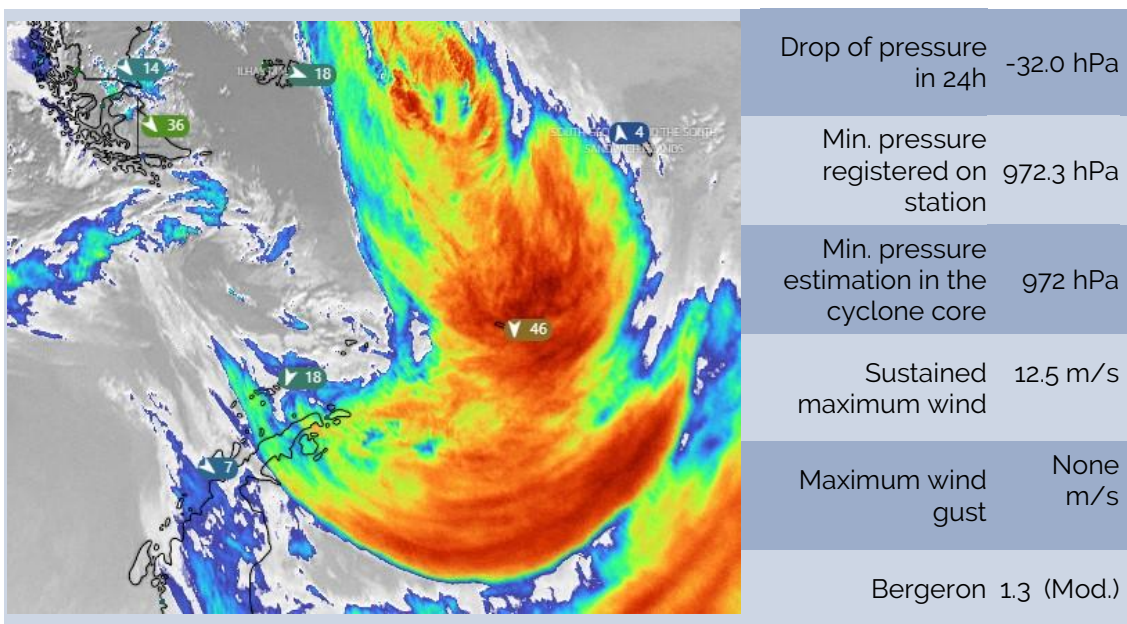
BOMB CYCLONE N°36/2021- DATE: JUL/10/2021

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



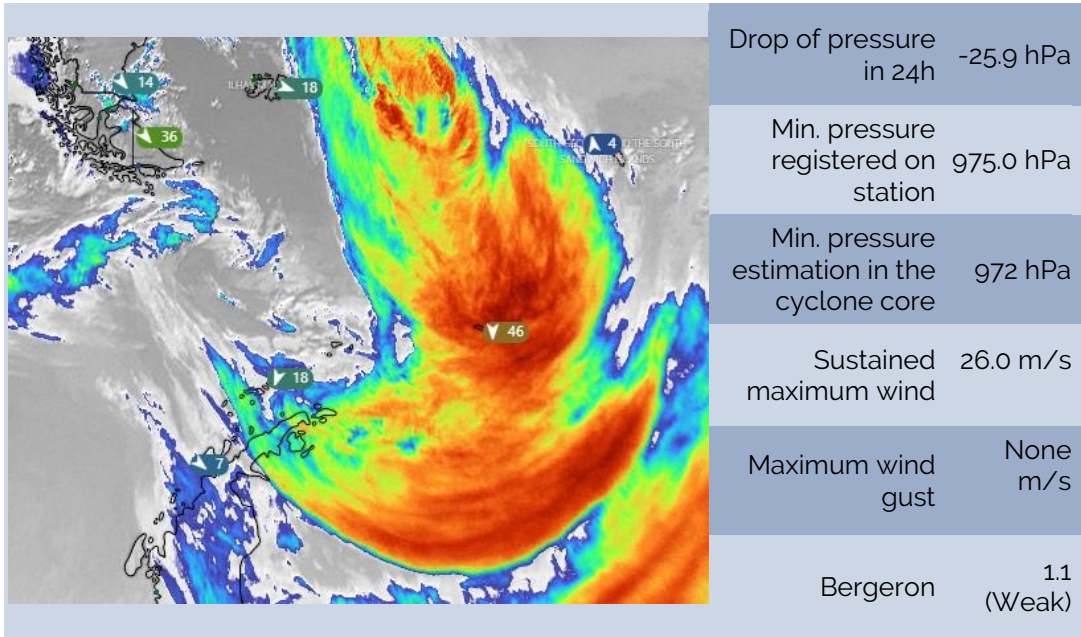
BOMB CYCLONE N°37/2021 - DATE: JUL/19/2021

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



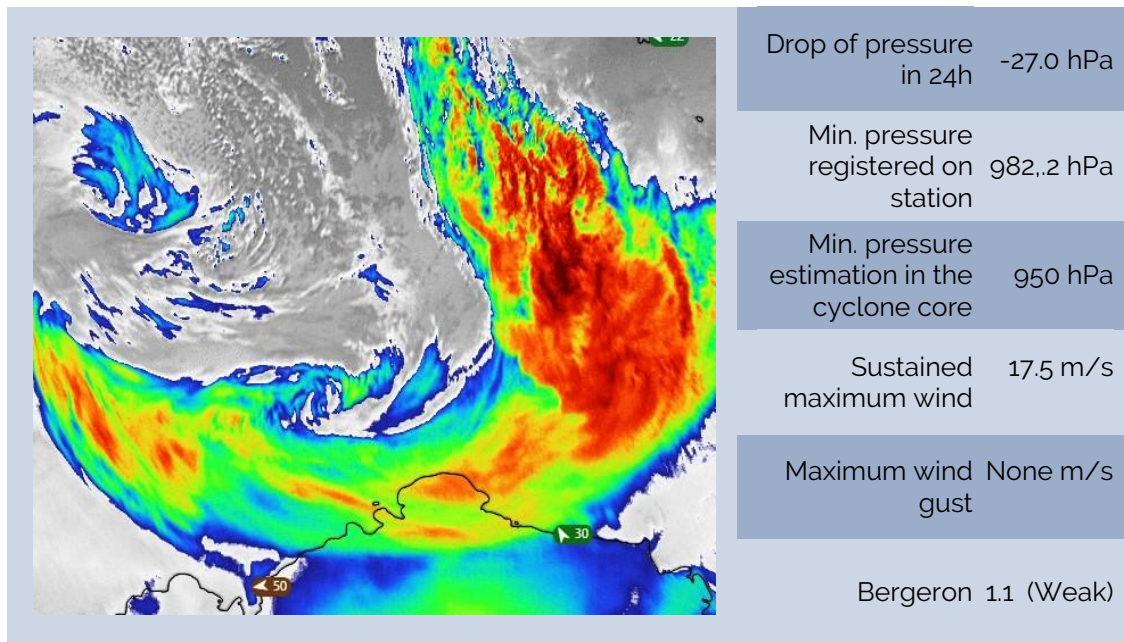
BOMB CYCLONE N°38/2021- DATE: JUL/19/2021

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



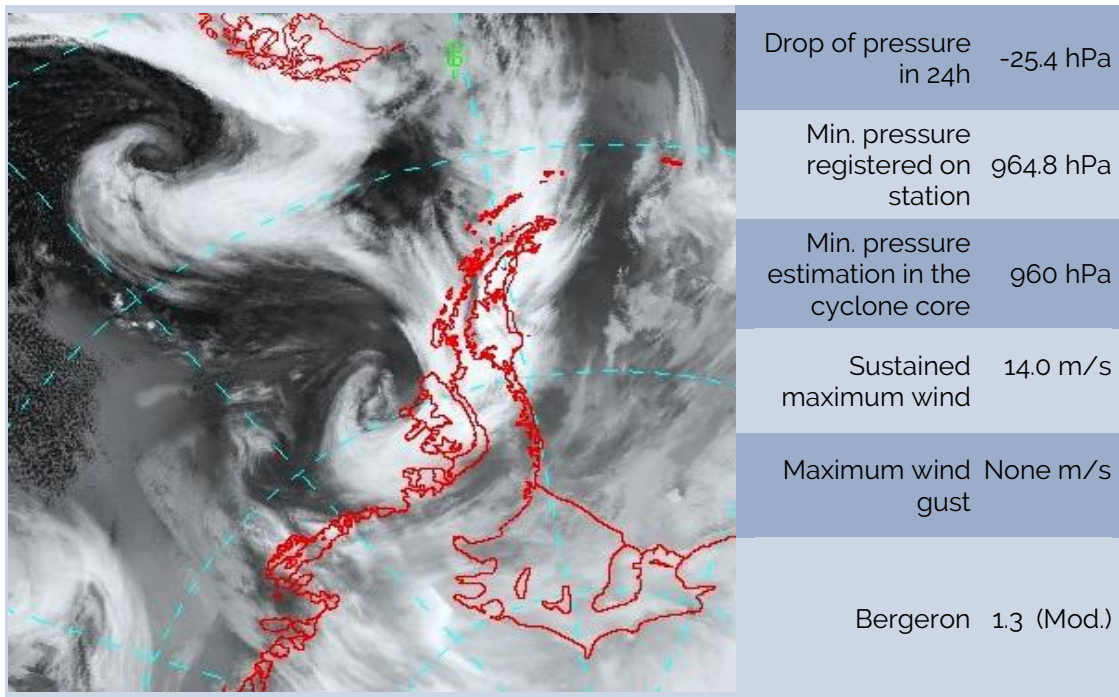
BOMB CYCLONE N°39/2021- DATE: JUL/28/2021

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



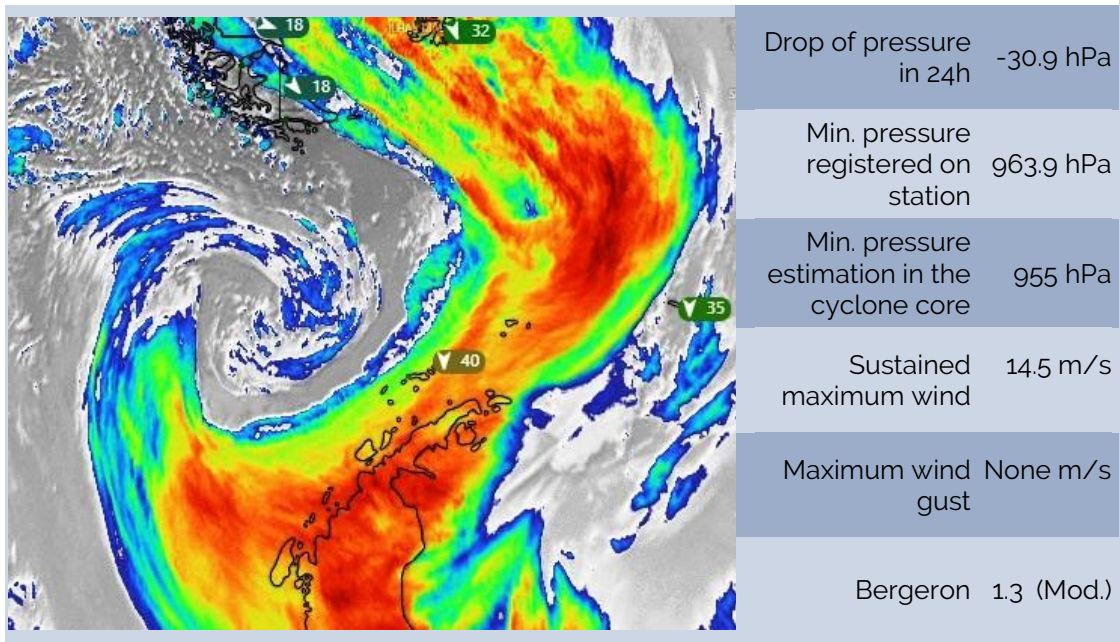
BOMB CYCLONE N°40/2021- DATE: JUL/29/2021

LOCAL: PALMER STATION – WMO 89065 (OPERATED BY U.S.A.)



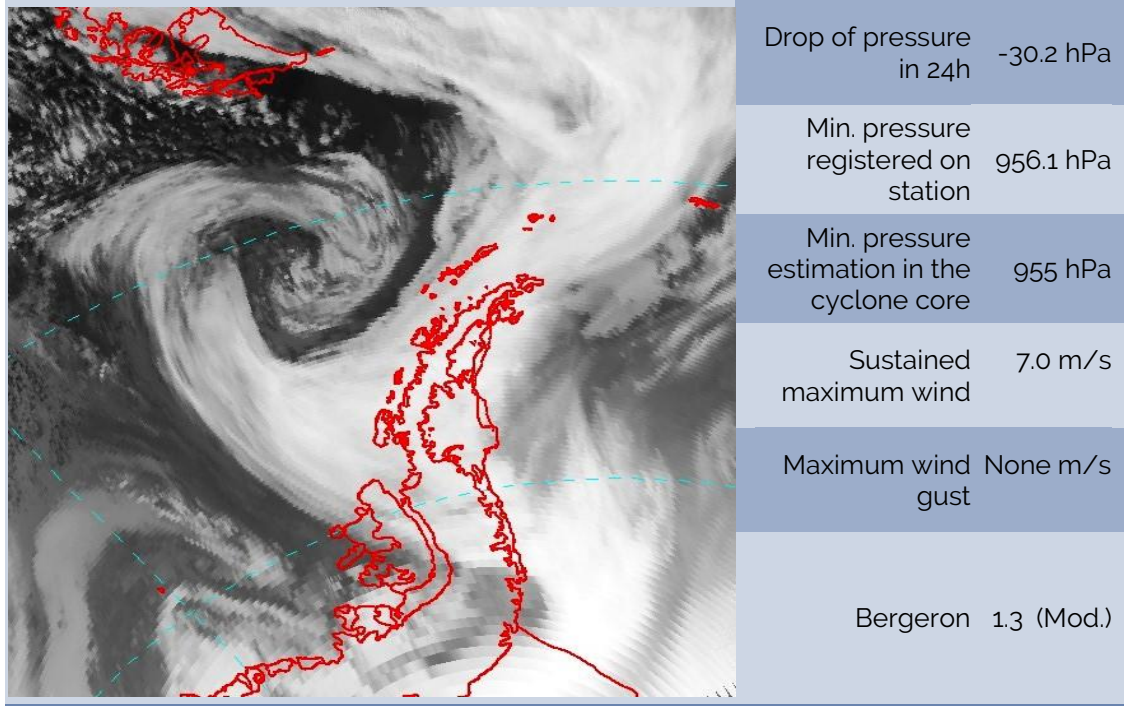
BOMB CYCLONE N°41/2021- DATE: JUL/30/2021

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



BOMB CYCLONE N°42/2021- DATE: JUL/30/2021

LOCAL: PALMER STATION – WMO 89065 (OPERATED BY U.S.A.)



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>