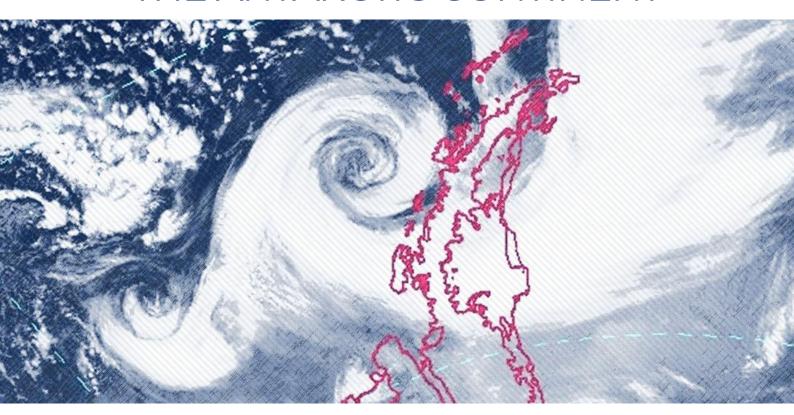


MONITORING EXPLOSIVE CYCLONES ON THE COAST OF THE ANTARCTIC CONTINENT





MONITORING EXPLOSIVE CYCLONES ON THE COAST OF THE ANTARCTIC CONTINENT

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

MARCH 2021

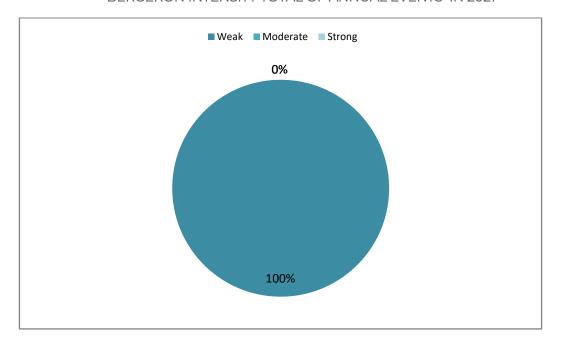
During this month, only 05 event were registered among the 13 research stations located on the coast of the Antarctic utilized as references for the monitoring of bomb cyclones. The stations hit by cyclones this month were: Frei, Neumayer and Palmers. There was a decrease in the number of cases in comparison to the same month of the previous year (17%).

STATISTICS OF THE MONTH

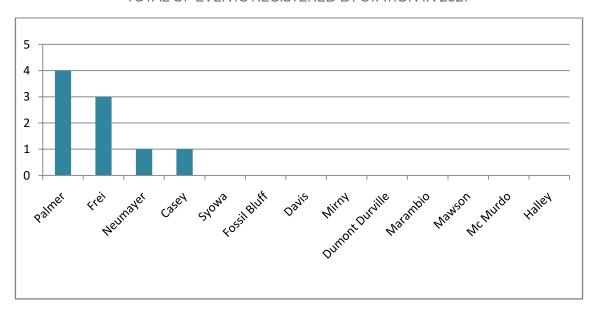
CLASSIFICATION	BERGERON SCALE	INTENSITY	TOTAL OF CASES REGISTERED IN THE MONTH
B1	1 a 1.2	Weak	05
B2	1.3 a 1.8	Moderate	00
В3	> 1.8	Strong	00

HIGHEST PRESSURE DROP	LOWEST RECORDED PRESSURE	HIGHEST SUSTAINED WIND
-28.3 hpa/24h	956.0 hPa	25.7 m/s
Neumayer Station	Frei Station	Neumayer Station
Mar. 12	Mar. 10	Mar. 25

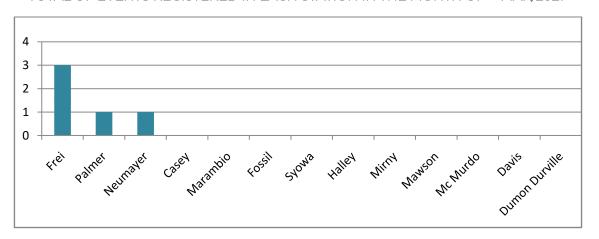
BERGERON INTENSITY TOTAL OF ANNUAL EVENTS IN 2021



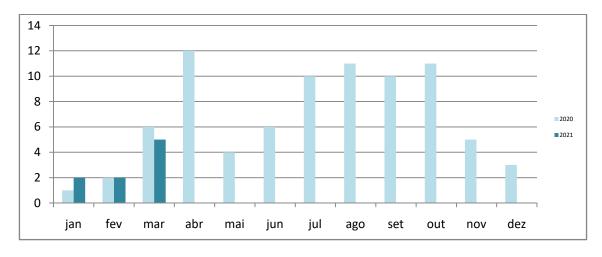
TOTAL OF EVENTS REGISTERED BY STATION IN 2021



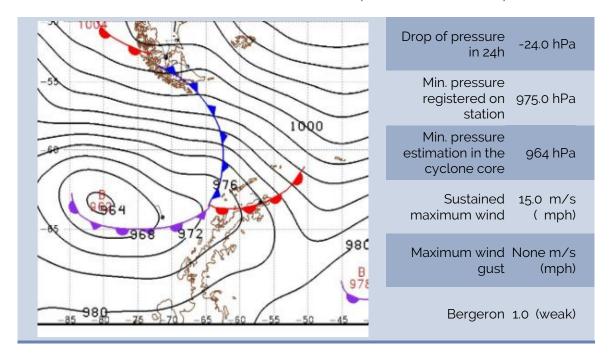
TOTAL OF EVENTS REGISTERED IN EACH STATION IN THE MONTH OF MAR/2021



TOTAL EXPLOSIVE CYCLONES IN THE ANTARCTIC

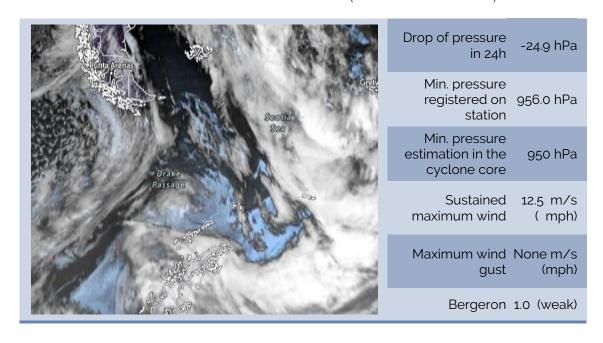


LOCAL: FREI STATION - WMO 89056 (OPERATED BY CHILE)



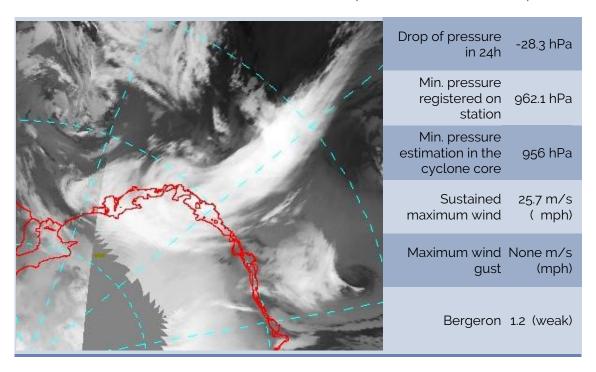
BOMB CYCLONE N°06/2021- DATE: MAR/10/2021

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



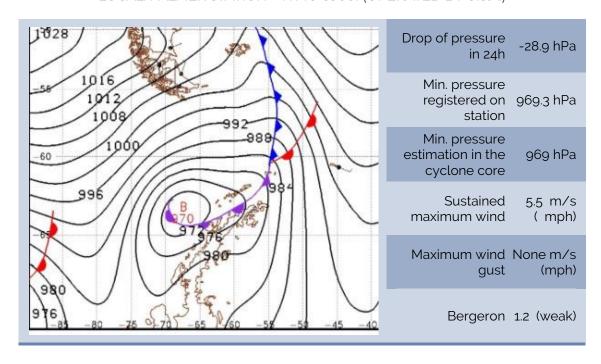
BOMB CYCLONE N°07/2021 - DATE: MAR/12/2021

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



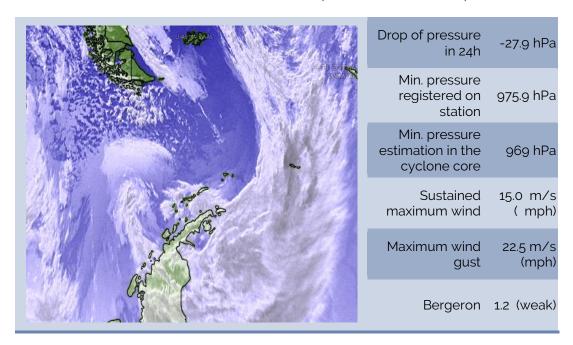
BOMB CYCLONE N°08/2021 - DATE: MAR/16/2021

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



BOMB CYCLONE N°09/2021- DATE: MAR/16/2021

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



SOURCES

AMRC - UW Madison

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