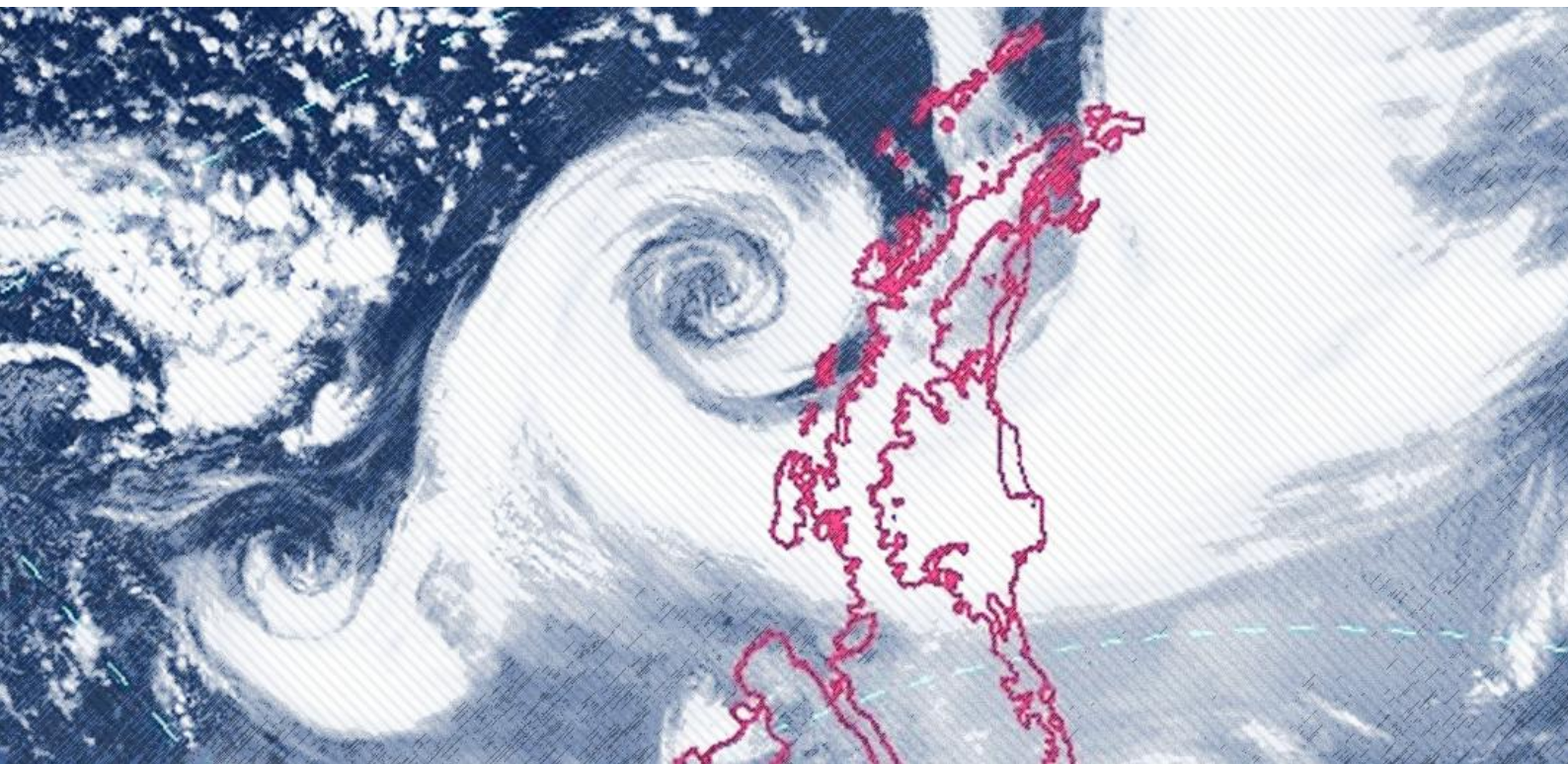




WORLD  
ENVIRONMENTAL  
CONSERVANCY

# MONITORING EXPLOSIVE CYCLONES ON THE COAST OF THE ANTARCTIC CONTINENT



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



# MONITORING EXPLOSIVE CYCLONES ON THE COAST OF THE ANTARCTIC CONTINENT

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## JANUARY 2021

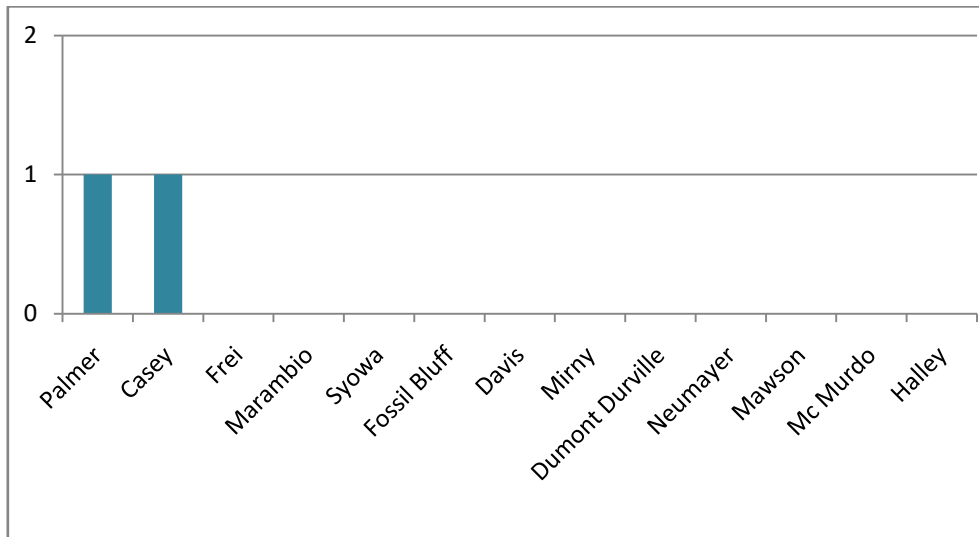
During this month, only 02 event were registered among the 13 research stations located on the coast of the Antarctic utilized as references for the monitoring of bomb cyclones. The stations hit by a cyclone this month was Palmer and Casey. There was a significant increase in the number of cases in comparison to the same month of the previous year (100%).

## STATISTICS OF THE MONTH

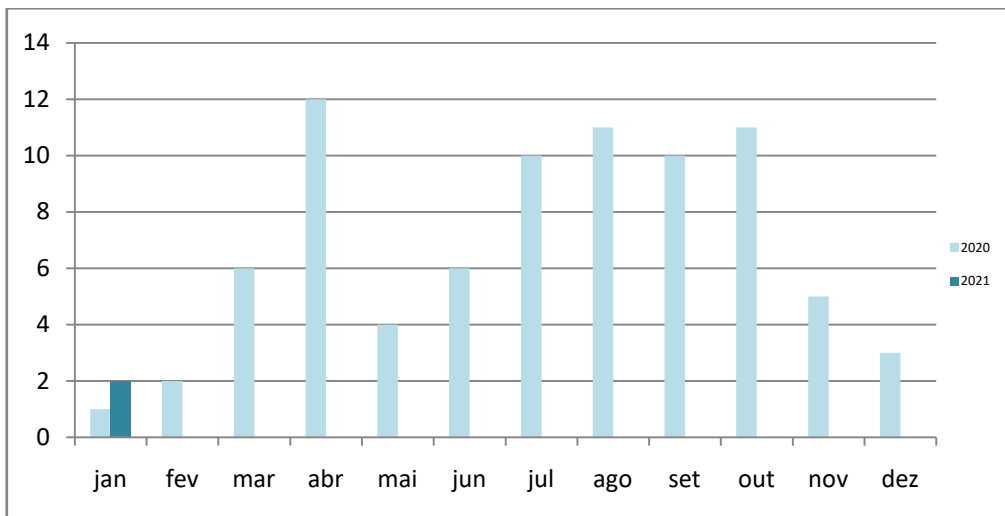
CLASSIFICATION	BERGERON SCALE	INTENSITY	TOTAL OF CASES REGISTERED IN THE MONTH
B1	1 a 1.2	Weak	02
B2	1.3 a 1.8	Moderate	00
B3	> 1.8	Strong	00

HIGHEST PRESSURE DROP	LOWEST RECORDED PRESSURE	HIGHEST SUSTAINED WIND
-25.7 hPa/24h	950.0 hPa	29.5 m/s
Casey	Casey	Casey
Jan. 04th	Jan. 04th	Jan. 04th

TOTAL OF EVENTS REGISTERED BY STATION IN 2021

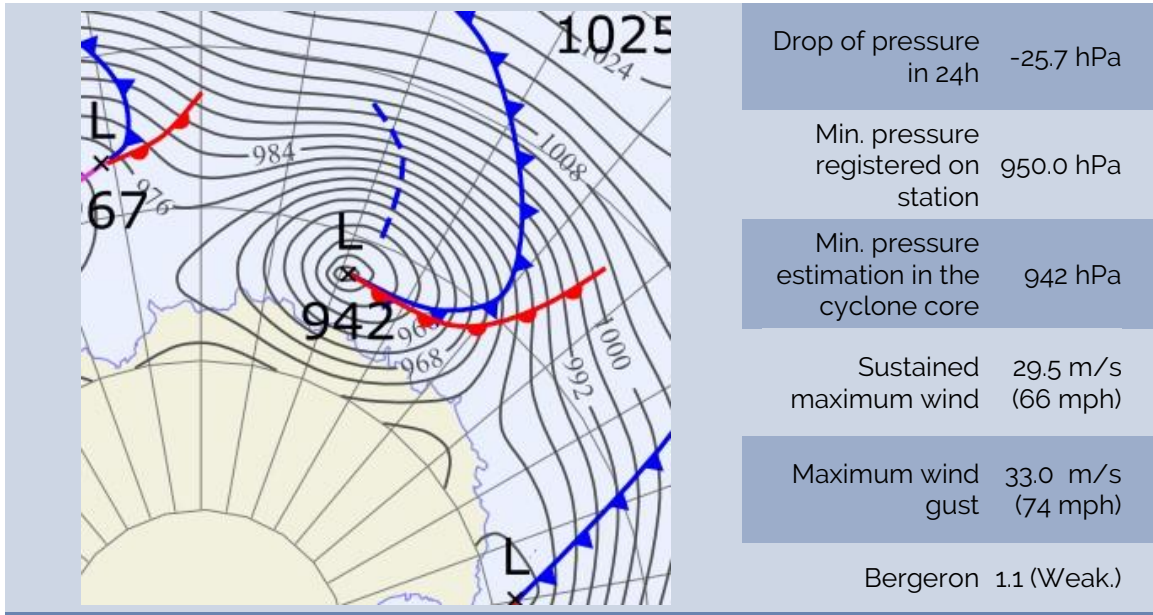


TOTAL EXPLOSIVE CYCLONES IN THE ANTARCTIC



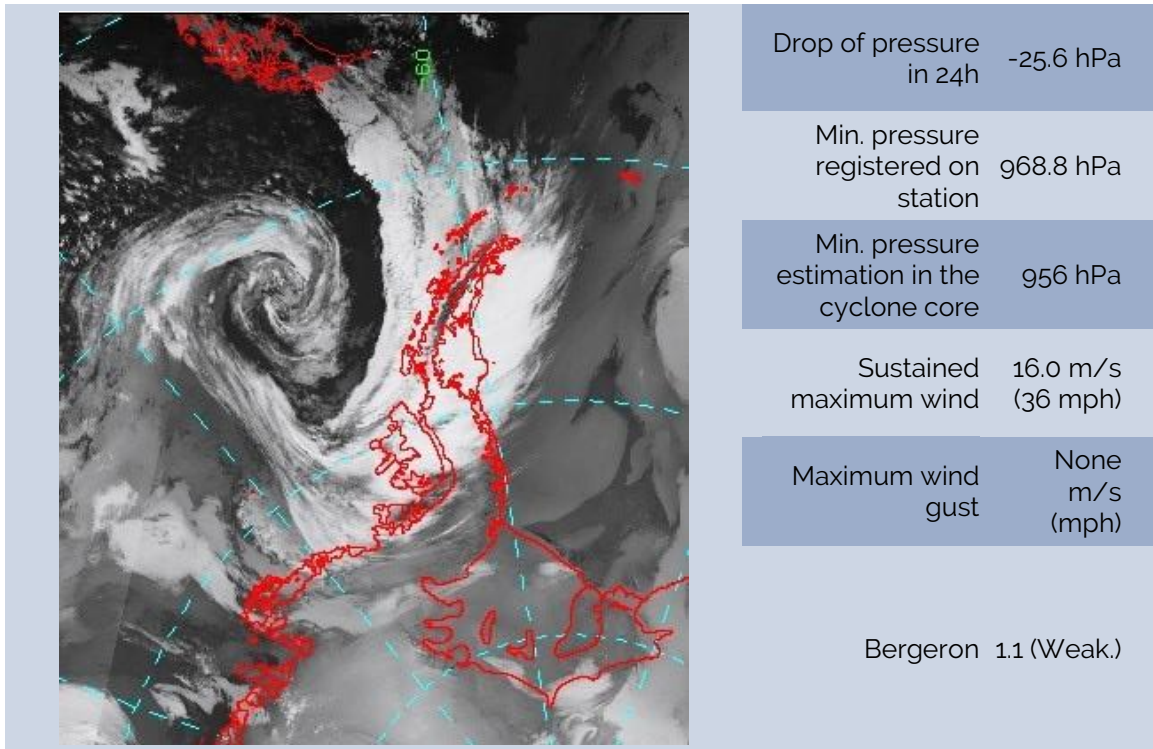
## BOMB CYCLONE N°01/2021- DATE: JAN/04/2021

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



## BOMB CYCLONE N°02/2021- DATE: JAN./20/2021

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



## SOURCES

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<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>