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Correction

Correction: Mariaccia et al. Impact of Polar Vortex Modes on Winter Weather Patterns in the Northern Hemisphere. *Atmosphere* 2024, 15, 1062

Alexis Mariaccia ^{*}, Philippe Keckhut and Alain Hauchecorne

Laboratoire Atmosphères Observations Spatiales (LATMOS), Centre National de la Recherche Scientifique (CNRS), Université de Versailles Saint-Quentin-en-Yvelines (UVSQ), Université Paris-Saclay, Sorbonne Université (SU), 11 Boulevard d'Alembert, 78280 Guyancourt, France; philippe.keckhut@latmos.ipsl.fr (P.K.); alain.hauchecorne@latmos.ipsl.fr (A.H.)

* Correspondence: alexis.mariaccia@latmos.ipsl.fr

Error in Figure

In the original publication [1], there was a mistake in Figure 3 as published. The error was the use of the unit “(hPa)” in the color bar label, which should have been “(Pa)”. The corrected Figure 3 appears below.

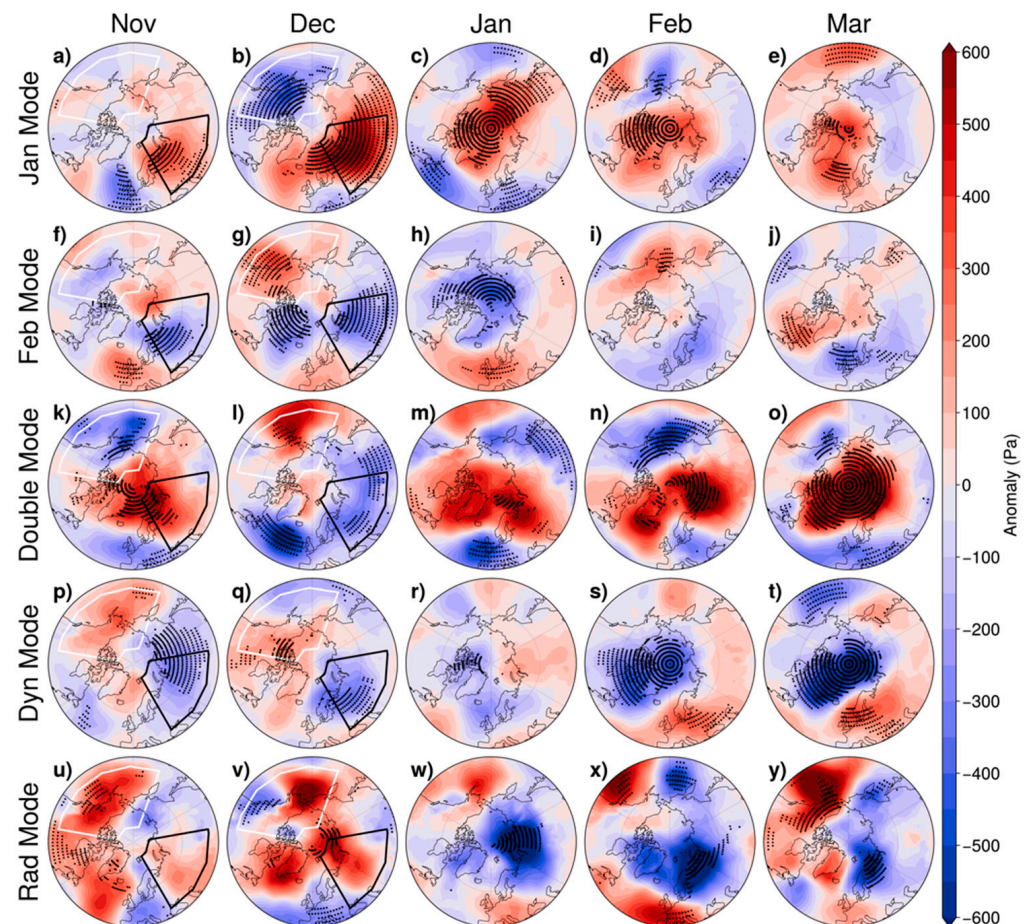


Figure 3. Monthly mean of MSLP anomaly from 40° N poleward in the northern hemisphere for the different modes from November to March: (a–e) January mode, (f–j) February mode, (k–o) Double mode, (p–t) Dynamical mode, and (u–y) Radiative mode. Blue and red shaded regions correspond to



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negative and positive MSLP anomalies, respectively. Stippled areas show statistical confidence at the 95% level according to a Wilcoxon signed-rank test. Black and white boxes indicate the Ural and the extended Aleutian regions, respectively.

In the original publication [1], there was a mistake in Table 1 as published. The mistake was that the indicated unit in the parenthesis after MSLP Anomaly was “(hPa)” instead of “(Pa)”. The corrected Table 1 appears below.

Table 1. Mean MSLP anomaly for the Ural and Aleutian regions for the different modes in November and December.

MSLP Anomaly (Pa)		Jan Mode	Feb Mode	Double Mode	Dynamical Mode	Radiative Mode
Ural blocking region	November	159	−87	311	−166	76
	December	395	−180	−186	−184	233
Aleutian blocking region	November	10	−24	−89	100	167
	December	−191	119	101	77	135

Text Correction

There were some errors in the original publication [1]:

1. The mistake is the unit “hPa” after the values ONLY in the Abstract, Section 3.2.1 and Conclusions, which should be replaced by “Pa”.
2. The mistake is a sentence written for the previous results showing only the upward component of EP flux that should have been modified with the new results showing both components of EP flux.

A correction has been made to the Results, MSLP Anomalies and Regional Blocking, Lead-Lag Correlations between Stratospheric Modes and Regional Blocking section, last paragraph:

Since both perturbed and unperturbed modes demonstrate MSLP anomalies exhibiting wave-like patterns with typical blocking events that are known to impact the planetary wave activity, in the next section, we examine the propagation of planetary wavenumbers 1 and 2 through the EP flux to better understand the dynamical forcing within each mode.

3. A typo was forgotten, resulting in the use of “decompositionofn” instead of “decomposition of”.

A correction has been made to the Results, Eliassen-Palm Flux Analysis of Planetary Wave Dynamics, 1st sentence:

Figures 5 and 6 show the decomposition of wavenumbers 1 and 2 of the EP flux and of its divergence in December and January, respectively, for the five modes.

The authors state that the scientific conclusions are unaffected. This correction was approved by the Academic Editor. The original publication has also been updated.

Reference

1. Mariaccia, A.; Keckhut, P.; Hauchecorne, A. Impact of Polar Vortex Modes on Winter Weather Patterns in the Northern Hemisphere. *Atmosphere* **2024**, *15*, 1062. [[CrossRef](#)]

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