

Erratum: Numerical investigation of atmospherelike flows in a spherical geometry **[Phys. Rev. E 104, 065110 (2021)]**

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The authors would like to correct two errors in the article. Two stability curves with $m_c = 7a$ and $8a$ that were overlooked must be added to Fig. 17. The correct Fig. 17 is provided below.

The text on the page 065110-15 should be modified as follows.

The critical Rayleigh number decreases from $Ra_{Ec} = 218\,200$ at $Ta = 14$ to $Ra_{Ec} = 33\,168$ at $Ta = 2300$, i.e., increasing the Taylor number destabilizes the basic flow as in all cases considered. The basic flow becomes unstable to antisymmetric perturbations with $m_c = 7a$ and $8a$ in a very small interval $1200 \leq Ta \leq 2300$. The critical azimuthal wave numbers increase dramatically as the Taylor number varies between $Ta = 2300$ and $54\,000$. These two Taylor-number intervals are of interest for our study.

In Fig. 18, second row, second picture, instead of $Ta = 10^2$ it should be $Ta = 10^3$. This is only a typo.

These corrections do not affect the discussion and conclusions of the paper.

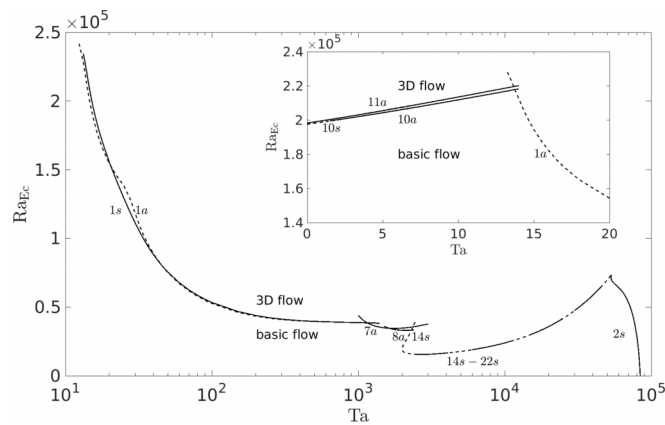


FIG. 17. Critical Rayleigh numbers vs Taylor number for $\eta = 0.8$ and BC II. The numbers in the vicinity of the stability curves are the critical azimuthal wave numbers m_c .