The line numbers below are those of the version I have had access to, once printed. For some reason, the numbers seem to be shifted by one or two units from the ones on the version I visualize on my screen.

1. Eq. (1). An integral sign (from 0 to H I presume) is missing for the integral with respect to z on the left-hand side of the equation. And it might be useful to specify at this stage that y is the latitudinal coordinate and z the vertical coordinate.

2. There seems to be an inconsistency as concerns the values of the thermal Rossby number Ro_T. The text (starting l. 388) says that the eddy meridional heat transport peaks at $\mathrm{Ro}_T \sim 0.07$, while Fig. 11(a) shows a peak at $\mathrm{Ro}_T \sim 0.3$ (see also Table 1, and ll. 724-730 and 748-751).

3. Fig. 3(c). There are two curves on the figure. What is the difference between them ?

4. Ll. 444-445, … *leads to a value of* $\mathcal{T}_R$ *which is much larger than O(1) but not hugely so,* …. Well, the value given in Table 2 is 1.3×10^5.

5. Ll. 710-711, … *to infer the existence of a unique reference frame on each planet* … A unique reference frame with which properties ?

6. Ll. 461-462, … *the observed near suppression of baroclinic instability in Martian summers* …. It would be better to give appropriate reference(s).

7. Fig. 6. What is the precise connection between the vertical coordinate (*Stability parameter*) and the thermal Rossby number ?

8. Fig. 8. Inset. It would be preferable to say explicitly that that *Pe* refers to heat transport by the axisymmetric flow, *Pxs* to transport by the eddies, and *m* to the number of longitudinal waves.

9. L. 100, … *for comparison,* ***in Section 4,*** *with the known properties* …

10. Eq. (15) Inconsistency of notation. θ or θ with overbar ?

11. Ll. 418-419, … *the values of* $\mathcal{B}u$, $\mathcal{R}\mathrm{o}_T$ ***and*** $\mathcal{T}_R$ […], *based on Eqs* ***(12-14)***

12. Ll. 780-781. Contrary to what the text implies, Table 2 does not mention values for Saturn.

13. Fig. 10, caption, and l. 382. What is PUMA-S with respect to PUMA, introduced earlier ?

14. It would be preferable to define the Burger number when it is first introduced (l. 241) rather than later on (Eq. 13).

15. L. 125. Say that u^* and v^* are perturbations with respect to zonal mean, and that the overbar denotes a longitudinal mean.

16. Table 1 does not seem to be referenced in the text. It could be on l. 363, after mention of the range of variation of Ω*.

17. L. 350, $\Delta\theta_E P \rightarrow \Delta\theta_{EP}$

18. Caption of Table 2. Expand *PDS* (*Planetary Data System*)

19. L. 64, … *quasi-geostrophic potential vorticity* ***(QGPV)***, …

20. L. 468, expand *LMD (Laboratoire de Météorologie Dynamique)*

21. L. 451, … *tilt with* ***altitude***.

22. L. 141, … *yet* ***it*** *is observed* …

23. L. 114, … *stability criterion (i)* (parentheses, a similar correction is to be made in other places, please check)