

General Comments:

The new version of the manuscript has improved and considers all of my comments to the previous version. Aims, procedures and results are now described much clearer. I only have a few minor (mainly technical) comments listed below.

Specific/technical Comments:

1. p. 2, l. 19–20:
“The authors also set the t altitudes limits ...”
should probably be e.g.:
“The authors also consider altitudes limits ...”
2. p.4, l. 18:
“To this application we used two different kind of data sets. The 2-D values ...”
should be (with “:” instead of “.”):
“To this application we used two different kind of data sets: The 2-D values ...”
3. p. 5, l. 10:
“refer to as” → “referred to as”
4. p. 8, l. 11 :
“grows” → “grow”
5. p. 8, l. 14:
“... this quantity have to be additive ...” → “... this quantity has to be additive ...”
6. p. 8, l. 18–19:
“We should consider that at any time the pressure value of each level is constant but it does not necessarily happen the same with the geopotential height.”
This sentence is a bit unclear, suggested modification:
“We should consider that at any time the pressure value of each level is constant but this is not necessarily the case for geopotential height.”
7. p. 10, l. 9:
“Several authors had been reported problems ...” → “Several authors reported problems ...”