The requested changes are as follows:

**Page 6, Equation (12) (TS4):**

Please replace

cosφcosδ[ω s −tan(ω s )]

with

(cosϕ cosδ sinωs + ωs sinφ sinδ)

Explanation: We are very sorry for the inconvenience. This is a version of the equation that we have at the time of submitting the first version of the manuscript. Later it was switched, unfortunately, somehow the old version has stayed in the manuscript.

So the appropriate version of the highlighted part should be:

(cosφ cosδ sinωs + ωs sinφ sinδ)

Also, please note that the correct latitude symbol is φ and not ϕ.

**P. 8, Eq. (25) (TS7):**

Change “21.753” to “21.875”.

Explanation: We are sorry we didn't notice this mistake earlier. This mistake was probably made while inputting the values, basically a typo.

**P. 8, Eq. (34) (TS8):**

Change “273.16” to “273.15”.

Explanation: This is also a typo.