Correction to: The Barcelona ionospheric mapping function (BIMF) and its application to northern mid-latitudes

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Published online: 20 July 2020
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Correction to: GPS Solutions (2018) 22:67
<https://doi.org/10.1007/s10291-018-0731-0>

In the original article, some typos regarding Eq. (3) and Table 9 are introduced.

Corrections to Eq. (3)

$$\begin{aligned} \text{STEC} &= N_1 l_1 + N'_2 l'_2 \\ &= H \cdot \frac{N_1 l_1}{H} + H \cdot \frac{N'_2 l'_2}{H} \\ &= P_1 \cdot M_1 + P'_2 \cdot M'_2 \\ &= M_1 \cdot \mu_1 V + M'_2 \cdot \mu'_2 V' \\ &= (1 - \mu_2) M_1 V + \mu'_2 M'_2 V' \end{aligned} \quad (3)$$

V and V' are VTECs for the whole ionosphere at IPP1 and IPP2, respectively; μ_2 and μ'_2 are the shape functions of the voxels for the second-layer corresponding to IPP1 and IPP2; M_1 and M'_2 are the standard mapping functions at IPP1 and IPP2, equal to l_1/H and l'_2/H respectively.

The wrong table references in Section “Assessment” are corrected as below:

“It is worth mentioning that the number of available days is less than 365, as shown in Tables 1, 8 and 9 in Appendix B, because the days in which the selected station was used in the GIMs computation are not considered for a fair assessment.”

“As shown in Table 9, the BIMF improved dSTEC using JPLG GIMs as well, with an improvement given by %dB in more than 70% of cases.”

The original article can be found online at <https://doi.org/10.1007/s10291-018-0731-0>.

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