

## Estimation of parameters in a split functional model of geodetic observations ( $M_{\text{split}}$ estimation)

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### Erratum to: J Geod

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1. In Eqs. (48) and (51) the plus sign on the left-hand side of the Hesjan should be replaced with the minus sign. The correct equations should read as follows:

$$\begin{aligned} \mathbf{X}_\alpha^j &= \mathbf{X}_\alpha^{j-1} + d\mathbf{X}_\alpha^j \\ &= \mathbf{X}_\alpha^{j-1} - [\mathbf{H}_\alpha(\mathbf{X}_\beta^{j-1})]^{-1} \mathbf{g}_\alpha(\mathbf{X}_\alpha^{j-1}, \mathbf{X}_\beta^{j-1}) \\ \mathbf{X}_\beta^j &= \mathbf{X}_\beta^{j-1} + d\mathbf{X}_\beta^j \\ &= \mathbf{X}_\beta^{j-1} - [\mathbf{H}_\beta(\mathbf{X}_\alpha^j)]^{-1} \mathbf{g}_\beta(\mathbf{X}_\alpha^j, \mathbf{X}_\beta^{j-1}) \end{aligned} \quad (48)$$

$$\begin{aligned} \mathbf{X}_\alpha^1 &= \hat{\mathbf{X}}_{LS} + d\mathbf{X}_\alpha^1 \\ &= \hat{\mathbf{X}}_{LS} - [\mathbf{H}_\alpha(\hat{\mathbf{X}}_{LS})]^{-1} \mathbf{g}_\alpha(\hat{\mathbf{X}}_{LS}) \\ \mathbf{X}_\beta^1 &= \hat{\mathbf{X}}_{LS} + d\mathbf{X}_\beta^1 \\ &= \hat{\mathbf{X}}_{LS} - [\mathbf{H}_\beta(\mathbf{X}_\alpha^1)]^{-1} \mathbf{g}_\beta(\mathbf{X}_\alpha^1, \hat{\mathbf{X}}_{LS}) \end{aligned} \quad (51)$$

2. The fifth line above Eq. (57) should read as follows:  
“Still  $v_i = y_i - \theta$  and  $v_{i\alpha} = y_i - \theta_\alpha$ ,  $v_{i\beta} = y_i - \theta_\beta$  are”
3. In the fourth line of Table 2 the following corrections should be introduced:
- in column 1 the value “0.30” should be replaced with “0.13”
  - in column 6 the value “0.01” should be replaced with “–0.01”
4. In Fig. 5, the value “ $\theta_\beta^1 = 0.24$ ” should be replaced with “ $\theta_\beta^1 = -0.24$ ”.

The online version of the original article can be found under  
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