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ERRATUM

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Erratum to: The spatial density gradient of galactic cosmic rays and its solar cycle variation observed with the Global Muon Detector Network

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Erratum to: Earth, Planets and Space 2014, 66:151
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Equation (4) in the original paper (Kozai et al. 2014) was incorrect and needs to be multiplied by a factor 2, as

$$\xi_z^{\mathrm{GEO}} = c \cdot \frac{R}{R^T + R^A}. \quad (4)$$

Figure 2e and the column "NMs" of Table 1 in the paper which were calculated from Eq. (4) in the paper also need to be corrected. The corrected Fig. 2 and Table 1 are shown below. According to these corrections, a few sentences in the paper need to be reworded as follows. It is noted that all conclusions are not subject to these corrections.

- Page 6, left column, Line 5
  "mainly due to the small $T - A$, i.e., the NS anisotropy is significantly smaller than that obtained from the GMDN and GG-component."
  should be reworded as:
  "due to the large $\sqrt{\sigma_T \sigma_A}$ and the small $T - A$, indicating that the NS anisotropy is smaller than that obtained from the GMDN and GG-component."
- Page 7, right column, Line 14
  "If these are the case, the magnitude of the NS anisotropy increases with rigidity and the T/A separation and success rate will also increase if the dispersion remains similarly independent of rigidity. This is in agreement with our results in Table 1, showing that $T - A$ increases with the rigidity while $\sqrt{\sigma_T \sigma_A}$ is almost constant on a daily basis."
  should be reworded as:
  "This is in an agreement with our results in Table 1, showing that $T - A$ increases with the rigidity."

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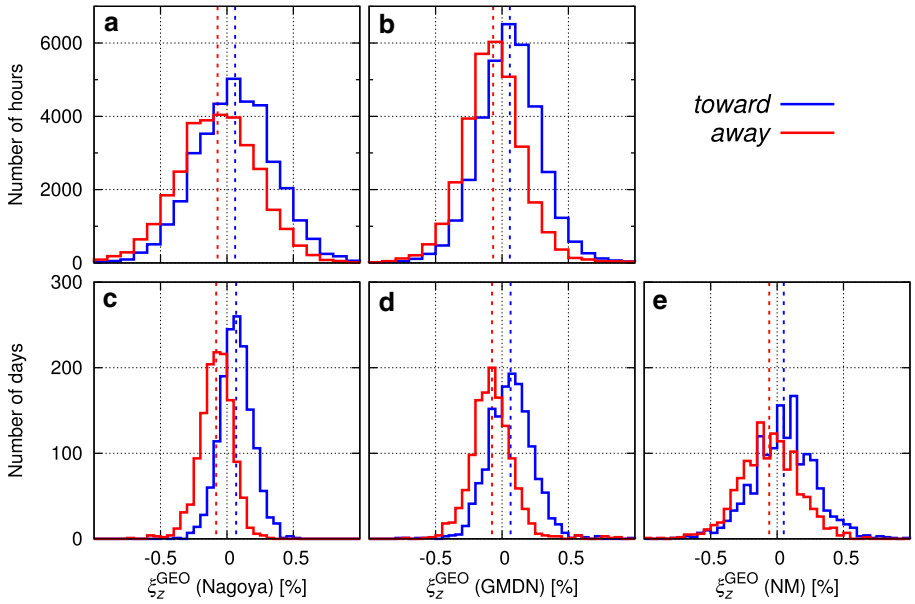

Fig. 2 Histograms of the NS anisotropy. *Each panel* displays the histograms of ξ_z^{GEO} on hourly (**a**, **b**) and daily (**c**, **d**, **e**) bases derived from the Nagoya GG-component (**a**, **c**), the GMDN (**b**, **d**), and NM (Thule–McMurdo) (**e**) data in 2006–2013. *Blue* and *red histograms* in *each panel* represent distributions of ξ_z^{GEO} in toward and away IMF sectors, respectively, while *blue* and *red vertical dashed lines* represent averages of the *blue* and *red histograms*, respectively

Table 1 $T - A$, $\sqrt{\sigma_T \sigma_A}$, T / A **separation, and success rate**

	Nagoya GG	GMDN	NMs
$T - A$ (%)			
Daily	0.1504	0.1398	0.1090
Hourly	0.1324	0.1258	–
$\sqrt{\sigma_T \sigma_A}$ (%)			
Daily	0.0033	0.0044	0.0062
Hourly	0.0016	0.0013	–
T / A separation			
Daily	46.2	31.5	17.8
Hourly	81.2	96.6	–
Success rate (%)			
Daily	73.5	68.7	59.6
Hourly	58.2	62.0	–

Difference ($T - A$) between average ξ_z^{GEO}s in *toward* (T) and *away* (A) IMF sectors, geometric mean ($\sqrt{\sigma_T \sigma_A}$) of the standard errors of ξ_z^{GEO}s in T and A sectors, "T / A separation" (= $(T - A)/\sqrt{\sigma_T \sigma_A}$) and "success rate" (see text) derived from Nagoya GG-component, GMDN, and NM (Thule–McMurdo) data in 2006–2013 on daily and hourly bases

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