

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

Masayoshi Kozai^{1*}, Kazuoki Munakata¹, Chihiro Kato¹, Takao Kuwabara², John W. Bieber², Paul Evenson², Marlos Rockenbach³, Alisson Dal Lago⁴, Nelson J. Schuch³, Munetoshi Tokumaru⁵, Marcus L. Duldig⁶, John E. Humble⁶, Ismail Sabbah⁷, Hala K. Al Jassar⁸, Madan M. Sharma⁸ and Jozsef Kóta⁹

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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

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

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.”

*Correspondence: 13st303f@shinshu-u.ac.jp

¹ Physics Department, Shinshu University, Matsumoto, Nagano 390-8621, Japan

Full list of author information is available at the end of the article

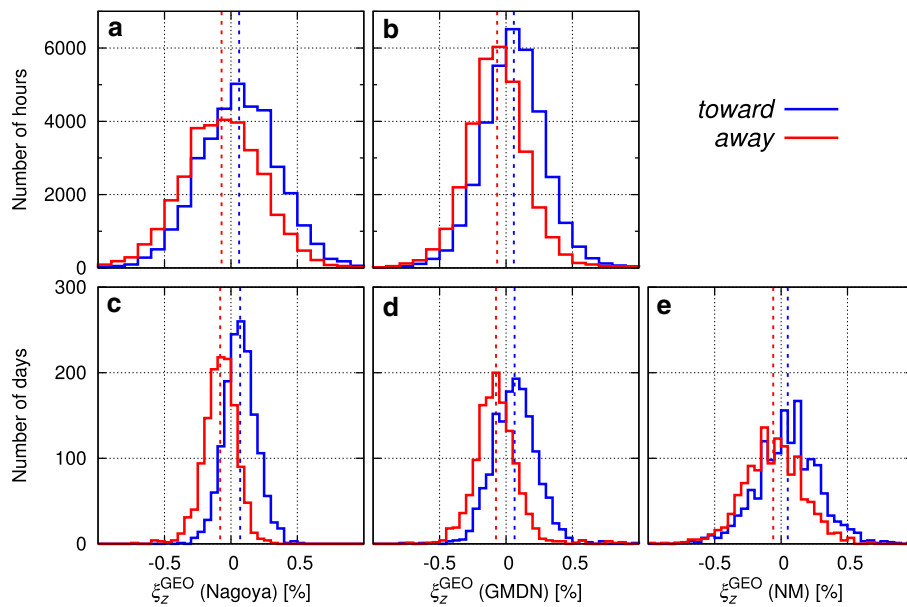


Fig. 2 Histograms of the NS anisotropy. Each panel displays the histograms of ξ_z^{GEO} on hourly (a, b) and daily (c, d, e) bases derived from the Nagoya GG-component (a, c), the GMDN (b, d), and NM (Thule–McMurdo) (e) data in 2006–2013. Blue and red histograms in each panel represent distributions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

Author details

¹ Physics Department, Shinshu University, Matsumoto, Nagano 390-8621, Japan. ² Bartol Research Institute, Department of Physics and Astronomy, University of Delaware, Newark, DE 19716, USA. ³ Southern Regional Space

Research Center (CRS/INPE), P.O. Box 5021, 97110-970 Santa Maria, RS, Brazil. ⁴ National Institute for Space Research (INPE), 12227-010 São José dos Campos, SP, Brazil. ⁵ Solar Terrestrial Environment Laboratory, Nagoya University, Nagoya, Aichi 464-8601, Japan. ⁶ School of Physical Sciences, University of Tasmania, Hobart, Tasmania 7001, Australia. ⁷ Department of Natural Sciences, College of Health Sciences, Public Authority for Applied Education and Training, Kuwait City 72853, Kuwait. ⁸ Physics Department, Kuwait University, Kuwait City 13060, Kuwait. ⁹ Lunar and Planetary Laboratory, University of Arizona, Tucson, AZ 85721, USA.

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