

Data Description

Data Number (will be filled by the Commons Center)	DPPSGdbp_2025-09en
Title	Monitoring of Ground-Level Cosmic Ray Muon Count Rates
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Summary (Subject and/or Methodology for generation)	Two plastic scintillators (size: L850 mm × W150 mm × T6 mm) are stacked, and the number of charged particles passing through both simultaneously is counted and recorded every second.
Update History (Versions, File names, Dates)	<p>data.T250410.zip 2025-04-10 12:11:25 ~ 2025-04-18 15:51:53</p> <p>data.T250421.zip 2025-04-21 11:30:38 ~ 2025-07-01 16:36:53</p> <p>data.T250701.zip 2025-07-01 17:14:59 ~ 2025-07-27 11:00:54</p> <p>data.T250728.zip 2025-07-28 12:32:04 ~ 2025-10-24 18:27:20</p> <p>data.T251027.zip 2025-10-27 14:20:17 ~ 2025-11-02 09:15:36</p> <p>data.T251117.zip 2025-11-17 16:42:35 ~ 2026-02-24 10:55:27</p> <p>data.T260224.zip 2026-02-24 12:27:04 ~ 2026-04-19 10:26:46</p> <p>https://hep-www.px.tsukuba.ac.jp/~exp3/MuonRateMonitor/dataRepo.html</p>
Data formats	<p>The ZIP archive contains a text file in which each line records two space-separated values:</p> <ul style="list-style-type: none"> • Timestamp (Unix time, in milliseconds) • Muon count rate (number of coincident charged particles per second)
Data sizes	<p>data.T250410.zip (3MB: uncompressed: 12MB)</p> <p>data.T250421.zip (27MB: uncompressed: 100MB)</p> <p>data.T250701.zip (9.5MB: uncompressed: 36MB)</p> <p>data.T250728.zip (33MB: uncompressed: 124MB)</p> <p>data.T251027.zip (2MB: uncompressed: 8MB)</p> <p>data.T251117.zip (37MB: uncompressed: 138MB)</p> <p>data.T260224.zip (20MB: uncompressed: 76MB)</p>
Things to be aware of when using the data (e.g., required metadata)	The detection efficiency depends on the high-voltage settings of the photomultiplier tubes (PMTs) used. While the PMT voltages remain constant within a single data file, they may vary between files, resulting in differences in the absolute count rates.
Related reports and/or papers	<p>Cosmic Ray Muon Rate Monitor — Web Portal (in Japanese)</p> <p>https://hep-www.px.tsukuba.ac.jp/~exp3/MuonRateMonitor/index.html</p>
Other remarks	