

GeomagneticCutoff

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Stormer equation:

$$R_S = 14.7GV \cos^4 \lambda \quad (1)$$

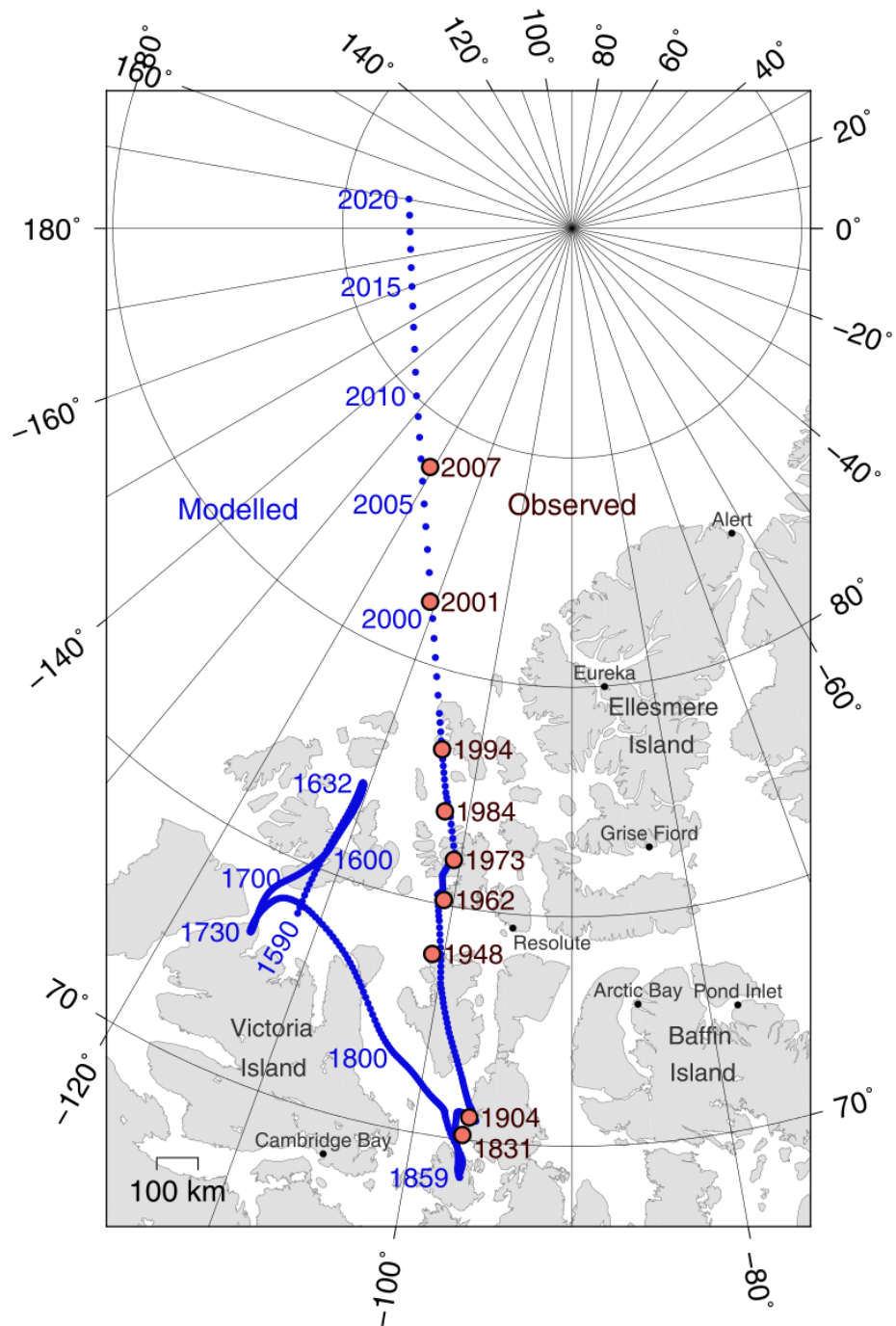


Figure 1:

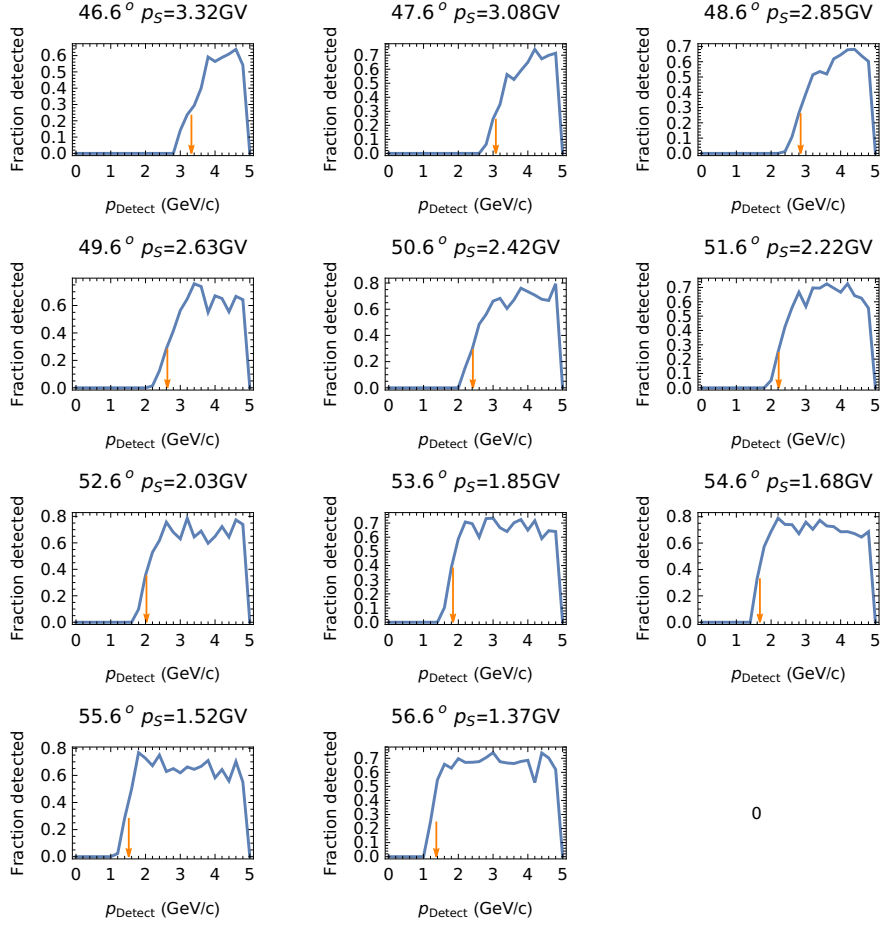


Figure 2: Fraction of incident particles detected as a function of rigidity for magnetic latitudes in the range 46.6° to 56.6° . p_S refers to the cutoff value from Eq. 1, also indicated by the orange arrow in the plot.

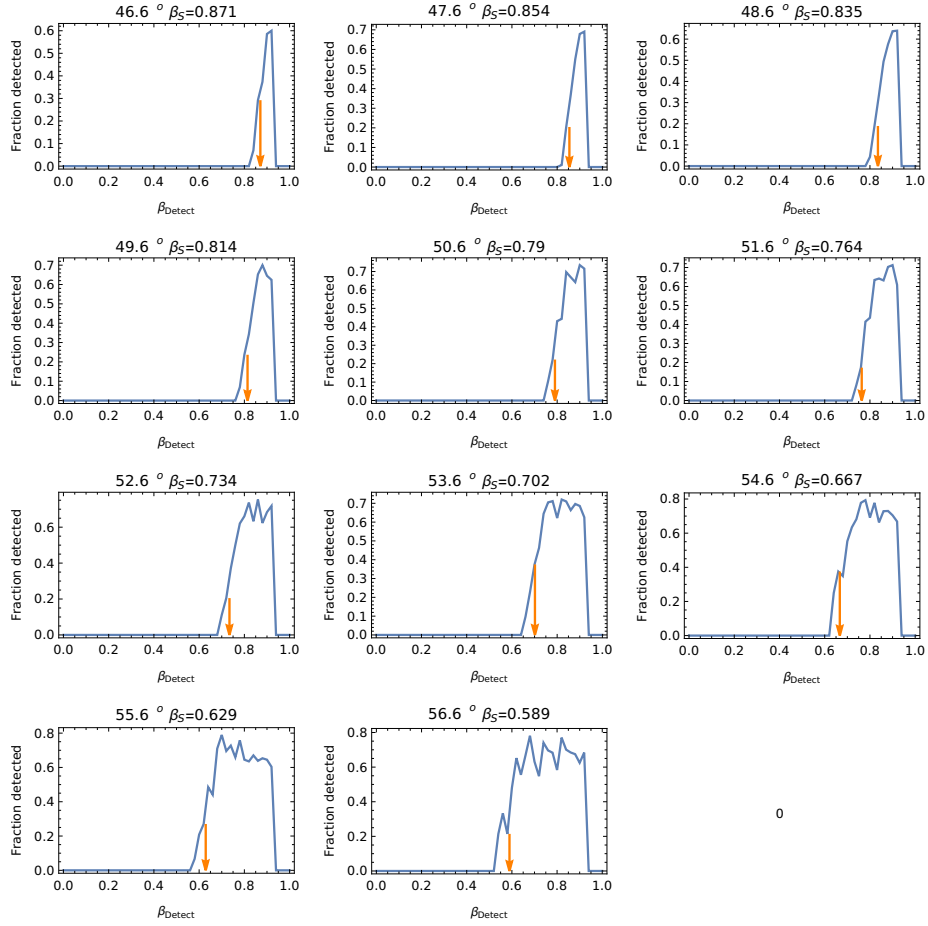


Figure 3: Fraction of incident $|Z| = 1$, $m \sim 2m_N$ particles detected as a function of β for magnetic latitudes in the range 46.6° to 56.6° . β_S refers to the cutoff value from Eq. 1, also indicated by the orange arrow in the plot.