

Supplementary Report on Intercomparison Observation at Kakioka and Memambetsu by means of QHM magnetometers during 1952-1953.

By

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In 1952, we had an opportunity to carry out an intercomparison observation by the courtesy of Mr. Laursen, Chairman of the 7th Committee of IATME and Mr. Robert W. Knox, Acting Director of U.S. Coast and Geodetic Survey.

The observations were made by means of three QHM's No. 50, 51 and 52, in the period Dec. 1952-Mar. 1953. The details are described in the previous paper. [1] But, the observed results in the previous paper were not corrected for the changes of the logarithmic constant. The constants decreased linearly during the 18 months (April 1952-October 1953), elapsed between the first and last adjustments at Rude Skov.

The final results, corrected for the change of the constants are given below.

	Observed mean diff.	Corr.	Final result	
QHM 50 — Kakioka (Schmidt)	= -5.4γ	-3.3γ	= -8.7γ	
QHM 51 — Kakioka (Schmidt)	= -3.5	-5.3	= -8.8	
QHM 52 — Kakioka (Schmidt)	= -3.5	-5.3	= -8.8	
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Dec. 1952 ~Mar. 1953 : Rude Skov—Kakioka (Schmidt)	=	mean	-8.8γ	[2], [3]
QHM 50 — Memambetsu	= -11.4γ	-3.1γ	= -14.5γ	
QHM 51 — Memambetsu	= -17.8	-5.0	= -22.8	
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Feb. 1953 : Rude Skov—Memambetsu	=	mean	-18.6γ	[2], [3]

References

- [1] Memoirs of the Kakioka Magnetic Observatory 7, No. 2, p. 1-18.
- [2] Official letter No. 255 of Aug. 24, 1954 from the Committee on Magnetic Standards. IATME.
- [3] Transactions of the Rome Meeting September 14-15, 1954 p. 301-306.