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QUARTERLY RADIO NOISE DATA
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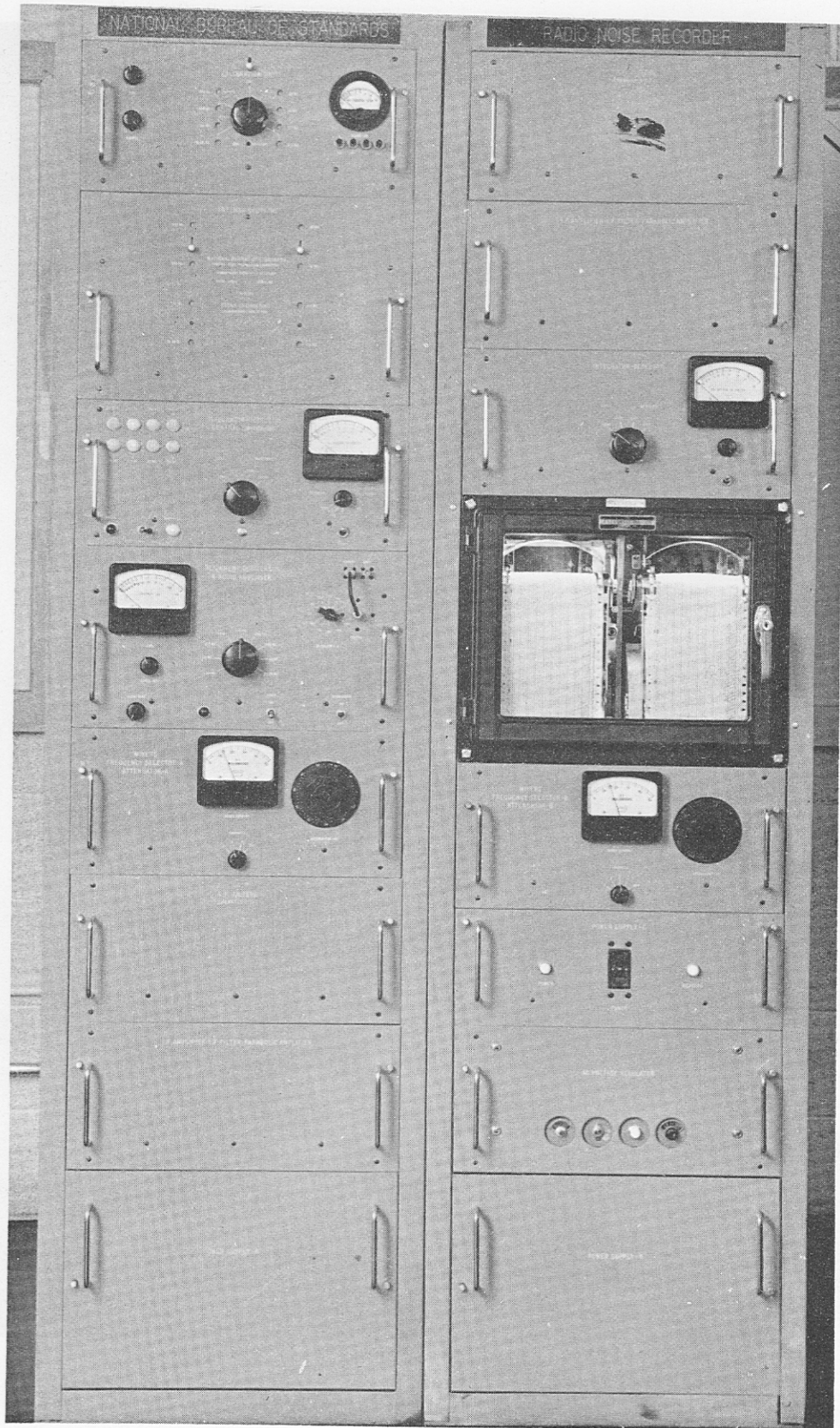
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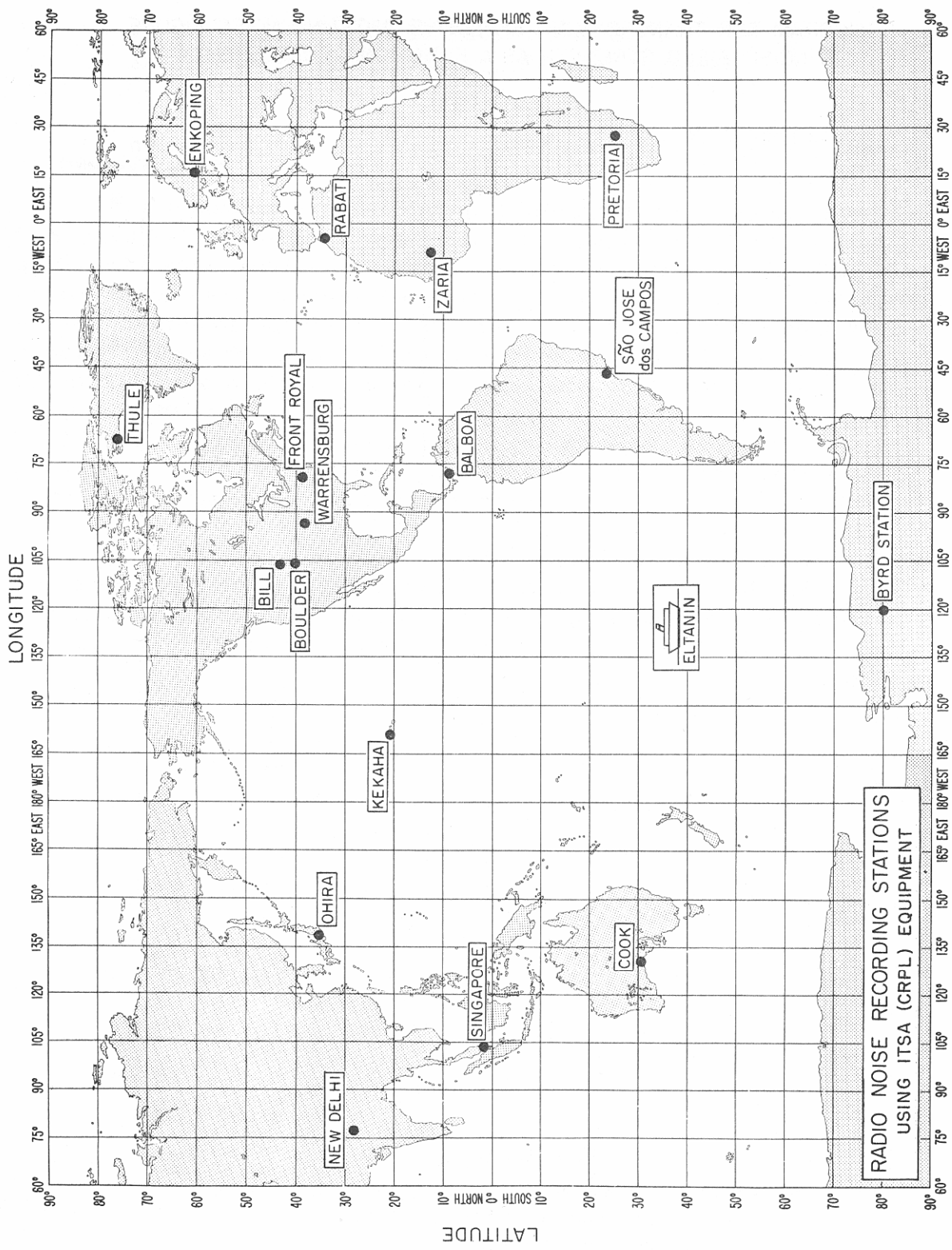


Radio Noise Recording Station

ARN-2 Atmospheric Radio Noise Recorder

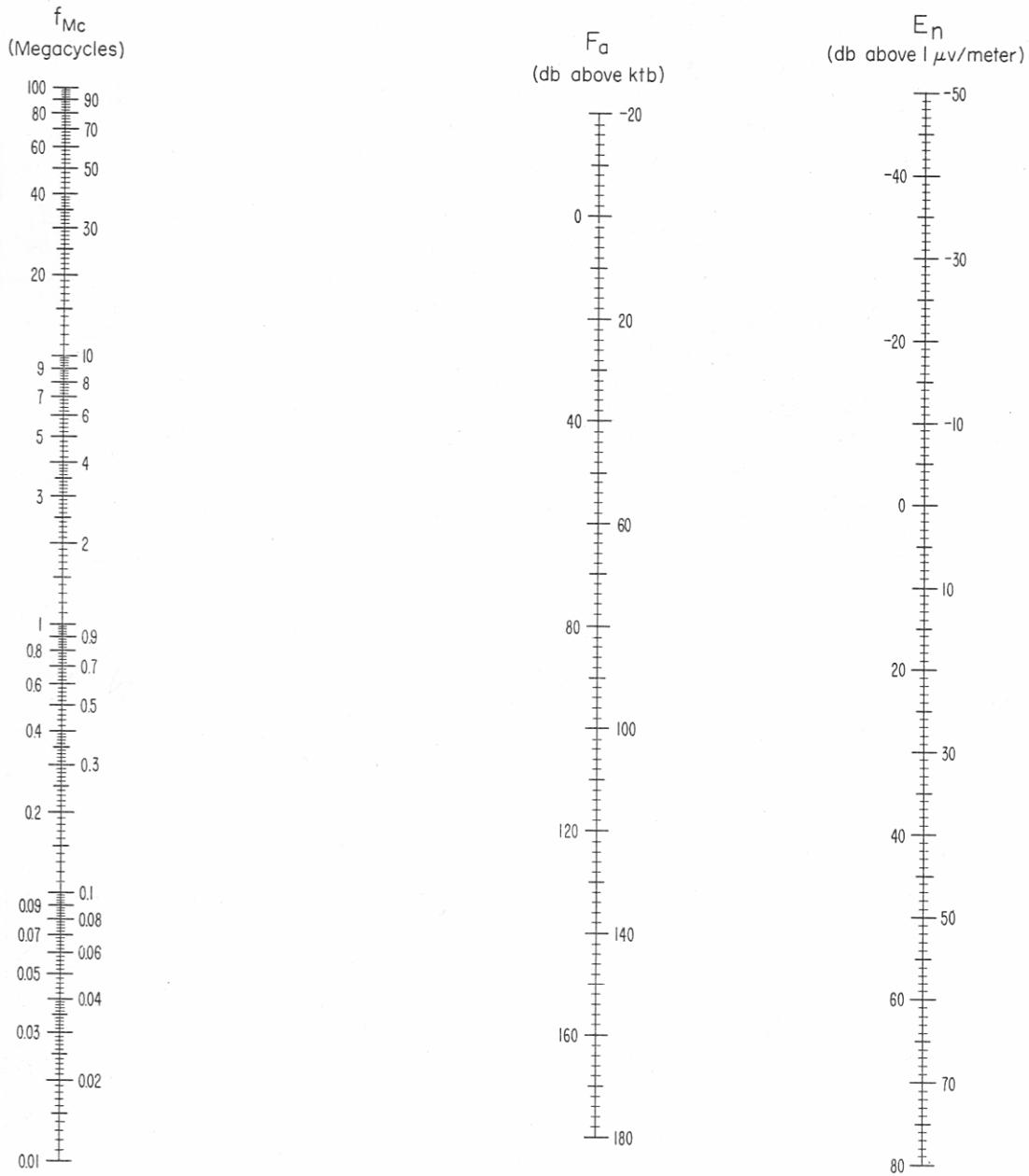


ARN-2 Atmospheric Radio Noise Recorder



RADIO NOISE RECORDING STATIONS
USING ITSA (CRPL) EQUIPMENT

NOMOGRAM FOR TRANSFORMING EFFECTIVE ANTENNA NOISE FIGURE
TO NOISE FIELD STRENGTH AS A FUNCTION OF FREQUENCY



$$E_n = F_a + 20 \log_{10} f_{Mc} - 65.5$$

F_a = Effective Antenna Noise Figure = External Noise Power Available from an Equivalent Short, Lossless, Vertical Antenna in db Above ktb.

E_n = Equivalent Vertically Polarized Ground Wave R.M.S. Noise Field Strength in db Above $1 \mu\text{v}/\text{meter}$ for a 1 kc Bandwidth.

f_{Mc} = Frequency in Megacycles.