COVERING NOTE

GENERAL SECRETARIAT INTERNATIONAL TELECOMMUNICATION UNION

Subject : Documents of the
XIIIth Plenary Assembly
of the C.C.I.R., Geneva, 1974

GENÈVE, 20 February 1976
PLACE DES NATIONS

Supplement No. 1 to Report 322 is attached hereto.

October, 1975

SUPPLEMENT No. 1

to

REPORT 322

XIIIth PLENARY ASSEMBLY OF THE C.C.I.R.

Geneva, 1974

REPORT 322-1*

WORLD DISTRIBUTION AND CHARACTERISTICS OF ATMOSPHERIC RADIO NOISE

(Study Programme 7B/6)

(1963 – 1974)

Two addenda to this Report, which has been published separately, are given below.

ADDENDUM 1: TIME REFERENCE

It should be noted that all time blocks in Report 322-1 are expressed in terms of local time.

ADDENDUM 2: AVAILABILITY OF NUMERICAL MAPS

A numerical map is a finite series of mathematical terms, each consisting of a product of a numerical coefficient and an analytic function of the geographical coordinates. To facilitate the use of the noise data in Report 322-1 in computer applications, numerical maps in the FORTRAN language have been developed [31, 32].

The computer programme given in the earlier reference above generates 24 numerical maps – one for each of the six 4-hour time blocks (in local time) and for each of the four 3-month periods – of the noise parameters contained in Report 322-1. The diurnal variation is obtained by linear interpolation between the values at the central hour of each time block. A limitation of the scheme is that it leads to discontinuities from season to season.

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* Adopted unanimously.

The latter computer programme provides an improved numerical representation with fewer (numerical) coefficients. Maps of parameters for each hour of each month are given in terms of universal time by means of Fourier analyses performed separately on the periodic functions representing the longitudinal and diurnal variations of the original data.

Note. — The Director, C.C.I.R. is requested to try to obtain and keep cards and the computer programme of the maps of Zacharisen and Jones, and to make these available for distribution.

ADDITIONS TO THE BIBLIOGRAPHY

31. LUCAS, D. L. and HARPER, J. D. [1965] A numerical representation of C.C.I.R. Report 322.: high frequency (3–30 Mc/s) atmospheric radio noise data. NBS Technical Note 318, U.S. Dept. of Commerce, Washington D.C.

32. ZACHARISEN, D. H. and JONES, W. B. [1970] World maps of atmospheric radio noise in universal time by numerical mapping. Telecommunications Research Report OT/ITS/TRR2, U.S. Dept. of Commerce, Washington D.C.