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W. Becker

Tables of Ordinary and Extraordinary Refractive Indices, Group Refractive Indices and $h'_{o,x}(f)$ -Curves for Standard Ionospheric Layer Models

Series: **Mitteilungen aus dem Max-Planck-Institut für Aeronomie**

The N(h)-Working Party, a Group in Commission III of URSI (URSI Information Bulletin No. 112, p. 12) suggested these calculations of ordinary and extraordinary refractive indices n , vertical group refractive indices c/U , and virtual o,x heights $h(f)$, for an Epstein, cosine and parabolic layer model. c is the free space velocity of light. U and U' denote vertical ordinary and extraordinary group velocities. The data are intended to facilitate real height (h) computations from observed, $h(f)$ -traces. Especially the $h(f)$ -data are intended also to allow o,x for tests of existing reduction methods. For ionization minimum investigations an additional set of tables is presented. These tables represent the virtual paths $h(f)$ of sounding pulses which penetrate an ionospheric layer of parabolic o,x shape; they can be used together with the abovementioned standard $h(f)$ -curves o,x to give ordinary and extraordinary $h(f)$ -traces for any combination of a lower O, X parabolic layer and an upper Epstein, cosine or parabolic electron density distribution. Ordinary group refractive index tables have already been published by D. H. SHINN [1] and by W. BECKER [2]. Their values of cp , the angle of inclination of the earth's magnetic field, are slightly different from those used here. These tables may be used as additional sets for interpolation purposes. D. H.

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