

A VERSATILE THREE-DIMENSIONAL RAY TRACING COMPUTER PROGRAM
FOR RADIO WAVES IN THE IONOSPHERE

by R. Michael Jones and Judith J. Stephenson

The 8th line from the bottom of page 9 should read:

(1) the dispersion relation cannot be exactly satisfied, or

The first line in the 3rd complete paragraph on page 12 should read:

Similarly, the AHWFNC (Appleton-Hartree, with field, no colli-

Line PRIN125 in SUBROUTINE PRINTR on page 80 should read:

RANGE=EARTH*ATAN2(RCE,EARTH+EPS+XMTRH)

PRIN125

Line BQNC020 in SUBROUTINE BQWFNC on page 100 should read:

REAL N2, NNP, LPOLAR, LPOLRI, KR, KTH, KPH, K2, KDOTY, K4, KDOTY2,

BQNC020

Line TABX064 in SUBROUTINE TABLEX on page 112 should read:

PXPR=PXPTH=PXPPH=0.

TABX064

Following line CHAP024 in SUBROUTINE CHAPX on page 116, insert the line:

PXPPH=0.

CHAP0245

Line VCHA010 in SUBROUTINE VCHAPX on page 117 should read:

X=PXPR=PXPTH=PXPPH=0.

VCHA010

Line DCHA014 in SUBROUTINE DCHAPT on page 119 should read:

X=PXPR=PXPTH=PXPPH=0.

DCHA014

Line LINE013 in SUBROUTINE LINEAR on page 120 should read:

X=PXPR=PXPTH=PXPPH=0.

LINE013

Line PARA012 in SUBROUTINE QPARAB on page 121 should read:

X=PXPR=PXPTH=PXPPH=0.

PARA012

Following line BULG038 in SUBROUTINE BULGE on page 123, insert the line:

PXPPH=0.

BULG0385

Following line EXPX014 in SUBROUTINE EXPX on page 124, insert the line:

PXPTH=PXPPH=0.

EXPX0145

The equation for the gyrofrequency near the top of page 143 should read:

$$F_H = F_{H_0} \left(\frac{R_0}{(R_0 + h)} \right)^3 (1 + 3 \cos^2 \theta)^{1/2}$$

where θ is the geomagnetic colatitude.

Line TABZ015 in SUBROUTINE TABLEZ on page 153 should read:

IF (READNU.EQ.0.) GO TO 10

TABZ015