

EMP effect calculator

Enter a value in blue boxes

The checkboxes allow the values to be preserved as typed, without triggering automatic reformatting!

There are 3 Parameter sets below. See suggested values - looks faded in color -

Parameter set 1:

X:		<div>[suggested: 0.0]</div> X IS MAGNETIC WEST (northern hemisphere)
Y:		<div>[suggested: 0.0]</div> Y IS MAGNETIC SOUTH (northern hemisphere)
Z:		<div>[suggested: 0.0]</div> Z IS ALTITUDE (northern hemisphere)
HOB:		<div>[suggested: 100.0]</div> HEIGHT OF BURST IN KILOMETERS > 50KM
GAMYLD:		<div>[suggested: 0.001]</div> GAMMA YIELD OF BURST IN KILOTONS
BFIELD:		<div>[suggested: 0.00002]</div> MAGNITUDE OF EARTHS MAGNETIC FIELD IN THE ABSORPTION REGION BELOW THE BURST IN WEBERS/SQUARE METER
BANGLE:		<div>[suggested: 20.]</div> DIP ANGLE OF THE MAGNETIC FIELD IN DEGREES
NDELRL:		<div>[suggested: 50]</div> NUMBER OF STEPS BETWEEN RMIN AND RMAX (50<=NDELRL<=500)
OUX:		<div>[suggested: 0]</div> OUTPUT CONTROL PARAMETER VALID VALUES: 0 ==> PRINT PEAK VALUE AND ARRAYS 1 ==> PRINT PEAK VALUE AND MAKE PLOT 2 ==> PRINT EVERYTHING AND MAKE PLOT 3 ==> PRINT EVERYTHING

Parameter set 2:

ITER:		<div>[suggested: 020]</div> TIME OF ITERATION IN SHAKES 10<=ITER<=100
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Parameter set 3 ("Pomranning constants"):

AP:		<div>[suggested: 1.7]</div> alpha?	was 2.22
BP:		<div>[suggested: 2.8]</div> beta?	was 0.25
RNP:		<div>[suggested: 1.6]</div>	was 5.62603

		rn? 1.6
TOP:		[suggested: 1.2] to?

was 2.24

Resources:
[Fortran Sourcecode](#) | [Project Information and Downloads](#)