The following charts were prepared by PhD Lodhi of Pakistan in response to GitHub data.

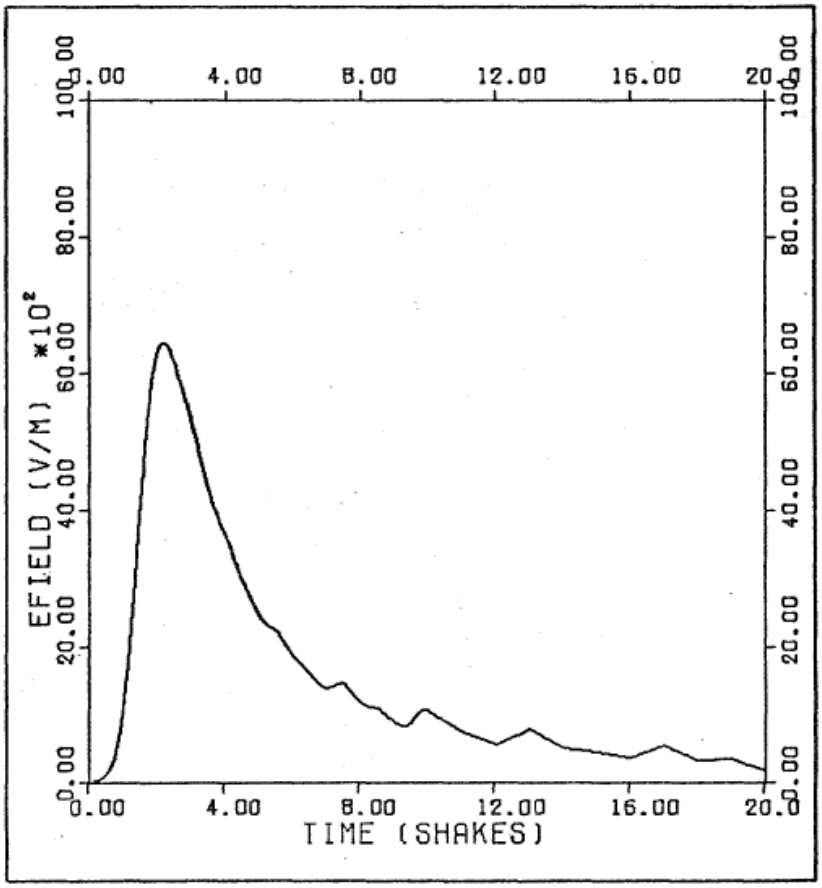
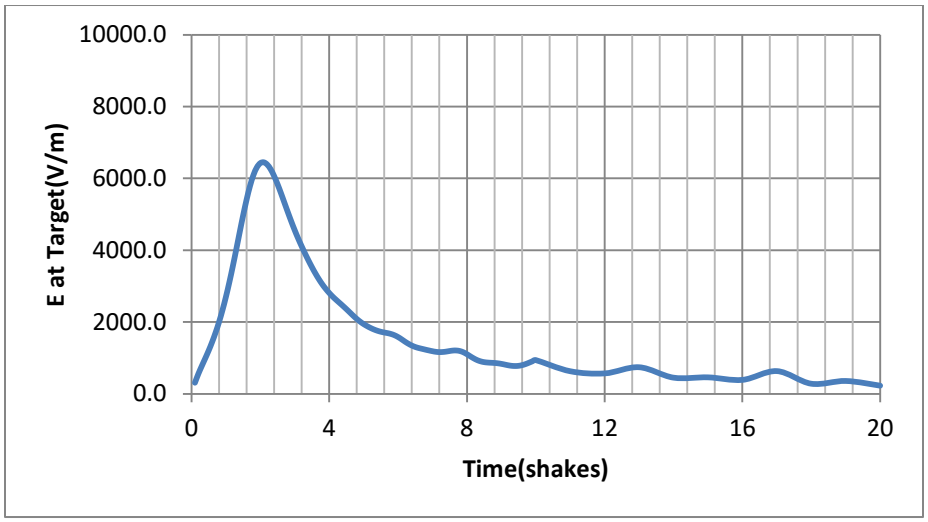


Fig. 5. Plot of E(τ) at target from a typical run

All items reflect his evaluation of the Terry Chapman Thesis but not the Seiler Thesis.



Note – Our emails have been discontinued by direction of our Chair.

Data should be reviewed at GitHub if it submitted for review. HN

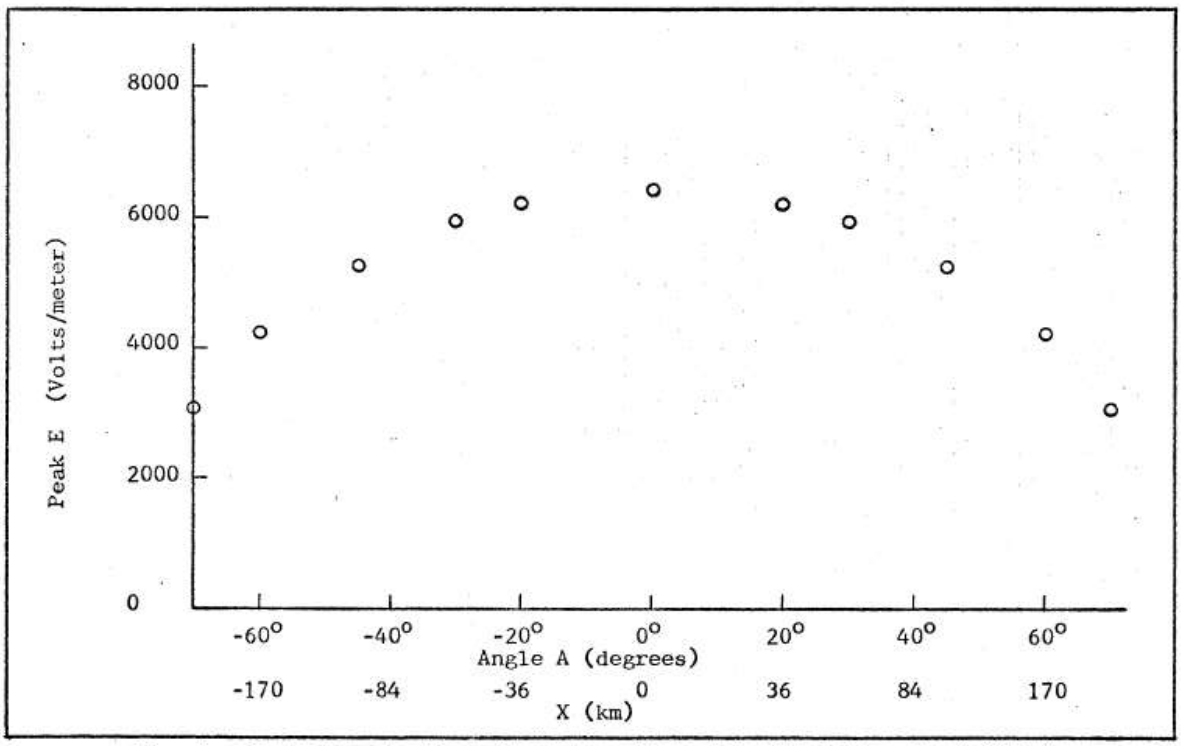
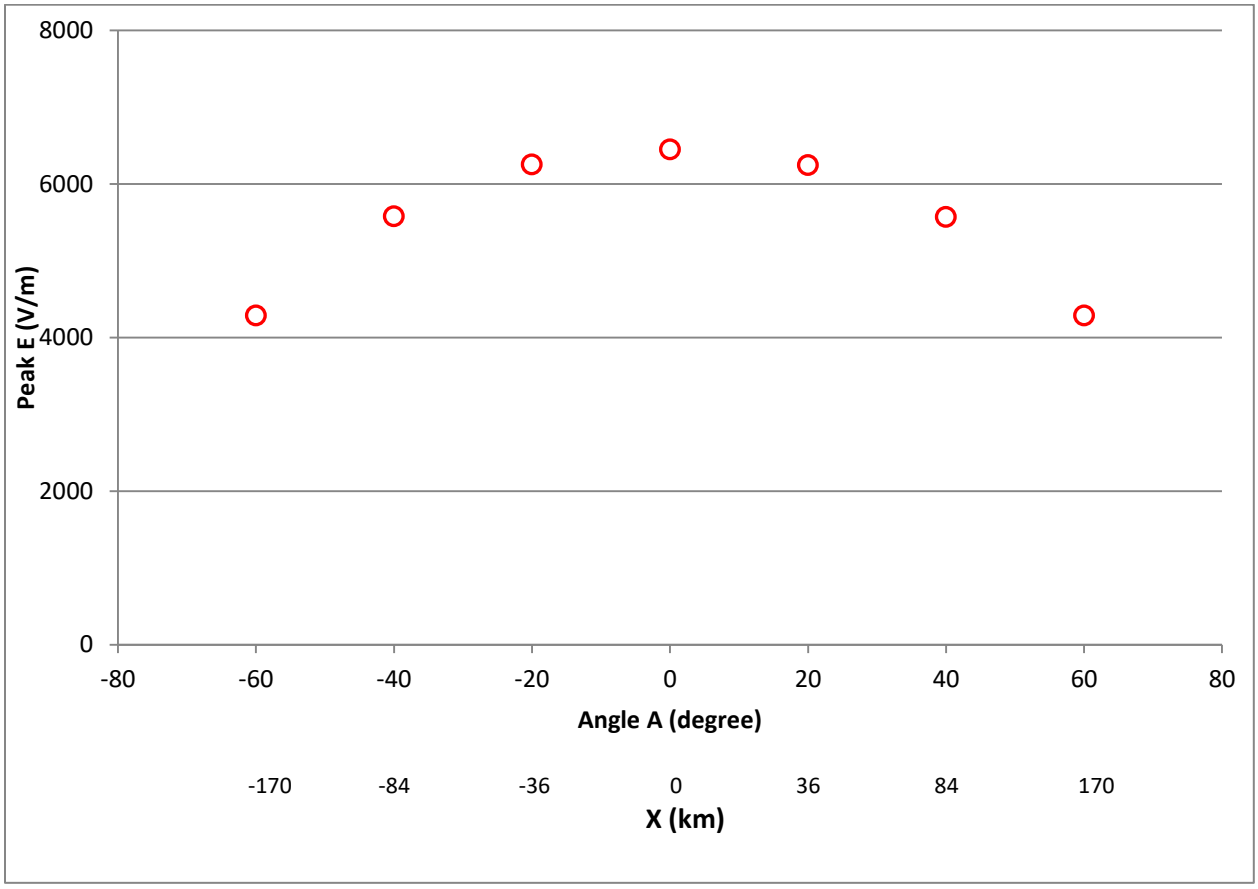


Fig. 6. Variation in the X Direction (Y=0, Z=0, HOB=100km, Y_Y=0.001kt)



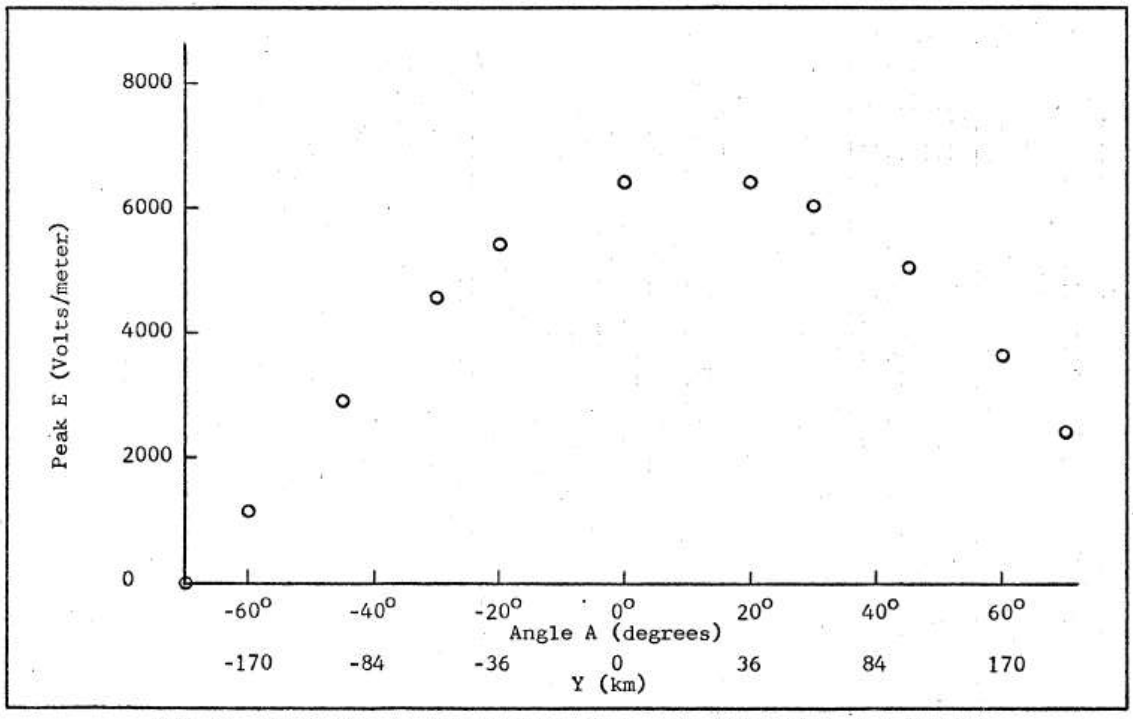
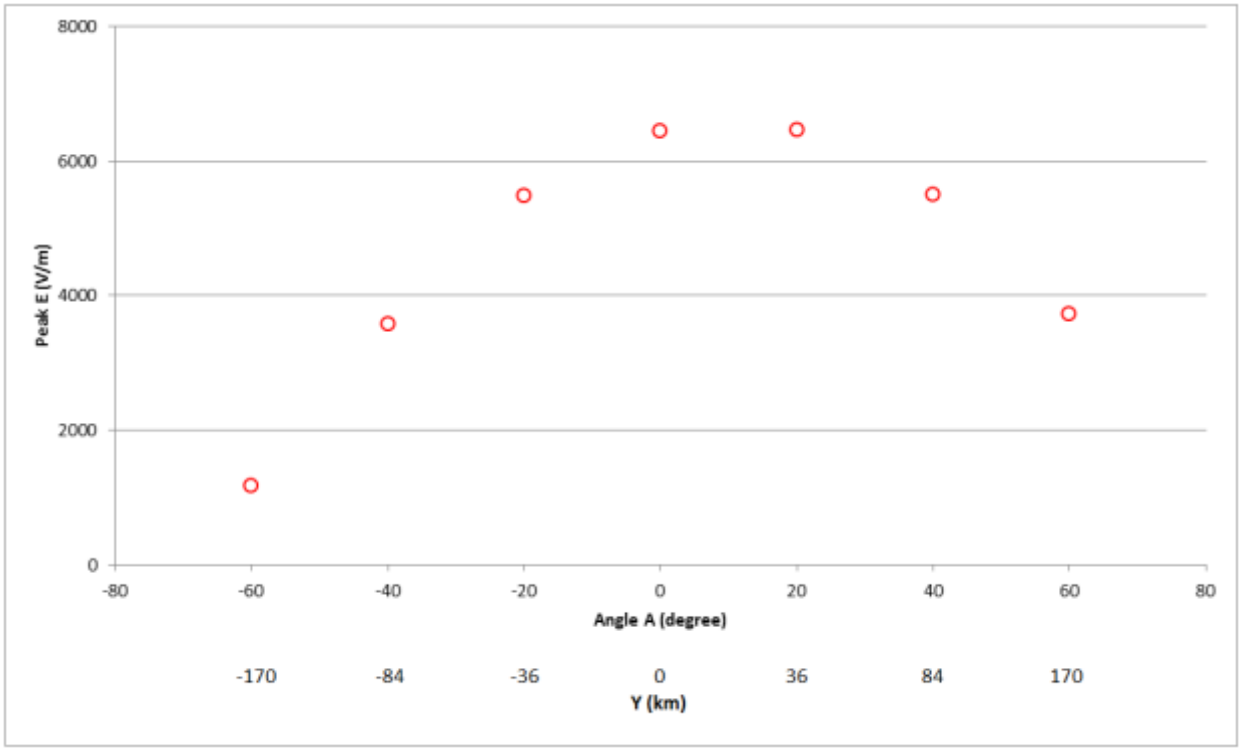


Fig. 7. Variation in Y direction (X=0, Z=0, HOB=100km, Y_Y=.001kt)



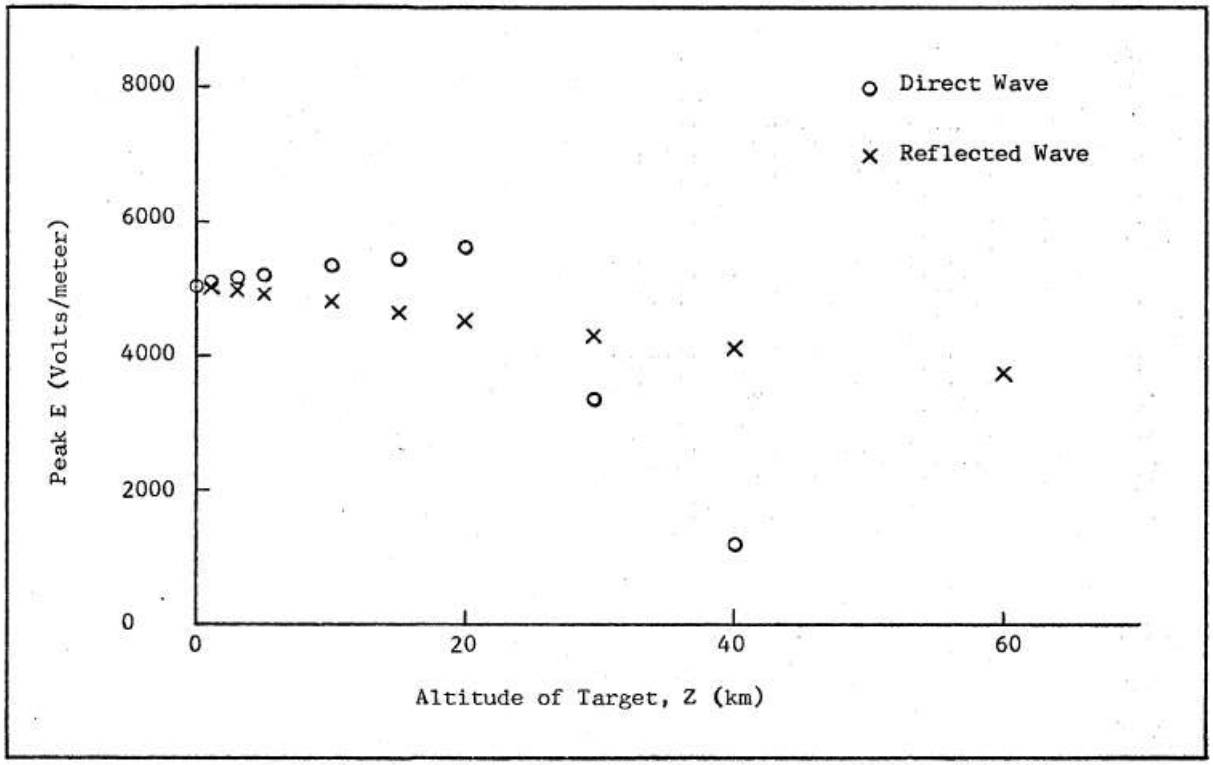
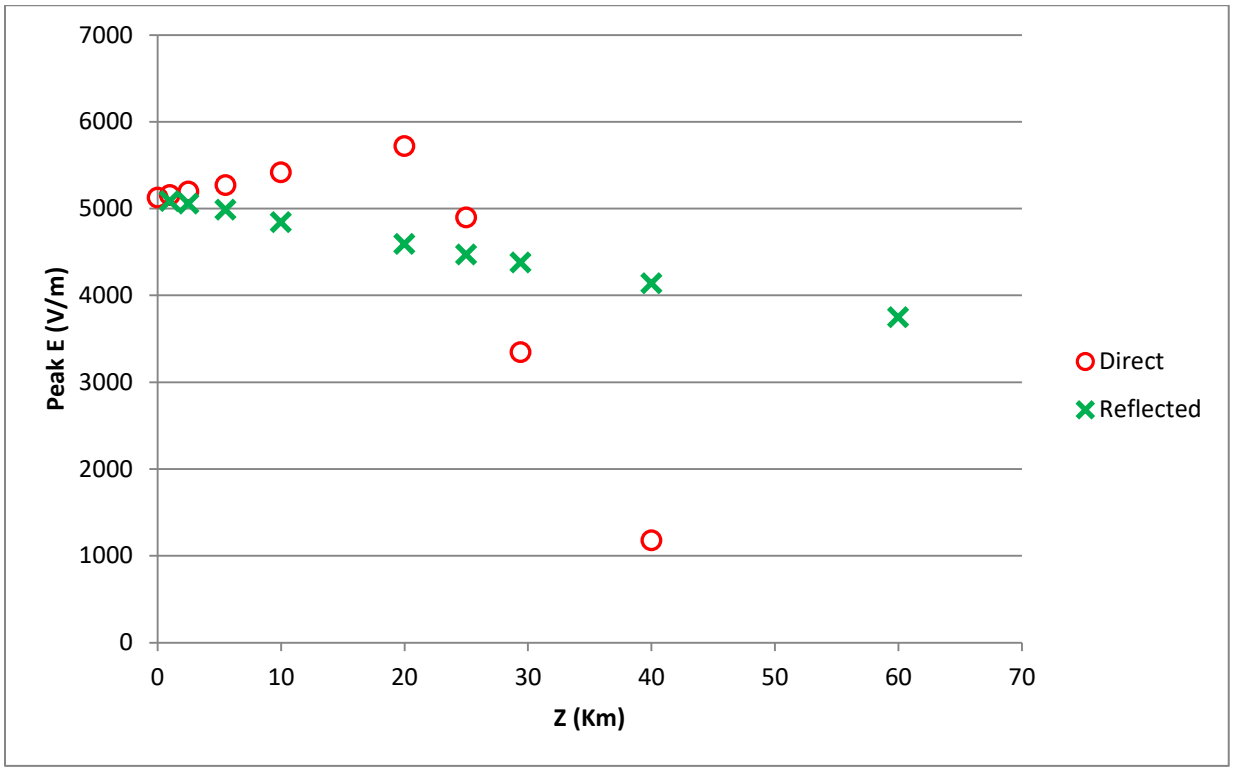


Fig. 8. Variation in Z Direction (X=0, Y=+100km, Y_Y=.001kt, HOB=100km)



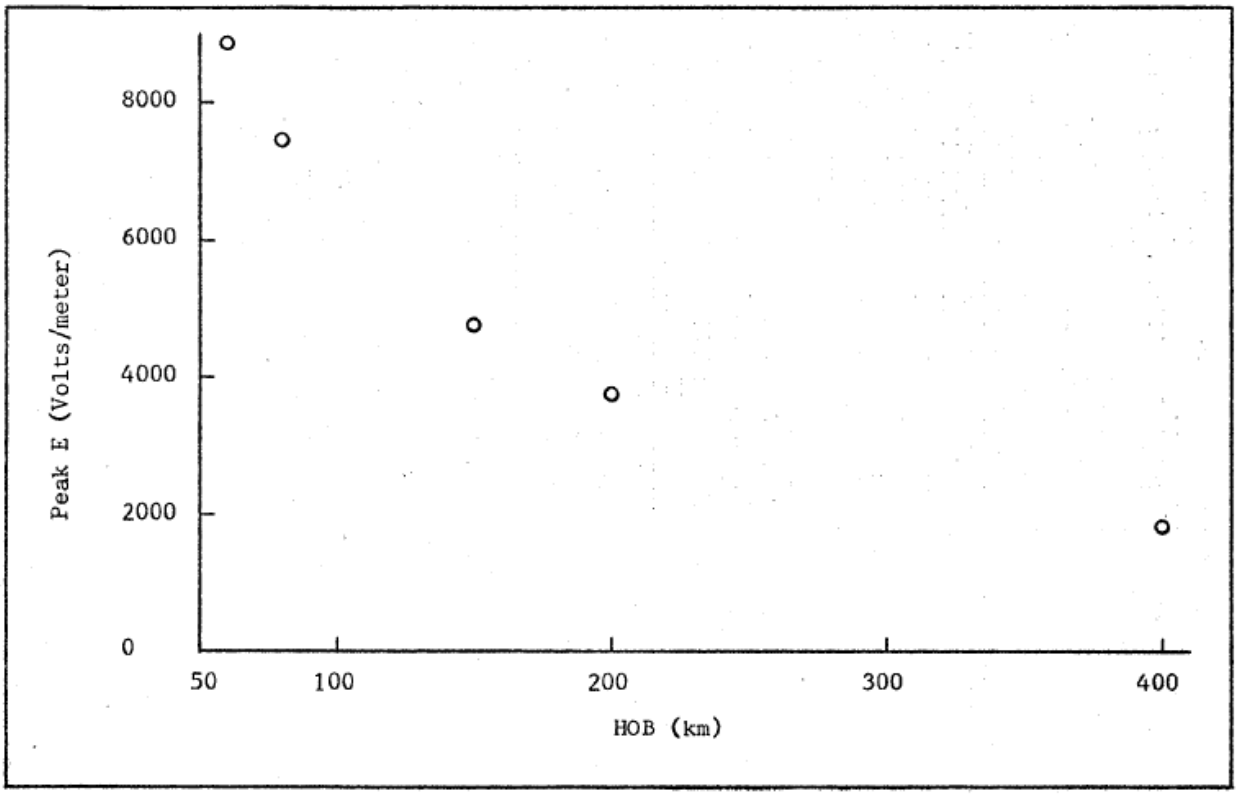
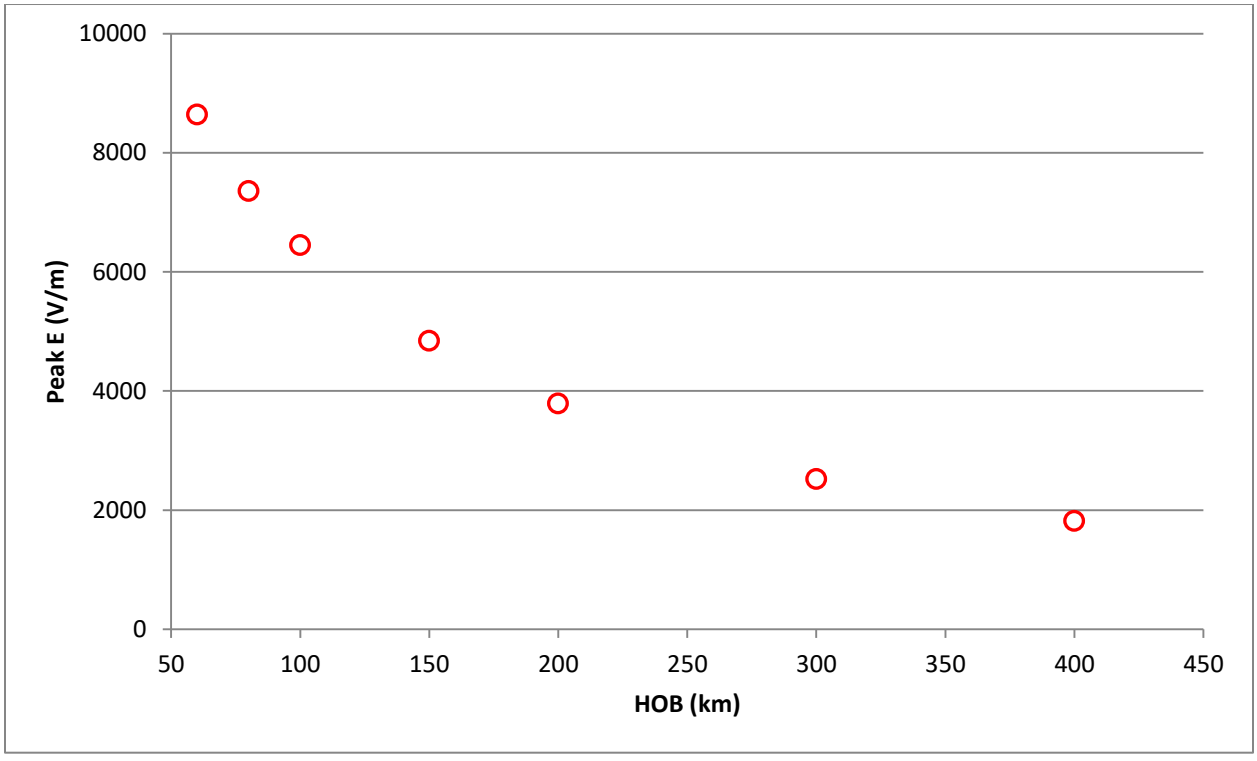


Fig. 9. Variation in Height of Burst (X=0, Y=0, Z=0, Y_γ=0.001kt)



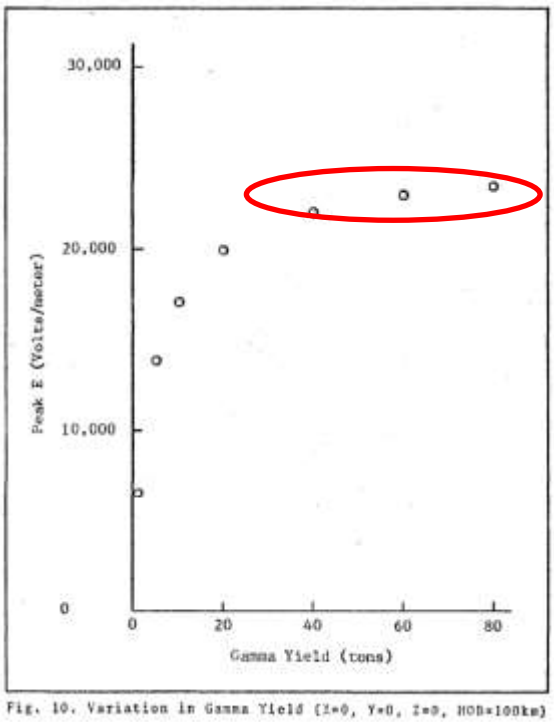
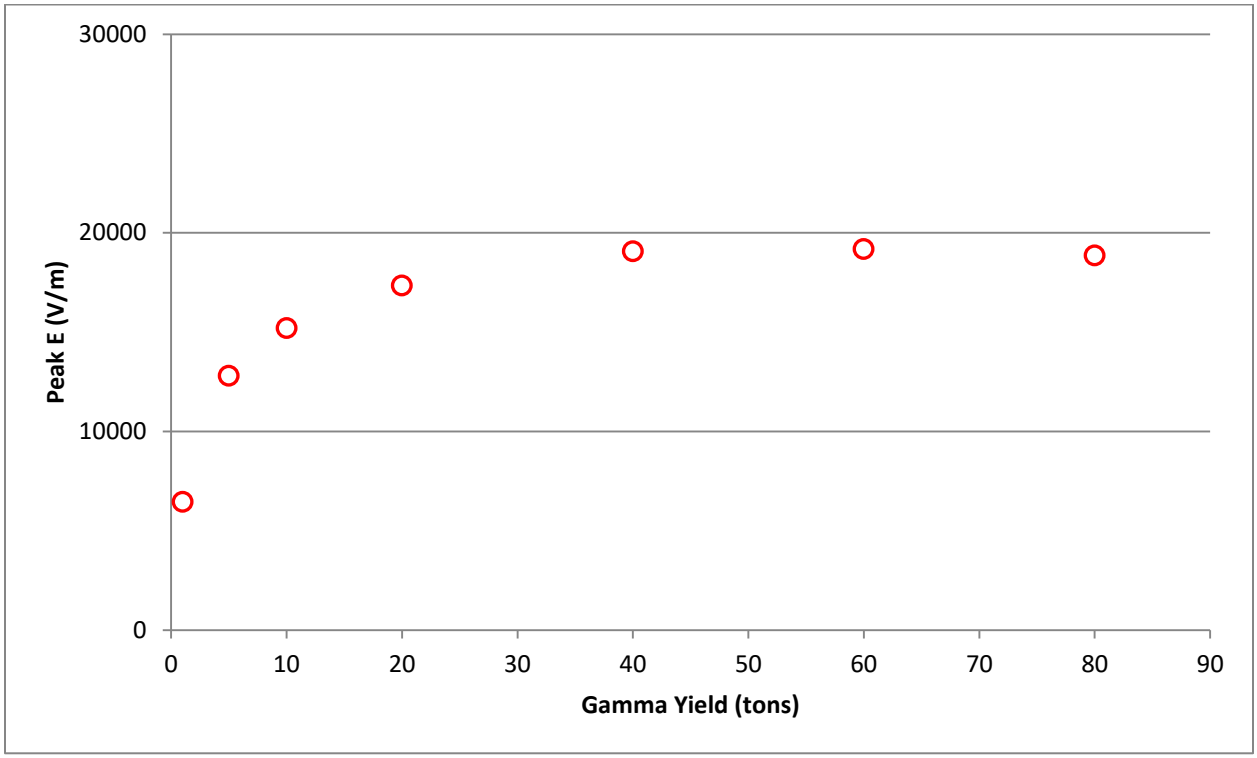


Fig. 10. Variation in Gamma Yield (I=0, Y=0, Z=0, HOB=100km)

This graph has bit difference. Chapman values of E are clearly above 20,000 but given code gives the values below 20,000. I have also considered the care for 60and 80 ton yield for which code get crash; I took the E value for the 1.0 shake.

The only probable reason comes in way is values of Pomranning Constants. Which I have explained below. (last page)



Given values:

A= 2.2 B=0. 25 RN= 5.62603 T0= 2.24

These values don't give results at all as mention in slides as well given by you.

Values from online calculator:

A= 1.7 B=2.8 RN= 1.6 T0= 1.2

I obtain these values form online calculator https://emp.lkdev.com/.

All graphs have been produces by using these values. Only last graph is bit change.

But these values do not match the conditions of pomranning constants. at PAGE 20 of Chapman Thesis

that are: A > B and N should be such that f(t) get normalized to 1.

But these constants do not meet these conditions. I have checked them on this link

https://develop.open.wolframcloud.com/app/objects/0a68f793-5b7d-4f61-82ce-e2445b0a20fd#sidebar=compute