

Physics 535 – Lecture 12

Physics of Lightning

Programming tips to do a Potential/Efield profile

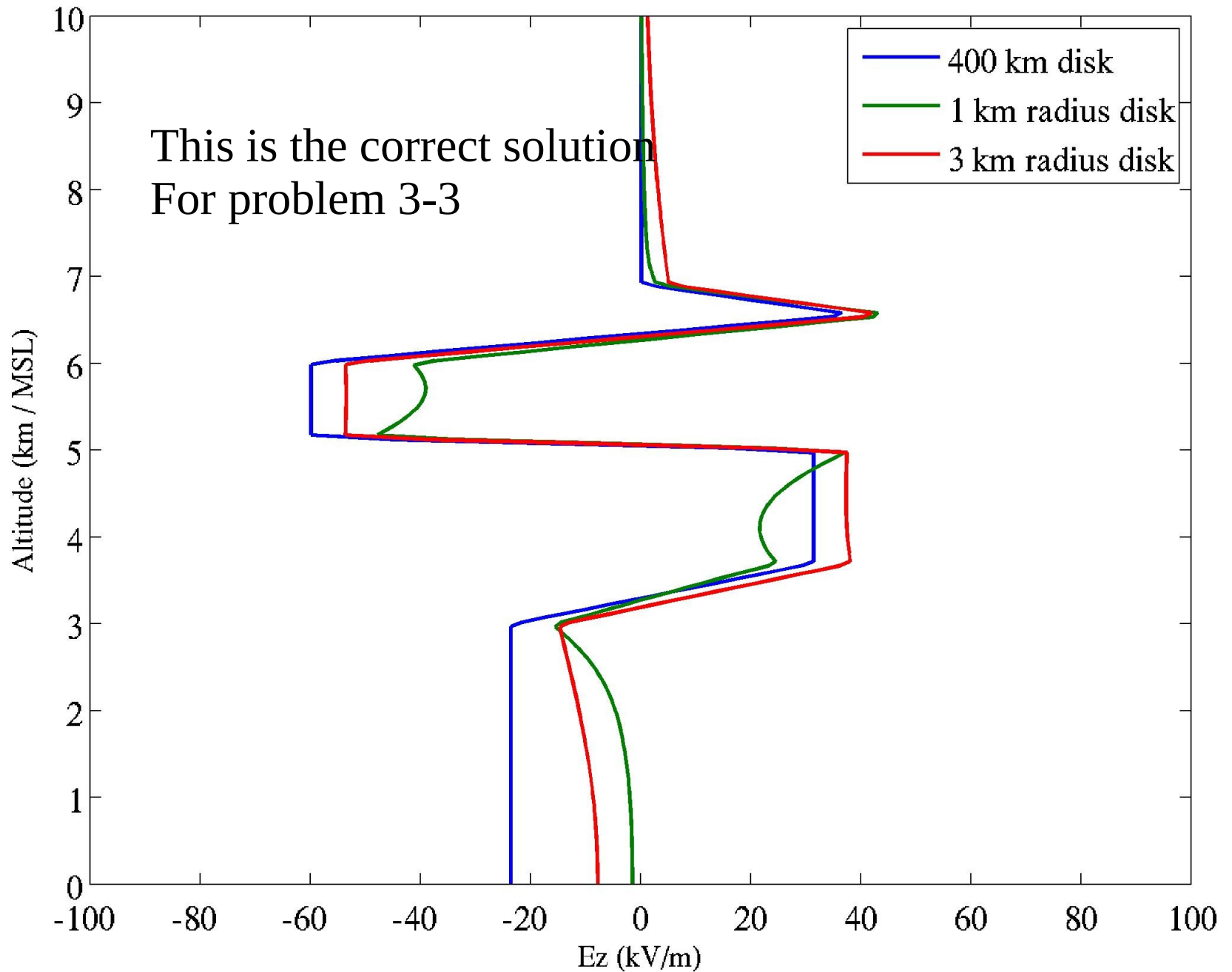
2/15/16

Richard Sonnenfeld

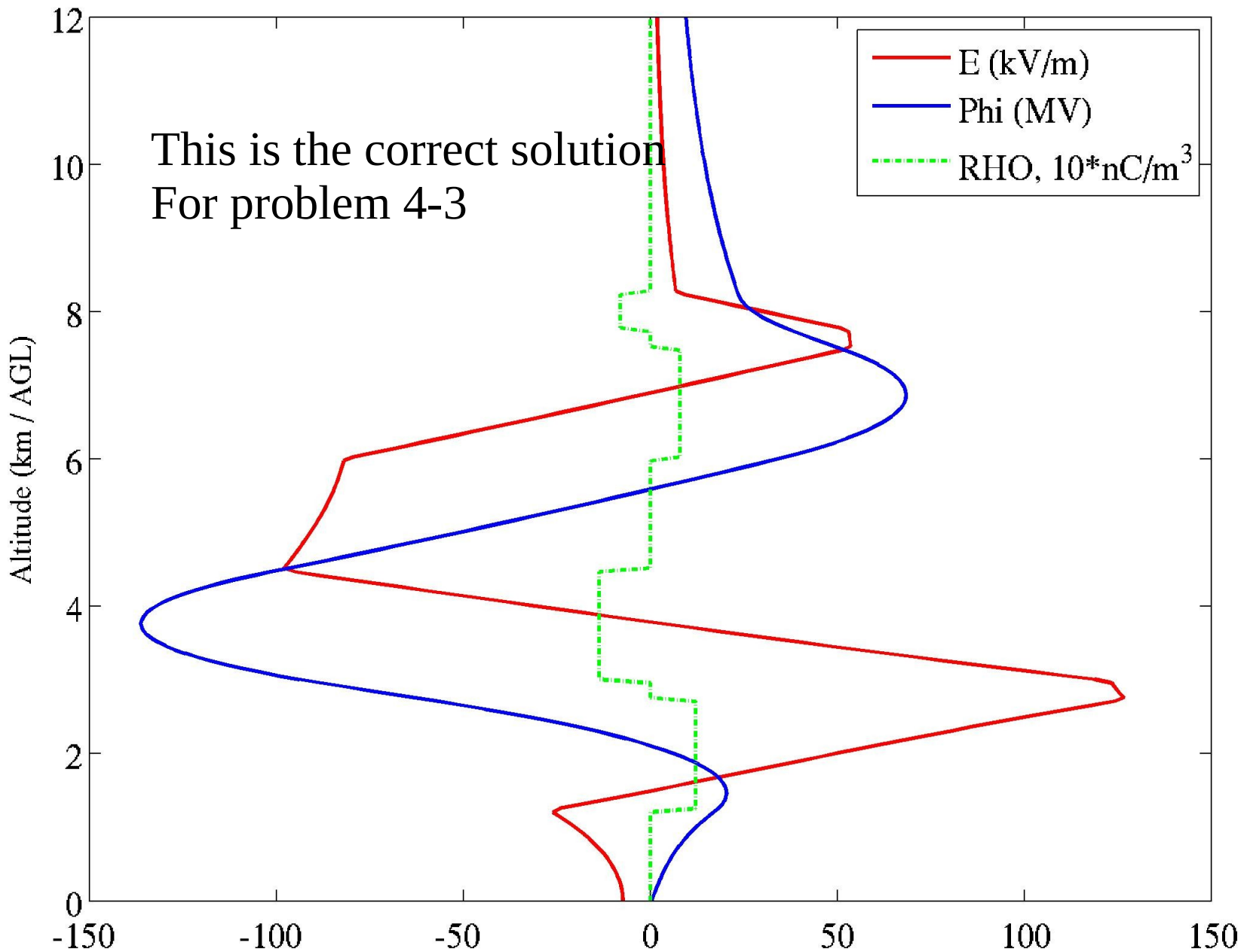
**Physics Department &
Langmuir Laboratory for Atmospheric Physics
New Mexico Institute of Mining and Technology**

(Photo courtesy of Harald Edens)

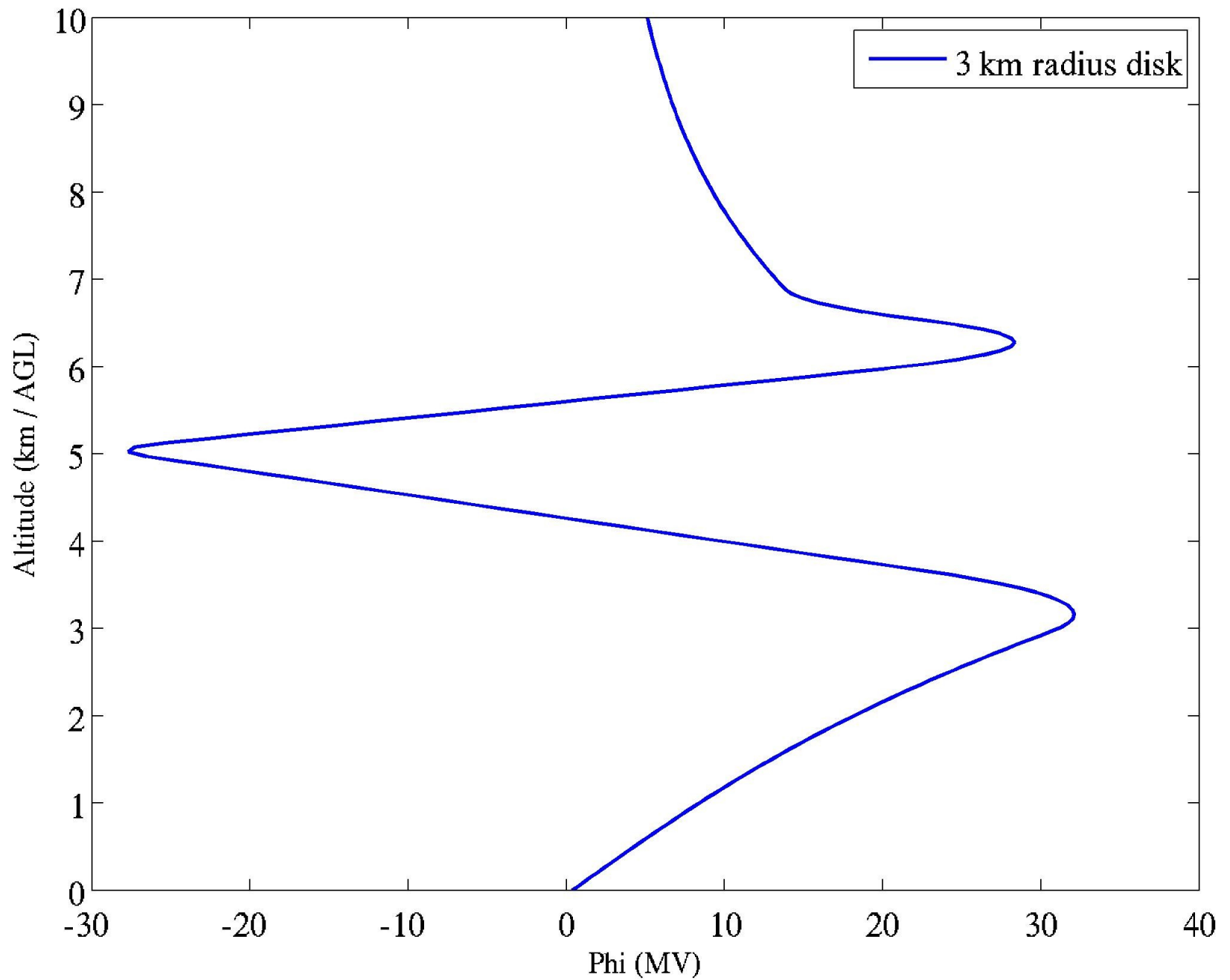
Simulated sounding. Rakov Fig 3.10

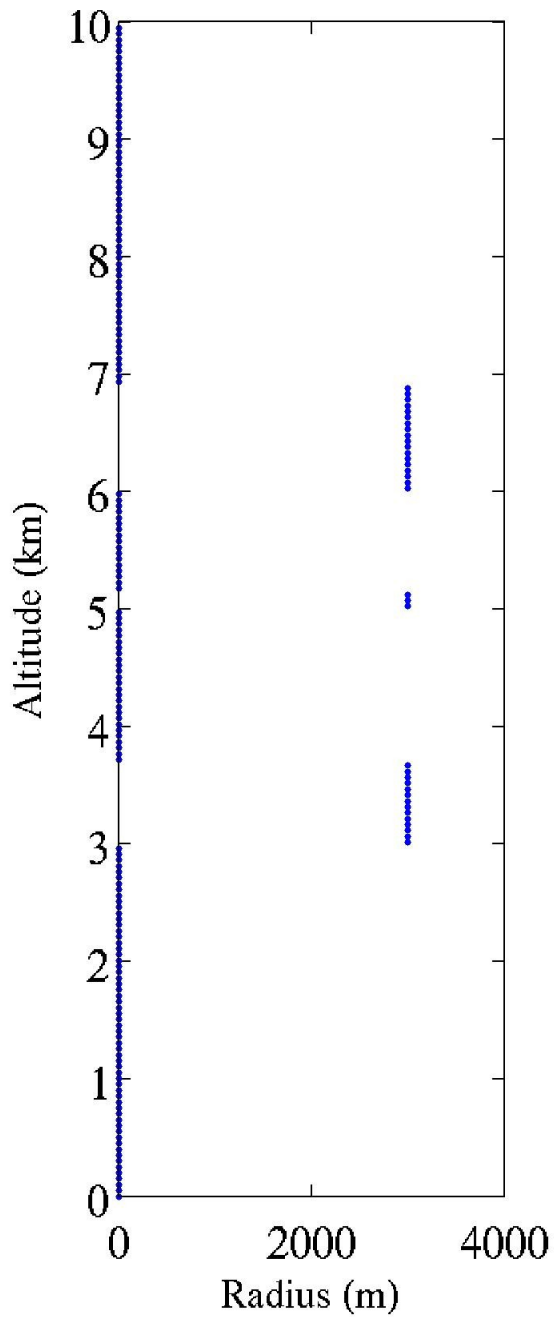


Simulated sounding. July 31, 1999 Storm over LL

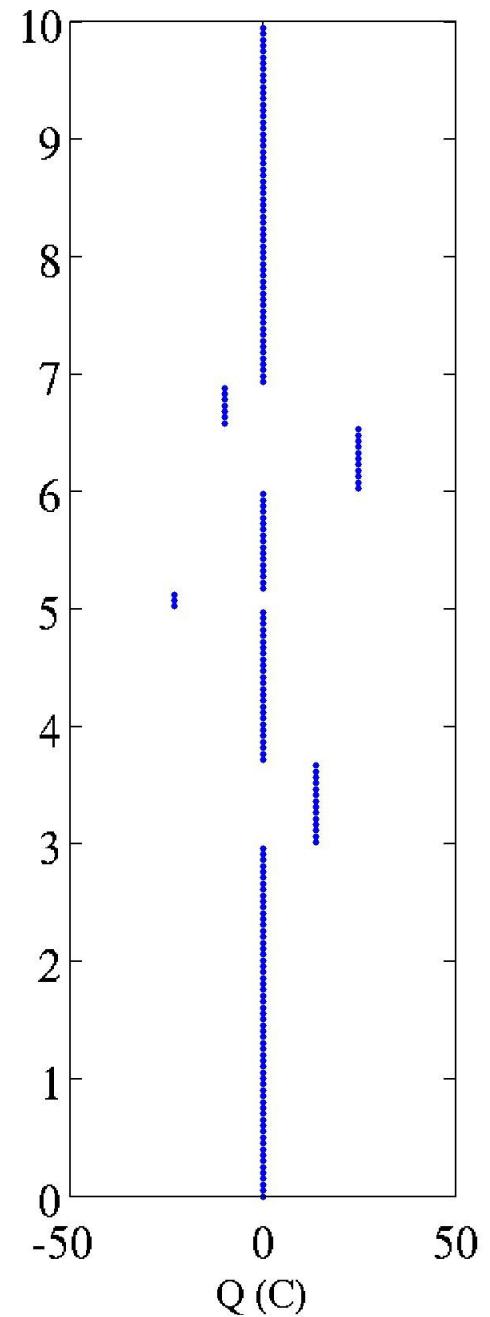
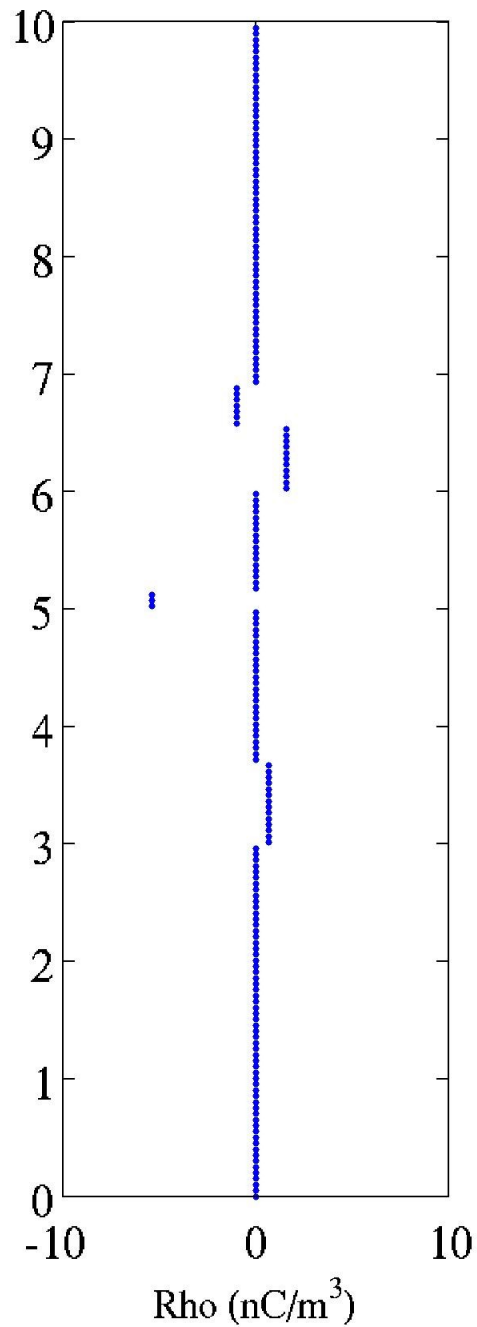


Simulated sounding. Rakov Fig 3.10



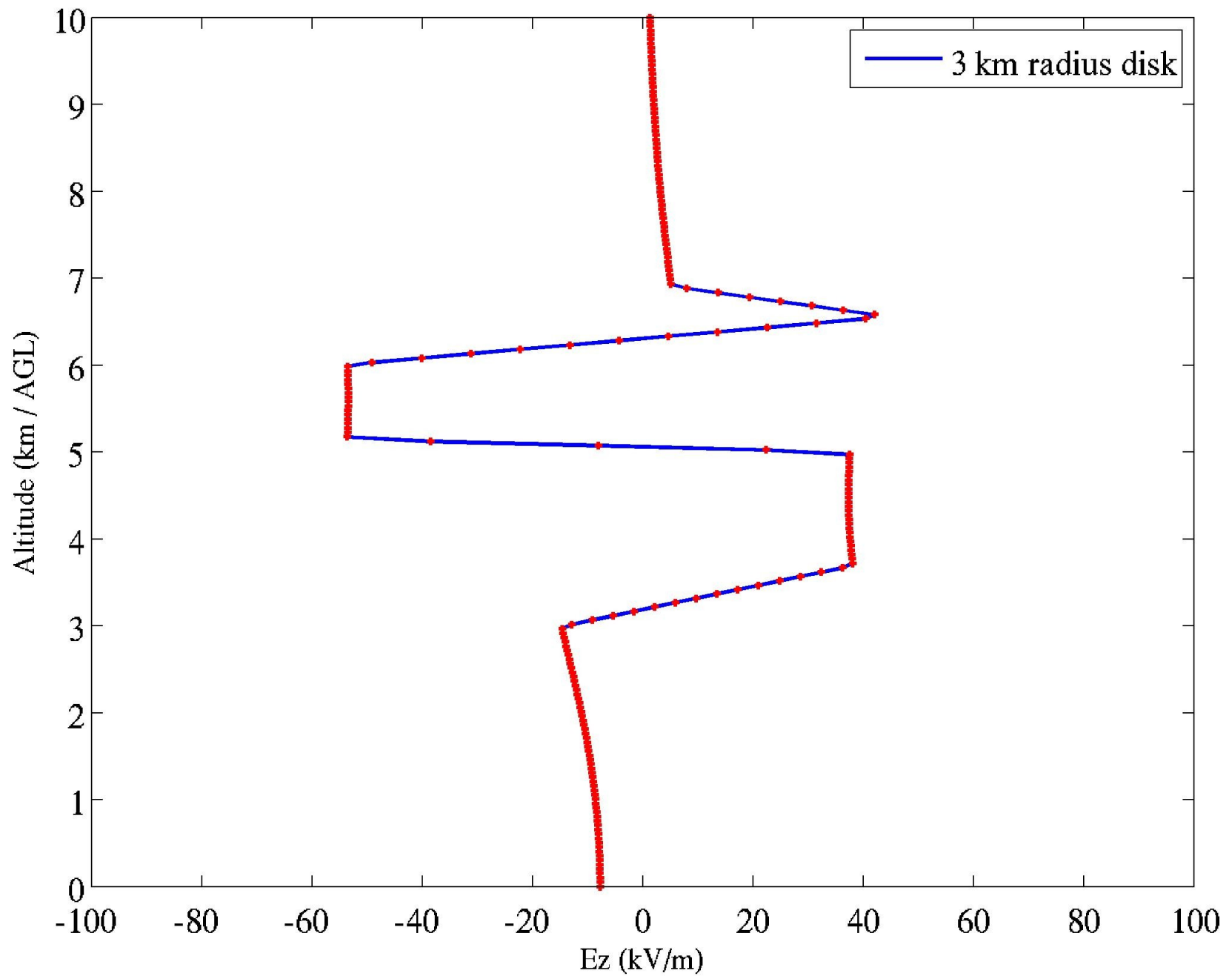


StormSim1

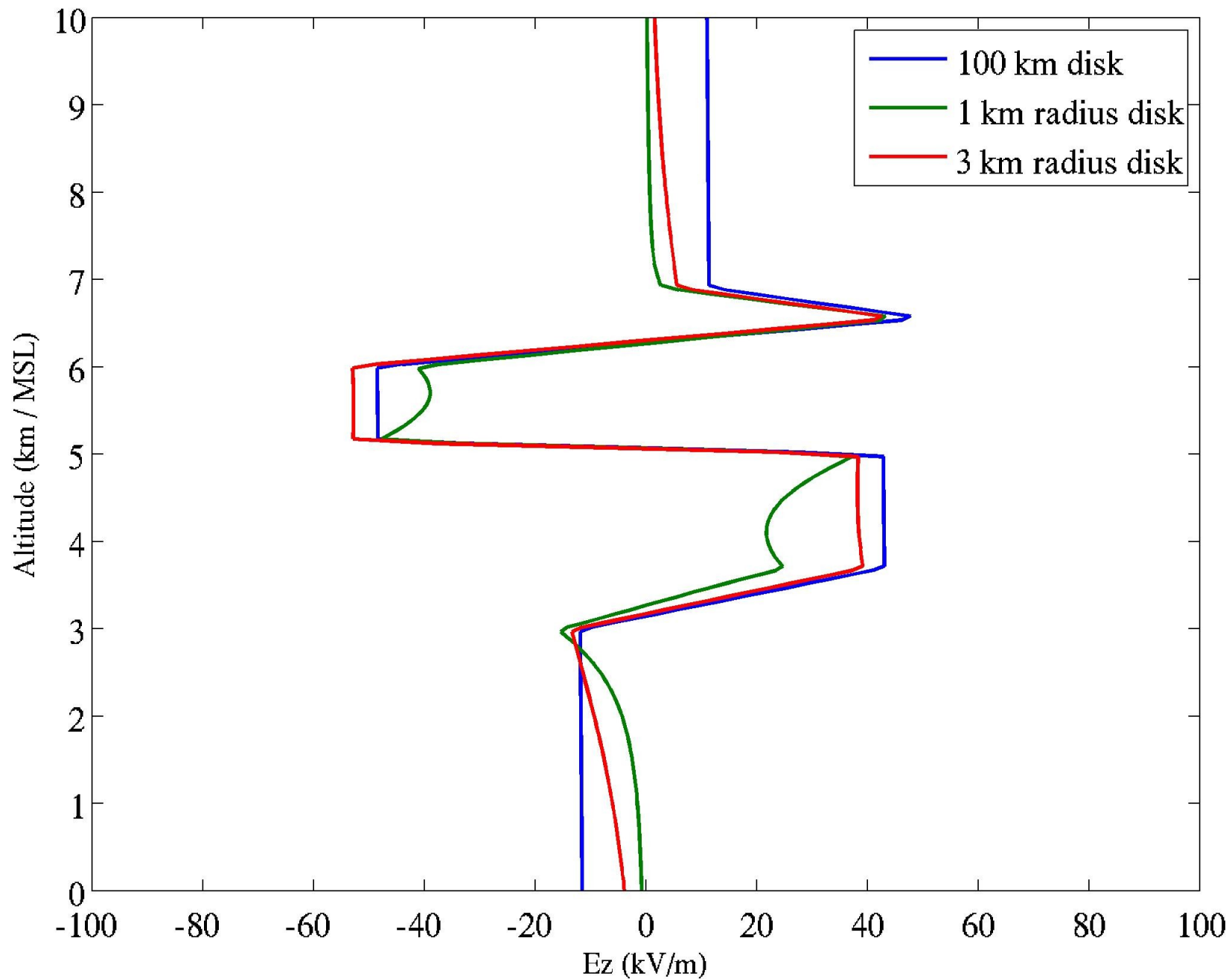


B. Sonnenfeld -- As of: 14-Feb-2016

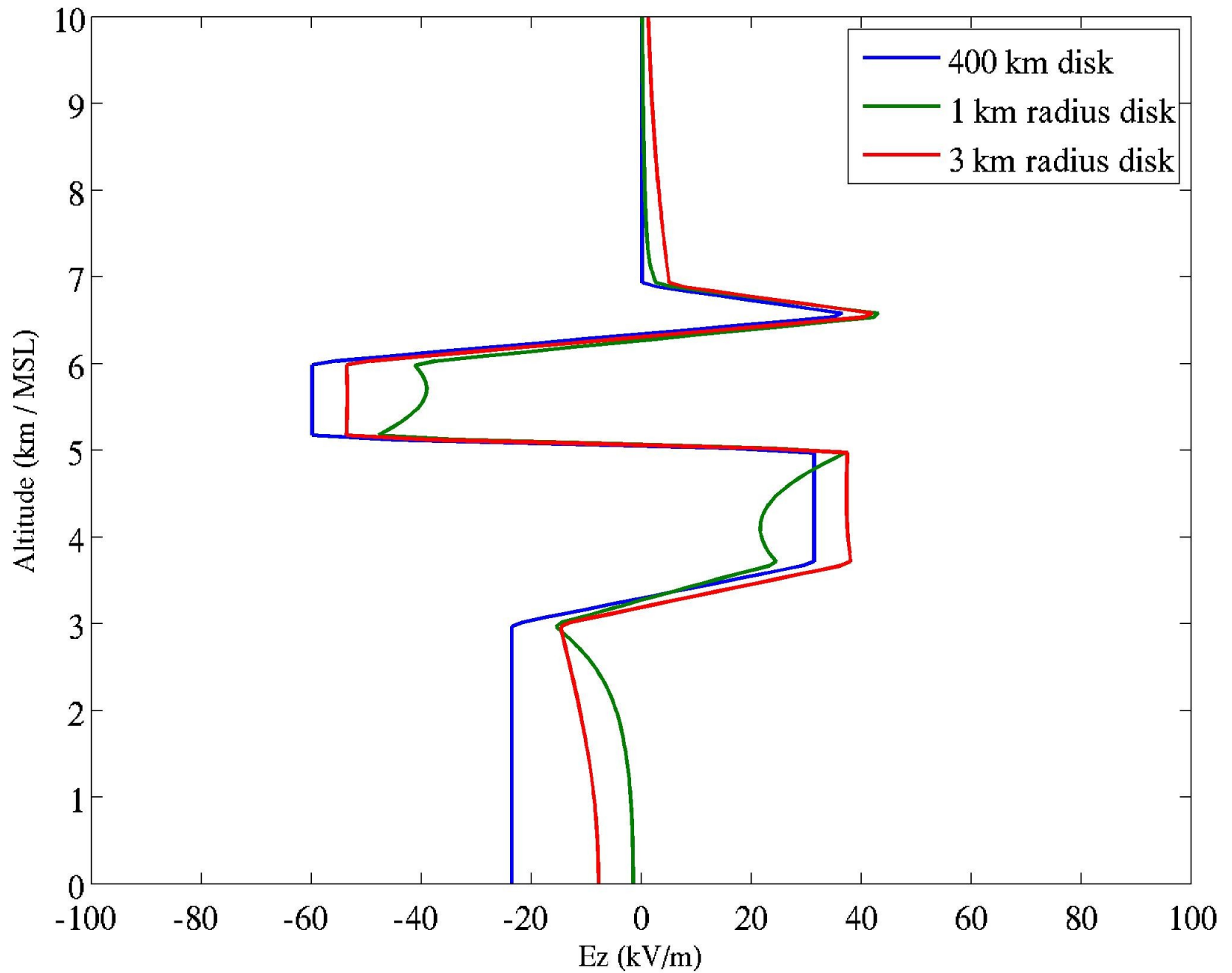
Simulated sounding. Rakov Fig 3.10



Simulated sounding. Rakov Fig 3.10



Simulated sounding. Rakov Fig 3.10



Homework 4 and 5

MODEL

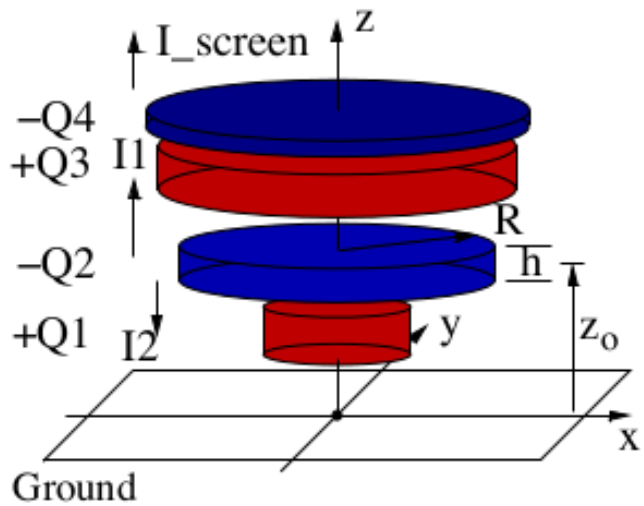
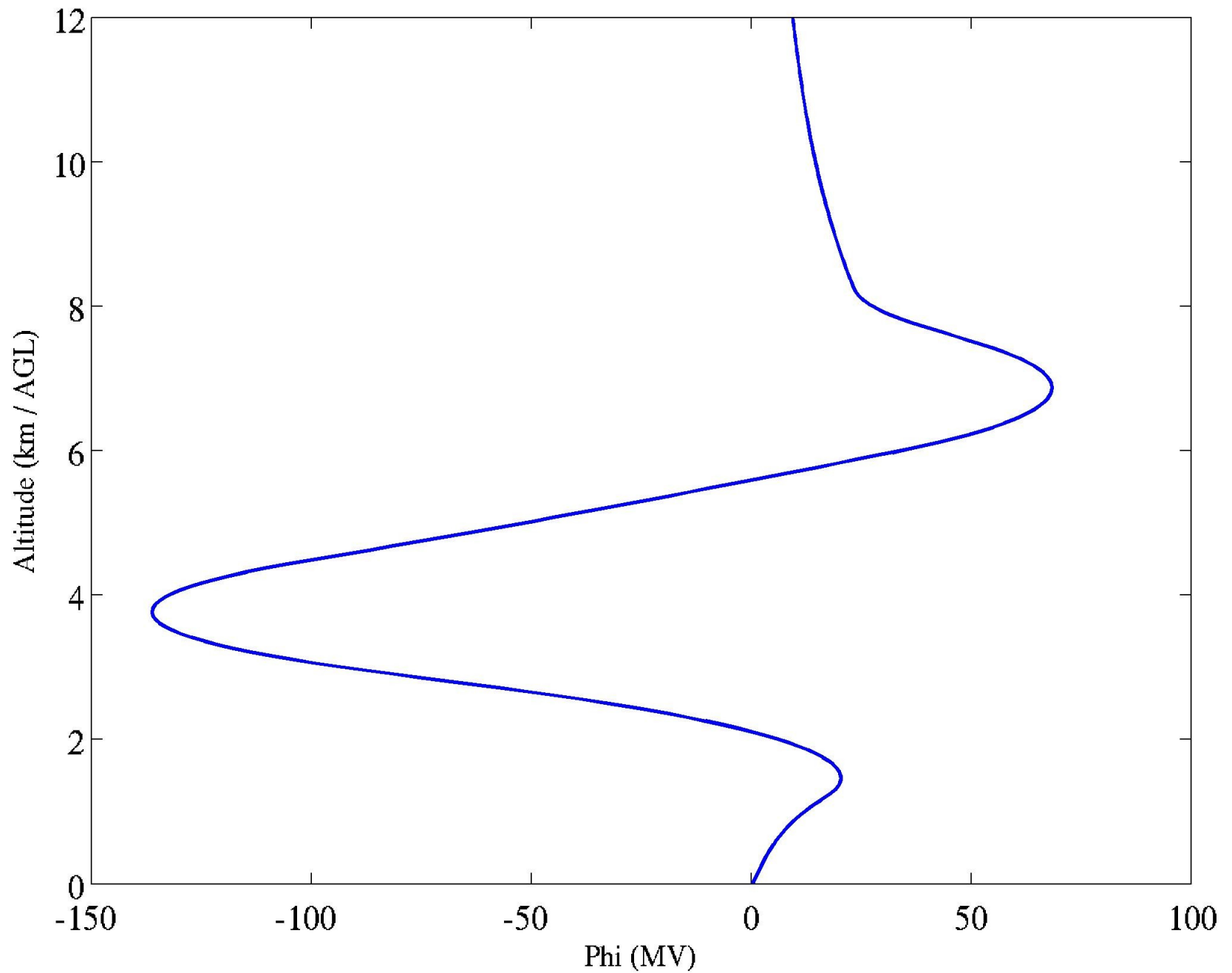


Figure 1. 4-charge disk model. Each disk is specified by z_0 , h , R , and Q . Current I_1 increases the main negative and upper positive charges, while I_2 increases the lower positive and main negative charges.

Simulated sounding. July 31, 1999 Storm over LL



Simulated sounding. July 31, 1999 Storm over LL

