

SEISMOGRAPH

Verification Examples (C3)

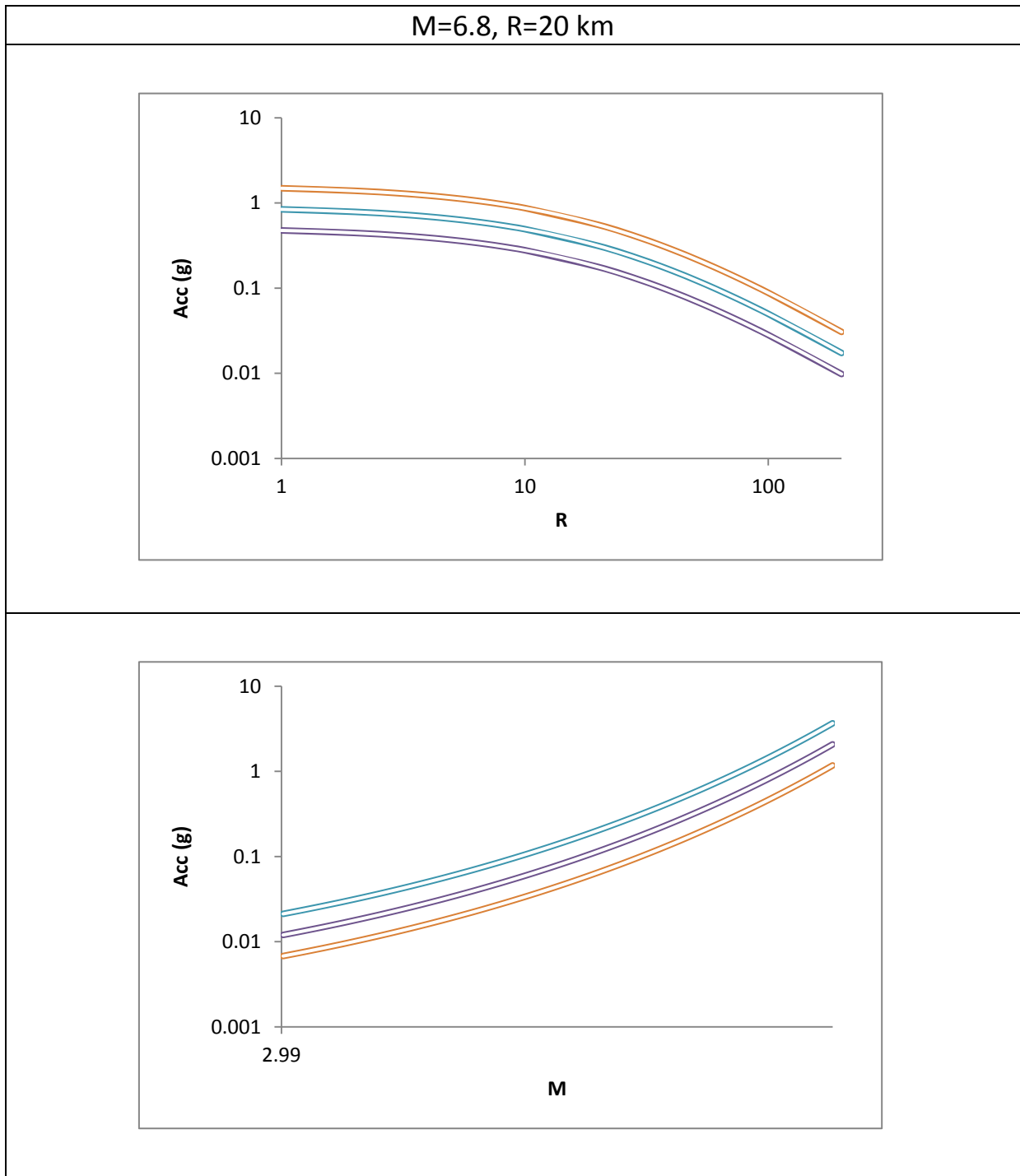
PSHA Tool: Attenuation Models Verifications

NGA Attenuation Models Verifications

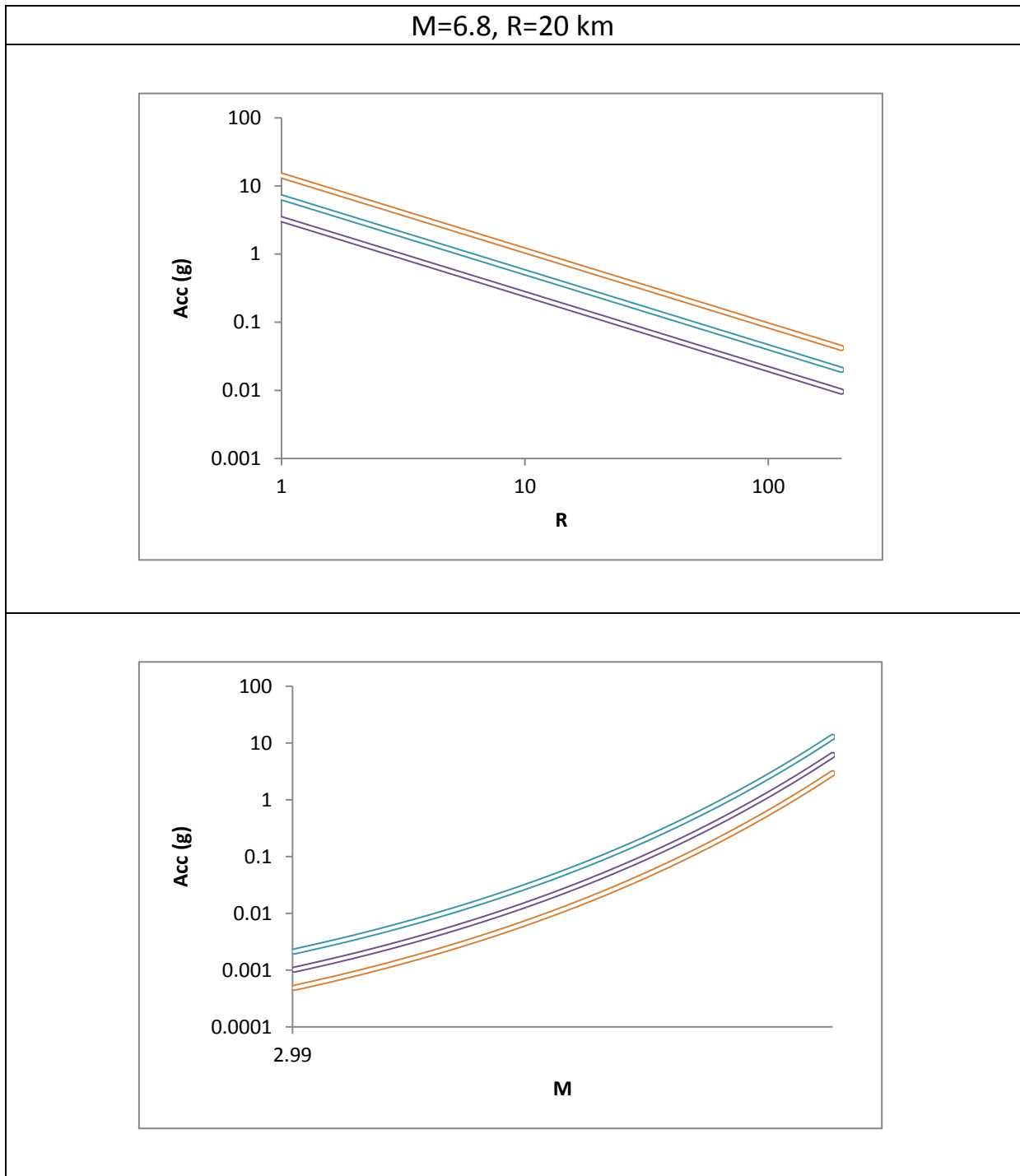
Examples of Attenuation Models of the SEISMOGRAPH have been illustrated in the next pages, as outlined in the table below. White Lines indicate the SEISMOGRAPH results (See: *GMPEs.xlsx* and *NGA GMPEs 2.xlsx* files).

1	Cornell et al. (1979)
2	Amberseys (1975)
3	Amberseys (1990)
4	Campbell (1989)
5	Joyner & Boore (1981)
6	Joyner & Boore (1988)
7	Campbell (1997)
8	Campbell & Bozorgnia (2003)
9	Campbell & Bozorgnia (2008)
10	Abrahamson & Silva (1993)
11	Abrahamson & Silva (2008)
12	Sadigh et al. (1997)
13	Boore et al. (1997)
14	Boore & Atkinson (2008)
15	Zare et al. (1999)
16	Zare & Sabzali (2006)
17	Ghodrati Amiri et al. (2007)
18	Ghodrati Amiri et al. (2010)
19	Ghasemi et al. (2009)
20	Youngs et al. (1988)
21	Chiou & Youngs (2008)
22	Idriss (1993)

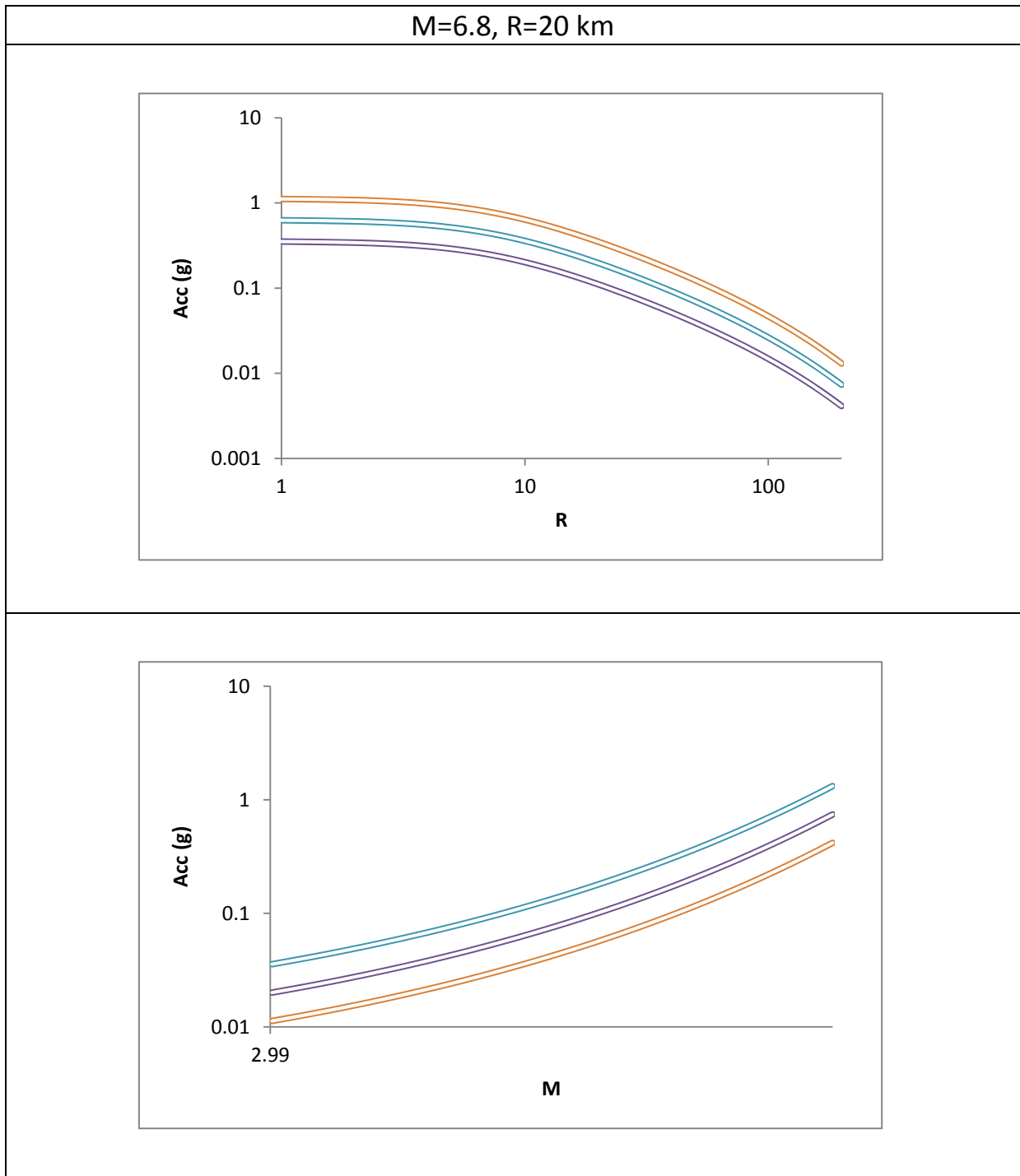
1. Cornell et al. (1979)



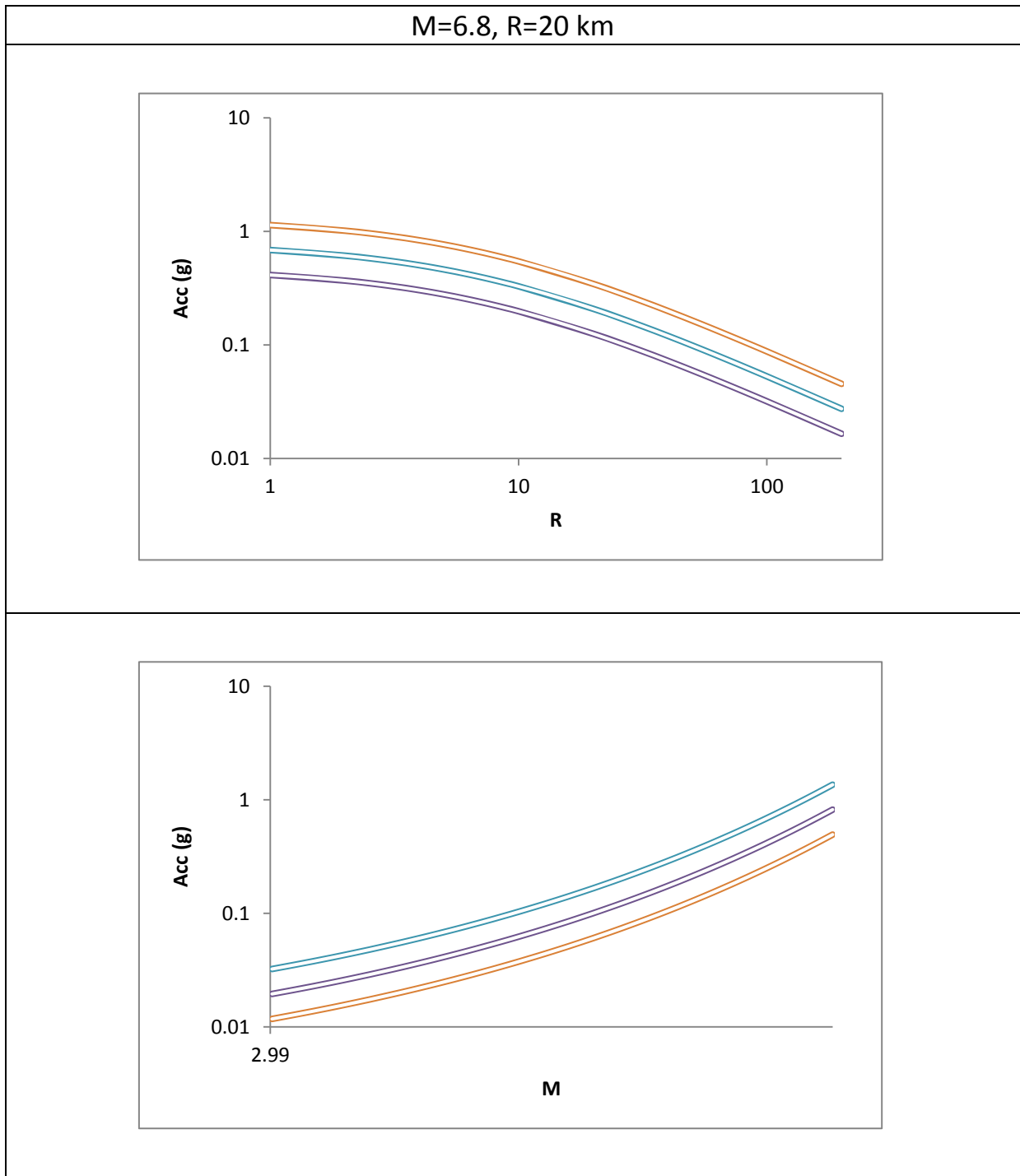
2. Ambraseys (1975)



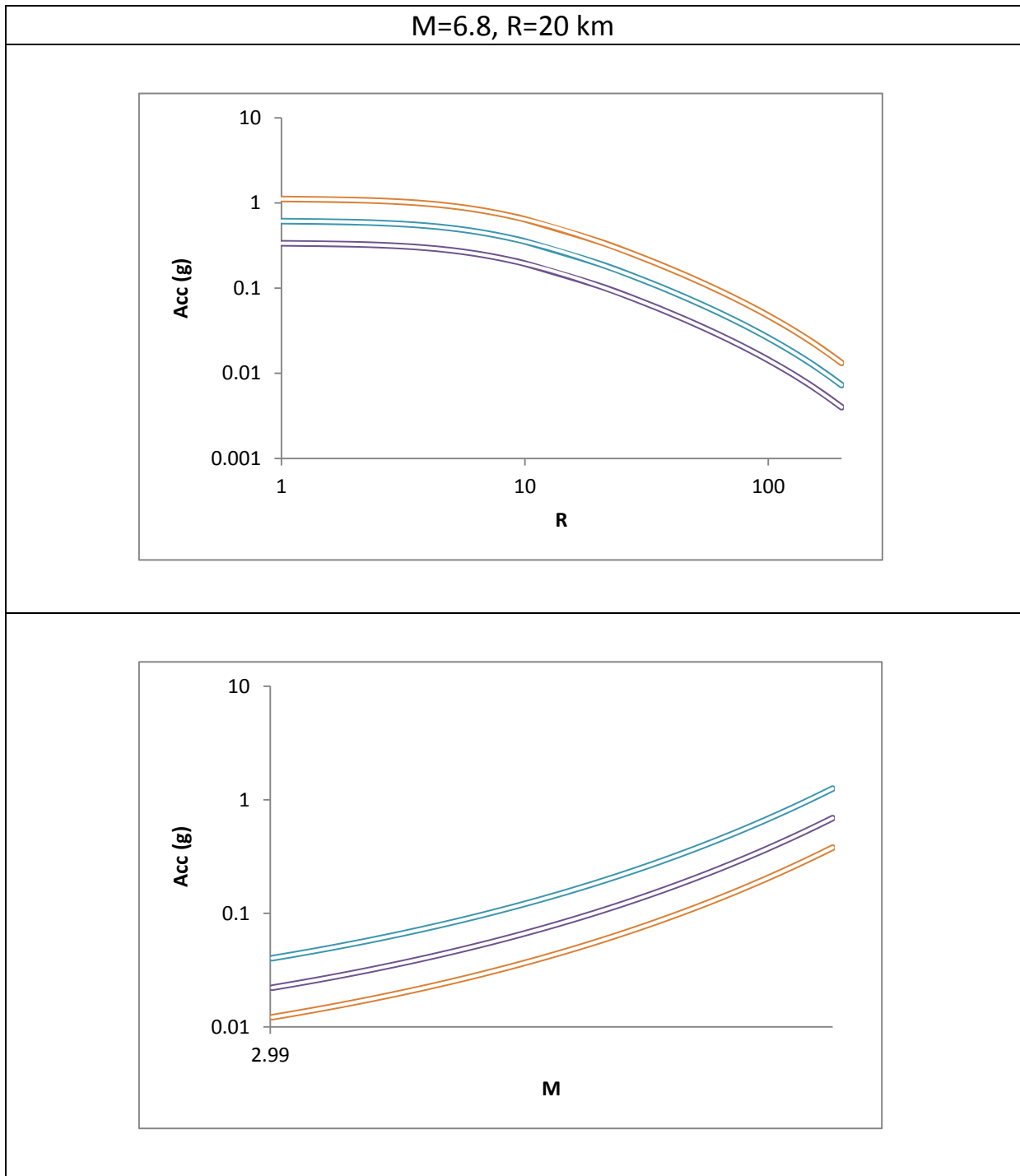
3. Ambraseys (1990)



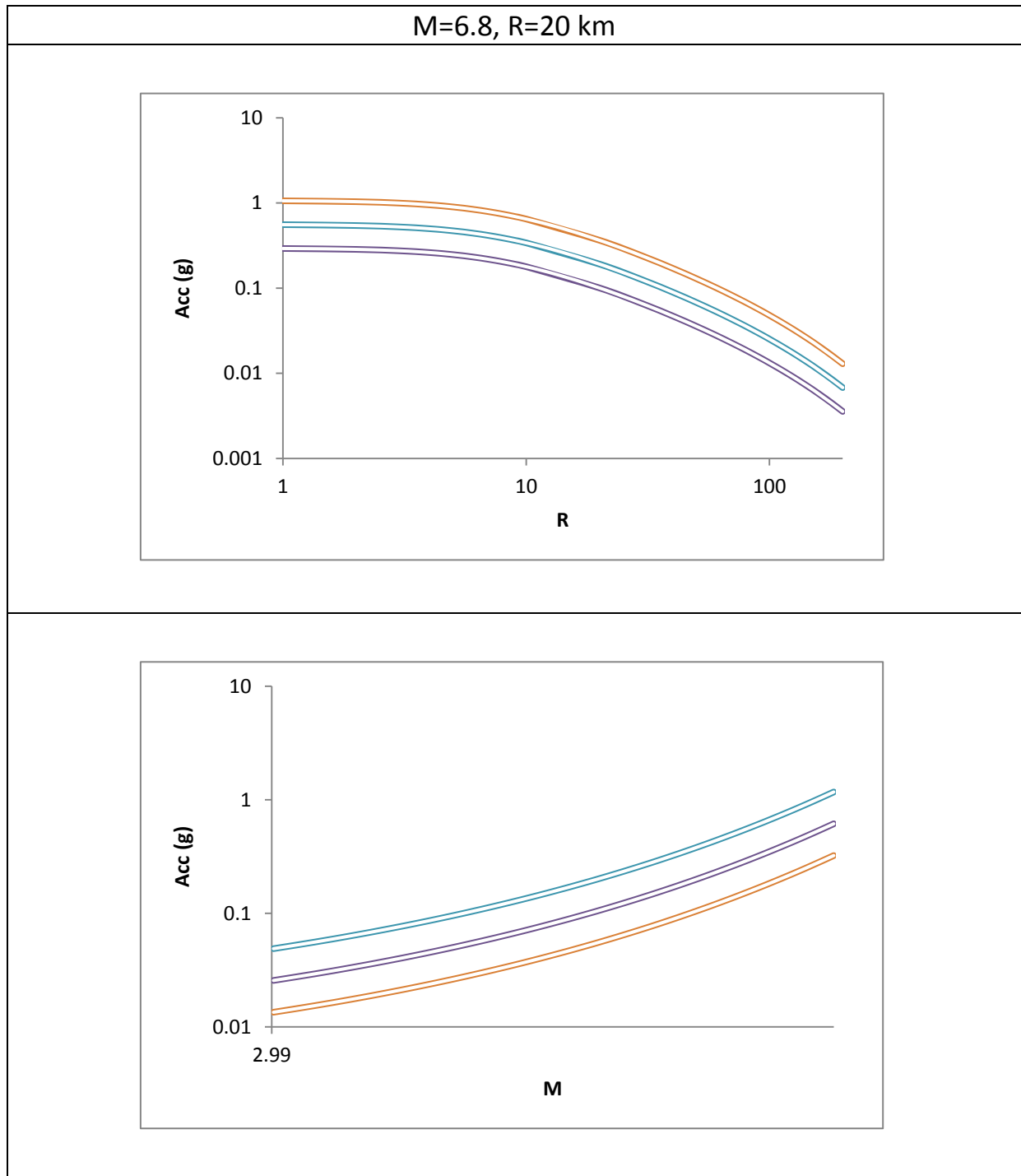
4. Campbell (1989)



5. Joyner & Boore (1981)

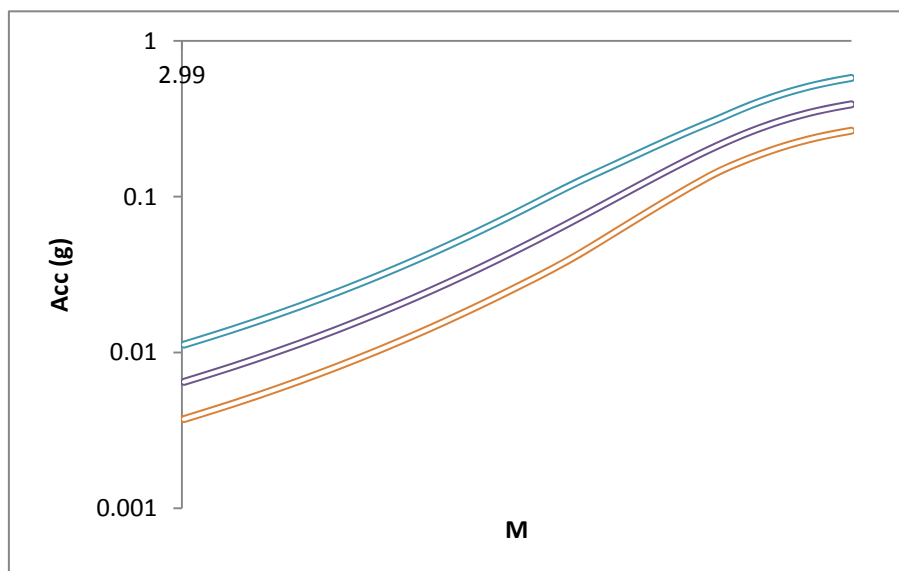
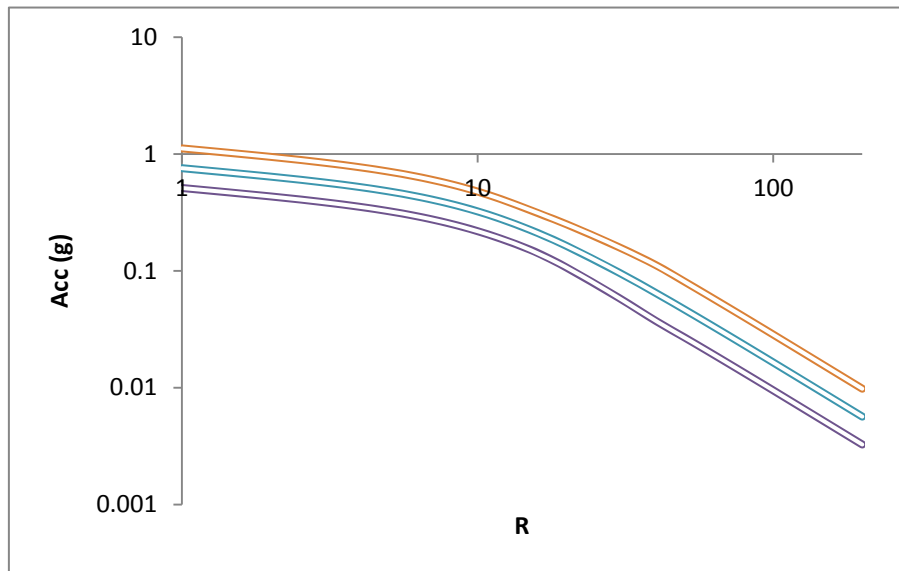


6. Joyner & Boore (1988)



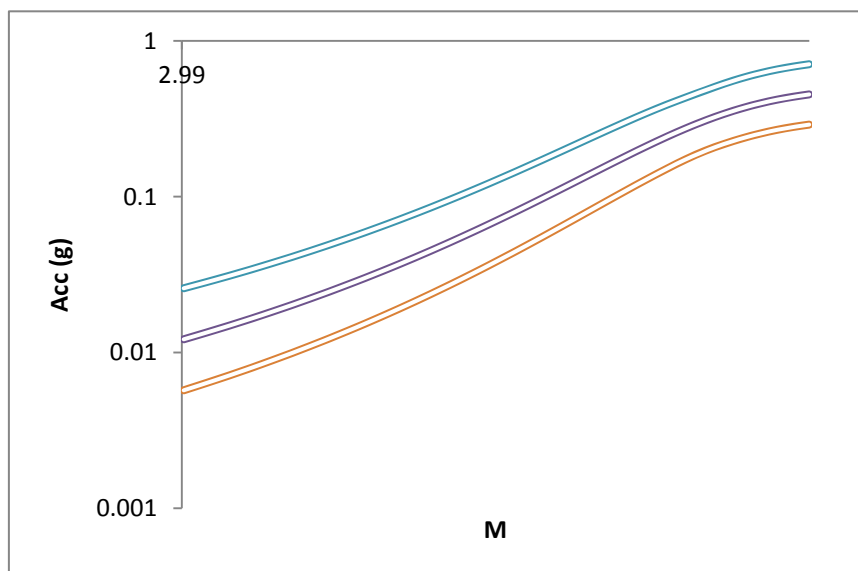
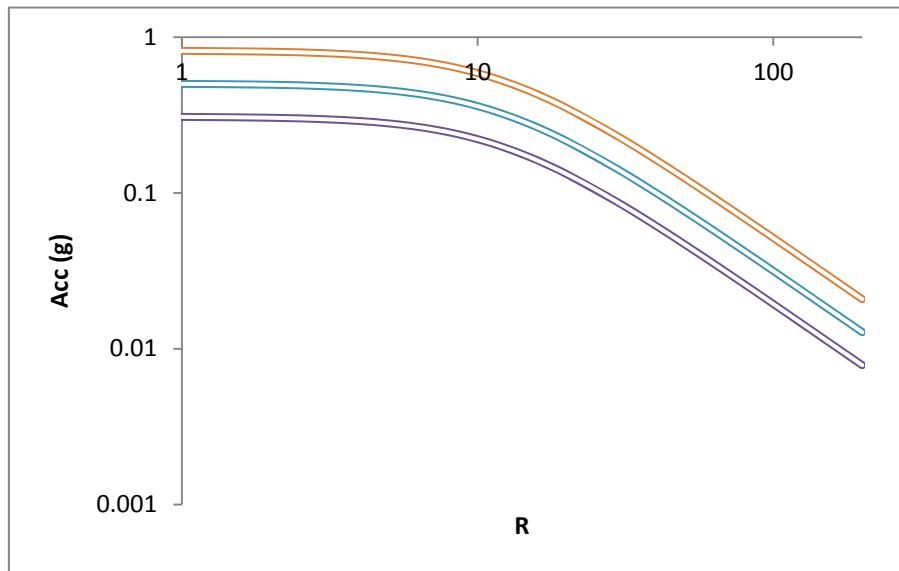
7. Campbell (1997)

M=6.8, R=20 km, Hard Rock, Strike-Slip, Sediment Depth=3.2 km

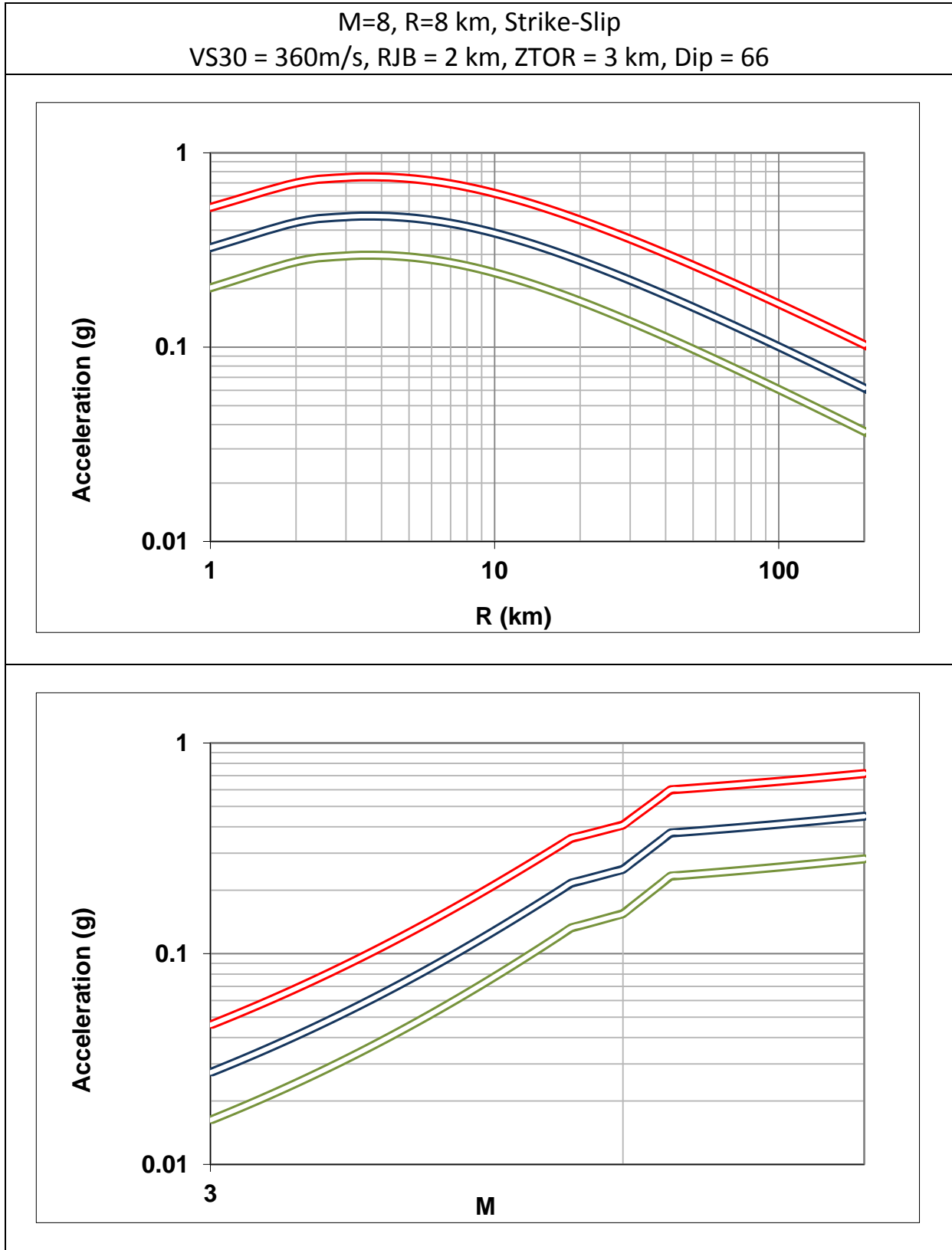


8. Campbell & Bozorgnia (2003)

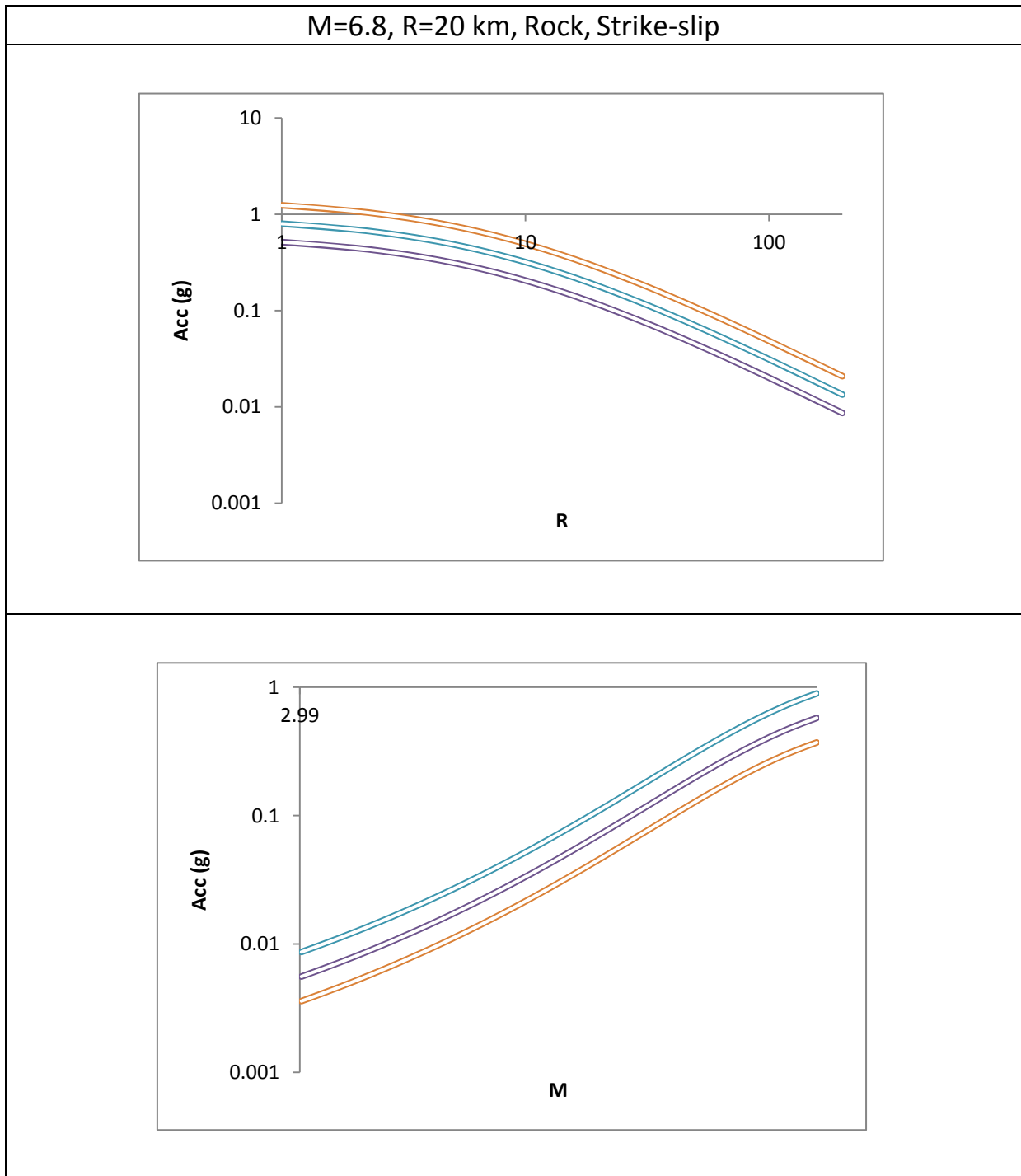
M=6.8, R=20 km, Firm soil, Strike-slip, Uncorrected, Dip=90



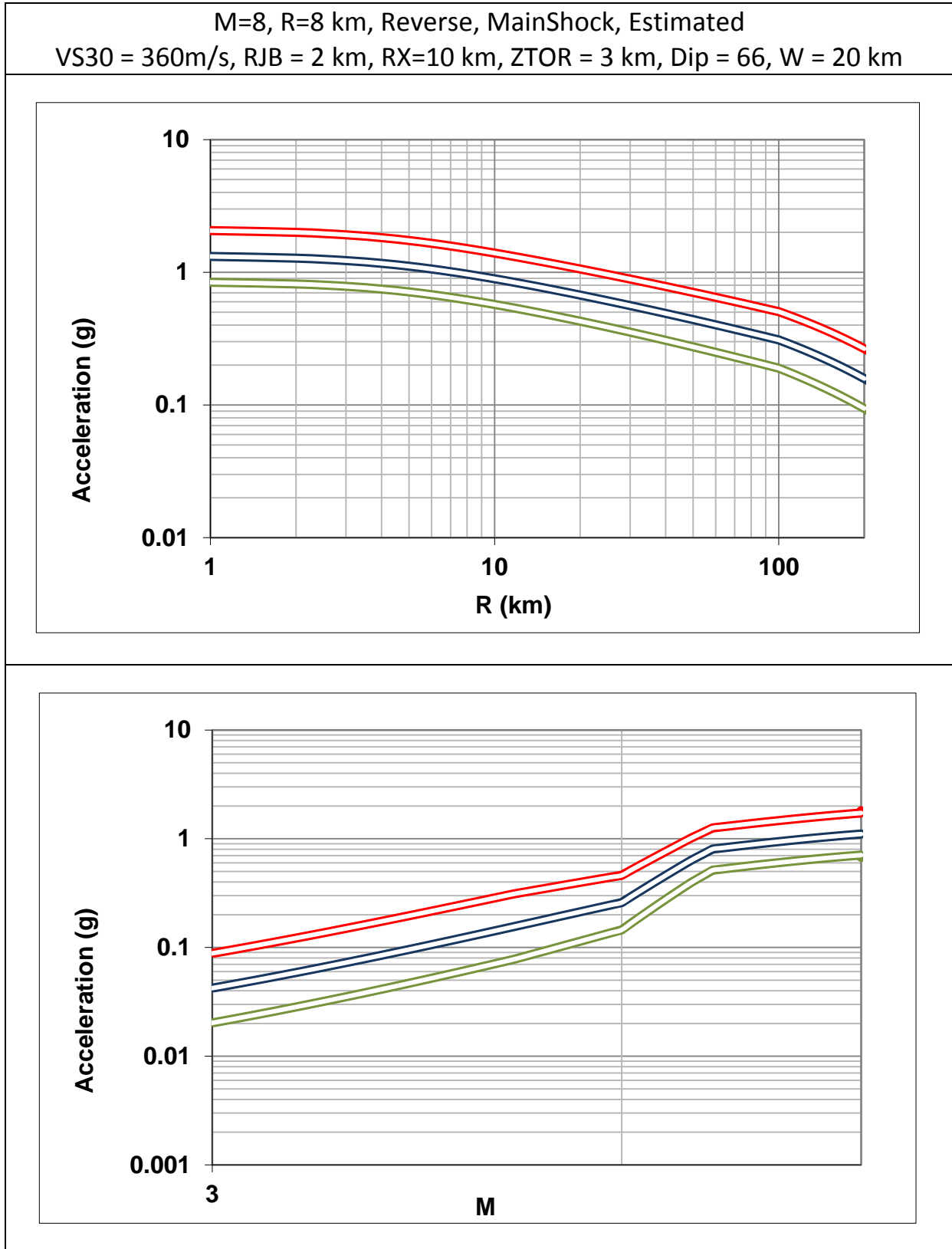
9. Campbell & Bozorgnia (2008)



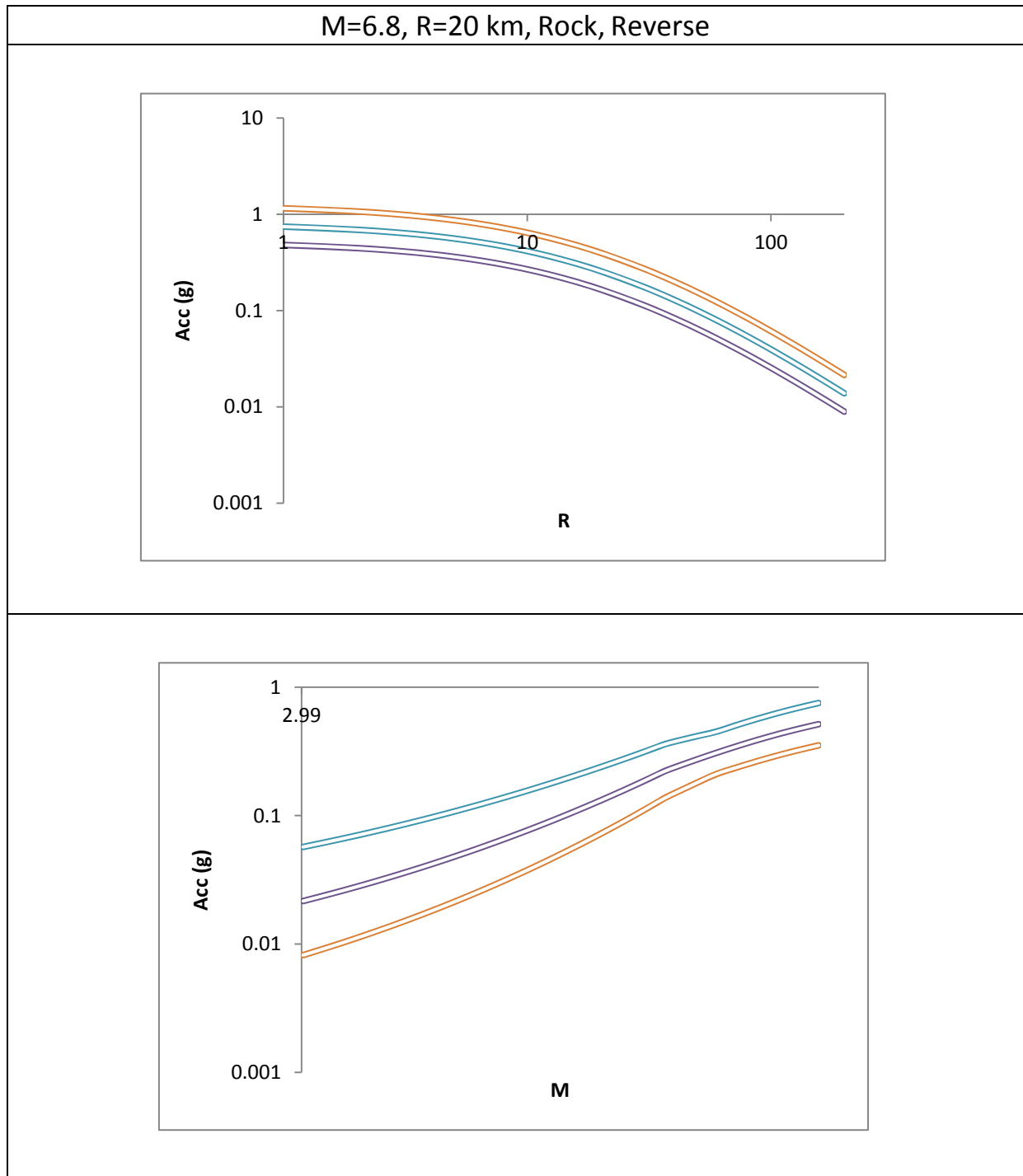
10. Abrahamson & Silva (1993)



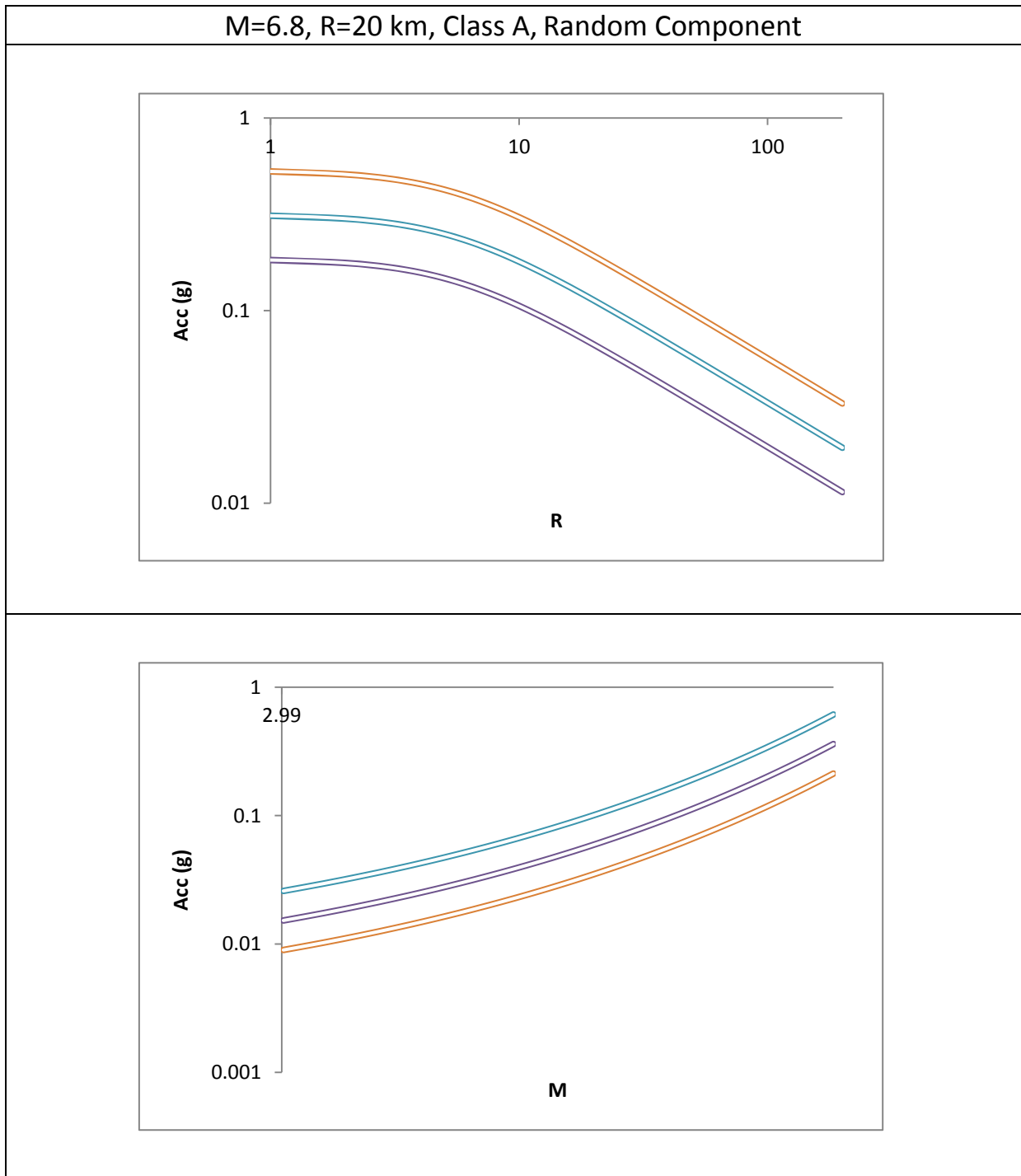
11. Abrahamson & Silva (2008)



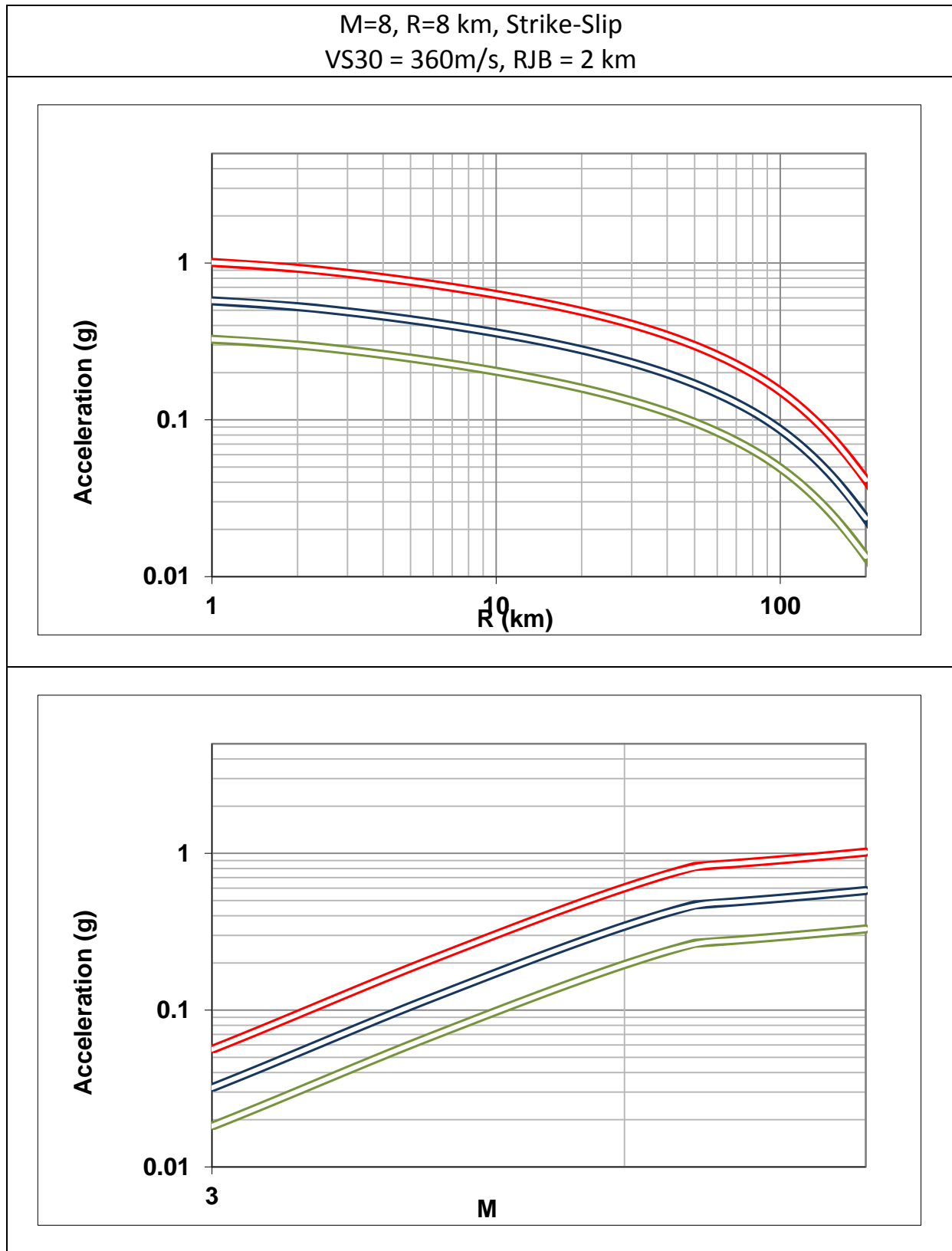
12. Sadigh et al. (1997)



13. Boore et al. (1997)

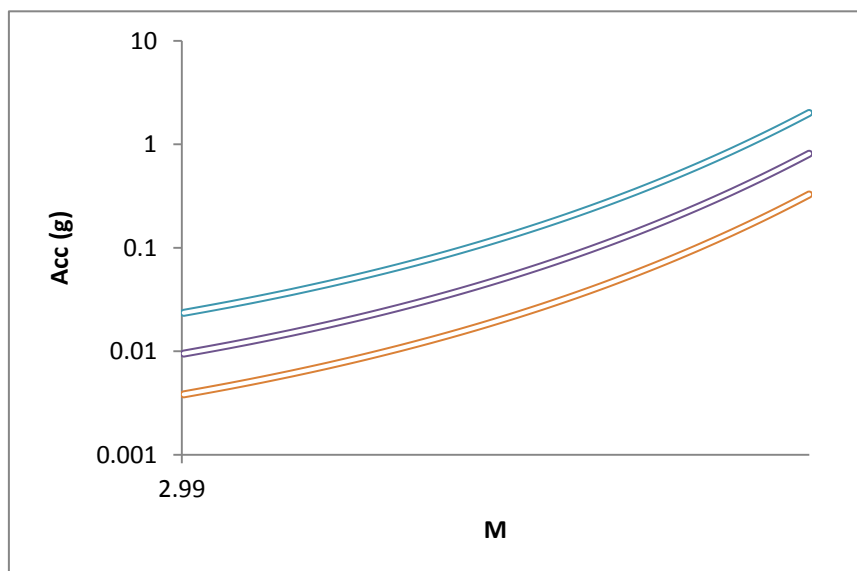
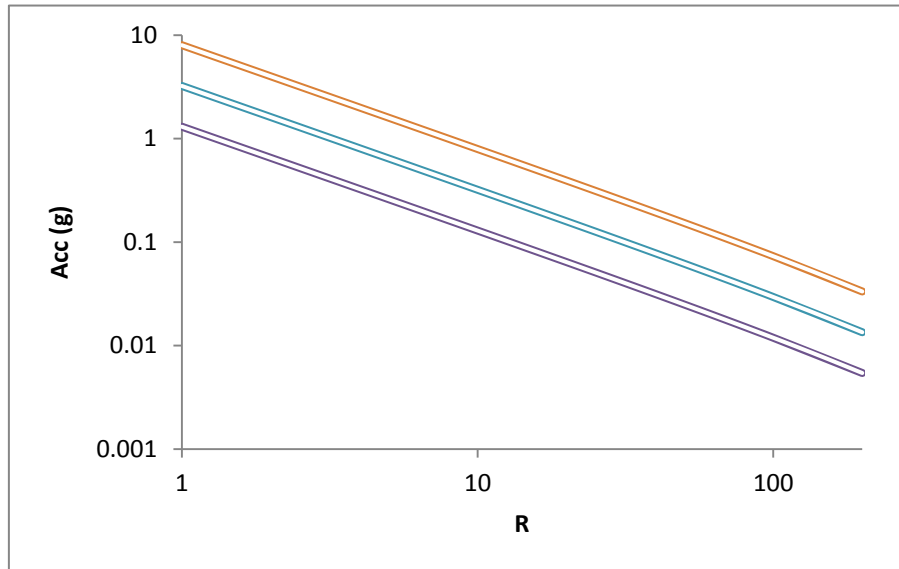


14. Boore & Atkinson (2008)

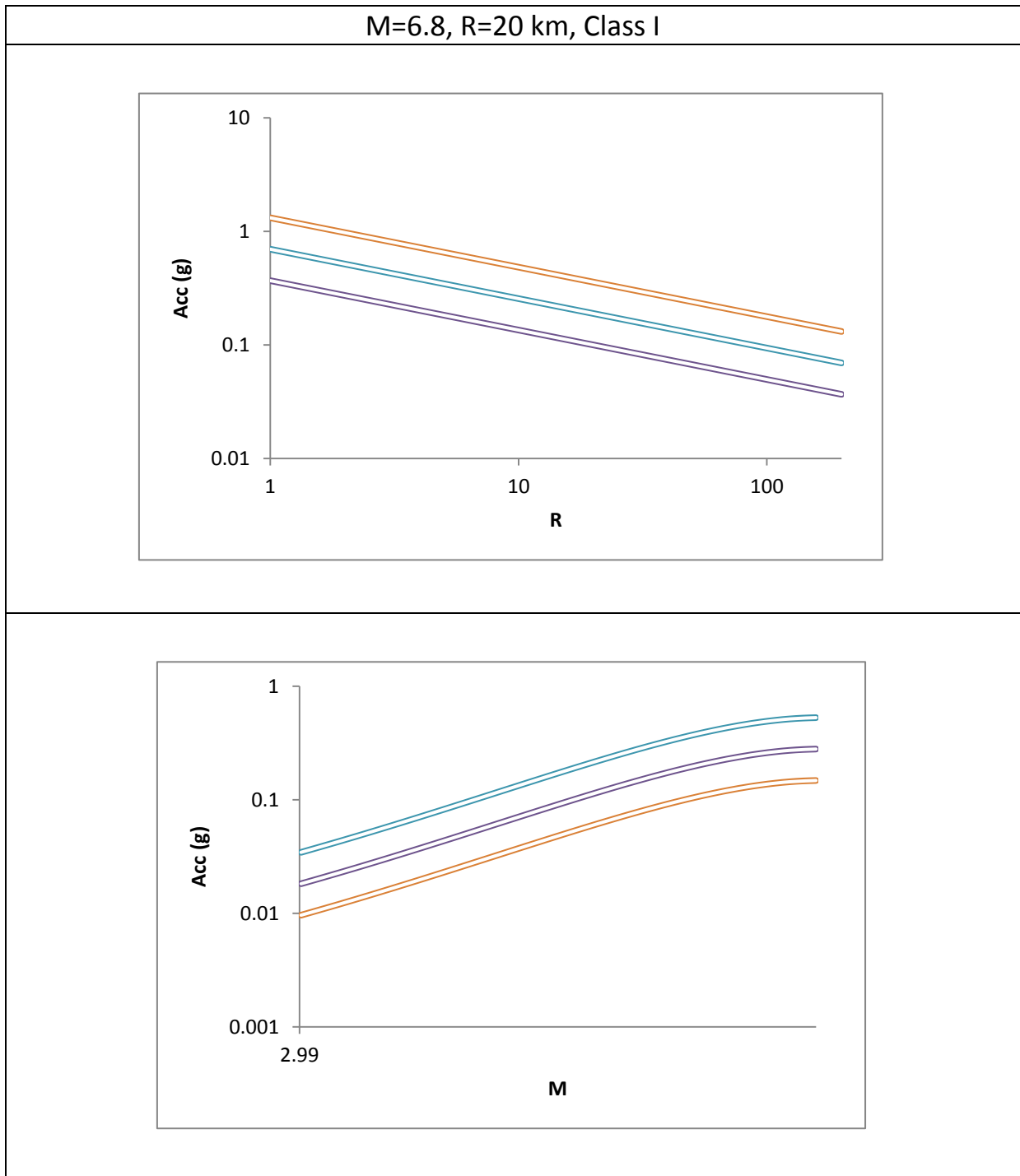


15. Zare et al. (1999)

M=6.8, R=20 km, Rock, Alborz and Central Iran

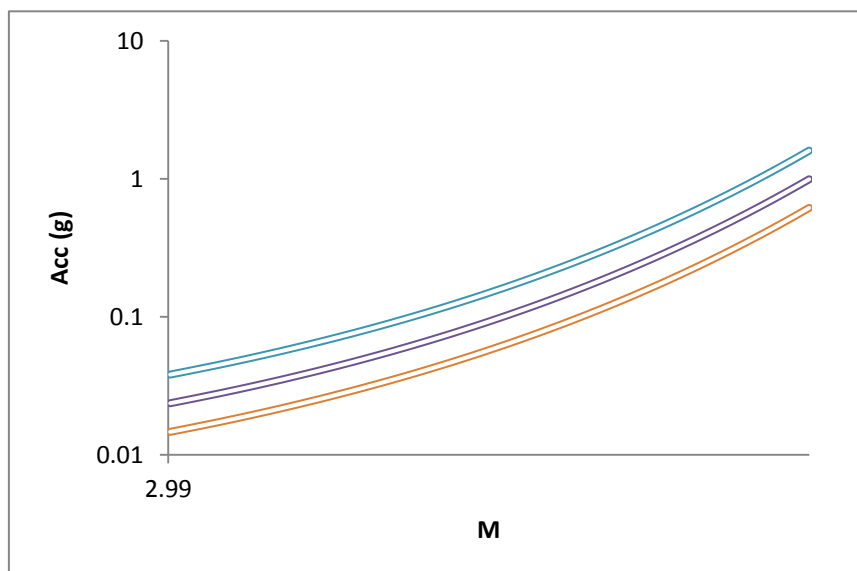
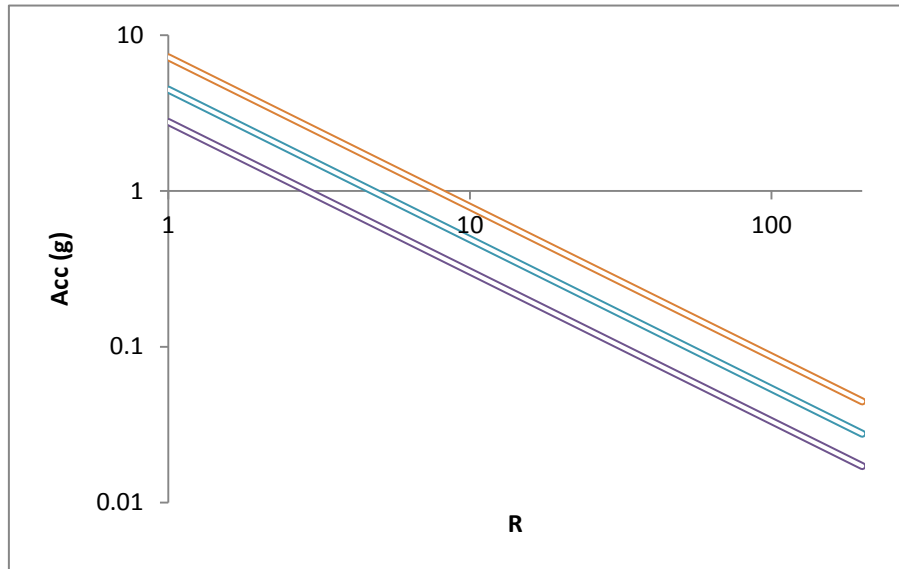


16. Zare & Sabzali (2006)

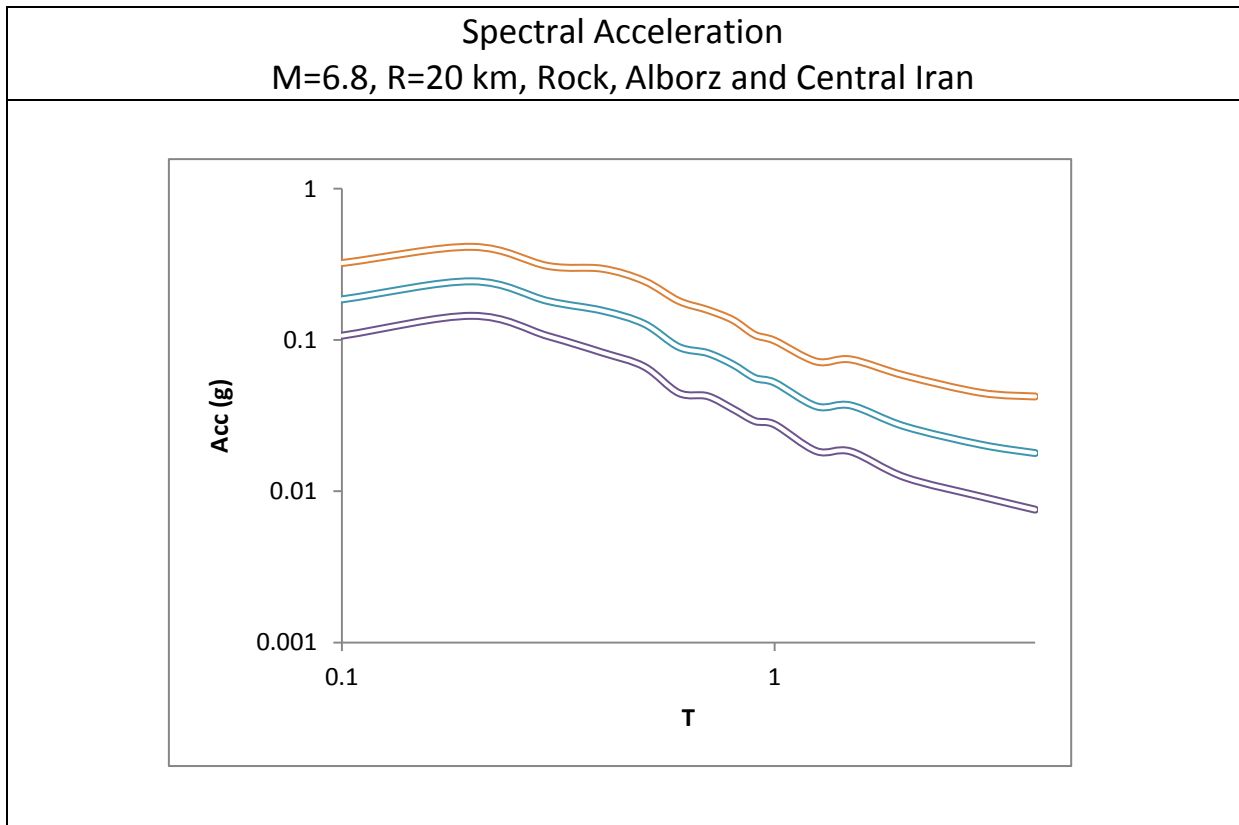


17. Ghodrati Amiri et al. (2007)

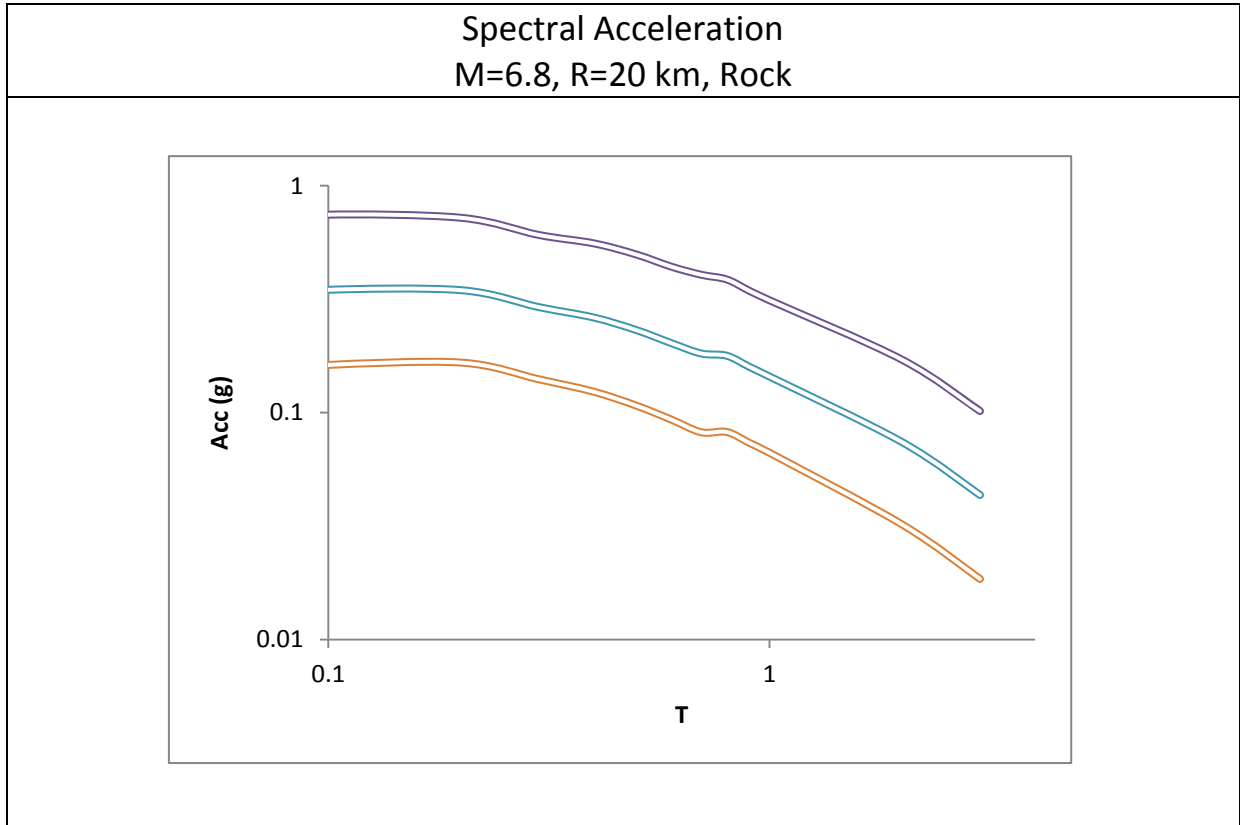
M=6.8, R=20 km, Rock, Alborz and Central Iran



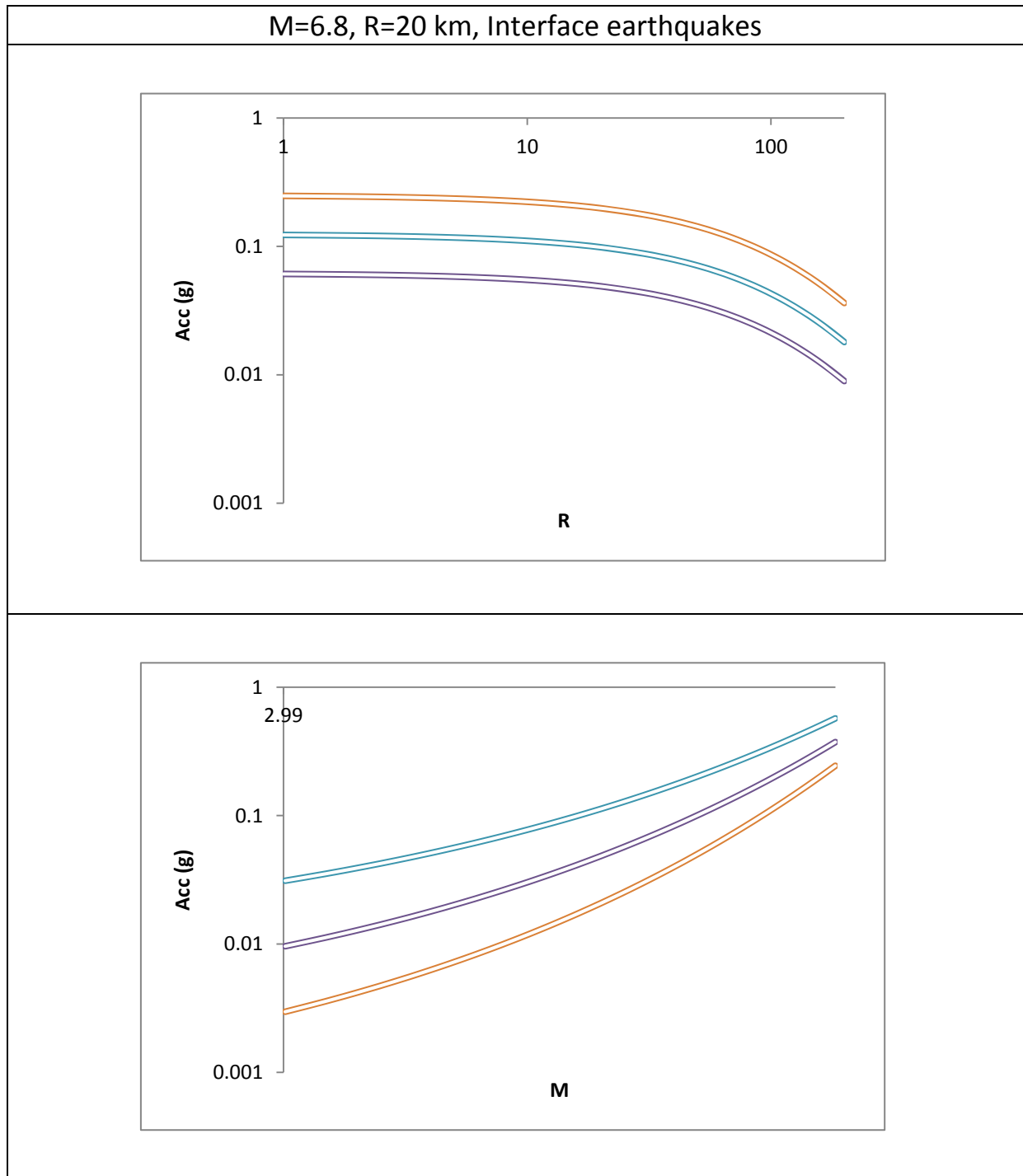
18. Ghodrati Amiri et al. (2010)



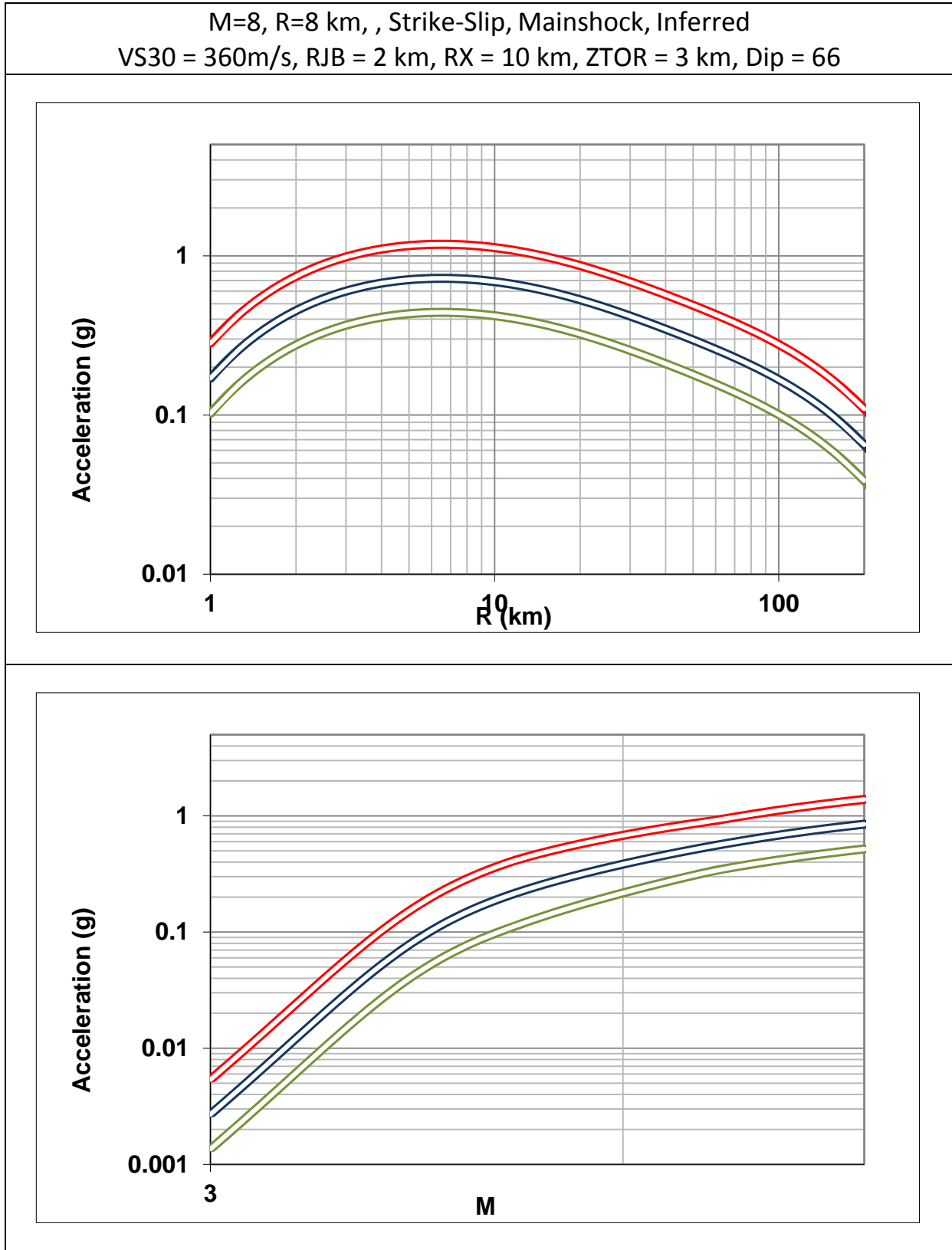
19. Ghasemi et al. (2009)



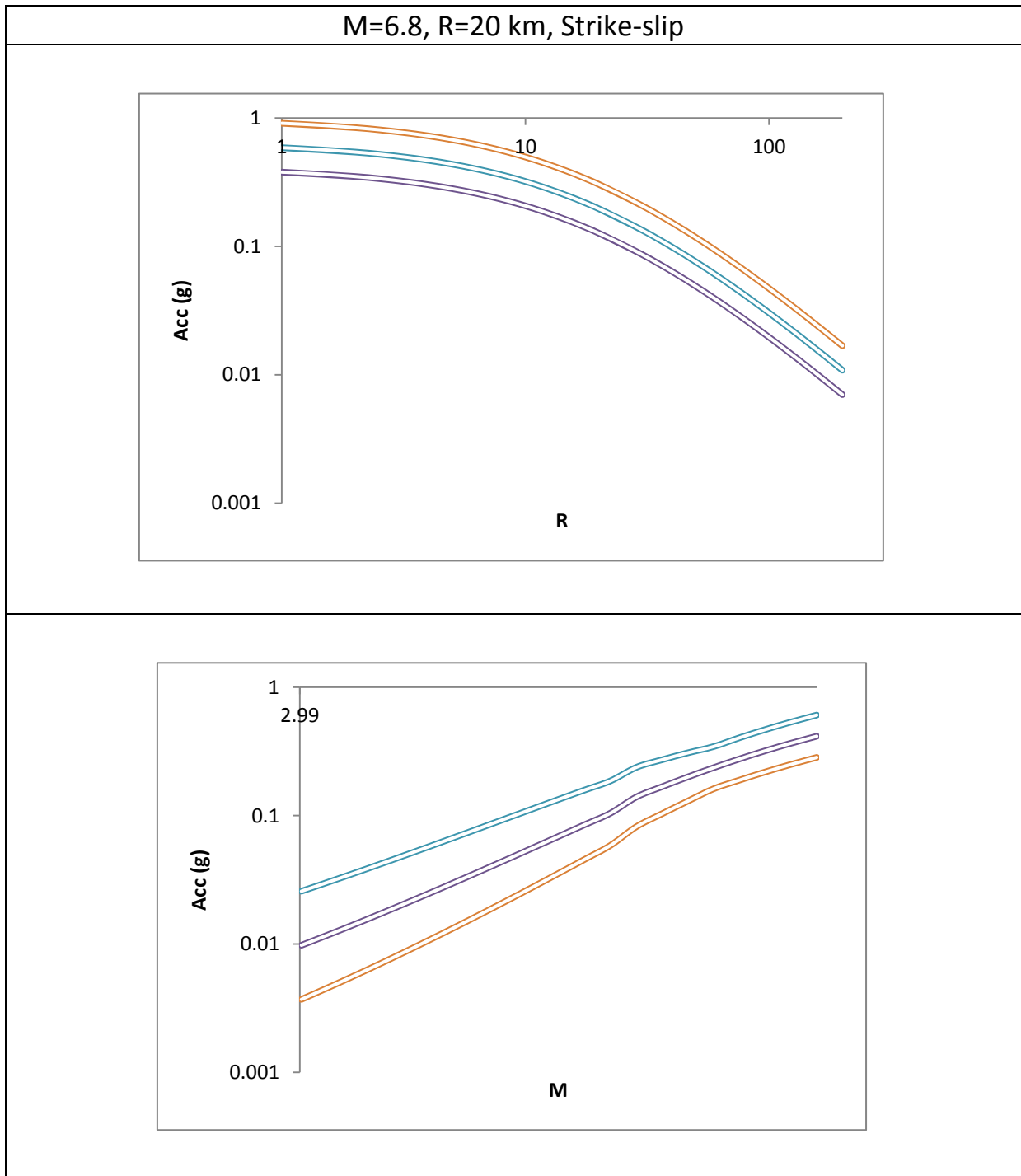
20. Youngs et al. (1988)



21. Chiou & Youngs (2008)



22. Idriss (1993)



SEISMOGRAPH

earthquake engineering software