

9. Why is the peak in figure A stronger than either of the peaks in Figure B? (2 pts.)

Part IV: Altimetry Over Vegetated Surfaces

Refer to the figure on page 4 of the URL to answer the questions in this section.

10. At approximately what two-way travel time value is the ground? By two-way pulse travel time, we mean the time it takes the pulse to travel from the satellite to the ground and back to the satellite again. Explain your answer. (2 pts.)
11. Based on the pulse travel time you identified for the ground, how high above the ground is the satellite? Show your work. (2 pts.)

12. Which area (1, 2, or 3) has the highest trees? How do you know? (2 pts.)
13. Which area (1, 2, or 3) has the smoothest canopy top (i.e. trees closest to the same height)? What is the basis for your answer? (2 pts.)
14. The bottom peak in profile #2 is the smallest (i.e. has the lowest energy), and the bottom peak in profile #1 is the most distinct (i.e. has the highest energy). What does that tell you about the density of the vegetation cover? Give reasons for your answer. (3 pts.)