

EPS 326 Problem set #3 Due October 18

Reading: Taylor Chapter 5

1-12: Problems from Taylor: 3.47, QC5.1, QC5.3, QC5.4, QC5.5, QC5.6, 5.12, 5.19, 5.21, 5.22, 5.35, 5.37

13. Assuming the velocity uncertainty σ_v in the GPS data in handout 30 follows the expected relation $\sigma_v = 2^{1/2} \sigma / T$ plot a curve for the expected uncertainty and estimate σ . Compare this to the values in handout 35.

14. Estimate the mean and standard deviation (using the approximation in problem 5.12) for the SiO_2 and MgO contents of the rocks in handout 31.