

HOMEWORK SET 6

Due October 21, Thursday

- 6.1 Summarize major differences between Mercury, Venus, Earth, and Mars in their atmospheres and surface features, and briefly explain what are the reasons for these differences.
- 6.2 Calculate the mean surface temperature of Venus without greenhouse effect. Compare it with the measured value. From your results, do you think greenhouse effect on Venus is stronger or weaker than on Earth? (b) Suppose that Venus had no atmosphere at all, what would be the consequence to the temperature of the planet?
- 6.3 What is the evidence of past and current presence of water on Mars? What are the major techniques to detect such?
- 6.4-5 Chap 11, Questions 48, 51