

- 4) Every thermometer of the National Weather Service is placed inside a standardized weather shelter that is painted white, provides shade at all times, is ventilated, and is placed two meters above ground level (AGL). See picture to the right. Answer the following questions regarding differences in the daily MAX and MIN temperatures if the thermometer placement is changed as described. Assume clear, calm, cloudless weather for each question.



*Thermometer in a shelter.
(Hakim & Patoux. 2018).*

- a) How would MAX temperature readings change if the thermometer was not placed in the shade?
- b) How would MAX and MIN temperature readings change if the shelter was painted black instead of white?
- c) How would MAX and MIN temperature readings change if the shelter was airtight, not ventilated?
- d) How would MAX and MIN temperature readings change if the shelter was placed only two inches AGL?