

afternoon. Wind from N and moderate in speed. Bill Irving and Joash Tuckle (Jock) left for N end of Schrader Lake. Spent 8 hours on mountain for marmots (see map). There were no marmots seen in areas where I always had seen or heard them. The situation can be explained thus:

1. Marmots do not spend time on rocks when mosquitoes are extremely numerous and are biting, and which is the case today which is the greatest mosquito concentration since I have been in this area. These diptera would drive most any animal into den quarters.

2. The day is warmer than usual and at times windless which may not be suitable for marmot activity. The usual favored atmospheric conditions ^{for marmots} are cool, cloudy days with slight wind.

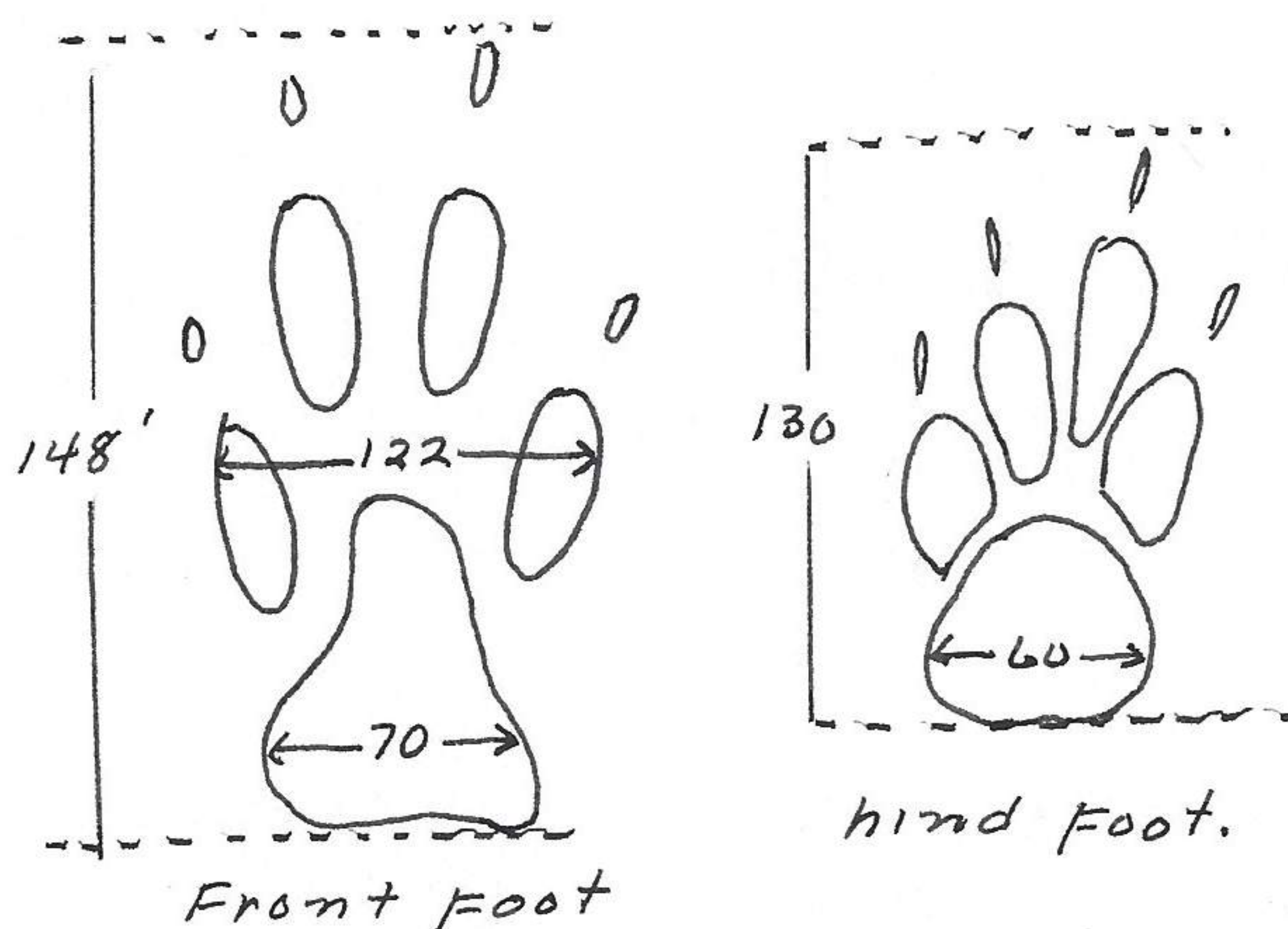
3. Atmospheric pressure preceding unfavorable weather.

4. Continual molestation by man.

The mosquito factor seems most likely as the cause of marmot inactivity. When the first two marmots were collected and placed aside, they were completely covered with mosquitos in about 5 minutes, especially around the eyes and nose. At 4:00 P.M. watched a *Microtus miurus* in shade of west mountains move about like a cony. They are more prone to move about than other microtines in the area. Temp. at midnight 42°F , max. 58°F , min 28°F . for the last 24 hours.

Aug. 8, 1952

Trip up Carnivore Canyon south of Lake Peters to James Robert Glacier, starting at 12:20 P.M. (see 2 maps). At mouth of first major canyon, to top of Mount Mary, found a wolf track in direction of movement of last group of caribou going south up Carnivore Canyon. Most recent wolf tracks going down canyon toward Lake Peters. Measurements of these wolf tracks are: (in mm)



measured water level (highest) above present water level along edge of Carnivore River at 520 mm. All debris consisting of dry plants, fibers and white caribou hair which had been introduced into water during fording of the river by caribou. Creek at 3125 feet elevation muddy and smaller