

behave like chipmunks in that when they have near encounters the rat will abruptly leave if the chipmunk makes a quick movement, chipmunks feed to within contact of hooves of deer. Chipmunks and rats have closest foraging when among rock or other kinds of barriers. The brown rat develops many new holes in dead stumps, among and under rocks and soil. I have never observed them digging or manipulating soils so I presume they are made and maintained by use of runways. Rats may be absent on some days and when feeding are of different numbers and age individuals of the same local group. Full compliment of mule deer this evening. Last Townsend chipmunk and brown rat left feeder at 8:01 P.M. The rats are <sup>insect</sup> diurnal and not nocturnal as found on mainland. I have never observed a brown rat after dark nor have I trapped one at that time. Chipmunks are strictly diurnal.

Aug 23, 1986

- 8:55 A.M. Viking Star to Leo Reef and displaced all harbor seal.  
 9:00 - 9:30 A.M. All four mule deer in one group.  
 10:30 A.M. New adult mule deer ♀ arrived and weary, scar on top shoulder. Smelled fawn at 11 1/2' distance.  
 11:00 A.M. 7 mule deer at feeder Bee House.

Aug. 24, 1986

- Pine siskin struck window.  
 Pileated woodpecker at property S Lund residence on Humphrey Head.  
 12:45 P.M. 42 glaucous-winged gulls Leo Reef included were 3 immatures. Last two week, at least, the glaucous-winged gulls have used Leo Reef as resting place both day and night.  
 12:45 P.M. 12 glaucous-winged gulls on upper slopes Flower Island, 7 on lower slopes. The numbers on Flower <sup>Island</sup> are decreasing and more use Leo Reef.  
 For last 3 weeks 10-50 shorebirds in Swift Lagoon including (today) 6 long-billed dowitcher, 4 lesser yellowlegs, 40 western sandpipers. These were preceded 2 weeks by Bonaparte gulls.  
 860824-1 hornet from Bee House.

Aug. 25, 1986

At daybreak and earlier, Constellation Leo perfectly reflected star by star in sound SE of Bee House. Blakely black well after daybreak, no clouds. First morning winds after daybreak and show effect first on E side sound near Blakely. Fish most act-