

FIELD TRIP 1: AÑO NUEVO STATE RESERVE

Name:

Date:

Documentation: (if you did not attend the field trip with us on 02/24/04)

During our visit, take note of what we observe during our hike. Based on what we should see on this fieldtrip, here are some questions that you should answer and return to Al Uy (no later than two weeks after the field trip - March 9, 2004).

1. Observe the distribution of female elephant seals along the beach. How are females spatially distributed? How do you think this contributes to the evolution of this species' mating system?
2. What do you think are the benefits of this female spatial arrangement? What are the potential costs?
3. Based on the aggressive interactions among male elephant seals, what do you think makes a successful male? How do you think this influences the evolution of male versus female morphology (physical and behavioral attributes)?
4. How do you think mating and reproduction are distributed among individuals (e.g., who gets to mate and reproduce)? Think of the proportion of males that reproduce versus the proportion of females that reproduce. Is it the same? Why or why not?
5. List *all* of the animal species we see today.