

4:15 P.M. 16 cormorant flew N. 4:19 P.M. 21 cormorant and last to leave.
 5:00 P.M. 9 harbor seal Leo Reef. The last hr. was a period of light shower from S.

When a raft of cormorant changes to linear pattern there appears to be fewer birds and should be taken into consideration in estimates.

At 2:35 Leo Rock no 9 is just emerging.

The pelagic cormorant today were spending 10% of their time in active group fishing. The rest of the time was in passive swimming in straight directions. Large groups of cormorants have the advantage of minimizing gull harassment.

Increase gull activity (glaucous-winged gulls) in area of Flower Island.

Did not see pelagic cormorant directly in front of Bee House but those cormorants there were double-crested. At 2:22 P.M. 20♀ and 3♂ Common mergansers alighted in front Bee House (75' out from shore, preened feathers for 4 minutes then left. 2:25 P.M. 23♀ and 4♂ Common mergansers arrived and landed in a long line, without close grouping they left in 5 minutes toward Swift Bay. Neither group attempted diving.

Jan 25, 1992

4:00 P.M. 16 harbor seal and 28 pelagic cormorant on Leo Reef. 4:14 P.M. most pelagic cormorant that feed and rest in area during the day have left (last 1/2 hr.) in groups of 2 to 100 and all flying N, generally forms of single lines with variable distances between birds but coverage 3 feet, all as near to water as possible. One group 3 flew N at approx. 150' high. Flying low has the advantage of immediate underwater escape if attacked from overhead. 4:50 P.M. Last of pelagic cormorants to leave. Those on Leo Reef leave at latest time. I have observed that pelagic cormorants arriving at Leo Reef approach from 3 different techniques 1, glide on water & then climb onto reef, 2, drop onto water and at the same time wing splash on water and glide onto reef. and 3, alight directly on reef.

Earlier at 2:25^{P.M.}, there were 125 cormorant and no harbor seal on Leo Reef.

Jan 28, 1992

Cloudy. at 8:31 A.M. a raft of pelagic cormorants passed S. Bee House by swimming but mainly by raft hopping of rear birds flying over raft and taking up head positions. It took only 1/2 hr. to each end of Swift Bay at which point they turned and headed for Leo Reef out from