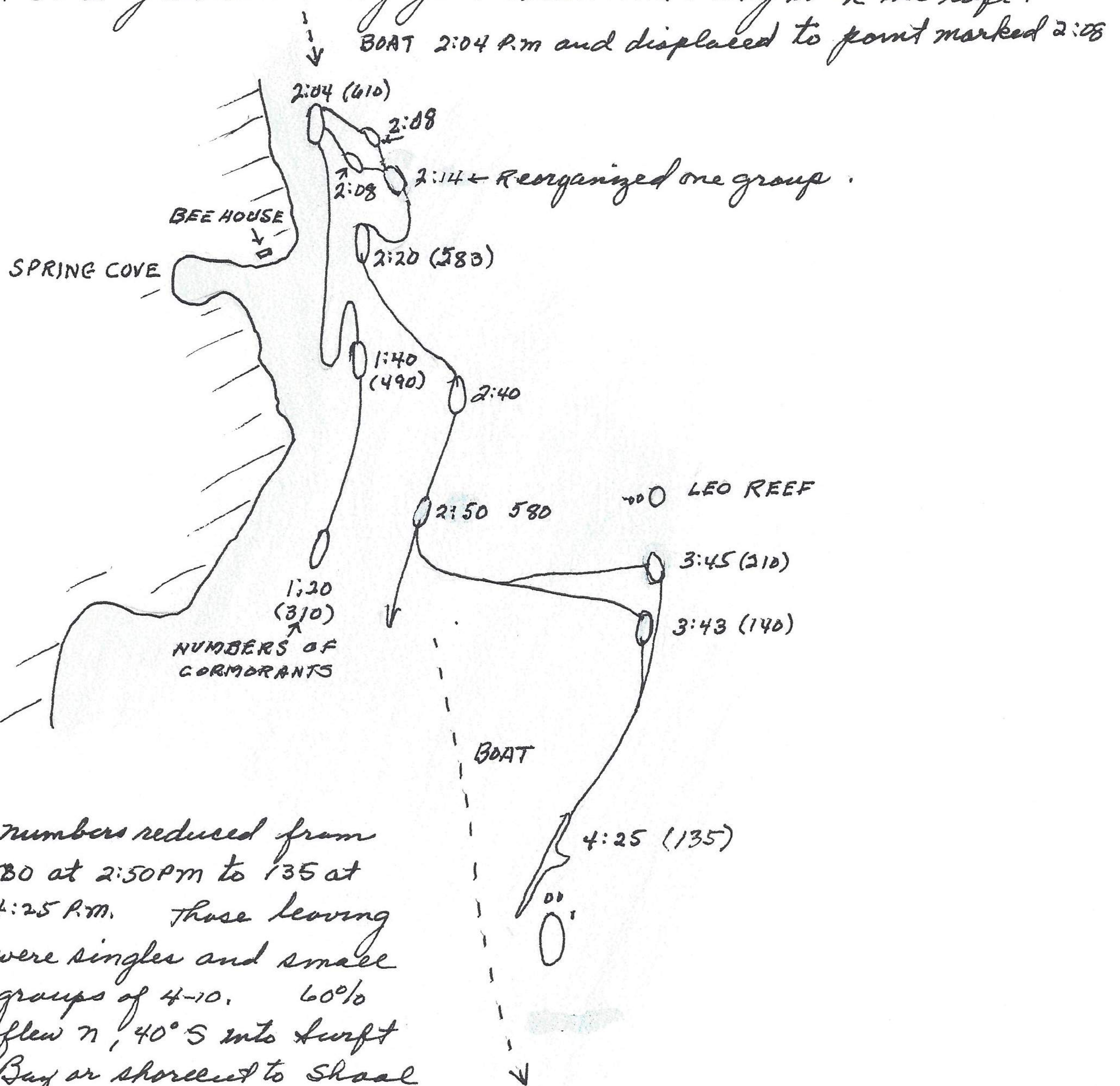


the linear line, finally the long line participated in diving and fishing and after surfacing some 150 from point of diving reorganized into linear formation. Sometimes segments would reform in another area and the rest would gradually swim to the new formation or fly the short distance. no other kinds of birds are associated with the cormorants except 1 or 2 glaucous-winged gulls that swim along with the raft.



numbers reduced from 580 at 2:50 P.M. to 135 at 4:25 P.M. Those leaving were singles and small groups of 4-10. 60% flew N, 40% S into Swift Bay or shorecut to Shoal Bay. At 6:10 P.M. group

18 flew N out of Swift Bay area with lights fading to late twilight. Sky overcast and waters calm all day. Only others in sound area above were 8 mew gulls, 2 glaucous-winged gulls, 1 Pacific Loon and these were not associated with the cormorants except the 2 glaucous-winged gulls. They swam among the cormorants and occasionally were displaced by the cormorants by pecking.