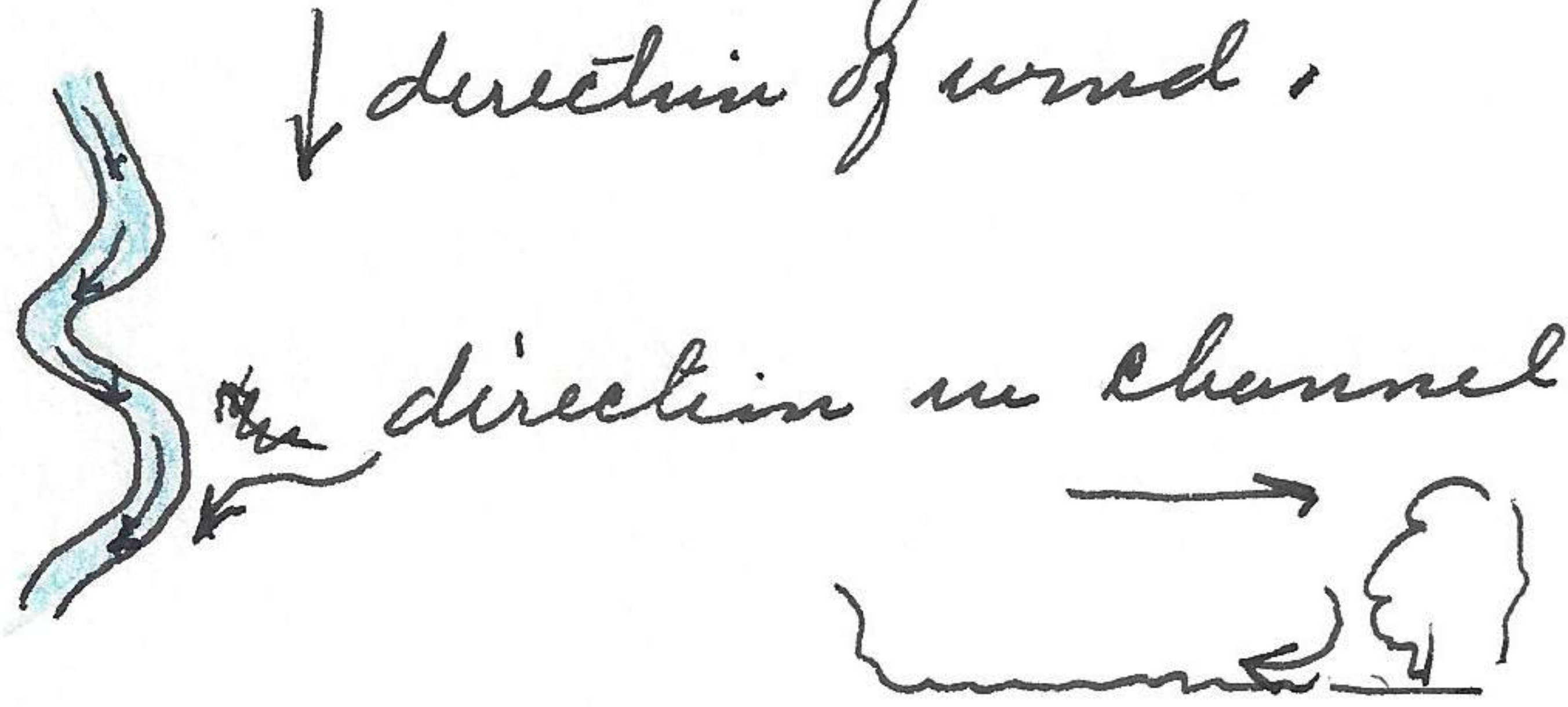


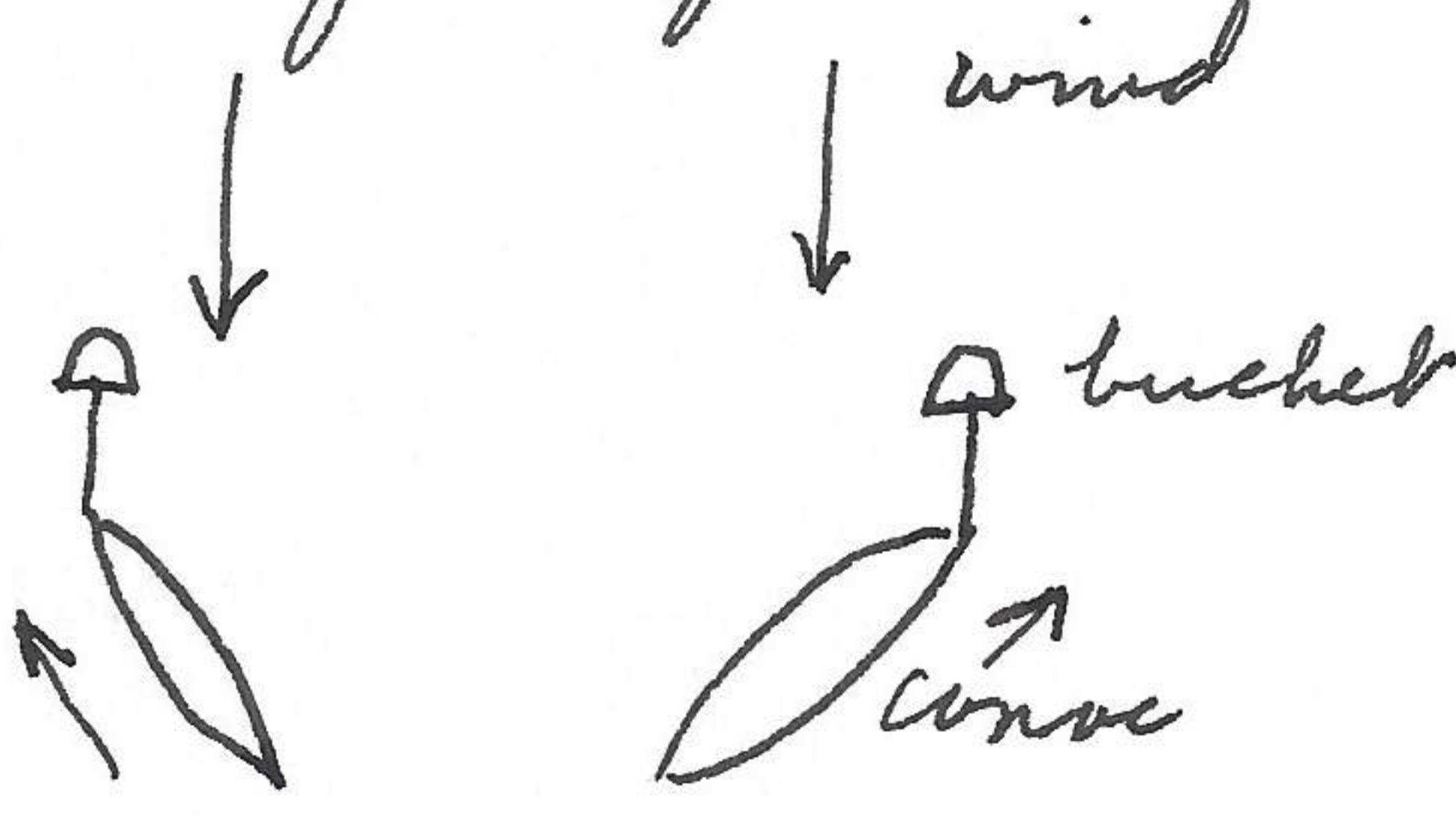
picks it up and blows it up or down the river channel. It is remarkable how the wind is channeled down or up this river, depending on whether from the E or W. Today it was from the E and regardless of the position on the river, with few exceptions the wind seemed to blow against the movement of the canoe.



The trees at edge of river would also reflect or deflect the wind back into the river channel against the main direction of the wind.

12:55 a woodchuck left bank and flew down to a log jam and disappeared from sight. 1:00 mouth of Wakarusa River. 120 4 lesser scaup, 14 greenwing teal, 1 godwail in on group. As they left river and flew by collected 1 ♂ greenwing. 1:30 Checked sandbar. Left 2:00 P.M. 2:25 first bend of large bend to E. 2:42 passing under utility line. 3:10 white sand cliffs. The main E W channel was windy and with waves, but 10 feet bordering shore was with fewer waves. 3:20 along sand cliffs on left side estimated 1 wasp per 200 ft. Temp. 58°F along cliffs where wind is minimized. 3:27 end of sand cliffs and pure sands below stratification. 3:30 first of large cottonwoods and ready to fall into river. 4:00 S end of bend at Arch bridge of R.R. 4:35 first rock barrier and end of sand cliffs. (Deer antlers + jaw, approx 1/10 mile up stream from rock barrier) One been floating with current

and interacting wind drift by dragging a bucket on rope at front of canoe.



If the canoe is taken off direct center of wind and directed to left, the canoe will tack to the left. If to right, will move in that direction. The

combination of the action of the bucket and the wind against the canoe keep it directed to the right or left and will move in that direction.