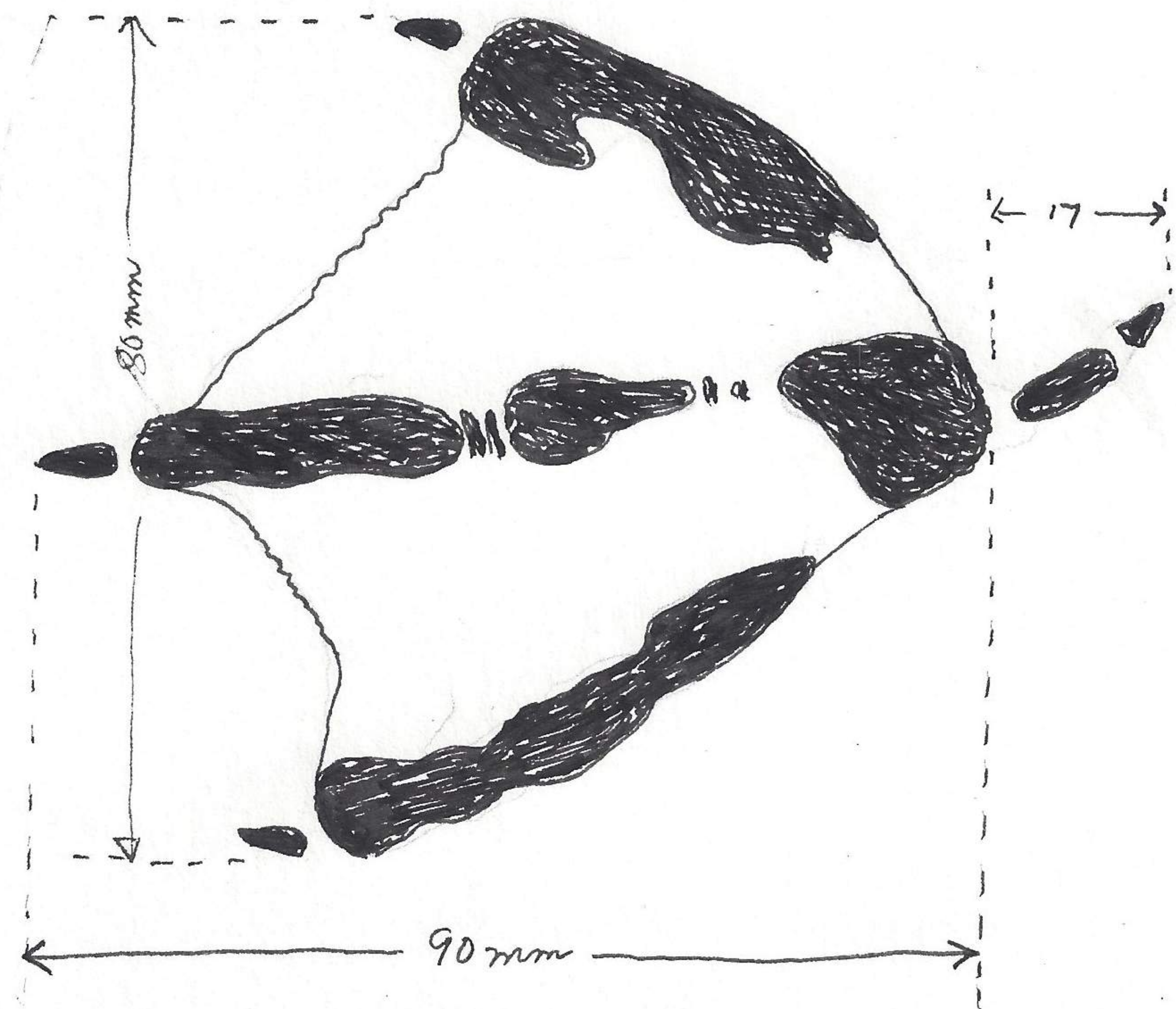


redtail circling above trees. 3 crows flew across river from R to L.  
11:57 double drainage & tree island (this landmark is not an island surrounded by water but an area between the two drainages as they enter the river). 12:01 redtail. 12:20 Eudora. While waiting for Annette to arrive, Chris & I checked small alluvial fans of soils as they encroached on the sands. These could be measured and classified. Cicydellids (tiger beetles) coverage 1 per 3 feet on junction sand & willow)

Annette arrived and we left Eudora bridge at 1:20. 1:30 mouth of Wapakarusa River. 1:35 6 mallards flew up river. 1:50 3 crows after a great horned owl. 2:22 axis of N bend and under utility lines. 2:25 redtail hawk. Birds on bank not included in complete census are: juncos, blue jay, sparrow hawk, meadowlark, redwing, grackle, chickadee, cardinal, goldfinch. The cardinal is unusually scarce this season. 2:50 large log jam on left side river. A spotted sandpiper left the front of this log jam. Continued down left hand channel. This relatively new channel, to S bend, is characterized by swift moving water. 3:00 a large blue goose left bank and swam out into the water about 150' ahead of us.

This bird was collected and measured: total length 670 mm, exposed culmen 56 mm, wing 400 mm, wing spread 1390 mm, tarsus 96 mm, tail 130 mm, weight 4 1/2 lbs. The area of the head between the eye & the bill both above & below was a dirty yellow color. The black stripe of feathers of the dorsal part of neck extended almost to bill on top of head. The left foot imprint measured 107 mm total length. Continued to S bend, arriving at arched R & L bridge at 3:12. 2 red-tails circled above the trees on the N side of the river. They gained altitude and then returned to lower elevations. These redtails are frequently observed in this general area.



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