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## The Eastern Margin of the Hertha in Madison County

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the Cambric onward. In fact there appear to be no less than three grand divisions surpassing greatly in time-span and stratigraphic extent the whole of our Paleozoics. These Montanan terranes of pre-Paleozoic age are even more clearly differentiated than Murchison and Sedgwick resolved the old Transition Class into distinctive units.

Precambrian, then, now belongs to the same category of purposeless terminology as does the catch-'em-all title Transition Class, and like the latter its use in any taxonomic sense may as well be discontinued, lost, and forgotten.

DES MOINES, IOWA.

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### THE EASTERN MARGIN OF THE HERTHA IN MADISON COUNTY

ARTHUR GOSHORN

Evidence was presented that The Hertha extends further east than has heretofore been reported.

WINTERSET, IOWA.

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### RECESSIONAL STAGES BETWEEN THE ALTAMONT AND THE GARY (?) MORAINES IN IOWA

JOHN E. SMITH

Immediately following the time that the Altamont moraine was formed there was an intermittent retreat of the Wisconsin ice sheet to the position of the Gary (?) about fifty miles north-northwest of Des Moines. In Story county the distance between these moraines decreases to about thirty miles and northward from Story county it becomes as small as twenty miles in some places.

Between the Altamont and Gary (?) moraines there are about twenty small recessional ones spaced with some degree of uniformity about one to two miles apart in Story county. They are less widely separated northward and more widely separated in a south-westerly direction. On the south and west borders of the Wisconsin area, the moraines formed during halts are not so prominent as on the eastern margin.

The small recessional moraines consist of low ridges varying in height and in width. They appear as broad low swells in some places and can be distinguished only with difficulty in others. In