

soon becomes convinced that the ocean has partially covered and more or less remodeled them. In certain places there are patches of stratified sand interposed between masses of glacial drift-deposit; elsewhere, banks of sand and pebbles crown the irregularities of the glacial deposit, or fill in its depressions; in other localities the glacial pebbles may be washed and completely cleared of mud, retaining, however, their markings; or again, these markings may have disappeared, and the material is arranged in lines or ramparts, as it were, of diverse conformation, in which Mr. Desor recognized all the modifications of the "œsars" of Scandinavia. The disposition of the œsars, as seen here, is evidently due entirely to the action of the waves, and their frequency along the coast is a proof of this. In a late excursion with Captain Davis on board a government vessel I learned to understand the mode of formation of the submarine dikes bordering the coast at various distances, which would be œsars were they elevated; with the aid of the dredge I satisfied myself of their identity. With these facts before me I cannot doubt that the œsars of the United States consist essentially of glacial material remodeled by the sea; while