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The Sedimentary Characteristics and Environmental Significance of Saline Lake Shore in North Tibetan Plateau

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Introduction

Through the study of environmental change indicators：landform, strata sedimentary characteristics, mineralogy characteristics and Grain-size, magnetic susceptibility analysis for 3101 cm height profile of Dogai Coring salt lake shore in the northern of Tibet plateau, the conclusion is roughly obtained about six major climate change process: climate fluctuation is bigger in 233.3kaB.P.-213.6kaB.P., the overall trend of tending to the warm and wet climate, appearing a cold and dry climate during the period of time, then climate warming gradually; In 213.6 kaB.P.-195.2 kaB.P., relatively stable overall change, climate fell slightly, but appearing a larger relative cold and dry climate during the process; The overall climate change between 195.2 kaB.P.-170 kaB.P. tends to become cold, there are

Fig.1 Study profile location

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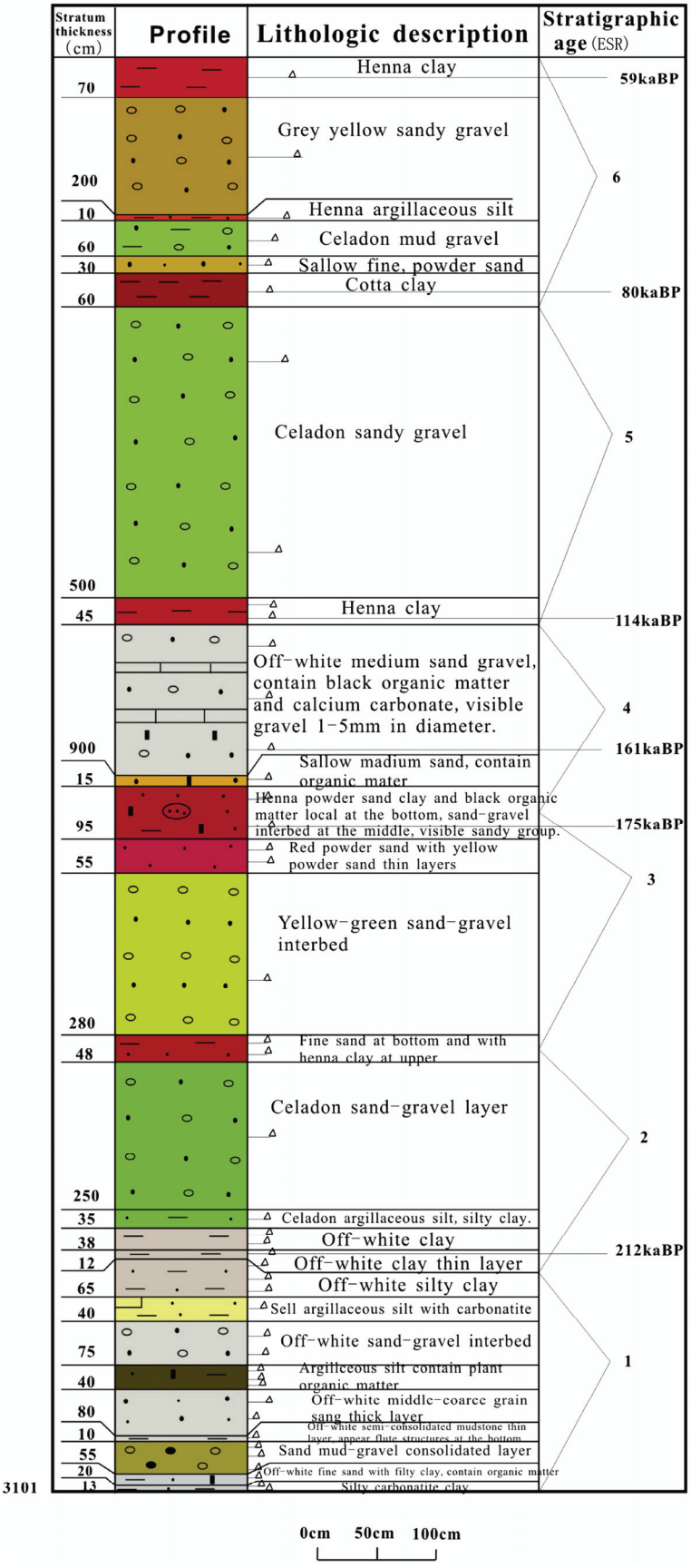

Fig.2 Saline lake shore section in Dogai Coring of Tibet grain size; magnetic susceptibility.

two obvious warm and wet climate process; In 170 kaB.P.-117.1 kaB.P. climate become clear hot and humid; In 117.1 kaB.P.-75.6 kaB.P. climate trends obviously decrease; In 75.6 kaB.P.-56.7 kaB.P. climate condition obvious rise to hot and humid. Above all of the climate variation rule and ancient climate change regularity recorded in the Guriya ice core and the deep sea oxygen isotope have a better consistency.

Key words: Dogai Coring saline lake; Sedimentary characteristics; Climate change; Climatic vacillation;