



Ice Caps in Central Mountains of IRAN-SAKHVID Basin in the past time

S.A. Almodaresi (1), M.H. Ramesht (2) M.H. Mobin (3)

(1,2)Department of Geography, University of Isfahan, IRAN, (3)Department of Natural Resources, Yazd, IRAN, (Almodaresi@geog.ui.ac.ir / Fax:+98 351 8211109)

Abstract:

The nature of different forms and outside functions of the earth basically depend on the environmental conditions ruling the particular region in a given period.

There for the effects and the evidence for environmental changes from the fourth period the most important of which the remains of that period , have created considerable and very special verity in geomorphological studies and with taking these into consideration ,one can recons tract the environmental evidence.

Although ice-caps studies has been attributed to BOBEK's studies in 1933 but some great Iranian researchers especially ,in the past decade have worked on stronger empirical researches and reached greater achievements concerning the fourth period environmental conditions of Iran . in the present study which considers the water basin sakhvid located 80 KM south west of yazd it has tried to carefully study the obtained data , climate, geology, hydrology, geomorphology, environment ,economic, cultural and sociological characteristics and specifically the local knowledge of sakhvid region the mutual impacts and functional characteristics utilizing the most up-to-date soft wares namely Arcview GIS. It has also been tried to overcome the difficulties scaling the scan maps and fitting their coordinates in the said soft wares and also Surfer software to do the relevant manipulations in order to eventually obtain a method and a working pattern for a sustainable development.

In comparative studies of this research for the first time the evidence for the existence of ice-caps in sunny valleys of SHIR-KUH mountain with a large ice cap in the fourth period using the Write's(1963) method has been established. The beginning of civ-

ilization from the lowest zero line in six cold months of the year is very similar to Zefrah region in Isfahan.

Key word: ice cap, ice sheet, ice and water balance, zero