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A study on the temporal- spatial chances for precipitation enhancement in Yazd province

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Abstract

Limitation of water resources is one of the major obstacles of sustainable development in arid and semi-arid zones specially in central Iran and Yazd province. In order to challenge this problem, precipitation enhancement projects through cloud seeding are considered one of the modern methods in this respect.

In order to perform these projects, a series of scientific researches which realize the conditions of different areas so as to do the precipitation enhancement projects successfully should be done. Study and evaluation of precipitation regime is one of the most necessary factors in suitable site selection for cloud seeding.

In this research, in order to study the temporal- spatial chances for PEP, some of the climatological characteristics of precipitation have been analysed. For this purpose, using 42 meteorological stations of 20 years (1981-2000) necessary data, first we have studied the spatial distribution of precipitation through drawing the isohyt maps, and then the following issues have been analysed: the temporal distribution, the different quantitative groups of precipitation, the mean occurrence frequency of

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successive rainy days and the number of precipitation days for each station and province.

Finally, after analysing of results, the fittest tomporal and spatial interval for PEP performance in Yazd province have been recommended.

KeyWords: Yazd Province, Precipitation Enhancement, Temporal-Spatial Chances, Cloud Seeding, Site Selection.

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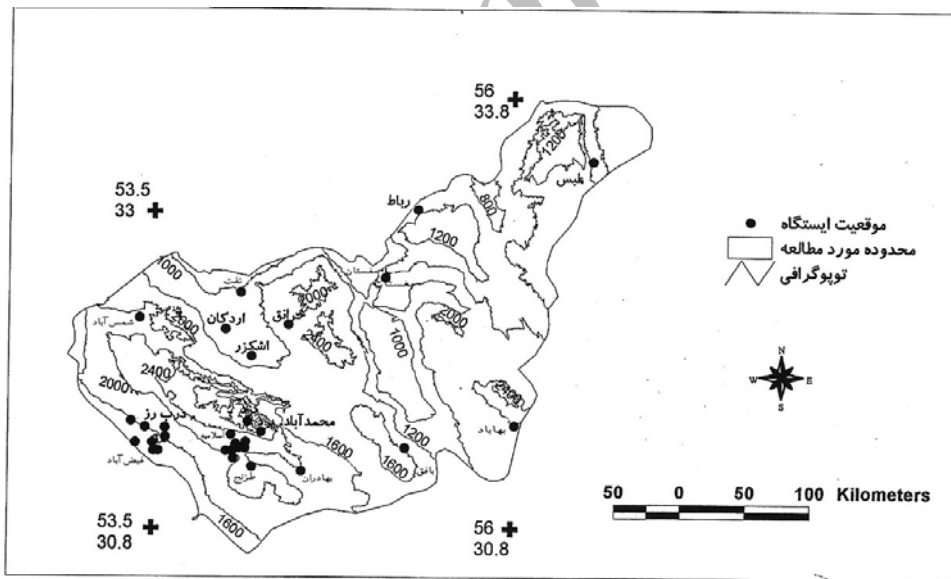
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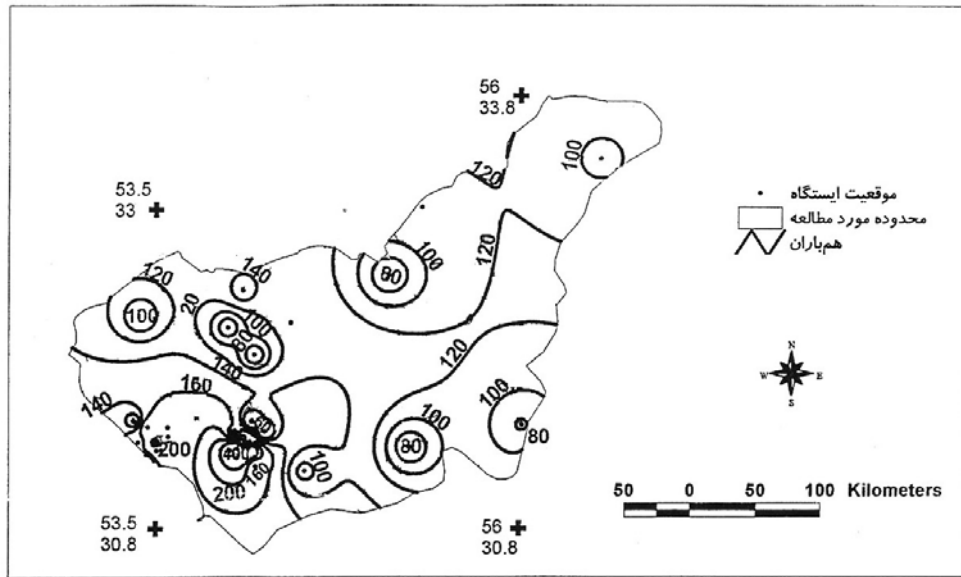
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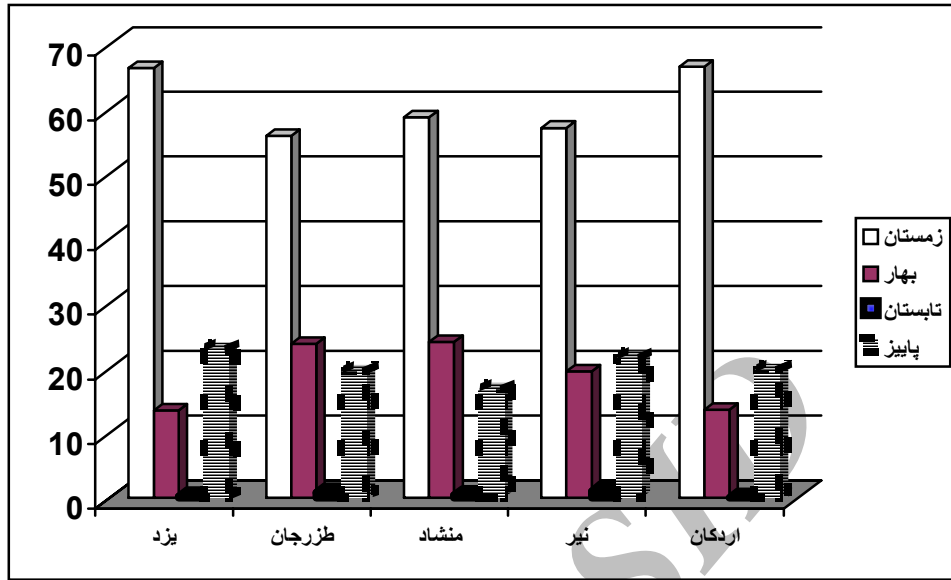
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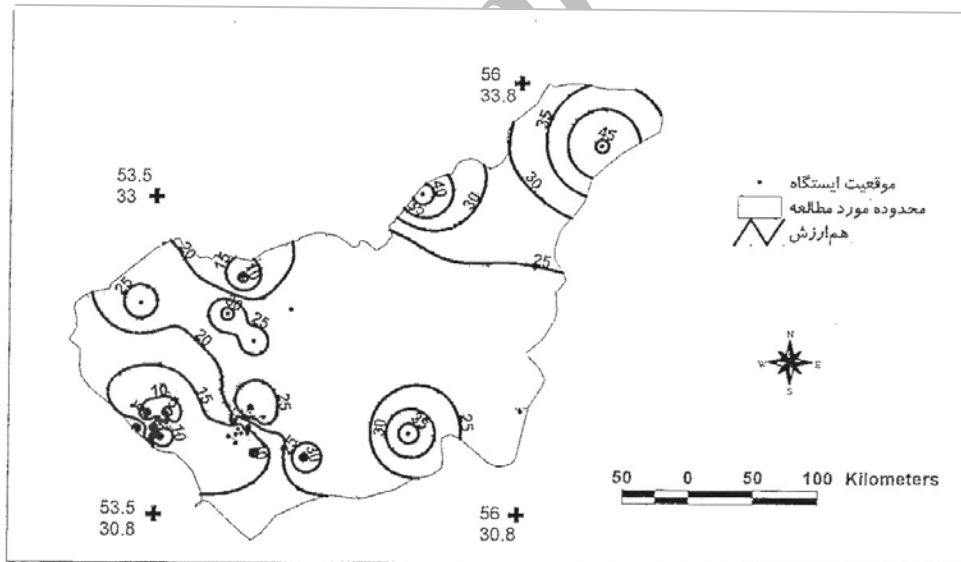
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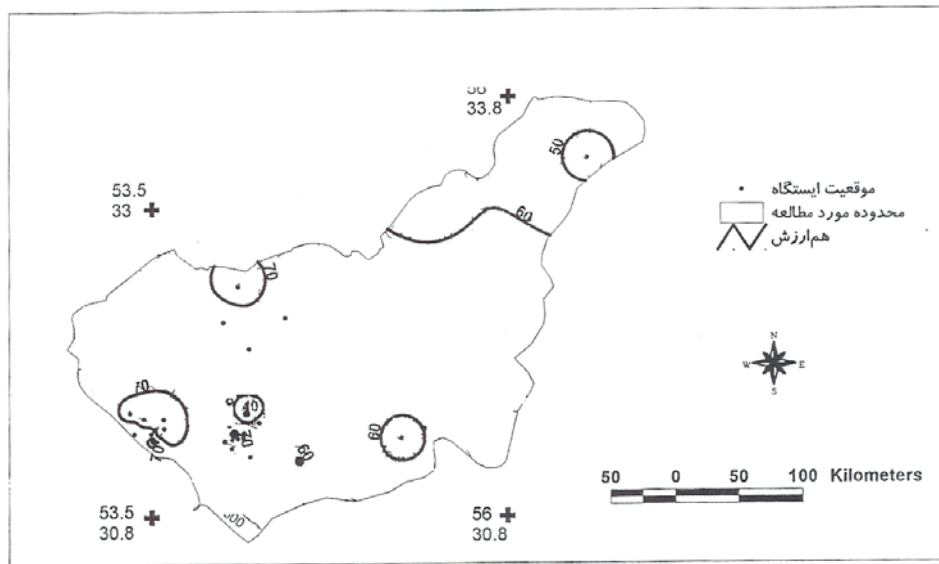
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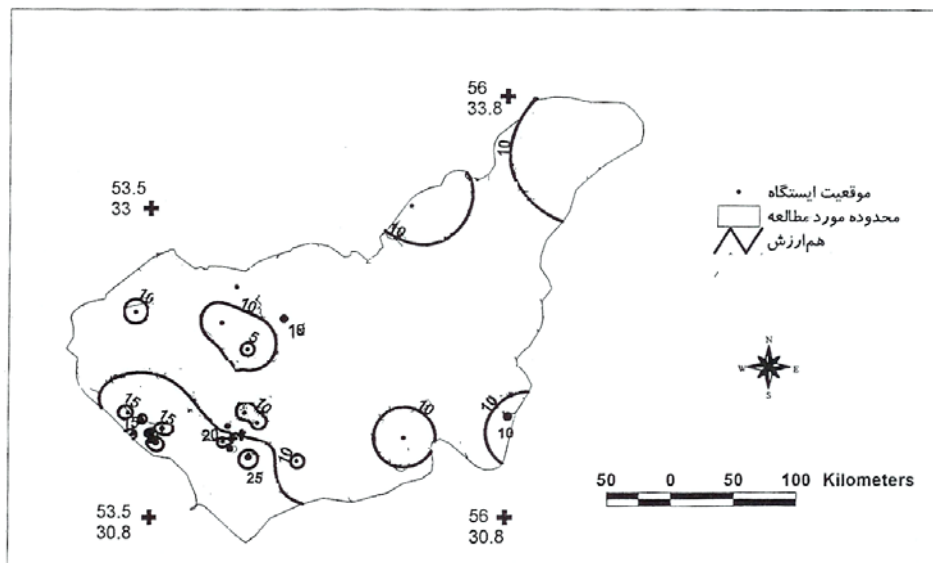
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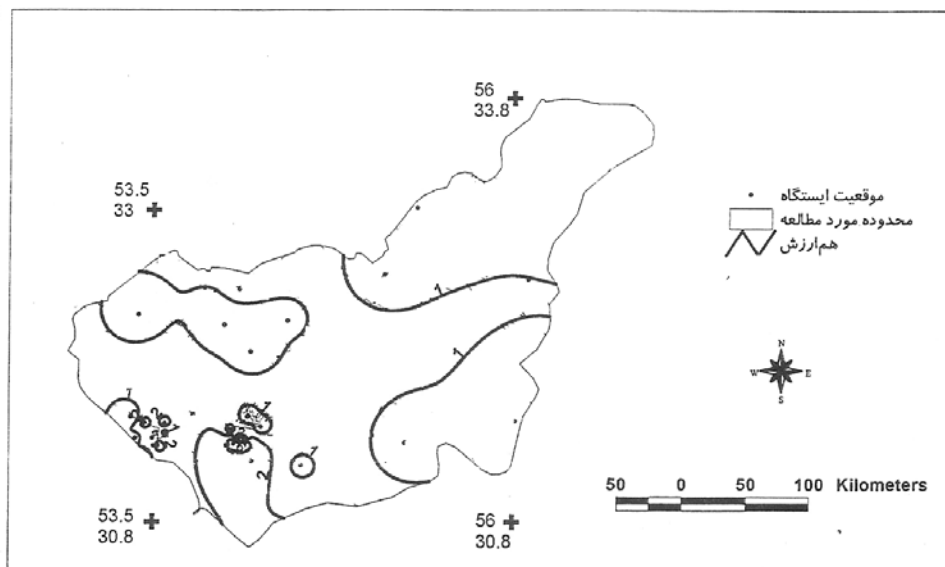


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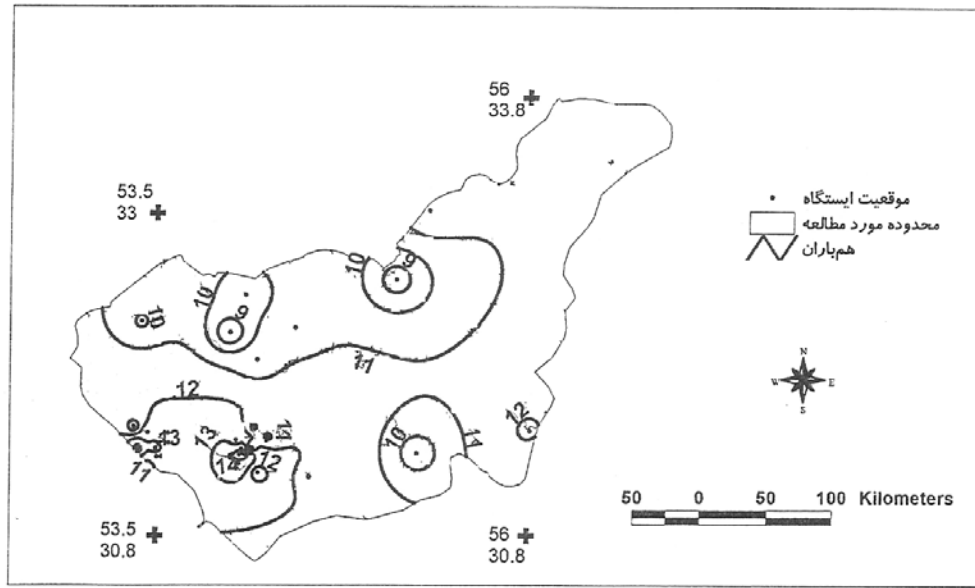


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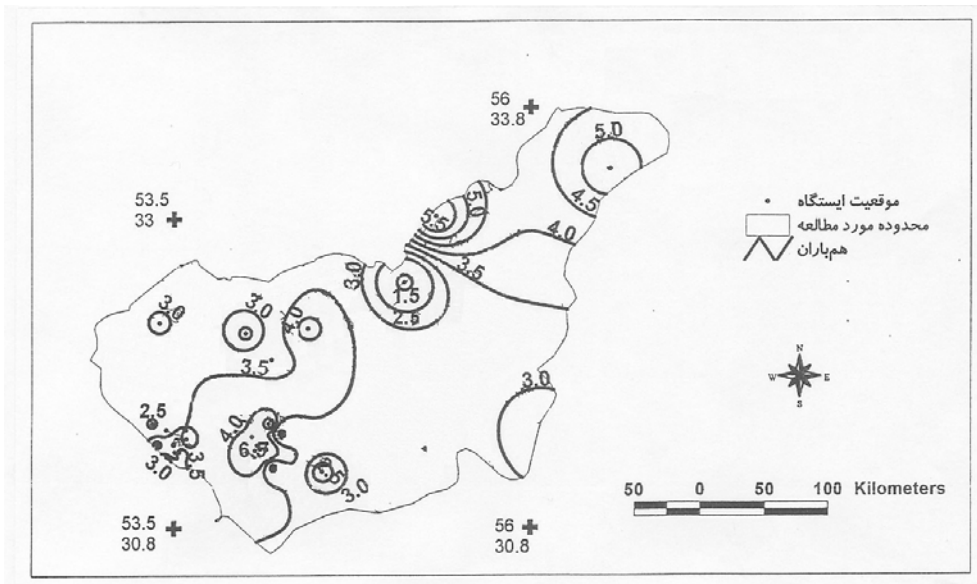
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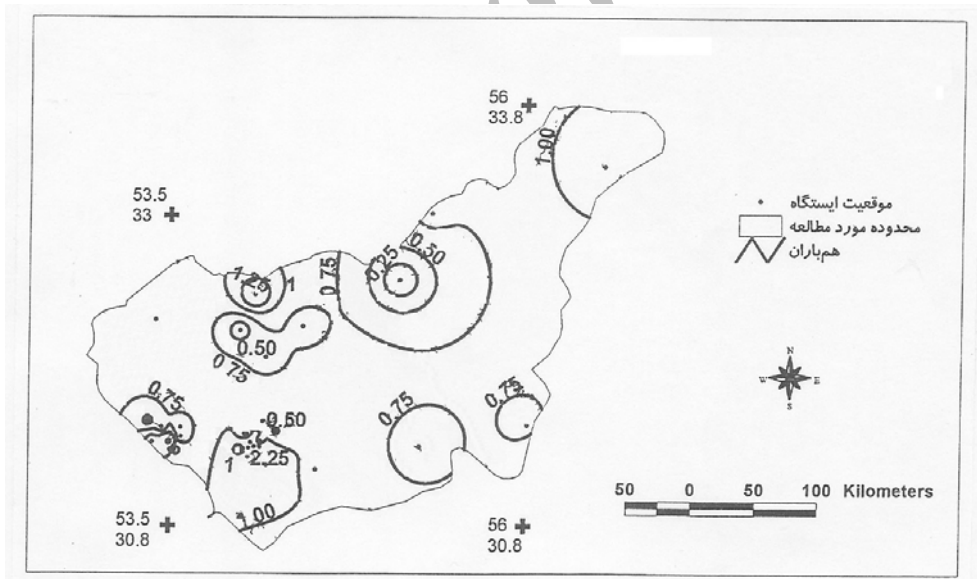
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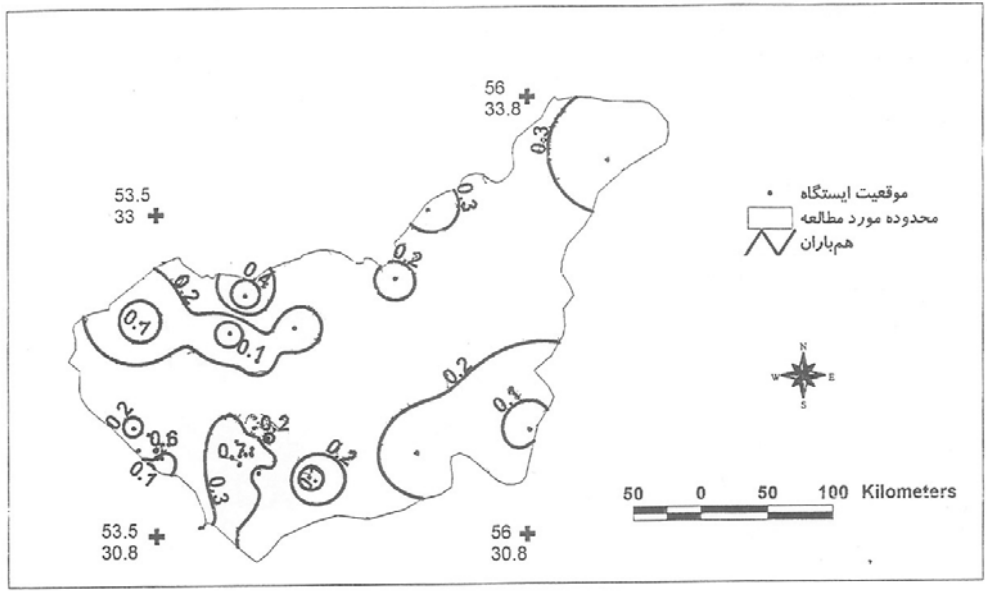
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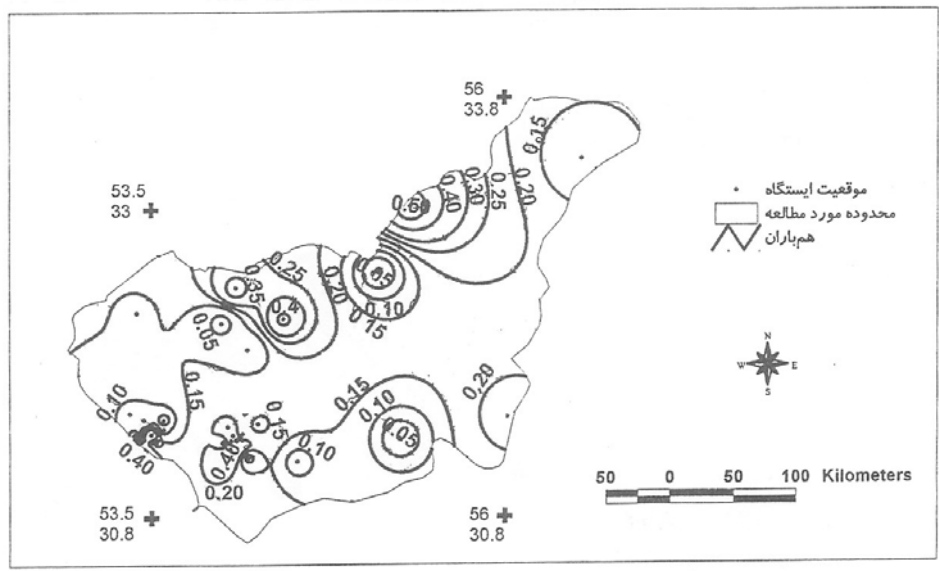


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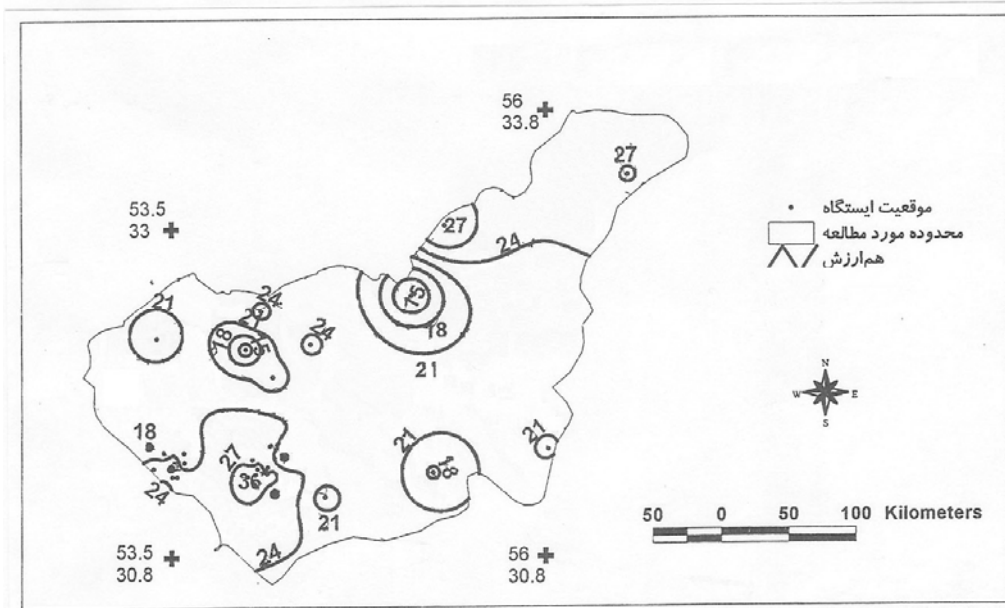
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