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后生物生产层

基于ArcGIS的天祝草地综合顺序分类研究

徐吉宏，柳小妮，张德罡，徐吉伟

摘要：

根据天祝县1961-1990年30年的降水和气温资料，将草地综合顺序分类系统（COSGC）的分类指标＞0℃年积温和湿润度，利用ArcGIS软件，分别采用IDW、Spline、Kriging、Natural Neighbor插值方法进行空间插值，并将生成的天祝草地综合顺序分类图与天祝县遥感影像植被分布图进行植被景观类型对照，结果表明，＞0℃年积温用Natural Neighbor、湿润度用Kriging插值，生成的天祝县草地综合顺序分类图，更趋于实际。

关键词： 天祝县；草地综合顺序分类；空间插值

The comprehensive and ordered scheme of grassland classification in Tianzhu based on ArcGIS

XU Ji hong, LIU Xiao ni, ZHANG De gang, XU Ji wei

Abstract:

Based on data obtained from the annual precipitation and temperature at Tianzhu County during past 30 years from 1961 to 1990, the IDW, Spline, Kriging and Natural Neighbor methods in ArcGIS software package were used for generating spatial interpolation and overlay analysis of the classification indices of annual accumulated temperature >0℃（Σθ） and humidity （K） in accordance with the standard of the comprehensive and ordered scheme of grassland classification (COSGC)，respectively. Nine distribution images of grassland types at Tianzhu were regenerated. The results of this study indicated that the comprehensive and ordered scheme of grassland classification images generated by using the Σθ interpolated by Natural Neighbor and K by Kriging methods were more similar with the real situation at Tianzhu based on comparison of the vegetation landscape types between the comprehensive and ordered scheme of grassland classification images and the remote sensing vegetation classification images.

Keywords: Tianzhu County； the comprehensive and ordered scheme of grassland classification spatial interpolation

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作者Email:

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