Subject: the AVHRR NDVI data series analysis
Posted by bing hu on Sun, 30 Oct 2005 14:01:21 GMT
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the 19 years AVHRR NDVI data have been combined one binary data, which have three dimension,
1th dimension: longitude
2th dimension: latitude
3th dimension: the 36 periods ndvi value over 19years

ndvi=(1024,1024,684)

though analyzing the third dimension's data to determine the beginning of the growing season(BGS) and the ending of the growing season(EGS).thus ,we can determine the growing length during a total year.(36 periods)

I'd have to find the maximum and minimum of pixel value during the 36 periods over the 684 images (684=19years*36period). Each 36 periods have one maximum and two minimum.(from the ndvi curve,the first minimum means the beginning of spring and the maximum means the summer,the second minimum means the beginning of fall.)

Then I need to calculate the average of the maximum and minimum value over the 36 periods.

Finally, determining the index of the average over the 36 periods through the 684 images.
How to do it?

I do not want to use loop.