Subject: Re: intersection of two tracks(lat,lon)
Posted by Kenneth P. Bowman on Thu, 17 Feb 2011 15:11:24 GMT
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In article <ijilrq$t4g$1@news-a.stw-bonn.de>,
Kai Muehlbauer <kai.muehlbauer@uni-bonn.de> wrote:

> Unfortunately, this is only for X,Y-space. What can I do, if the 3rd
> dimension (height) should also be processed?

In 3-D the tracks will probably never actually intercept. You will have to look for minima in the separation between the tracks.

I suggest you do a brute force solution and find the distance between all pairs of points. It is of order n1 x n2, where n1 and n2 are the number of points in each track.

Then sort the results. You might need to provide some human input into the problem, in case there are multiple local minima. If there is only a single intersection, it should appear as the global minimum.

Ken Bowman