
Subject: TRIGRID co-linearity problem

Posted by [Christopher Davey](#) on Tue, 08 May 2001 19:26:33 GMT

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I am trying to produce simple contour plots of temperatures from a regional network of temperature observations. This should be a simple problem: taking a grid of irregularly spaced data and interpolating it to a regular grid. I have used the spherical triangulation option.

The triangulation() procedure works just fine, but in my call to `trigrd( )`, I get an error that I cannot figure out: "Points are co-linear, no solution." The source data is good. I have checked and re-checked that my calls to `trigrd( )` all have the correct syntax, argument order, etc., so the code looks okay. I think one of the archived messages I saw said something about a "great circle" problem as a possibility for this error, but I didn't understand what was meant by that. Is there anyone that might be able to clarify to me what is causing this error, and how I can get around it? Any good references that discuss this problem?

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