
Subject: Re: Calculating area of latitude-longitude quadrangle?

Posted by [Maxwell Peck](#) on Wed, 24 Aug 2011 07:54:59 GMT

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On Aug 24, 4:52 am, Ashley Berg <ashley.b...@gmail.com> wrote:

- > Is there any way to calculate the area of a latitude-longitude
- > quadrangle in IDL, or some formula I could use?
- > MATLAB can (using areaquad from the Mapping Toolbox, which can return
- > surface area in km² of a lat/lon box covering a part of Earth) but I
- > do not have access to MATLAB.

When I had to do something similar in Excel (don't ask!) I broke it up into two triangles, found the internal angles (google Aviation Formulas) and used Girard's theorem to find the area of each triangle and added them together.

Max
