
Subject: Re: Newbie needs help...

Posted by [Paul van Delst](#) on Thu, 11 Jan 2001 14:45:04 GMT

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Bruce Bowler wrote:

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>
> David Fanning wrote:
>>
>> Bruce Bowler (bbowler@bigelow.org) writes:
>>
>>> I'm willing to try this "thinking outside the box" thing for a while,
>>> but I can't see the box.
>>
>> There is no box. (But see more on spiritual development, below.)
>
> Then what did I trip over last night on my way to the
> toil<del><del><del><del>reading room?
>
> Fortunately, I think I landed on the outside, and I didn't hurt
> myself...
>
> As I hit the ground, I realized that displaying the data and extracting
> the data value at some lat/lon are 2 entirely different processes. I
> can use Liam's image_map to display it and came up with clever (but as
> yet untested) way to extract the data.
>
> Given a target lat/lon and BHAlat and BHAlon, how about (in pseudo-code)
>
>     possiblelats = where(BHAlat eq lat{+/- some epsilon})
>     possiblelons = where(BHAlon eq lon{+/- some epsilon})
>     possiblevalues = intersection(possiblelats,possiblelons)
>
>     if number of possiblevalues is between 1 and 10, printout the data
>     otherwise adjust epsilon either up or down and try again.
>
> Does that sound like it ought to work (and in some time less than a
> glacial epoch) ?
>
> Bruce
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It seems to me that the problem is one where the transformation from array lat/lon to map lat/lon (for viewing as a contiguous eye-candy type of image) is linear, but the reverse is decidedly non-linear. Your nearest neighbour search above seems like a workable solution since your referencing the original lat/lon array.

paulv

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Paul van Delst A little learning is a dangerous thing;
CIMSS @ NOAA/NCEP Drink deep, or taste not the Pierian spring;
Ph: (301) 763-8000 x7274 There shallow draughts intoxicate the brain,
Fax: (301) 763-8545 And drinking largely sobers us again.
Email: pvandelst@ncep.noaa.gov Alexander Pope.
