
Subject: Re: Given many images, find bounding box

Posted by [hhpt](#) on Fri, 05 Nov 1999 08:00:00 GMT

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Hi Dick,

Well, this is not correct, for example, if I have only one patch,
the upper left hand corner has the coordinate (1,10) (lon, lat) and the
box has lon_size = 6 and lat_size = 8

then the expected answer should be:

left = 1
right 7
top = 10
bottom = 2

but using your formula the answers would be:

left = 1
right 6
top = 10
bottom = 3

Also, it will be nice some how if it could take care of the +/- degrees
too..... seems tricky....

-- Herbert

> This is pretty straightforward, but I have to make a few assumptions:

>

> - you have four arrays (lat, lon, rows, cols) containing values

> for each of your patches

> - all four are measured in pixels

> - 'lat' increases as you go up, 'lon' increases as you go to the right

> (no wrapping at lat +/- 90 or lon +/- 180 here, do you need that?

> My, that would be interesting...)

> - you want the *smallest* bounding box that contains the patches

>

> Then the four edges of that bounding box are:

>

> left = Min(lon)

> top = Max(lat)

> right = Max(lon + cols - 1)

> bottom = Min(lat - rows + 1)

>

> Hope this helps!

>

> Cheers,

> -Dick

>

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