
Subject: Re: how to draw streamline

Posted by [wfzhao](#) on Mon, 17 Mar 2008 05:22:24 GMT

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> On Mar 7, 7:55 am, "Kenneth P. Bowman" <k-bow...@null.edu> wrote:
>
>
>
>
>
>
>> In article
>> <92bef8cb-bd54-48b7-b54c-2ff9f4f75...@s8g2000prg.googlegroups .com >,
>
>> wenfang_z...@hotmail.com wrote:
>>> Hi,all
>>> I want to draw the wind streamline map,and I try many methods
>>> described in the forum, but some are wind vectors not the streamline,
>>> which is the serial contour line with arrow on the contour plot.
>
>>> some one ever mentioned that there was a script sample on the web site
>>> <http://www.metvis.com.au/idl/>
>>> but i can't get access to it.
>
>>> so if there anybody who can load that web site and give a copy of both
>>> the script and the streamline image for me?
>
>>> I will appreciate your help!
>
>>> wenfang
>
>> Here is a sample code to plot 2-D streamlines using VEL.
>
>> By default VEL chooses the initial points randomly, but the
>> source code is available if you want to change that.
>
>> Ken Bowman
>
>> PRO STREAMLINE_DEMO
>
>> n = 50
>> x = FINDGEN(n)/(n-1)
>> y = FINDGEN(n)/(n-1)
>
>> xx = REBIN(x, n, n)
>> yy = REBIN(REFORM(y, 1, n), n, n)
>
>> u = -SIN(!PI*xx)*COS(!PI*yy)

```
>> v = COS(!PI*xx)*SIN(!PI*yy)
>
>> VEL, u, v, NVECS = 100, NSTEPS = 100, length = 0.5
>
>> END
>
> Following on from Ken's example, you might also try,
>
> iVector, u, v, x, y, /STREAMLINES, STREAMLINE_NSTEPS=25
>
> -Chris
>
```

thanks for all response from you.

now I am a little confused, what kind of line can be called as wind streamline?

what I want is the consecutive line with arrow, something like the contour plot line with arrow, not the small lines with arrow, I don't know how to describe it more clear? I have a sample image of wind streamline, which is what I want, but how I can put it on the forum so all of you can have a look and understand what I mean.

I have another question, when drawing a wind streamline, so the speed of X,Y direction will decide the final appearance of wind streamline?

I mean, if wind is strong, so the result will be the contour plot line with arrow(long streamline,consecutive), otherwise, the result will be the discrete lines with arrow(shorted streamline, like what is draw by the VEL procedure)?

wenfang
