
Subject: Re: how to draw streamline

Posted by [wfzhao](#) on Tue, 18 Mar 2008 06:56:06 GMT

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> On Mar 17, 3:52 pm, mankoff <mank...@gmail.com> wrote:

>

>

>

>

>

>> On Mar 17, 10:27 am, "mgal...@gmail.com" <mgal...@gmail.com> wrote:

>

>>> On Mar 16, 11:22 pm, wfz...@bjmb.gov.cn wrote:

>

>

>>>> > 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 think you are talking about OSTR (image-guided streamlines) in this
>>> diagram:
>
>>> http://michaelgalloy.com/wp-content/uploads/2008/03/flow.png
>
>>> I have thought about making implementations of some of the
>>> visualizations in that diagram. I have a (very slow) implementation
>>> for LIC:
>
>>> http://michaelgalloy.com/2007/12/09/lic-flow-code.html
>
>>> Mike
>>> --www.michaelgalloy.com
>>> Tech-X Corporation
>>> Software Developer II
>

```

>> Are all 6 images the same data? It looks like it, but it really shows
>> some of the limitations of a simple vector field graphic... Wow.
>
> Yes, all six images are from the same data. And yes, I think the
> standard grid of vectors is not very useful.
>
> Mike
> --www.michaelgalloy.com
> Tech-X Corporation

>

thanks for you response.

I think OSTR and GSTR are what I need.

and I download the source code from your web site named mg_lic.pro and
run in IDL, but it causes my cpu 100% and my computer crash down. so
may I use it correctly or I can adjust some parameter to decrease the
data?

for the first gird, I already do it successfully on the countour
plot, which means to overplot wind grid arrow on the contour plot map.

wenfang
