## Subject: Re: how to draw streamline Posted by Michael Galloy on Mon, 17 Mar 2008 22:31:52 GMT View Forum Message <> Reply to Message

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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)
```

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>
>>>> u = -SIN(!PI*xx)*COS(!PI*yy)
>>>> v = COS(!PI*xx)*SIN(!PI*yy)
>>> > VEL, u, v, NVECS = 100, NSTEPS = 100, length = 0.5
>>>> 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 litttle comfused, 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

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