Subject: Re: Streamlines with IDL?
Posted by todd on Mon, 17 Oct 1994 22:34:33 GMT
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In article <Cxu2LL.8C4@ngdc.noaa.gov>, tmg@etl.noaa.gov (Tom Georges) writes:

- |> Does anyone know where we could find an IDL program that would
- > create streamlines from a velocity field? By "streamlines", we
- |> mean: continuous lines that are everywhere parallel to the
- |> flow field. The "streamlines" that are mentioned in RSI's IDL
- > documentation are plots of arrows that indicate direction at
- |> discrete points in the field. We are interested in *continuous*

l> lines.

|>

> Thanks in advance for your help.

|> |>

|> _ /| Tom Georges tmg@etl.noaa.gov |> \'o.O' NOAA Environmental Technology Laboratory

|> (0.0 NOAA Environmental reclinology Laboratory |> =(___)= Boulder, Colorado 80303 (303) 497-6437

Since you have the two components of velocity, can't you just calculate the stream function and then contour that?

todd

Subject: Re: Streamlines with IDL?

Posted by tmg on Tue, 18 Oct 1994 14:25:53 GMT

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In article <37uu5q\$cn7@news.mic.ucla.edu>, todd@artemis.ess.ucla.edu (Todd Ratcliff) says:

- > In article <Cxu2LL.8C4@ngdc.noaa.gov>, tmg@etl.noaa.gov (Tom Georges) writes:
- > |> Does anyone know where we could find an IDL program that would
- > |> create streamlines from a velocity field? By "streamlines", we
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- > |> lines.
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- > |> Thanks in advance for your help.
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- > |>
- > |> _ /| Tom Georges tmg@etl.noaa.gov
- > |> \'o.O' NOAA Environmental Technology Laboratory

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> |> =(___)= Boulder, Colorado 80303 (303) 497-6437
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>
> Since you have the two components of velocity, can't you
> just calculate the stream function and then contour that?
>
> todd
```

Thanks for several responses to this post. I need to clarify what we want. We don't have the velocity field, only the direction field, so the streamline spacing won't indicate speed. Nevertheless, we want lines that are everyhwere perallel to the gridded direction data. Thanks again.

```
_ /| Tom Georges tmg@etl.noaa.gov
\'o.O' NOAA Environmental Technology Laboratory
=(___)= Boulder, Colorado 80303 (303) 497-6437
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Subject: Re: Streamlines with IDL?
Posted by hahn on Wed, 19 Oct 1994 02:06:03 GMT
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In article <CxvHF5.4n2@ngdc.noaa.gov> tmg@etl.noaa.gov (Tom Georges) writes:

- > From: tmg@etl.noaa.gov (Tom Georges)
- > Subject: Re: Streamlines with IDL?
- > Date: Tue, 18 Oct 1994 14:25:53 GMT

.... several lines deleted

- > Thanks for several responses to this post. I need to clarify
- > what we want. We don't have the velocity field, only the direction
- > field, so the streamline spacing won't indicate speed. Never-
- > theless, we want lines that are everyhwere perallel to the
- > gridded direction data. Thanks again.

Take a look at the procedure velovect.pro in lib/graphics (IDL 3.6.1) or userlib (IDL 3.5). You may adapt it for your purpose.

Hope this helps, Norbert Hahn