
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*
|> lines.

|>

|> Thanks in advance for your help.

|>

|>

|> _ /| Tom Georges tmg@etl.noaa.gov
|> \o.O' NOAA Environmental Technology Laboratory
|> =()= Boulder, Colorado 80303 (303) 497-6437
|> U

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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> |> _ /| Tom Georges tmg@etl.noaa.gov
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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 everywhere parallel to the gridded direction data. Thanks again.

_ /| Tom Georges tmg@etl.noaa.gov
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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 <CxxvHF5.4n2@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 everywhere parallel 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
> U

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
