Subject: Taylor Diagrams in IDL
Posted by M. Suklitsch on Wed, 25 Feb 2009 07:34:42 GMT
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Hi there!

I'm wondering if anybody has done Taylor diagrams in IDL before (see http://www.ncl.ucar.edu/Applications/taylor.shtml for examples how they should look like). I've managed to plot them somehow, but some parts are poorly hardcoded, like the isolines of the RMSE, especially their intercept with the outermost line of standard deviation. I'm quite sure that there *has* to be a way to do this with a more general approach...?

Best regards,
Martin

Subject: Re: Taylor Diagrams in IDL
Posted by David Fanning on Tue, 15 Jan 2013 13:47:51 GMT
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seanelvidge@gmail.com writes:

> Thanks very much for the this programme. I am having some trouble getting it to run. I've narrowed down the problem to line 448:
>
> cgText, stddev_max, y[-1], ' 1.0', CHARSIZE=cgDefCharsize()*0.85, CLIP=0, COLOR=c_correlation
>
> Indexing y with -1 gives an error message, which it should? Or am I missing something? (y is a 1000 element array).

Ah, that is one of those nifty new IDL 8 language enhancements, which allows you to index arrays from the far end of the array. You can change y[-1] to y[N_Elements(y)-1]. I thought I had found all of those. I'll update the code now. Thanks for the heads-up.

Cheers,

David
--
David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: http://www.idlcoyote.com/
Sepore ma de ni thue. ("Perhaps thou speakest truth.")

Subject: Re: Taylor Diagrams in IDL
Posted by David Fanning on Tue, 15 Jan 2013 15:30:21 GMT
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David Fanning writes:

> Ah, that is one of those nifty new IDL 8 language enhancements, which
> allows you to index arrays from the far end of the array. You can change
> y[-1] to y[N_Elements(y)-1]. I thought I had found all of those. I'll
> update the code now. Thanks for the heads-up.

I've checked a new version in after making this and another small
change:

http://www.idlcoyote.com/programs/cgtaylordiagram.pro

It runs in IDL 7 and I presume (although I haven't checked) it will run
in IDL 6.4, too.

Cheers,

David

--
David Fanning, Ph.D.
Fanning Software Consulting, Inc.
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Subject: Re: Taylor Diagrams in IDL
Posted by dplatten on Thu, 17 Jan 2013 11:47:45 GMT
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> It runs in IDL 7 and I presume (although I haven't checked) it will run
>
> in IDL 6.4, too.

It works perfectly in IDL 6.4

David

Subject: Re: Taylor Diagrams in IDL
Posted by David Fanning on Wed, 22 May 2013 03:12:28 GMT
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JP writes:

> Great stuff, I am using it now.
> It would be great if it had a /overplot option. I want to show results from several model runs and as all the labels there create a bit of a mess, i want to use several colors and symbols.
> Any chance to include such a feature in the near future?

Here you go:

http://www.idlcoyote.com/programs/cgtaylordiagram.pro

The main-level program at the end of the file shows how to use the OVERPLOT keyword. :-)

The OUTPUT keyword will not work, of course, if you are overplotting. Display the Taylor Diagram and the overplot in a cgWindow (as in the example), and use the Save As buttons or cgControl to get PostScript and raster output.

Cheers,

David

--
David Fanning, Ph.D.
Fanning Software Consulting, Inc.
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Sepore ma de ni thue. ("Perhaps thou speakest truth.")

Subject: Re: Taylor Diagrams in IDL
Posted by JP on Wed, 22 May 2013 05:18:34 GMT
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you are awesome!!

thanks!

On Wednesday, 22 May 2013 13:12:28 UTC+10, David Fanning wrote:
> JP writes:
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>
>
>> Great stuff, I am using it now.
>
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> Cheers,
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> David
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> David Fanning, Ph.D.
>
> Fanning Software Consulting, Inc.
>
> Coyote's Guide to IDL Programming: http://www.idlcoyote.com/
>

> Sepore ma de ni thue. ("Perhaps thou speakest truth.")

Subject: Re: Taylor Diagrams in IDL
Posted by AR on Fri, 04 Oct 2013 16:43:45 GMT
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Sorry to dredge up an old thread. I'm using this great routine now, but wondered if a negative correlation option is in the works? Unfortunately, some climate models perform very poorly for certain fields. Thanks!

On Wednesday, May 22, 2013 12:18:34 AM UTC-5, JP wrote:
> you are awesome!!
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>
> thanks!
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> On Wednesday, 22 May 2013 13:12:28 UTC+10, David Fanning wrote:
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>> Sepore ma de ni thue. ("Perhaps thou speakest truth.")

Subject: Re: Taylor Diagrams in IDL
Posted by David Fanning on Fri, 04 Oct 2013 17:15:50 GMT
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AR writes:

> Sorry to dredge up an old thread. I'm using this great routine now, but wondered if a negative

correlation option is in the works?

Unfortunately, no, not without a financial commitment. It is either work for free and be famous or find a job. Guess which my wife is urging me to do. ;-)

Cheers,

David

--
David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: http://www.idlcoyote.com/
Sepore ma de ni thue. ("Perhaps thou speakest truth.")
