Subject: Taylor Diagrams in IDL Posted by David Fanning on Thu, 10 Jan 2013 19:08:05 GMT View Forum Message <> Reply to Message

Folks.

I was poking around last night on the ExelisVis Code Library web page and found an extremely well-written program by Fernando Santoro that implemented a Taylor Diagram using the IDL 8 function graphics routines.

Having need one of these for some time, I immediately set about converting the program to Coyote Graphics. I'm afraid I have shamelessly stolen most of Fernado's hard work. To make up for it, I have added a couple of features that I thought the original program lacked.

If you have not yet converted to IDL 8 graphics, you may be interested in this direct graphics implementation. You can read more about it here:

http://www.idlcoyote.com/cg_tips/taylordiagram.php

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 seanelvidge on Tue, 15 Jan 2013 11:32:17 GMT View Forum Message <> Reply to Message

Hi David,

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).

Many thanks,

Sean

```
On Thursday, 10 January 2013 19:08:05 UTC, David Fanning wrote:
> Folks,
>
  I was poking around last night on the ExelisVis Code Library web page
  and found an extremely well-written program by Fernando Santoro that
>
  implemented a Taylor Diagram using the IDL 8 function graphics routines.
>
>
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    http://www.idlcoyote.com/cg_tips/taylordiagram.php
>
>
>
>
> Cheers,
> David
```

Subject: Re: Taylor Diagrams in IDL Posted by santorofer on Tue, 22 Jan 2013 22:18:04 GMT View Forum Message <> Reply to Message

Hi David and all,

Thank you so much David for your kind comments on my Taylor plot using New Graphics!. I did notice that I didn't have a way to add labels to the data points, as you did in the DC version of the code, so I did that.

Now there is a new version of my code using New Graphics. The adding to the code, to show labels next to each data point, was straight forward, just 2 lines of code:

```
; Adding labels next to each data point delta=0.02 label=TEXT(data_x + delta, data_y + delta, labels, /DATA)
```

where data_x and _y are the data point coordinates, and labels is an array of strings, where each element is the label for that particular data point.

This simplicity is one of the advantages of New Graphics.

Please, find my code here:

http://www.exelisvis.com/Default.aspx?tabid=1540&id=1396

Cheers and thanks again for your comments David!, Fernando

On Thursday, January 10, 2013 12:08:05 PM UTC-7, David Fanning wrote: > Folks, >

```
>
>
> I was poking around last night on the ExelisVis Code Library web page
  and found an extremely well-written program by Fernando Santoro that
>
  implemented a Taylor Diagram using the IDL 8 function graphics routines.
>
>
>
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>
>
    http://www.idlcoyote.com/cg_tips/taylordiagram.php
>
>
>
> 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 JP on Wed, 22 May 2013 01:59:14 GMT

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David,

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?

(or is that possible but i'm not seeing it?)

cheers

JP

On Friday, 11 January 2013 06:08:05 UTC+11, David Fanning wrote: > Folks, > > > I was poking around last night on the ExelisVis Code Library web page > and found an extremely well-written program by Fernando Santoro that > > implemented a Taylor Diagram using the IDL 8 function graphics routines. > > > Having need one of these for some time, I immediately set about > converting the program to Coyote Graphics. I'm afraid I have shamelessly > > stolen most of Fernado's hard work. To make up for it, I have added a > couple of features that I thought the original program lacked. > >

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    http://www.idlcoyote.com/cg_tips/taylordiagram.php
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>
>
>
  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 clay.blankenship on Mon, 18 Nov 2013 23:16:37 GMT View Forum Message <> Reply to Message

I can't figure out how to plot several of these in different windows. (Or alternatively, several in the same window.)

Clay

Subject: Re: Taylor Diagrams in IDL Posted by David Fanning on Tue, 19 Nov 2013 00:25:52 GMT View Forum Message <> Reply to Message

clay.blankenship@gmail.com writes:

> I can't figure out how to plot several of these in different windows. (Or alternatively, several in the same window.)

Are you talking about cgTaylorDiagram? If so, I would do it like this.

```
labels = ['A', 'B', 'C', 'D', 'E', 'F', 'G', 'H']
stddev = [1.4, 0.9, 1.0, 1.272, 1.1, 0.95, 1.08, 0.5]
correlation = [0.8, 0.9, 0.65, 0.74, 0.91, 0.98, 0.85, 0.35]
ref std = 1.0
stddev max = 1.5
caDisplay, WID=0
cgTaylorDiagram, stddev, correlation, REF_STDDEV=ref_std, $
   STDDEV MAX=stddev max, RMS INCREMENT=0.25, RMS FORMAT='(F0.2)', $
  LABELS=labels
labels = ['I', 'J', 'K', 'L', 'M', 'N', 'O', 'P']
stddev = [1.25, 0.7, 1.1, 0.86, 1.5, 1.21, 0.78, 0.52]
correlation = Reverse([0.8, 0.9, 0.65, 0.74, 0.91, 0.98, 0.85, 0.35])
cgDisplay, WID=1
cgTaylorDiagram, stddev, correlation, LABELS=labels, C_SYMBOL='blue'
END
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 clay.blankenship on Tue, 19 Nov 2013 22:34:10 GMT
View Forum Message <> Reply to Message
```

```
On Monday, November 18, 2013 6:25:52 PM UTC-6, David Fanning wrote:

> clay.blankenship@gmail.com writes:

>
>
>
I can't figure out how to plot several of these in different windows. (Or alternatively, several in the same window.)
```

>

```
>
>
> Are you talking about cgTaylorDiagram? If so, I would do it like this.
>
   labels = ['A', 'B', 'C', 'D', 'E', 'F', 'G', 'H']
>
>
   stddev = [1.4, 0.9, 1.0, 1.272, 1.1, 0.95, 1.08, 0.5]
   correlation = [0.8, 0.9, 0.65, 0.74, 0.91, 0.98, 0.85, 0.35]
>
   ref_std = 1.0
>
   stddev_max = 1.5
   cgDisplay, WID=0
>
   cgTaylorDiagram, stddev, correlation, REF_STDDEV=ref_std, $
>
     STDDEV_MAX=stddev_max, RMS_INCREMENT=0.25, RMS_FORMAT='(F0.2)', $
>
>
     LABELS=labels
>
>
>
>
   labels = ['I', 'J', 'K', 'L', 'M', 'N', 'O', 'P']
>
   stddev = [1.25, 0.7, 1.1, 0.86, 1.5, 1.21, 0.78, 0.52]
>
   correlation = Reverse([0.8, 0.9, 0.65, 0.74, 0.91, 0.98, 0.85, 0.35])
>
   cgDisplay, WID=1
>
   cgTaylorDiagram, stddev, correlation, LABELS=labels, C_SYMBOL='blue'
>
>
   END
```

I tried this but when I call cgTaylorDiagram, it still uses window 0 rather than the one I just made with cgDisplay.

Thanks, Clay Subject: Re: Taylor Diagrams in IDL Posted by David Fanning on Tue, 19 Nov 2013 22:37:12 GMT

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clay.blankenship@gmail.com writes:

> I tried this but when I call cgTaylorDiagram, it still uses window 0 rather than the one I just made with cgDisplay.

I'm pretty sure it doesn't. Can you show me the code you are using?

Cheers,

David

P.S. It is possible you don't have the latest. I use this check list to solve problems with Coyote programs:

http://www.idlcoyote.com/code_tips/fixcoyoteprogram.php

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 clay.blankenship on Wed, 20 Nov 2013 17:04:36 GMT

View Forum Message <> Reply to Message

It's working now. My mistake--I forgot to turn off the OUTPUT keyword, so it was making a blank window.

Thanks for the help.

Clay

On Tuesday, November 19, 2013 4:37:12 PM UTC-6, David Fanning wrote:

- > clay.blankenship@gmail.com writes:
- > >
- >
- >> I tried this but when I call cgTaylorDiagram, it still uses window 0 rather than the one I just made with cgDisplay.

>

```
>
>
  I'm pretty sure it doesn't. Can you show me the code you are using?
>
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  P.S. It is possible you don't have the latest. I use this check list to
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    http://www.idlcoyote.com/code_tips/fixcoyoteprogram.php
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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 David Fanning on Thu, 21 Nov 2013 17:31:45 GMT
View Forum Message <> Reply to Message
```

clay.blankenship@gmail.com writes:

> It's working now. My mistake--I forgot to turn off the OUTPUT keyword, so it was making a blank window.

I uploaded a new version this morning that will no longer do this. I also added a NoErase keyword and I made a couple of other changes that

will allow you to draw multiple Taylor Diagram plots in the same windonw (for example, with !P.Multi). You can find the new version here:

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

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 skymaxwell@gmail.com on Sat, 23 Nov 2013 09:10:18 GMT

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Hi,

my question is not about IDL

I think that Taylor diagrams can be very usefull So, I'm looking for tutorial about Taylor diagrams How to build, calculate and purposes?

Thanks

Subject: Re: Taylor Diagrams in IDL

Posted by David Fanning on Sat, 23 Nov 2013 13:43:07 GMT

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skymaxwell writes:

- > I think that Taylor diagrams can be very usefull
- > So, I'm looking for tutorial about Taylor diagrams
- > How to build, calculate and purposes?

Here is a good source for these kinds of tutorials:

http://justfuckinggoogleit.com/

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 JP on Mon, 25 Nov 2013 01:33:19 GMT View Forum Message <> Reply to Message

Haha!! I hope skymaxwell has some sense of humour

I also use this link in similar situations: http://lmgtfy.com/?q=taylor+diagram

```
JP
On Sunday, 24 November 2013 00:43:07 UTC+11, David Fanning wrote:
> skymaxwell writes:
>
>
>> I think that Taylor diagrams can be very usefull
>> So, I'm looking for tutorial about Taylor diagrams
>> How to build, calculate and purposes?
>
>
  Here is a good source for these kinds of tutorials:
>
>
>
    http://justfuckinggoogleit.com/
>
>
>
 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 siumtesfai on Tue, 10 Feb 2015 20:06:52 GMT
View Forum Message <> Reply to Message
On Thursday, January 10, 2013 at 2:08:05 PM UTC-5, David Fanning wrote:
> Folks,
>
> I was poking around last night on the ExelisVis Code Library web page
> and found an extremely well-written program by Fernando Santoro that
  implemented a Taylor Diagram using the IDL 8 function graphics routines.
>
> Having need one of these for some time, I immediately set about
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  read more about it here:
>
>
    http://www.idlcoyote.com/cg_tips/taylordiagram.php
>
>
> Cheers,
 David
>
>
>
> David Fanning, Ph.D.
```

Any update to cgTaylordiagram on how to plot both negative and positive correlation.

> Coyote's Guide to IDL Programming: http://www.idlcoyote.com/

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

As mentioned above, some climate models have negative correlation or perform poor.

Best Wishes

> Fanning Software Consulting, Inc.

Subject: Re: Taylor Diagrams in IDL Posted by David Fanning on Tue, 10 Feb 2015 20:52:31 GMT

View Forum Message <> Reply to Message

siumtesfai@gmail.com writes:

> Any update to cgTaylordiagram on how to plot both negative and positive correlation.

> As mentioned above, some climate models have negative correlation or perform poor.

I suppose if there were money in it, I could delay my development as a cinematographer for a couple of days. It's not the kind of thing I would do for fun anymore, though. :-)

Cheers,

David

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

Covote's Guide to IDL Programming: http://www.idlcovote.com/

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

Subject: Taylor Diagrams in IDL

Posted by syang9527 on Wed, 25 Feb 2015 17:58:13 GMT

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gghhjj

Subject: Re: Taylor Diagrams in IDL

Posted by Paul Levine on Wed, 08 Apr 2015 23:14:49 GMT

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On 2013-01-10 19:08:05 +0000, David Fanning said:

- > Folks,
- > I was poking around last night on the ExelisVis Code Library web page
- > and found an extremely well-written program by Fernando Santoro that
- > implemented a Taylor Diagram using the IDL 8 function graphics routines.

Does anybody know if the extremely well-written program that David mentions is still accessible anywhere?

It seems the original announcement of this code was made in the

official support forum

http://www.exelisvis.com/Support/Forums/tabid/184/forumid/7/postid/10939/scope/posts/Default.aspx but the only link given there is so old that it is still at ittvis.com.

Searching the exelis website yields links to the venerated cgTaylorDiagram, but I am very much hoping to find the IDL 8 functions graphic version. Any suggestions would be greatly appreciated!

Thanks, Paul

Subject: Re: Taylor Diagrams in IDL Posted by David Fanning on Wed, 08 Apr 2015 23:39:50 GMT View Forum Message <> Reply to Message

Paul Levine writes:

> On 2013-01-10 19:08:05 +0000, David Fanning said:

>> Folks,

>>

- >> I was poking around last night on the ExelisVis Code Library web page
- >> and found an extremely well-written program by Fernando Santoro that
- >> implemented a Taylor Diagram using the IDL 8 function graphics routines.

>

- > Does anybody know if the extremely well-written program that David
- > mentions is still accessible anywhere?

>

- > It seems the original announcement of this code was made in the
- > official support forum
- > http://www.exelisvis.com/Support/Forums/tabid/184/forumid/7/postid/10939/scope/posts/Default.aspx
- > but the only link given there is so old that it is still at ittvis.com.

>

- > Searching the exelis website yields links to the venerated
- > cgTaylorDiagram, but I am very much hoping to find the IDL 8 functions
- > graphic version. Any suggestions would be greatly appreciated!

Thought I might still have it around here, but I don't. Sorry.

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.")

Posted by Paul Levine on Thu, 09 Apr 2015 01:09:18 GMT

Subject: Re: Taylor Diagrams in IDL

View Forum Message <> Reply to Message On 2015-04-08 23:39:50 +0000, David Fanning said: > Paul Levine writes: >> >> On 2013-01-10 19:08:05 +0000, David Fanning said: >>> Folks. >>> >>> I was poking around last night on the ExelisVis Code Library web page >>> and found an extremely well-written program by Fernando Santoro that >>> implemented a Taylor Diagram using the IDL 8 function graphics routines. >> >> >> Does anybody know if the extremely well-written program that David >> mentions is still accessible anywhere? >> >> It seems the original announcement of this code was made in the >> official support forum >> http://www.exelisvis.com/Support/Forums/tabid/184/forumid/7/ postid/10939/scope/posts/Default.aspx >> >> but the only link given there is so old that it is still at ittvis.com. >> >> Searching the exelis website yields links to the venerated >> cgTaylorDiagram, but I am very much hoping to find the IDL 8 functions >> graphic version. Any suggestions would be greatly appreciated! > Thought I might still have it around here, but I don't. Sorry. > > Cheers,

Thank you for checking.

> David

Can anyone help me clear up some confusion about the difference between the Code Library, which seems to no longer exist, and the extant

Subject: Re: Taylor Diagrams in IDL Posted by rip23 on Fri, 25 Nov 2016 10:44:54 GMT View Forum Message <> Reply to Message On Tuesday, February 10, 2015 at 8:06:58 PM UTC, Sium T wrote: > On Thursday, January 10, 2013 at 2:08:05 PM UTC-5, David Fanning wrote: >> Folks, >> >> I was poking around last night on the ExelisVis Code Library web page >> and found an extremely well-written program by Fernando Santoro that >> implemented a Taylor Diagram using the IDL 8 function graphics routines. >> >> Having need one of these for some time, I immediately set about >> converting the program to Coyote Graphics. I'm afraid I have shamelessly >> stolen most of Fernado's hard work. To make up for it, I have added a >> couple of features that I thought the original program lacked. >> >> If you have not yet converted to IDL 8 graphics, you may be >> interested in this direct graphics implementation. You can >> read more about it here: >> http://www.idlcoyote.com/cg_tips/taylordiagram.php >> >> >> 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.") > Any update to cgTaylordiagram on how to plot both negative and positive correlation. As mentioned above, some climate models have negative correlation or perform poor. **Best Wishes**

A bit of a bump but did anyone ever implement this? Everything was going smoothly until I got

Cheers

some negative correlations.

Subject: Re: Taylor Diagrams in IDL Posted by Rosie on Thu, 13 Apr 2017 02:53:16 GMT

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```
On Thursday, January 10, 2013 at 7:08:05 PM UTC, David Fanning wrote:
> Folks.
>
> I was poking around last night on the ExelisVis Code Library web page
> and found an extremely well-written program by Fernando Santoro that
> implemented a Taylor Diagram using the IDL 8 function graphics routines.
>
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    http://www.idlcoyote.com/cg_tips/taylordiagram.php
>
>
  Cheers,
>
> David
>
>
> --
> David Fanning, Ph.D.
> Fanning Software Consulting, Inc.
> Covote's Guide to IDL Programming: http://www.idlcovote.com/
> Sepore ma de ni thue. ("Perhaps thou speakest truth.")
```

Subject: Re: Taylor Diagrams in IDL Posted by Rosie on Thu, 13 Apr 2017 02:57:31 GMT View Forum Message <> Reply to Message

On Thursday, January 10, 2013 at 7:08:05 PM UTC, David Fanning wrote:

> Folks,

>

>

- > I was poking around last night on the ExelisVis Code Library web page
- > and found an extremely well-written program by Fernando Santoro that
- > implemented a Taylor Diagram using the IDL 8 function graphics routines.
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>
>
  Cheers,
>
  David
>
>
> David Fanning, Ph.D.
> Fanning Software Consulting, Inc.
> Covote's Guide to IDL Programming: http://www.idlcovote.com/
> Sepore ma de ni thue. ("Perhaps thou speakest truth.")
```

Subject: Re: Taylor Diagrams in IDL Posted by Rosie on Thu, 13 Apr 2017 02:59:48 GMT View Forum Message <> Reply to Message

On Thursday, January 10, 2013 at 7:08:05 PM UTC, David Fanning wrote:

> Folks, > > I was poking around last night on the ExelisVis Code Library web page > and found an extremely well-written program by Fernando Santoro that > implemented a Taylor Diagram using the IDL 8 function graphics routines. > > Having need one of these for some time, I immediately set about > converting the program to Coyote Graphics. I'm afraid I have shamelessly > stolen most of Fernado's hard work. To make up for it, I have added a > couple of features that I thought the original program lacked. > > If you have not yet converted to IDL 8 graphics, you may be > interested in this direct graphics implementation. You can read more about it here: > http://www.idlcoyote.com/cg_tips/taylordiagram.php > > 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.")

Hello,

I would like to put negative Correlation value in Taylor diagram. Can anyone help please? Regards,