Subject: map_continents,/hires problem in IDL 5.0.3
Posted by f055 on Wed, 10 Dec 1997 08:00:00 GMT

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I have just installed IDL 5.0.3 on our Digital Alpha (Dig. UNIX 4.0) having
previously had IDL 5.0.2. I got it via ftp, and since the high resolution
coastlines only come on CD I had to copy my 5.0.2 hires coastline files to
my 5.0.3 directory.

When using the hires coastlines, however, 5.0.3 doesn't work properly.
Depending upon what region is being used, various bits are missing. Try
the following:

```
window,ysize=850
!p.multi=[0,1,2,0,0]
;
; Global works fine
;
map_set,/advance
map_continents
map_set,/advance
map_continents,/hires
;
; Regional works fine
;
map_set,/advance,limit=[0,-90,90,90]
map_continents
map_set,/advance,limit=[0,-90,90,90]
map_continents,/hires
;
; Where is Greenland, Iceland and Svalbard in the hi-res version?
;
map_set,/advance,limit=[30,-50,80,50]
map_continents
map_set,/advance,limit=[30,-50,80,50]
map_continents,/hires
;
; Where is Britain?
;
map_set,/advance,limit=[45,-15,65,15]
map_continents
map_set,/advance,limit=[45,-15,65,15]
map_continents,/hires
```

If I try map_continents,/hires,/coasts then I get Britain, but also many
lakes that I do not want.

I don't think that this problem is related to my using 5.0.2 coastlines with

5.0.3 since the release notes do not indicate a change in the files. But, map_continents.pro has been changed slightly. Try

UNIX> diff $IDL_DIR/lib/map_continents.pro $IDL5.0.2_DIR/lib

and you get

```
1c1
< ; $Id: map_continents.pro,v 1.20 1997/10/01 16:38:40 dave Exp $
---
> ; $Id: map_continents.pro,v 1.19 1997/03/26 00:15:35 dave Exp $
177c177
<             ((ndx.lonmin lt lonmax) and (ndx.lonmax gt lonmin)), count)
---
>             ((ndx.lonmin lt lonmax) OR (ndx.lonmax gt lonmin)), count)
180c180
<    subs = where((ndx.lonmin lt lonmax) and (ndx.lonmax gt lonmin), count)
---
>     subs = where((ndx.lonmin lt lonmax) OR (ndx.lonmax gt lonmin), count)
186c186
<
---
>
```

Two ORs have been changed to ANDs. If I try IDL 5.0.3 but compile the old map_continents

IDL> .run <path of IDL5.0.2>/lib/map_continents.pro

then the above examples work fine.

Has anyone else encountered problems like this. Can I just stick with the old map_continents.pro, or have the ORs been changed to ANDs for a reason?

Tim

.... Dr Tim Osborn   . t.osborn@uea.ac.uk
.... ___/.. __ /.. /.. /. Senior Research Associate   . phone:01603 592089
... /..... /. /.. /.. /.. Climatic Research Unit   . fax: 01603 507784
.. /..... __/.. /.. /... School of Environmental Sciences.
. /..... /\ ... /.. /.... University of East Anglia   .
____/.._/.._..____/..... Norwich NR4 7TJ   .
.... UK   .

Subject: Re: map_continents

Posted by davidf on Fri, 10 Apr 1998 07:00:00 GMT

Harald Frey (hfrey@ssl.berkeley.edu) writes:

> Please try
>
> map_set,70.,270.,limit=[50.,0.,90.,360.],/grid,/isotropic
> map_continents
>
> and you see a nice map of the northern hemisphere continents. But now
> limit the region
>
> map_set,70.,270.,limit=[50.,180.,90.,360.],/grid,/isotropic
> map_continents
>
> and not any of the existing coastlines will appear. Any reason?

Old version of IDL?

This code looks fine on my Windows NT 4 machine with IDL
5.0.3. The continents look correct to me.

Cheers,

David

David Fanning, Ph.D.
Fanning Software Consulting
E-Mail: davidf@dfanning.com
Phone: 970-221-0438
Coyote's Guide to IDL Programming: http://www.dfanning.com/

Subject: Re: map_continents
Posted by Martin Schultz on Sat, 11 Apr 1998 07:00:00 GMT

Harald Frey wrote:
>
> Please try
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>
> and not any of the existing coastlines will appear. Any reason?
>
> Harald Frey
> SSL-UC Berkeley
> hfrey@ssl.berkeley.edu

just tested your example: works for me ! I see North America and
Greenland as well as a tiny littl ebit of Russia and the UK.

What platform and version are you using ?

Martin.

--

 -- -------
Dr. Martin Schultz
Department for Earth&Planetary Sciences, Harvard University
186 Pierce Hall, 29 Oxford St., Cambridge, MA-02138, USA

phone: (617)-496-8318
fax : (617)-495-4551

e-mail: mgs@io.harvard.edu
IDL-homepage: http://www-as.harvard.edu/people/staff/mgs/idl/
 -- -------

Subject: Re: map_continents
Posted by David Foster on Mon, 13 Apr 1998 07:00:00 GMT
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Harald Frey wrote:
>
> Please try
>
> map_set,70.,270.,limit=[50.,0.,90.,360.],/grid,/isotropic
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>
> and you see a nice map of the northern hemisphere continents. But now
> limit the region
>
> map_set,70.,270.,limit=[50.,180.,90.,360.],/grid,/isotropic
> map_continents
>
> and not any of the existing coastlines will appear. Any reason?

I get the same problem as you. Sorry, no solutions.

```
IDL> help, !version, /struct
** Structure !VERSION, 5 tags, length=40:
  ARCH         STRING   'sparc'
  OS           STRING   'sunos'
  OS_FAMILY    STRING   'unix'
  RELEASE      STRING   '5.0.3'
  BUILD_DATE   STRING   'Nov  3 1997'
```

Dave
--

```
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ ~~~~~~
 David S. Foster       Univ. of California, San Diego
  Programmer/Analyst    Brain Image Analysis Laboratory
  foster@bial1.ucsd.edu  Department of Psychiatry
  (619) 622-5892        8950 Via La Jolla Drive, Suite 2240
                 La Jolla, CA  92037
 ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ ~~~~~~
```

Subject: Re: map_continents
Posted by Harald Frey on Mon, 13 Apr 1998 07:00:00 GMT
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Harald Frey wrote:

> Martin Schultz wrote:
>
>> Harald Frey wrote:
>>>
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>>>
>>> Harald Frey
>>> SSL-UC Berkeley

>>> hfrey@ssl.berkeley.edu
>>
>> just tested your example: works for me ! I see North America and
>> Greenland as well as a tiny littl ebit of Russia and the UK.
>>
>> What platform and version are you using ?
>
> I use
>
>> IDL> print,!version
>> { sparc sunos unix 5.0.3 Nov 3 1997}
>>
> which is the latest version I know. Is it possible this is some problem
> with the
> monitor? I first thought the problem might be caused by using the low
> resolution continent data only. However, it did not disappear after
> installing the high-res data set.
>
> Harald

Just let me add some more observations about this problem.
I get the grid lines, but I don't get the coast lines. I tries the same on
another computer

IDL> print,!version
{ alpha vms 3.5.1}

And it works just fine there with the full outline of the coastlines. So. I
don't really know if it is a problem of IDL or of SPARC UNIX.

Harald

Subject: Re: map_continents
Posted by Harald Frey on Mon, 13 Apr 1998 07:00:00 GMT
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Martin Schultz wrote:

> Harald Frey wrote:
>>
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>> map_continents
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>> map_continents
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>>
>> Harald Frey
>> SSL-UC Berkeley
>> hfrey@ssl.berkeley.edu
>
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> Greenland as well as a tiny littl ebit of Russia and the UK.
>
> What platform and version are you using ?

I use

> IDL> print,!version
> { sparc sunos unix 5.0.3 Nov 3 1997}
>
which is the latest version I know. Is it possible this is some problem
with the
monitor? I first thought the problem might be caused by using the low
resolution continent data only. However, it did not disappear after
installing the high-res data set.

Harald

Subject: Re: map_continents
Posted by dmarshall on Tue, 14 Apr 1998 07:00:00 GMT
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Looks OK in student version 5.0.1 , in Win95.

Dave.

In article <MPG.f985fe2273a38ab98977e@news.frii.com>, davidf@dfanning.com (David Fanning)
writes:
> Harald Frey (hfrey@ssl.berkeley.edu) writes:
>
>> Please try
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> Cheers,
>
> David
> --
> David Fanning, Ph.D.
> Fanning Software Consulting
> E-Mail: davidf@dfanning.com
> Phone: 970-221-0438
> Coyote's Guide to IDL Programming: http://www.dfanning.com/

Subject: Re: map_continents
Posted by Harald Frey on Thu, 16 Apr 1998 07:00:00 GMT
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Harald Frey wrote:

>>> Please try
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>>>
>>> and you see a nice map of the northern hemisphere continents. But now
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>>>
>>> map_set,70.,270.,limit=[50.,180.,90.,360.],/grid,/isotropic
>>> map_continents
>>>
>>> and not any of the existing coastlines will appear. Any reason?
>>>
>>> Harald Frey
>>> SSL-UC Berkeley
>>> hfrey@ssl.berkeley.edu
>>

I asked RSI about this problem and it turned out that it is really a bug in
IDL 5.0.3. They sent me a new version of the map_continents procedure and

after replacing it for the old version it now works fine.

Thank you, RSI support for the help.

Any interested user can get the corrected map_continents.pro upon request.
At the moment it should still be on their ftp site, but it may not stay
there for a long time.

Harald Frey