

Ben Foster <foster@ucar.edu>

Fri, Jan 16, 2015 at 7:24 AM

TIE-GCM1.95 dres input data

10 messages

Cnossen, Ingrid <inos@bas.ac.uk> To: "foster@ucar.edu" <foster@ucar.edu>

Hi Ben,

I'm trying to set up a new run with CMIT, using TIE-GCM1.95. I'd like to run this with double resolution, but it turns out I haven't got double resolution input data for TIE-GCM1.95. I downloaded a tarball with input data for version 1.95 from the website last month, but this seems to contain only single res. I don't have access to /home/tgcm/tiegcm1.95 on the HPSS. Where can I get the data I need? Specifically for this run, I'm after TGCM.tiegcm1.95_dres.pcntr_sepeqx_smax.nc. I hope you can help.

Thanks, Ingrid

p.s. A late happy new year!

Dr. Ingrid Cnossen NERC postdoctoral fellow British Antarctic Survey High Cross, Madingley Road Cambridge, CB3 0ET United Kingdom e-mail: inos@bas.ac.uk phone: (+44)(0)1223-22-1647

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Ben Foster <foster@ucar.edu> To: "Cnossen, Ingrid" <inos@bas.ac.uk>, Joe McInerney <joemci@ucar.edu> Fri, Jan 16, 2015 at 9:58 AM

Ingrid,

You can find the dres source file (~114 MB) at this location:

http://download.hao.ucar.edu/pub/tgcm/tiegcm1.95/

There are also gpi, gswm, and imf data files there. Since you are starting a new run, I recommend that you use the latest trunk version of the model. There have been improvements since 1.95, and it will run faster than 1.95, especially at 2.5-deg resolution. The current svn revision is r1109, and you can copy the gzipped tar file from this location:

http://download.hao.ucar.edu/pub/tgcm/

file name is tiegcm_r1109.tar.gz. If you use this version, you should copy and modify job script and default namelist input files from the scripts directory, i.e., don't use your old job scripts and namelist files. Also in the above directory, see the svn commit log tiegcm_trunk.log for development details. Let me know if you have questions or problems.

--Ben

[Quoted text hidden] --Ben Foster National Center for Atmospheric Research (NCAR) High Altitude Observatory (HAO) 303-497-1595

Cnossen, Ingrid <inos@bas.ac.uk> To: Ben Foster <foster@ucar.edu> Fri, Jan 16, 2015 at 10:14 AM

Hi Ben,

Thanks for the double res files. I did an svn update from my CMIT source directory (LTR-para) last month. I checked again now, but all the TIEGCM code was already up to date. I have tiegcm1.95 at revision 2571, but I guess that revision number is for CMIT as a whole. I don't know if that incorporates the latest improvements you're talking about. Within CMIT though, I'm not too concerned about the speed at which the TIE-GCM runs, because it's still going to be quick compared to the LFM part.

Cheers,

Ingrid

From: Ben Foster [mailto:foster@ucar.edu]
Sent: 16 January 2015 16:58
To: Cnossen, Ingrid; Joe McInerney
Subject: Re: TIE-GCM1.95 dres input data

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 Ben Foster <foster@ucar.edu>
 Fri, Jan 16, 2015 at 10:23 AM

 To: "Cnossen, Ingrid" <inos@bas.ac.uk>, Joe McInerney <joemci@ucar.edu>, Chris Fischer <fischer@ucar.edu>

Ingrid,

Oh, ok, I didn't realize you were running tiegcm coupled with CMIT. The tiegcm r1109 trunk revision will not work coupled to CMIT, so you should use the code you have. The r1109 code has the parallel dynamo, and I have not yet modified the CMIT coupling to work with that (am copying Chris Fischer, who works on cmit/lfm with Mike).

--Ben [Quoted text hidden]

Cnossen, Ingrid <inos@bas.ac.uk> To: Ben Foster <foster@ucar.edu> Fri, Jan 16, 2015 at 10:26 AM

Fri, Jan 16, 2015 at 10:41 AM

Ah, ok. Yes, it'll be a coupled run, so it sounds like I have the correct version of the code for what I want to do then.

-Ingrid

From: Ben Foster [mailto:foster@ucar.edu] Sent: 16 January 2015 17:23 To: Cnossen, Ingrid; Joe McInerney; Chris Fischer

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[Quoted text hidden] [Quoted text hidden]

Chris Fischer <fischer@ucar.edu> To: Ben Foster <foster@ucar.edu> Cc: "Cnossen, Ingrid" <inos@bas.ac.uk>, Joe McInerney <joemci@ucar.edu>

I'm getting really close to getting CMIT working with the parallel dynamo. I have a version in my sandbox now that is running, I'm just checking the results and cleaning up debug statements in the code.

Chris

On 01/16/15 10:23, Ben Foster wrote:

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Ingrid

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--Ben Foster National Center for Atmospheric Research (NCAR) High Altitude Observatory (HAO) 303-497-1595

Chris Fischer, Software Engineer High Altitude Observatory National Center for Atmospheric Research P. O. Box 3000 Boulder, CO 80307 USA

email: fischer@ucar.edu phone: 303 - 497 - 1530

Ben Foster <foster@ucar.edu> To: Chris Fischer <fischer@ucar.edu>

Thanks Chris! [Quoted text hidden]

Cnossen, Ingrid <inos@bas.ac.uk> To: Ben Foster <foster@ucar.edu> Cc: Chris Fischer <fischer@ucar.edu>

Hi Ben and Chris,

Mon, Jan 19, 2015 at 7:44 AM

Fri, Jan 16, 2015 at 10:42 AM

I tried to do a run with the double resolution TIE-GCM within CMIT, but I got an error associated with the GSWM input file being single resolution. I hadn't thought about that... I only have a standard resolution GSWM input file and I don't see a double res. version on the website you pointed me to last week. Is a double res. version available somewhere?

-Ingrid

From: Ben Foster [mailto:foster@ucar.edu]
Sent: 16 January 2015 16:58
To: Cnossen, Ingrid; Joe McInerney
Subject: Re: TIE-GCM1.95 dres input data

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Ben Foster <foster@ucar.edu>

To: "Cnossen, Ingrid" <inos@bas.ac.uk>, Joe McInerney <joemci@ucar.edu> Cc: Chris Fischer <fischer@ucar.edu>

Ingrid,

I have added the 2.5-deg gswm files at the same location:

http://download.hao.ucar.edu/pub/tgcm/tiegcm1.95

The 4 files are gswm*2.5d*.nc

BTW, you can always copy the default dres namelist input file from the scripts directory (under the model root directory), and modify it for your own runs. It has the default double-res files (gswm, solgar, etc).

--Ben

[Quoted text hidden]

Cnossen, Ingrid <inos@bas.ac.uk> To: Ben Foster <foster@ucar.edu> Mon, Jan 19, 2015 at 10:27 AM

Hi Ben,

Thanks for this. I was modifying a job script from a previous run that wasn't double res... I didn't think of looking in the root directory for an example script to modify.

-Ingrid

From: Ben Foster [mailto:foster@ucar.edu] Sent: 19 January 2015 17:02 To: Cnossen, Ingrid; Joe McInerney Cc: Chris Fischer

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