

Re: problems with create\_startf in Lagranto

**Subject:** Re: problems with create\_startf in Lagranto  
**From:** Ambrogio Volonte <A.Volonte@pgr.reading.ac.uk>  
**Date:** 01/08/2016 12:07 PM  
**To:** Michael Sprenger <michael.sprenger@env.ethz.ch>  
**CC:** Suzanne Gray <s.l.gray@reading.ac.uk>

Dear Michael,

Thanks for the prompt reply and for the attention to our issues.  
Next week is perfectly fine, we don't have any need to rush.

Best wishes

Ambrogio

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*Ambrogio Volonte'*  
*PhD student: "Dynamics of Sting Jets and their Relation to Larger-Scale Drivers", supervised by Prof. P. Clark and Prof. S. Gray*  
*Room 306, Lyle Building*  
*Department of Meteorology*  
*University of Reading*

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**From:** Michael Sprenger <michael.sprenger@env.ethz.ch>  
**Sent:** 07 January 2016 19:45  
**To:** Ambrogio Volonte  
**Cc:** Suzanne Gray  
**Subject:** Re: problems with create\_startf in Lagranto

Dear Ambrogio

You are perfectly right that the hires mode is not yet implemented for <create\_startf> :-). I will have a look at it next week - please apologize the delay! If everything goes well, I will be able (and remember) to copy all relevant parts from <caltra.sh>.

And sorry for the 'chaos' with <create\_startf> and <startf>. Initially, I had <create\_startf>, but the I started to dislike it and to prefer <startf>. This resulted in some ugly link stuff...

Best regards,

Dear Michael,

I hope everything is going well and I wish you a great 2016.

I am writing because we have now discovered that there are some issues in creating startfiles with the new version of Lagranto you sent us in November. I apologise for not having spotted the problems earlier but we were initially working with the same startfile created for the old trajectories (with hourly input of P&S files) and hence we didn't need to create a new one.

The first problem was related to the fact that in install.csh and in create\_startf.sh there were some links linking to a directory startf rather than create\_startf. Now it seems that we fixed all of them (new files attached) but do you know of other places in which there could be other broken links?

The other issue is related to create\_startf.sh in itself. After having fixed the links, create\_startf was still not working, in particular the code was failing when doing the loop copied here:

```
# Determine time increment (in hours) between data files
set date1=`echo $file | cut -c 2-12`
set n=`ls ${charp}[0-9_]*[0-9] | grep -n $date1 | awk -F: '{print $1}'`
@ n ++
set date2=`ls ${charp}[0-9_]*[0-9] | head -$n | tail -1 | cut -c 2-12`
set timeinc=`${LAGRANTO}/goodies/gettidiff $date2 $date1`
endif
if ( $timeinc == 0 ) then
  echo " ERROR: cannot set the time increment between input files ****"
  exit 1
endif
```

We noticed that this loop had not been changed from the old version to deal with the new formats and filenames (while trace.sh and caltra.sh had). So we started to try fixing it but we are still getting errors in other parts of the script (related to the non-integer values of timeinc or td1) and we are getting a bit stuck on it. Do you think that for you it would be simpler to understand where and how the script has to be amended? I attach the version of create\_startf.sh with our changes and the logfile of the differences between this version and the old one, so you can track what has been modified.

Many thanks for your help and your availability

Best wishes

Ambrogio

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**Ambrogio Volonte'**

**PhD student: "Dynamics of Sting Jets and their Relation to Larger-Scale Drivers", supervised by Prof. P. Clark and**

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**Prof. S. Gray**  
**Room 306, Lyle Building**  
**Department of Meteorology**  
**University of Reading**