**Responses to Editor/reviewer comments**

-- Editor comments

**Editor**: Revision is nicely done.

**Response**: Thank you for the positive feedback.

**Editor:** Figure 7 should use a neutral colour for the x=y line so the reader doesn’t confuse with the point colour.

**Response**: We have now changed the x=y line colour from red to black to address this issue.

**Editor:** Please make the changes specified by the reviewer.

**Response**: We have addressed the reviewer comments. Please refer to the next section for details.

**Editor:** Think about converting your article into the new template, as specified by <https://journal.rproject.org/submissions.html>. It’s not required but would make it integrate better with the new website and be more accessible to blind readers, because the article would be in native html and well as pdf. There is a package texor (<https://github.com/Ahbi-1U/texor>) that might help with the conversion.

**Response**: We have tried using the texor package to convert the LaTex based documents to HTML by following the steps outlined on <https://abhi-1u.github.io/texor/articles/01-Introduction.html>. Despite our best efforts, those steps could not be successfully implemented for some unknown reasons. We have to submit the LaTex based documents for publication this time.

-- Reviewer comments

**Reviewer:** The authors’ responses and updates look good. Just a few additional notes, but I think it should be approved for publication.

**Response**: Thank you for the positive feedback and providing a few more notes, which we have addressed as detailed below.

**Reviewer:** The authors may need to do a final check for updates to the code in the paper. For example, ‘calib\_assist()’ has the argument ‘file\_name’ in the paper, but in the functions it’s been updated to ‘file.name’. Similarly, the manuscript shows ‘ext.output()’ but the function is ‘ext\_output()’.

**Response**: Thank you for pointing out these old argument names that needed updated. We have checked the manuscript to update all code in the paper.

**Reviewer:** I think it’s important to be aware that users may need to run the example to be able to use this package on their own. This is mostly due to the specificity in the set up of the calib\_assist() function – such as having required column names in inputs. So I think it should be clear in the package repository that user will have to head over to ExampleData\_dycdtools to be able to run an example, and I like that this repository is self-contained and reproducible.

**Response**: Thank you for the useful suggestion. We have now added text in the readme file to encourage first-time users of the package to run package functions on the provided example data.

The added text is as below and also available on <https://github.com/SongyanYu/dycdtools>:

‘IMPORTANT: It is highly recommended that first-time users of the package first run the package functions (particularly 'calib\_assist') on the provided example data (see below the Application Section) to familiarise themselves.’

**Reviewer:** Note the language on the example data readme will need to be updated to address general users instead of peer reviewers.

**Response**: Thank you for the reminder. The readme has now been updated (available from <https://github.com/SongyanYu/ExampleData_dycdtools>).

**Reviewer:** Note that it is possible for the example data repo to be incorporated into the package itself along with a vignette. There are some online resources on how to do this. This would be a cleaner solution for the user, but would take more effort on the part of the developers.

**Responses**: Thank you for the suggestion. We will try to follow the suggestion to integrate the data into the package. This work is in parallel with the publication and will be published on Songyan’s personal website <https://songyanyu.github.io>.

**Reviewer:** In calib\_assit(), I would suggest having checks on column headers for the input data to make sure everything is named correctly.

**Response**: We have now checked the column headers and did not found any incorrect names.

**Reviewer:** I’d also suggest an informative error for users who do not have the executable and DYRESM-CAEDYM software available. I get this error when running ‘calib\_assist()’: Error in checkForRemoteError(val): 64 nodes produced errors; first error: could not find function “shell”.

**Response**: The ‘shell’ is a Windows specific function, and that error actually stemmed from calling ‘shell’ in a Unix environment (e.g. MacOS). We have now highlighted the Windows requirement in the readme of the package repository and also added a pre-check in the ‘calib\_assist’ function to provide an informative error if users do not run the function on Windows.

**Reviewer:** For the one plotting function that isn’t in ggplot, I suggest making that clear in the documentation for the function, as it affects how the plot can be saved.

**Response**: We have now added text for all plotting functions (regardless they use ggplot or not) to explain how to save the produced figures.