This user guide gives a step-by-step introduction, how to create and maintain data references for CMIP6 data collections on model/MIP and experiment granularities. These data citations will be visible in the ESGF CoG portals. Users of CMIP6 data are obliged to use these data citations in the reference lists of their publications (CMIP6 data user guide - under development). Data Citations can be modified until the submission deadline of the IPCC AR6 (2020-10-15). Thereafter data citations are fixed and will be used for the citation of the AR6 data subsets, which will form the Reference Data Archive for AR6 of the IPCC DDC (IPCC Data Distribution Centre, http://www.ipcc-data.org).

Further Information:
- Information on the CMIP6 citation service: http://cmip6cite.wdc-climate.de

Citation Service Tools for Citation Managers:
- Graphical User Interface: http://cera-www.dkrz.de/citeXA
- Machine access (API client): https://swiftbrowser.dkrz.de/public/dkrz_11279a46963f4201bae564a253d528cc/Citation_API_Client/

Overview
The following steps are required or recommended to create citations for your CMIP6 data:

1. **GUI - Edit Title**: Change the given default titles for the given CMIP6 model and experiment data collections.
2. **GUI - Create Lists of Persons and Institutes**: Enter lists of persons and institutes to be connected in step 3 with a special role to a data title (step 1).
   
   Note: Required for step 3 are a list of Creators (authors) and a list of ContactPersons (corresponding author). The position in the list is interpreted as position in the (author) list.
3. **GUI - Build/Edit Data Citation**: Connect your Creator (author) list and your ContactPerson (corresponding author) list from step 2 to a citation title from step 1 [mandatory].
   
   Optionally, a citation can be linked to other lists of contributors from step 2, e.g. Funders or ResearchGroups, who contributed to the creation of the selected model/MIP or experiment data. More information on roles is provided in the DataCite Metadata Schema documentation at http://schema.datacite.org.
4. **GUI – Add References** to articles, input4MIPs and other data or software [recommended].
5. **API - Provide Data Citations for the experiment granularity** (chapter 2):
   
   **Notes:** All persons, institutes and paper references need to be inserted via the GUI first and experiment data citations can only be provided via the API. You can check experiment data citations together with model/MIP data citations in the ‘Completed Citations’ tab of the GUI.
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1. GUI - Graphical User Interface

1.1 Login
Login is provided at: http://cera-www.dkrz.de/citeXA. Use your CERA username and password to login. In case you have no CERA account or encounter login problems, please write an email to data@dkrz.de and stockhause@dkrz.de with subject ‘CMIP6 Citation...’
1.2 Home Area
After login you are redirected to the ‘Home’ area, which provides information around the CMIP6 citation service (left part). If you have entered new persons, institutes or references, these will be listed on the right. After a while these might disappear.

To start the provision of CMIP6 data citation information, please switch to the ‘CMIP6 Citations’ Tab.
1.3 CMIP6 Citation area –main tab for providing citation information

The CMIP6 Citation tab is the main entry point to maintain your data citation information. It is organized as follows:

- **top**: short information on the process steps for providing complete data citation information
- **left – step 1**: area to edit provided default titles for DRS data collection entries on model/MIP granularity.
- **center – step 2**: area to create/delete named author lists and other lists of persons (upper part) and to create/delete lists of institutes, e.g. Funders or research groups (lower part).
  
  **Notes**: A copy of an existing list is possible via edit and saving under a new name. List entries are ordered.
- **right – step 3**: area to compose citations out of the titles from step 1 and the lists of step 2, e.g. list of authors/creators, list of funders, list of contact persons and list of research groups.
  
  **Note**: Mandatory list types to connect to a data citation entry are ‘Creator’ and ‘ContactPerson’.
- **right – step 4**: area to add references and connect them to the data, e.g. relevant paper, used data and/or software.
  
  **Note**: Recommended are references to papers and the used input4MIPs datasets.

General Information on steps needed to complete data citations

Check completed citations (sec. 1.4)
Step 1 – Provide a title for a data citation entry

To edit the titles for your data references click on the ‘Edit’ symbol next to the data reference in the table in the ‘1. Title’ area (left part).

For CMIP6 a CMOR-like default title is provided for each entry. Save your changed title by pressing the ‘Apply Changes’ button.
Step 2 – Provide named author/creator and other lists

In the second step, author/creator lists and list of other contributing persons and contributing institutes are prepared.

To create a list of persons click on the ‘Create’ button in the middle part.

2a. Create a new author list or other list of persons

2b. Create a new author list or other list of institutes

2a. Edit / Update list of persons

2b. Edit / Update list of institutes
You are redirected to a page where you can select persons from a list provided by the database (left side) and add them to the author/Creator, ContactPerson or researcher list (right side) you are creating. A reordering of selected persons in the created list (right side) is possible using the arrow buttons.

Enter a ‘List Name’, which indicates the use of this list and finalize the list by clicking on the ‘Create’ button. When you return to the main page using the ‘Cancel’ button, the name of your entered person list will appear in the table in the ‘List of persons’ area (upper middle part).

The list of persons can be edited by clicking on the ‘Edit’ symbol next to it. Lists can be created and deleted but not updated. In case you want to change/update a list, please:

1. Edit the existing list of persons and save it under a new ‘List Name’;
2. Replace the old list, e.g. author list, connected to the data by the newly created one (see Step 3 – Connect author list and other lists to the data reference for details).

Lists of institutes for Funders, research groups etc. can be created, analogously, in the ‘List of Institutes’ section located in the lower middle part of the page.

In case a required person (institute) is not available in the selection list on the left side of the person (institute) list dialog, please create the person (institute) first at the ‘Person’ (‘Institute’) tab. The button ‘Create Person’ (‘Create Institute’) leads you to that tab (see section 1.5).
Step 3 – Connect author list and other lists to the data reference

After providing titles for your data entities in step 1 and lists of authors and other contributors, such as Funder lists, in step 2, these lists are connected to the data entities in step 3. Please note that at least an author list and a ContactPerson list are required for a completed data citation.

For establishing these connections of lists of persons and institutes to prepared data citation entities please:

1. add a row;
2. select the data by its title, the list of persons or institutes by its list name and the list’s type, e.g. ‘Creator’=Author, ‘ContactPerson’, ‘Funder’ etc. from the provided drop down menus.

In case you need to update a list, use the drop down menu to change the connected list. For deleting a list from a citation please mark the row using the square at the start of the row and click the ‘Delete’ button.
Step 4 – Connect paper or other reference to the data reference (recommended)

It is recommended to add references to papers or to data (e.g. input4MIPs datasets) and software.

Press the ‘Edit References’ button to get redirected. Add a row and select data references and the target (paper) reference you want to connect to the data from the given drop down menus. ‘Relation Type’s from DataCite are used to specify the type of connection (see schema.datacite.org). Read reference entries from left to right: ‘Data Reference’ ‘Relation Type’ ‘Target Reference’, e.g. ‘PCMDI PCMDI-test 1.0 model output for CMIP6 LUMIP’ ‘isDocumentedBy’ ‘Durack et al. (2018)’.

**Finalize your changes by pressing the ‘Save’ button.**

In case a ‘Target Reference’ (e.g. a paper) is missing in the drop down menu, please create it first by pressing the ‘Create Target Reference’ button (see section 1.6 for details).
1.4 List of Completed Citations and landing pages

After finalizing steps 1-3, your data citations will appear under the ‘Completed Citations’ tab together with a link to the citation landing page displaying the full citation information.

**Note:** This is the only place in the GUI, where you can see the data references for experiments, too.

---

Access Landing Page to view full content

Export JSON citation file to use as template for the API (see section 2)
1.5 Create a person and institute entries

Creation and update of person and institutes work the same way. Here the example for the creation of a person is described. Go to the ‘Person’ Tab and

a. Create a person and
b. Add ORCID details (recommended)

a. Create a new person entry

Press the ‘Create’ button.

Enter at least the mandatory information in the form: first name, last name, institute and email. Finalize your edits by pressing the ‘Create’ button.
b. Add ORCID Researcher ID to person record (recommended)

After saving the person record the person identifier section will appear at the bottom. Add the ORCID to the person record and store it again by pressing the ‘Save’ button.
1.6 Add Paper and Data References

Under the references tab you have the opportunity to add scholarly publications, which you then can connect in Step 4 to the data. This information will be published together with the data reference and therefore enable data-interlinking services to direct readers from data to articles and vice versa.

The form provides two possibilities to add a reference:
1. ‘Add DOI Row’ – Insert a paper reference by its DOI from CrossRef (a 2nd try might be required);
2. ‘Add Row’ – Insert a paper/data/software reference manually.

Finalize your edits by pressing the ‘Save’ button.
To connect this reference to your data please press the ‘Back to Connect Reference’ button to be redirected to the right form.
1.7 Upload Area

A possible use case for the upload area is:

- Provision of materials which are relevant for the cited CMIP6 data but not formally published in a scholarly publication. These materials will be long-term archived together with the data.

*Please do not upload data files.*
2. **API - Application Programming Interface**

The API uses the JSON representation of the DataCite 4.1 schema ([http://doi.org/10.5438/0014](http://doi.org/10.5438/0014)) to insert and update citation information.

Please download the python API client from DKRZ’s cloud at: [https://swiftbrowser.dkrz.de/public/dkrz_11279a46963f4201bae564a253d528cc/Citation_API_Client/](https://swiftbrowser.dkrz.de/public/dkrz_11279a46963f4201bae564a253d528cc/Citation_API_Client/) and check if you can reach the API server with: `ping ceracite.dkrz.de`.

The API client is provided as
- **python 3.5+** plus [httplib2](citation_client.py),
- **python 2.7** plus [httplib2](citation_client.py), and as
- **python 2.6+ / python 2.5** plus [simplejson](citation_client_httplib2.py).

### 2.1 Preconditions

To use the API client please:
- Use the GUI to provide details for all persons, institutes and paper references, which you want to use in the JSON input file for the API insert of citation information (section 1)
- Store your user credentials in the `$HOME/.netrc` file:

```
    machine cera
    login <user name>
    password <password>
```

### 2.2 Best Practice

1. **Download a template JSON file** from a landing page:
   You can find a landing page using the ‘View’ links on the ‘Completed Citation’ tab of the GUI (see section 1.4 for details). Use the ‘JSON’ button to get the JSON representation of your citation information on this example on the coarse citation. To have all optional sections present in the downloaded JSON, **it is best to use a detailed metadata example, i.e. with additional contributors such as funders and paper references as template**. Such a detailed example is given in section 2.7.

2. **Modify the template JSON file** as required, but at least:
   2.1. **DRS (subject: “CMIP6.<activity_id>.<institution_id>.<source_id>.<experiment_id>”):** This is the information for the citation service, to which data your citation information belongs. **Note that this subject has to be the first in the list.**
   2.2. **Title**
   Section 2.6 gives an overview of the elements and in section 2.7 you find a shortened JSON example with **grey** parts indicating ignored and **red** parts indicating mandatory content. Please note that many project sections are ignored, e.g. description, identifier, license, subject, publisher.

3. **Check your JSON file** (see Section 2.3).

4. After a successful check please **run the API** with your JSON file (Section 0).
2.3 Checking tool (without an entry in the database)

```
python citation_client.py <json_file> check
```

The checking tool goes through the json file and gives error messages back without any inserts into the database.

“subjects”:
- **Interruption** in the case of missing attribute “subjects” (citation could not be checked without the subject!)
- error messages:

<table>
<thead>
<tr>
<th>ERROR type</th>
<th>Message/meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOT FOUND</td>
<td>You have to register your “subject” first at <a href="https://github.com/WCRP-CMIP/CMIP6_CVs">https://github.com/WCRP-CMIP/CMIP6_CVs</a></td>
</tr>
<tr>
<td>AMBIGUOUS</td>
<td>Subject is not unique</td>
</tr>
<tr>
<td>NOT ALLOWED TO EDIT</td>
<td>Subject is aligned with another user</td>
</tr>
</tbody>
</table>

“titles”:
- error messages:

<table>
<thead>
<tr>
<th>ERROR type</th>
<th>Message/meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>IN USE</td>
<td>The title is already in use for another citation (“subject”). The title has to be unique!</td>
</tr>
<tr>
<td>WRONG NUMBER</td>
<td>just one-line title allowed</td>
</tr>
</tbody>
</table>

“contacts” (creators, contributors, funders):
- “Creators”: one person or institute is mandatory!
- “Contributors”: “contributorType“ is mandatory!
- error messages:

<table>
<thead>
<tr>
<th>ERROR type</th>
<th>Message/meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>NO CREATOR</td>
<td>No creators provided! A Creator is mandatory</td>
</tr>
<tr>
<td>WRONG CONTRIBUTOR</td>
<td>wrong contributor type – a list of valid types is part of the response</td>
</tr>
<tr>
<td>INFORMATION MISSING</td>
<td>A person must be identified by firstName, givenName, and email</td>
</tr>
<tr>
<td>AMBIGUOUS DATA</td>
<td>person or institute or personIdentifier or instituteIdentifier is ambiguous</td>
</tr>
<tr>
<td>UNKNOWN</td>
<td>Person or Institute is not available in the database. Please insert via GUI!</td>
</tr>
<tr>
<td>COMBINATION NOT ALLOWED</td>
<td>A combination of persons and institutes is not allowed in the same list / for the same contributorType (see next Table for allowed list member entries per contributorType)</td>
</tr>
<tr>
<td>PERSON INSTEAD OF INSTITUTE</td>
<td>Wrong list member! Fill in one or more persons instead of institutes / institutes instead of persons (depending on contributorType)</td>
</tr>
<tr>
<td>OR VICE VERSA</td>
<td></td>
</tr>
</tbody>
</table>
• “contributorTypes”: Please note that it is not possible to combine persons and institutes in the same contributorType! The allowed list members for the different Types are (in the case of both, person and institute are possible, you have to select one opportunity: persons OR institutes!):

Table 1: List of possible Contributor types

<table>
<thead>
<tr>
<th>Contributor Type</th>
<th>Person</th>
<th>Institute</th>
</tr>
</thead>
<tbody>
<tr>
<td>Funder</td>
<td>N</td>
<td>Y</td>
</tr>
<tr>
<td>Researcher</td>
<td>Y</td>
<td>N</td>
</tr>
<tr>
<td>ResearchGroup</td>
<td>N</td>
<td>Y</td>
</tr>
<tr>
<td>ContactPerson</td>
<td>Y</td>
<td>N</td>
</tr>
<tr>
<td>Creator</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>RightsHolder</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>Editor</td>
<td>Y</td>
<td>N</td>
</tr>
<tr>
<td>Other</td>
<td>Y</td>
<td>Y</td>
</tr>
</tbody>
</table>

“relatedIdentifiers”:
• Paper, model documentation etc.

<table>
<thead>
<tr>
<th>ERROR type</th>
<th>Message/meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNKNOWN</td>
<td>new references have to be filled in the data base via GUI before using them with the API</td>
</tr>
</tbody>
</table>
2.4 Run the API

```
python citation_client.py <json_file>
```

2.5 Check citation information

In case of success the response includes a link to the landing page. Please use it to check your inserted citation information, e.g.:

```
```

It is also possible to check the citation information via the ‘Completed Citations’ tab in the GUI (see section 1.4).
## 2.6 Overview of top-level elements (JSON file) for citation

<table>
<thead>
<tr>
<th>Attribute</th>
<th>Sub-element</th>
<th>Definition</th>
<th>Obligation</th>
<th>used</th>
</tr>
</thead>
<tbody>
<tr>
<td>contributors</td>
<td>contributorType</td>
<td>&quot;ContactPerson&quot; or &quot;ResearchGroup&quot;,... (see Table 1)</td>
<td>mandatory</td>
<td>yes</td>
</tr>
<tr>
<td></td>
<td>givenName</td>
<td>if contributor is a person</td>
<td>optional</td>
<td>yes</td>
</tr>
<tr>
<td></td>
<td>familyName</td>
<td></td>
<td>mandatory</td>
<td>yes</td>
</tr>
<tr>
<td></td>
<td>email</td>
<td></td>
<td>mandatory</td>
<td>yes</td>
</tr>
<tr>
<td></td>
<td>affiliation</td>
<td></td>
<td>mandatory</td>
<td>yes</td>
</tr>
<tr>
<td></td>
<td>contributorName</td>
<td>&quot;familyName, givenName(s)&quot; or institute name</td>
<td>mandatory</td>
<td>yes</td>
</tr>
<tr>
<td></td>
<td>nameIdentifier</td>
<td>schemeURI, nameIdentifierScheme, PID</td>
<td>optional</td>
<td>yes</td>
</tr>
<tr>
<td>creators</td>
<td>creatorName</td>
<td>Minimum ONE creator is mandatory with</td>
<td>mandatory</td>
<td>no</td>
</tr>
<tr>
<td></td>
<td>givenName</td>
<td>• givenName, familyName and email!</td>
<td>mandatory</td>
<td>yes</td>
</tr>
<tr>
<td></td>
<td>familyName</td>
<td>or</td>
<td>mandatory</td>
<td>yes</td>
</tr>
<tr>
<td></td>
<td>email</td>
<td>• institute name</td>
<td>optional</td>
<td>yes</td>
</tr>
<tr>
<td></td>
<td>affiliation</td>
<td></td>
<td>optional</td>
<td>yes</td>
</tr>
<tr>
<td></td>
<td>nameIdentifier</td>
<td></td>
<td>optional</td>
<td>yes</td>
</tr>
<tr>
<td>dates</td>
<td>dateType</td>
<td>&quot;Created&quot; date as YYYY-MM-DD</td>
<td>automated</td>
<td>no</td>
</tr>
<tr>
<td></td>
<td>date</td>
<td></td>
<td>automated</td>
<td>no</td>
</tr>
<tr>
<td>descriptions</td>
<td>descriptionType</td>
<td>&quot;Abstract&quot;</td>
<td>automated</td>
<td>no</td>
</tr>
<tr>
<td></td>
<td>text</td>
<td>&quot;Coupled Model Intercomparison Project Phase 6 (CMIP6) ... &quot;</td>
<td>automated</td>
<td>no</td>
</tr>
<tr>
<td>formats</td>
<td>format</td>
<td>&quot;application/x-netcdf&quot;</td>
<td>automated</td>
<td>no</td>
</tr>
<tr>
<td>fundingReferences</td>
<td>funderName</td>
<td>Institute</td>
<td>optional</td>
<td>yes</td>
</tr>
<tr>
<td></td>
<td>nameIdentifier</td>
<td>with &quot;schemeURI&quot;, &quot;nameIdentifierScheme&quot;, and &quot;pid&quot;</td>
<td>optional</td>
<td>yes</td>
</tr>
<tr>
<td>identifier</td>
<td>identifierType</td>
<td>&quot;URL&quot; or &quot;DOI&quot;</td>
<td>automated</td>
<td>no</td>
</tr>
<tr>
<td></td>
<td>id</td>
<td>URL of landing page or DOI</td>
<td>automated</td>
<td>no</td>
</tr>
<tr>
<td>language</td>
<td>&quot;en&quot;</td>
<td></td>
<td>automated</td>
<td>no</td>
</tr>
<tr>
<td>publisher</td>
<td>&quot;Earth System Grid Federation&quot;</td>
<td></td>
<td>automated</td>
<td>no</td>
</tr>
<tr>
<td>publicationYear</td>
<td>year</td>
<td></td>
<td>automated</td>
<td>no</td>
</tr>
<tr>
<td>relatedIdentifiers</td>
<td>relatedIdentifier</td>
<td>recommended input4MIPs and paper references with DOI number</td>
<td>optional</td>
<td>yes</td>
</tr>
<tr>
<td></td>
<td>relatedIdentifierType</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>relationType</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>resourceType</td>
<td>resourceTypeGeneral</td>
<td>&quot;Dataset&quot;</td>
<td>automated</td>
<td>no</td>
</tr>
<tr>
<td></td>
<td>resourceType</td>
<td>&quot;Digital&quot;</td>
<td>automated</td>
<td>no</td>
</tr>
<tr>
<td>rightsList</td>
<td>rightsURI</td>
<td>&quot;<a href="http://creativecommons.org/licenses/by-sa/4.0/">http://creativecommons.org/licenses/by-sa/4.0/</a>&quot;</td>
<td>automated</td>
<td>no</td>
</tr>
<tr>
<td></td>
<td></td>
<td>&quot;Creative Commons Attribution 4.0 International License (CC BY-SA 4.0)&quot;</td>
<td>automated</td>
<td>no</td>
</tr>
<tr>
<td>subjects</td>
<td>subject</td>
<td>predefined subject as proposed in the CV (needs to be first subject!)</td>
<td>mandatory</td>
<td>yes</td>
</tr>
<tr>
<td></td>
<td>schemeURI</td>
<td>&quot;<a href="http://github.com/WCRP-CMIP/CMIP6_CVs">http://github.com/WCRP-CMIP/CMIP6_CVs</a>&quot;</td>
<td>mandatory</td>
<td>no</td>
</tr>
<tr>
<td></td>
<td>subjectScheme</td>
<td>&quot;DRS&quot;</td>
<td>mandatory</td>
<td>no</td>
</tr>
<tr>
<td></td>
<td>subject</td>
<td>further subjects are not used but have to be positioned after the DRS subject!</td>
<td>optional</td>
<td>no</td>
</tr>
<tr>
<td>titles</td>
<td></td>
<td>Mandatory. Just one line! Has to be unique.</td>
<td>mandatory</td>
<td>yes</td>
</tr>
</tbody>
</table>
2.7 JSON Example (some unread sections removed)

```
{
  "identifier": {
    "identifierType": "URL",
  },
  "creators": [
    {
      "creatorName": "Taylor, Karl E."
    },
    {
      "creatorName": "Lautenschlager, Michael"
    },
    {
      "creatorName": "Lawrence, Bryan"
    }
  ],
  "titles": [
    "PCMDI PCMDI-test1.0 model output prepared for CMIP6 ScenarioMIP (test)"
  ],
  "publisher": "Earth System Grid Federation",
  "publicationYear": "2017",
  "subjects": [
    {
      "subject": "CMIP6.ScenarioMIP.PCMDI.PCMDI-test-1-0",
      "subjectScheme": "DRS"
    }
  ],
  "contributors": [
    {
      "creatorName": "Lautenschlager, Michael"
    },
    {
      "creatorName": "Institut Pierre Simon Laplace (IPSL)"
    }
  ],
  "relatedIdentifiers": [
    {
      "relatedIdentifier": "10.1175/JCLI-D-12-00823.1",
      "relatedIdentifierType": "DOI",
      "relationType": "IsCitedBy"
    }
  ],
  "fundingReferences": [
    {
      "funderName": "Federal Ministry of Education and Research (BMBF)"
    },
    {
      "funderName": "Lawrence Livermore National Laboratory (LLNL)"
    }
  ]
}
```
## 2.8 Error codes and messages

<table>
<thead>
<tr>
<th>Error Message</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Traceback (most recent call last): File &quot;citation_client.py&quot;, line 17, in &lt;module&gt; info = netrc.netrc() File &quot;/usr/lib/python2.7/netrc.py&quot;, line 34, in <strong>init</strong> with open(file) as fp: IOError: [Errno 2] No such file or directory: '/home/user/.netrc'</td>
<td>You must provide a .netrc file in your home directory. &lt;br/&gt; It must contain a line <code>machine cera login USERNNAME password PASSWORD</code>&lt;br/&gt; Your <code>.netrc</code> file has no line for cera as mentioned above.</td>
</tr>
<tr>
<td>Traceback (most recent call last): File &quot;citation_client.py&quot;, line 18, in &lt;module&gt; login, account, password = info.authenticators(&quot;cera&quot;) TypeError: 'NoneType' object is not iterable</td>
<td>Your <code>.netrc</code> file has no line for cera as mentioned above.</td>
</tr>
<tr>
<td>400 No creators provided</td>
<td>Your JSON-File has no <code>creators</code>-Object which is necessary.</td>
</tr>
<tr>
<td>400 No titles defined</td>
<td>Your JSON-File has no <code>titles</code>-array which is necessary.</td>
</tr>
<tr>
<td>400 No subjects defined</td>
<td>Your JSON-File has no <code>subjects</code>-array which is necessary.</td>
</tr>
<tr>
<td>400 Persons must have email, givenName and familyName</td>
<td>Each person inside the objects <code>creators</code> or <code>contributors</code> must have all of the following fields: <code>email</code>, <code>givenName</code>, and <code>familyName</code></td>
</tr>
<tr>
<td>400 Unknown institute:Chocolate Factory</td>
<td>creators, funders or contributors without <code>email</code>, <code>givenName</code> and <code>familyName</code> are considered as institutes. There is no institute <code>Chocolate Factory</code> in the database</td>
</tr>
<tr>
<td>400 Unknown or ambiguous person: Alfred Neumann with email <a href="mailto:neumann@llnl.gov">neumann@llnl.gov</a></td>
<td>The mentioned person does not exist in the CERA database, or it exists multiple times</td>
</tr>
<tr>
<td>400 Could not update title in table citation: No data found</td>
<td>The first subject in <code>subjects</code> does not exist in the database. Misspelled?</td>
</tr>
<tr>
<td>socket.error: [Errno 111] Connection refused</td>
<td>The client was not able to establish a connection to the citation server. Please contact <a href="mailto:data@dkrz.de">data@dkrz.de</a> if the problem persists</td>
</tr>
<tr>
<td>400 Problem with person identifier: ORCID:0000-0002-6491-2135a: Ambiguous data</td>
<td>This person already has an ORCID, but it does not correspond with the provided ORCID in your JSON-File</td>
</tr>
<tr>
<td>400 No contributorType provided</td>
<td>At least one of the items in <code>contributors</code> does not have a contributorType</td>
</tr>
<tr>
<td>400 Problem with related identifier: doi:10.175/JCLI-D-12-00823.1: No data found</td>
<td>Some of the following fields in <code>relatedIdentifiers</code> are missing in the database (misspelled?): <code>relatedIdentifier</code>, <code>relatedIdentifierType</code>, <code>relationType</code></td>
</tr>
<tr>
<td>400 Could not attach list with related unit name id: 384 to citationid 1401 with contacttype ContactPerson in list_connect</td>
<td>One of the contact items (<code>creators</code> or <code>contributors</code>) in the JSON file has an issue. Probably misspelled the <code>contributorType</code>?</td>
</tr>
</tbody>
</table>