C3S 434 Progress Tracking, 19th Feb 2021

Previous meeting (Feb 12th):
https://docs.google.com/document/d/1es2hWJQEQD0m71atxKTbv1JMOykLZL3VXKBUjIYzW_U/edit?usp=sharing

Agenda:

(1) Contracts and invoices update
    - Awaiting payment from ECMWF then will pay subcontractors

(2) Disclaimer: requirement from EEA that applications have a link to a disclaimer (such as https://cds.climate.copernicus.eu/disclaimer-privacy -- but that is specifically about CDS registration and site).
    - Peter would like more clarity, where do we place the link to the disclaimer and what does the disclaimer contain - could we place below the application and not integrate it into the application, Hans-Martin unsure, suggests that Peter follows up directly with Silvia

(3) Additional documentation (query from Silvia)
    - Suggestion from Martin: detailed documentation of workflows should follow the approach used for applications published in the CDS .. tried and tested. However, it is out of scope for this contract.
        (i) James: way that applications are published - usually hidden from the CDS catalogue and that is where additional documentation would liev - not sure where it would be for this, usually documentation includes user guide, examples are in the CDS catalogue - check with Sam on this

(4) Summary of additional datasets

The datasets listed below are available in CDS and can potentially be added to the ECDE in the next release. There are a range of outstanding issues with all of them, but all have the level of quality and relevance needed for the ECDE.

Indicator	C3S Dataset	Comments
Total snow precipitation from November to April	sis-tourism-snow-indicators	Data is on NUTS regions. Need redesign of landing page. Email exchange with Martin, Rutger, currently defined on NUTS 3, would need to go backwards for NUTS 0, 1,2 - not sure if useful to have snow indicator on 0 or 1 level, on landing page usually show data on grid level, need to check documentation, could derive dataset in the toolbox potentially, Hans-Martin : makes sense to show at NUTS 3, not

		sure if it makes sense to aggregate, James: there is an altitude aspect so would need an extra altitude dropdown
Period with high amount of natural snow	sis-tourism-snow-indicators	Data is on NUTS regions. Need redesign of landing page.same comments as above
Fire weather index	sis-tourism-fire-danger-indicators	Need to understand how this relates to existing fire weather index from cems-fire-historical - been some emails around this, would need to involve Chiara
Mean Sea Level	sis-water-level-change-indicators	Data as time series at station locations. Can perhaps exploit work done at CDS .. but relevant application not yet visible. James not familiar with that dataset, could be point data, question of how to present hat as totally different type of dataset Hans-Martin: highly relevant dataset, would be important to include, Rutger has had a look into it, bit more complicated to visualise it, James to check what has been done already and report back
Annual highest high water level	sis-water-level-change-indicators	As above. Hans-Martin: even more relevant than Mean Sea Level
Solar Photovoltaic Power generation	sis-energy-derived-reanalysis	Not in gap analysis, but exploits new CDS content James: dataset should be relatively straightforward, has gridded data and NUTS 0 and 2 already, Hans-Martin: not familiar with this dataset, complex interactions of variables, depending on vectors may see a projected increase or decrease in some areas- important to clarify what is in there and what isn't, how robust the predictions are is important, James: there is documentation on the CDS for that dataset, in next 6 months there will be more datasets published including seasonal projections

Hans-Martin: Sam has shared a gap analysis but Hans-Martin has not had a look yet, will prepare for next week

(5) Survey outcomes:

Actions: Charlotte: identifiers for json files

Unclear what the issue is, 3 json files - one for consolidated main page text, one for drop down filters text and one for suggested text for pop-up, each have an “indicator” attribute, wondered if issue is that there are other json files and need to be clear which to use to pick up content… Paul: thinks he pointed it out first, more worried about indicator changing over time, is it an indicator title or a page title, sometimes they are different, if it changes it could mess up, either make clear that it doesn’t change somewhere or add another identifier, Charlotte: Peter had mentioned no identifiers and markdown text being used, Charlotte: they may well change, been asked to make adjustments so that we see the time bands on the indicator, should make some independent unchanging attribute, Charlotte to update next time

- split page text into two sections
- https://github.com/cedadev/c3s_434_ecde_page_text/blob/main/content/markdown/consolidated/Climatic_suitability_for_the_tiger_mosquito_-_season_length.md - page has been split into context, definition etc. could make it just 2 sections, explore and main page have slightly different information, could do this for each indicator, Hans-Martin: find this much clearer than this, unsure what provenance means and how this is different, Charlotte: where to go to get further information from CDS without confusing with the more detail page, can change words themselves, Hans-Martin: makes a lot of sense, talking about details here, Charlotte: table below is pop-up not displayed on page, Hans-Martin: provenance seems to be closer to data sources, group, everything except visualisation and navigation would be same? Charlotte: mainly yes, Hans-Martin: sections are fine, useful to group them in some way and highlight how main and Explore are different

- Rutger: split heat waves workflow into two, one for health and one for a climatological definition (energy sector?) (see https://c3s.maris.nl/health/heat-waves-and-cold-spells-in-europe.html) is possible but...

--- might be better to use a single workflow with different calls … hiding the selection option … as implemented in the mosquito workflow by Arko … Peter will look into it, Paul to follow up… have a way of passing parameters in javascript in the workflow, just pass a string as a second argument and the workflow function in the app source has a second variable with a default value, if you try to reach the app without the extra parameter takes you to default, otherwise can e.g. select suitability instead of season length, both in detail and the overview.

Martin: check what the ETC technical paper says about categorisation of heat waves: **the paper suggests that both the "health definition" and "climatological" definition are primarily relevant to the health sector.**
-- Charlotte to suggest some more appropriate name
-- see https://drive.google.com/file/d/1DKaruElqw4xEW3OWnbBCx2wktuZywYgC/view?usp=sharing (ETC paper).

Martin and Charlotte : create a clean table of indicators and categories .. for use in dynamic creation of the overview page. (defer), Charlotte will look at this for next week
Hans-Martin: health definition relevant to health sector, for climatological will be relevant in many sectors, we have alternative entry page, an index should only occur under one hazard, Johnny: also that we have two indicators with the same name - need to make it clear that they are different

(6) Gap Analysis:

- Two sis-tourism-snow-indicators : "Total snow precipitation from November to April" and "Period with high amount of natural snow". **Sector is "Tourism"?**

  Data is stored on NUTS-3 regions: do we have CDS Toolbox function to aggregate from NUTS-3 to NUTS-0,1,2?
  Martin , Johnny: look at sis-water-hydrological-change
  Hans-Martin: if this is prepared for different altitude levels then this would need to be considered in the aggregation, e..g. Different area sizes at higher altitude needs to be taken into account, James: think none of this data is available in the dataset, would be tricky to calculate, Hans-Martin: if we don't have the data then display at NUTS 3

- Four marine indicators:

  (i) sis-water-level-change-indicators : "Mean Sea Level" and "Annual highest high water level" -- time series at station locations. **Sector: Insurance and disaster risk reduction?**

  1) **CDS Application in preparation -- is this ready? James to look into this one**

https://docs.google.com/spreadsheets/d/1mu9vXOmDiLM9lxYy6Zn77z-IiCtFtBI8E2qopkAFvkY/edit#gid=292103152

Action: review new energy dataset
https://cds.climate.copernicus.eu/cdsapp#!/dataset/sis-energy-derived-reanalysis?tab=overview
-- review from Martin:
-- the dataset is quite varied, with some variables on NUTS regions, sometimes only at the national level, some variables on grids.
-- Solar Photovoltaic Power generation is held on a grid, at hourly frequency, 0.25 degree resolution. from 1979-2020. - only reanalysis currently, will be more in next few months at most, Hans-Martin: great if we can do something here but not the highest priority, very sector specific

(7) Fire indices: fire weather

Action: Johnny to follow up.. look at bias correction approach in CDS Application and see if it can be used in the ECDE with the Fire Weather Index

-- CDS application:
https://cds.climate.copernicus.eu/cdsapp#!/software/app-tourism-fire-danger-indicators-projections?tab=app

-- clarification of requirements: data is on NUTS regions, so the landing page will have to be slightly different. (mentioned above)

(8) Review of technical issues.

-- units on legend on plots (Martin has emailed Rutger and James), James: unfortunately a lot more fiddly to get it working, there is a way to do it, pass a list of strings into the legend title and it should put them on new lines - James has emailed Rutger this morning -Rutger will look into it, Charlotte: units for each indicator are passed through to the json files on her end too
-- Image capture: screen capture option being added in toolbox. James: has been added to the toolbox, Rutger and Johnny need to add: “snapshot=True”
-- flag to be added will go in next week for livemap .. snapshot=True (needs checking).

From Sam:

- sis-energy projections is being worked on - non-gridded section of it out for review
- Hydrology -sis-hydrology projections is back from review and awaiting input from provider, James: has seen the application but not sure on the timescales, Hans-Martin: many applications depend on a hydrology dataset,

AOB: James: Paul has added a ticket for publishing apps, James hasn’t done this yet as there were some changes that Eddie and James has made before publishing the apps and not sure if that was fed back to Paul’s workflows, not in the workflow histories as that is not in James’ space, there is a different space for published apps’ workflows, you can see if you go to the workflows for published apps, James will re-share in an email with list of published workflows, can share the snippets of changes

(1) Review of issues:

https://docs.google.com/spreadsheets/d/1Vjd__YRl9bYlv7YH1SkiGV5SABnXaOr1HzV9-D6SB2Q/edit#gid=0

(2) Review of maturity:

https://docs.google.com/spreadsheets/d/1mu9vXOmDiLM9lxYy6Zn77z-IiCtFtBl8E2qopkAFvkY/edit#gid=1571342132

Date	Milestone	Comments
Feb 3st.	Circulation of results from survey of workshop delegates by Martin	Delegates are asked to provide comments by Friday

		Jan. 29th.
Feb 5th.	Review of feedback at progress tracking meeting .. assignment of priorities for next release, and work for future contract(s).	
Feb 19th	Finalisation of CDS toolbox requirements	What do we expect in terms of regions, data download, image download. Expressed in terms of technical specifications and expected user experience.
Feb 26th	Final list of indicators for including in launch and end-of-project update.	
March 5th	Interim update in MARIS portal for internal review.	There should be additional indicators and features .. this update will give us a chance to catch any new consistency issues and see how the new features fit together.
Friday 2nd April	Final content published in MARIS portal for internal review before transfer to ClimateADAPT	
April 14th??	Final review and corrections complete, final content handed over.	2 days needed for transfer, further time allowed for review and fine tuning.
Friday 30th April	ECDE live and accessible in ClimateADAPT	