Antonio S. Cofiño 2020 CF Workshop 9-11 June 2020



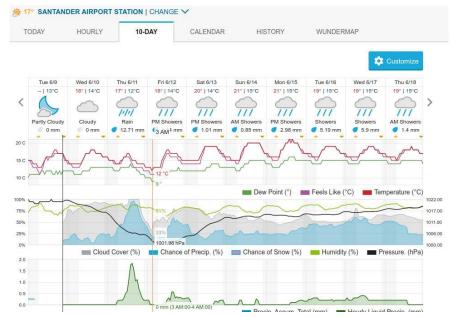
## The Venue: Santander, Spain Thanks COVID-19!



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The weather was not that good.



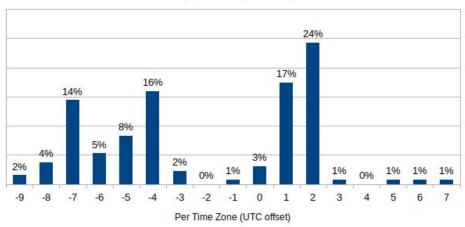


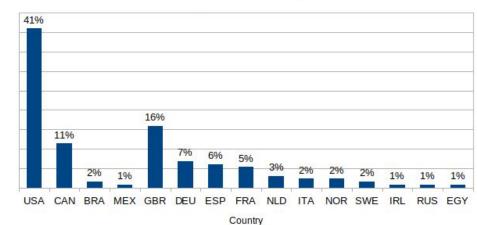
source: @eltomavistas by Eva Miguélez

## The good: Registration

- 132 Registrants
- 15 Time Zones
  - 3-5 possible "out-liars"
- 15 Countries
  - 71 reg. from North America
  - 59 reg. from Europe

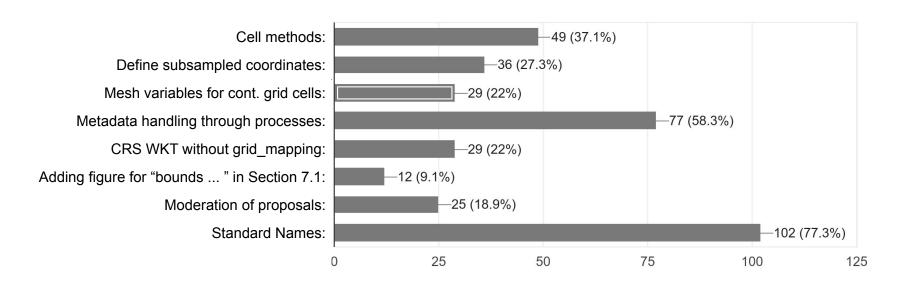
#### Registrants (132 total)





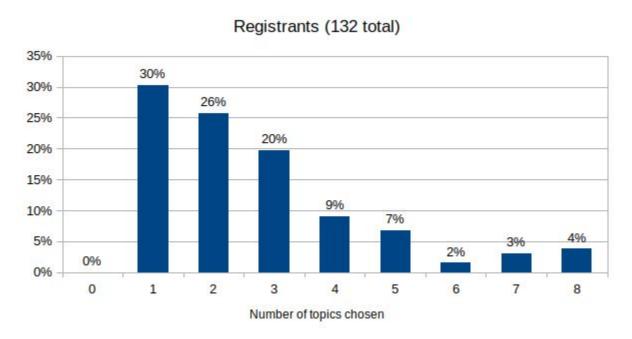
### Topic interest

### 132 registrants with multiple options



## Topic interest

Number of topics chosen by registry:



## **Participation**

### 65-90 participants in plenary sessions

- Thanks to EUMETSAT for providing virtual Rooms
- Virtual meeting preparation it's a technical challenge
- Thanks to D.Lee for setting-up

### Per topic:

- Cell methods: **21 participants**
- Define subsampled coordinates: 10 participants
- Mesh variables for cont. grid cells: Cancelled
- Metadata handling through processes: 32 participants
- CRS WKT without grid mapping: 4 participants
- Adding figure for "bounds ..." in Section 7.1: 6 participants
- Moderation of proposals: 6 participants
- Standard Names: 37 participants



## Participation

### The Virtual Social Hour:

- Not too much success,
  - but ongoing request to Zoom for providing "Beer/Wine/WEYLTD" feature.



### CF principles:

- Data should be self-describing: no external info needed to interpret it
- Driven by use-cases
- Practicable for both data-writers and data-readers
- Metadata easily parsed by humans as well as computer programs
- Minimise redundancy and any other possibilities for silly mistakes

CF Governance principle: CF it's a community effort

- CF Community: who use and contribute to CF
  - Anyone can contribute by proposing changes and participating in discussions
- What is to be community driven?:
  - Recruit new community members increasing perception and reach
  - o Learn how the community relates with CF, how the community uses CF.
  - o Provide new and helpful resources to community and educate on topics
- Are we there? What is needed/missing?
  - o More/Any training, tutorials, hands-on, tools ....

### CF GovernCF conventions and standard name committee:

- One chair (K.Taylor), 2 secretaries (A.Pamment and D.Hassell) and 11 more members made up from active contributors.
- Moderate proposals, contribute and develop CF

### CF Governance Panel

- 5 members: E.Davis (Chair, UCAR/Unidata, USA), J.Gregory (NCAS/UReading, UK),
   B.Lawrence (NCAS, UK), D.Lee (EUMETSAT, EU) and K.Taylor (PCMDI/LLNL, USA).
- Representatives from significant contributors
- Promote the CF usage and stewardship
- Appoint the chair of CF Committee

ance principle: CF it's a community effort

### Process to change CF Conventions:

- Anyone can propose changes or bring-up issues
  - Changes are discussed
  - Moderator summarize
  - Decision made by consensus
  - Change agreed:
    - 3 weeks without significant contribution
    - 3 contributors, and at least 2 committee members support
- Guidelines in <u>CONTRIBUTING.md</u> should help: more details at D.Lee presentation.

- Workflow migration to Github on Nov-2019
- Learn new GH tech and process: PR, commits, MarkDown, AsciiDoc, ... overwhelming?
- The cf-metadata mail list it's no more in use.
- The Trac site, it's no more in use.
- Both (mail list and trac) are a invaluable source of knowledge that needs to be curated:
  - CF conversations since 2002 to 2019.
    - http://mailman.cgd.ucar.edu/pipermail/cf-metadata/
  - Trac site with valuable open issues:
    - What to do with them?
    - https://cf-trac.llnl.gov/trac (no-reliable)
- Some tidy-up on <u>CF web page</u> it's needed

### [CF-metadata] test

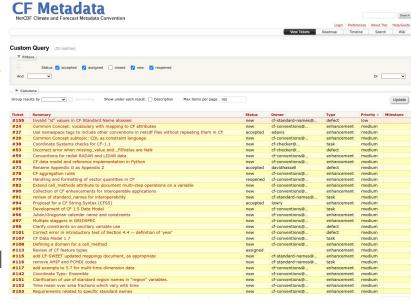
#### Brian Eaton eaton at near.ucar.edu

Tue Mar 19 18:15:06 MST 2002

- Next message (by thread): [CF-metadata] Re: CF NetCDF Conventions
- Messages sorted by: [date][thread][subject][author]

test

Brian Eaton | email: eaton at ucar.edu
Climate Modeling Section |
National Center for Atmospheric Research
P.O. Box 3000, Boulder, CO 80307 |

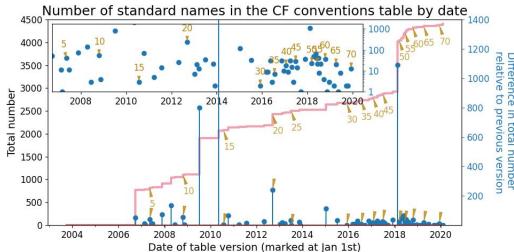


### **CF Standard Names**

- What is and how the standard name process works
- Any member of community may propose and comment on proposals.
- Fast track for existing similar terms
- The CF standard names committees vote in case no consensus
- The rules: <a href="http://cfconventions.org/standard">http://cfconventions.org/standard</a> name rules.html

### **CF Standard Names**

- The CF standard name grows:
  - https://github.com/cf-convention/cf-convention.github.io/issues/110

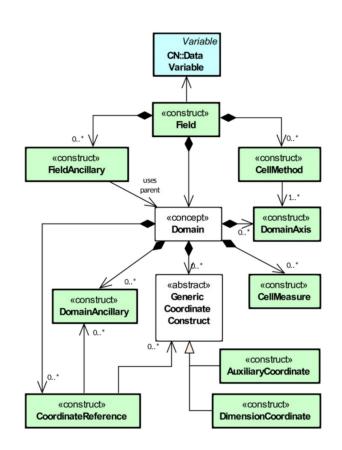


### **CF Standard Names**

- Ontologies: towards a formal representation of CF standard names and its publication:
  - https://github.com/cf-convention/discuss/issues/51
  - https://mmisw.org/ont/cf/parameter
  - Parsing CF standard names, J.Gregory (2010):
    - http://www.met.rdg.ac.uk/~jonathan/CF\_metadata/14.1/
    - Grammar, Uses, Derivation, Direction, Lexicon, Patterns, Standard names and analysis.

### CF Roadmap

- Long period with no releases:
  - o CF-1.6 (2012) to CF-1.7 (2017).
  - Very active period but not outcome release.
  - Dedicated human resources it's a key
- CF-1.8 in beginning of 2020
  - Netcdf4 Group and String type support, no more netcdf4 only classic data model
- CF-1.9 before 2021 CF Workshop:
  - Appendix for the CF Data model: A formal representation for the CF Conventions
- Proposal for 6 months release cycle



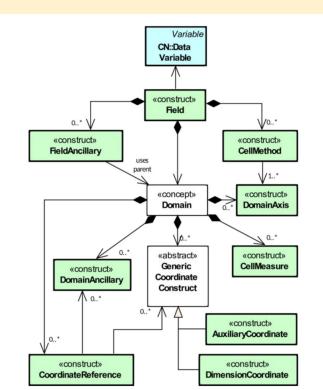
### CF software

- CF checkers:
  - CEDA/NCAS CF-Checker
    - CF Conformance Requirements and Recommendations document
    - https://github.com/cedadev/cf-checker
  - IOOS Compliance Checker
    - Plugin based, CF checks, ACDD, NCEI templates
    - https://github.com/ioos/compliance-checker
- cfdm python package
  - o implementation of the CF data model
  - https://ncas-cms.github.io/cfdm/

## Climate and Forecast Conventions and Metadata

### Call for contributing to CF Software page:

- http://cfconventions.org/software.html
- If your software tool is not listed, please submit issue to CF Discuss repo:
  - o <a href="https://github.com/cf-convention/discuss/issues">https://github.com/cf-convention/discuss/issues</a>



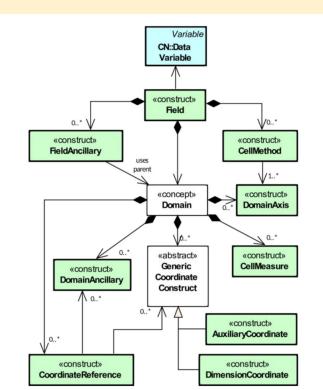
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- What do I have miss?
- What are you missing from the workshop?
  - Any important topic discussion?,
  - Some general discussion?
- What organization issues have you find?
- How can we improve forthcoming CF workshops?

Please comment now! Or write down on the google-doc Your feedback, as community member, is important!!

- Thanks to presenters.
- Thanks to breakout topic sessions chair and reporteaurs.
- Thanks to 2020 CF workshop committee:
  - Jim Biard, Dave Blodgett, Kevin O'Brien, Antonio Cofiño, Ethan Davis, David Hassell, Jessica Hausman, Aleksandar Jelenak, Daniel Lee, Jonathan Yu
  - It has been a challenge to organize this virtual workshop
  - o Blame to workshop committee for any issue:
    - CF Governance Panel as subsidiary ;)

Thank you, as community, for participating and contributing to CF.

Plan the next 2021 CF Workshop