Call for workshop FOSS4G conference: https://2022.foss4g.org/cfp-workshop.php
**Deadline**: 28 February 2022

In 2021: https://github.com/pangeo-data/foss4g-2021 (see https://callforpapers.2021.foss4g.org/foss4g-2021-workshop/talk/NMFGKD/ to get information on what has been submitted).

Some background information: https://docs.google.com/document/d/1KXKFWFB1x08lw2cL5e5zvbSYDe-vlIAiZ-By9ZGR5qU/edit?usp=sharing

**Proposal title (Please write between 2 and 20 words):**
Pangeo 101

**Session type:** Long Workshop (4 hours)

**Abstract (Please write between 10 and 50 words):**
The Pangeo community will provide an introduction to the Pangeo ecosystem for anyone interested to learn how to efficiently access, analyze and visualize data at scale.

**Description (Please write between 50 and 300 words):**

The Pangeo community will guide newbies to the Pangeo ecosystem (http://pangeo.io/) and learn about open, reproducible, and scalable Earth science.
The workshop is for novices and participants will learn about:

1) Accessing data,
2) Load and analyze data with Xarray
3) Visualize data with Hvplot
4) Understand how to scale with Dask

Example datasets are from Copernicus (Sentinel satellite data, Atmosphere Monitoring Service, Climate Change Service).
All the Python packages used during this training are Open-source.
The Training material is open-source (CC-BY-4) too.
The workshop can be provided online or in-person (depending on the covid-19 pandemic).

Requirements;
The participants need to bring their **laptop** but do not need to install anything as the resources will be accessed online using Pangeo notebooks provided by the Galaxy Training Infrastructure as a Service (https://galaxyproject.eu/tiaas.html).

This workshop will assume prior knowledge of the Python programming language. We recommend learners with no prior knowledge of Python to get familiar with Python, for instance using Software Carpentry training material (http://swcarpentry.github.io/python-novice-gapminder/).

**Additional Speakers (email addresses):**

Anne Fouilloux, University of Oslo, Norway
Alejandro Coca, The Alan turing Institute, UK (acoca@turing.ac.uk)
Pier Lorenzo Marasco, Consultant for JRC, Italy (pl.marasco@gmail.com)
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