(carbon)plan

Climate risk comparison data request

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Motivation

We are reaching out to a broad set of climate risk analytics companies, playing the role of a consumer requesting risk estimates. Our aim is to document the range of climate risk products currently available, and better understand how risk assessments vary among providers. We have intentionally narrowed our request to two small risk assessment case studies to minimize the burden associated with sharing this data.

Request

We are interested in the present and future risks of fire and flooding in the United States. We are specifically requesting data for two collections of addresses that we are using as target case studies:

- Fire risk to 128 locations in California (post offices)
- Flood risk to 214 locations in New York State (post offices and schools)

Addresses and latitude/longitude coordinates for each case study are in the CSV files named ny-flood.csv and ca-fire.csv attached to the e-mail with this request.

For each of the two cases above we request the following risk data:

- Present-day risk scores for each location, as well as a description of any relevant scale the scores are based on.
- Future (e.g., 2050s SSP2-4.5, 2 °C scenario, or similar) risk scores for each location, as well as a description of any relevant scale the scores are based on.

In both cases, if you do not distribute a risk score, we request your most commonly distributed metric (e.g., % chance of burning in 30 years, 1% annual exceedance probability flood depth).

Finally, we request all accompanying metadata and/or documentation you would typically share with customers to support their interpretation of the risk products you are distributing.

What we will do

We plan to write a public-facing article exploring the similarities and differences among risk estimates. The article would include charts and summary statistics describing the data requested here, alongside similar data from other participating companies. Per the standards of reproducible analysis used by our organization, we would include the data and metadata shared by your team as part of our analysis software in a public GitHub repo, with the code made available under an MIT license and any raw and derived data made available under a CC-BY license.