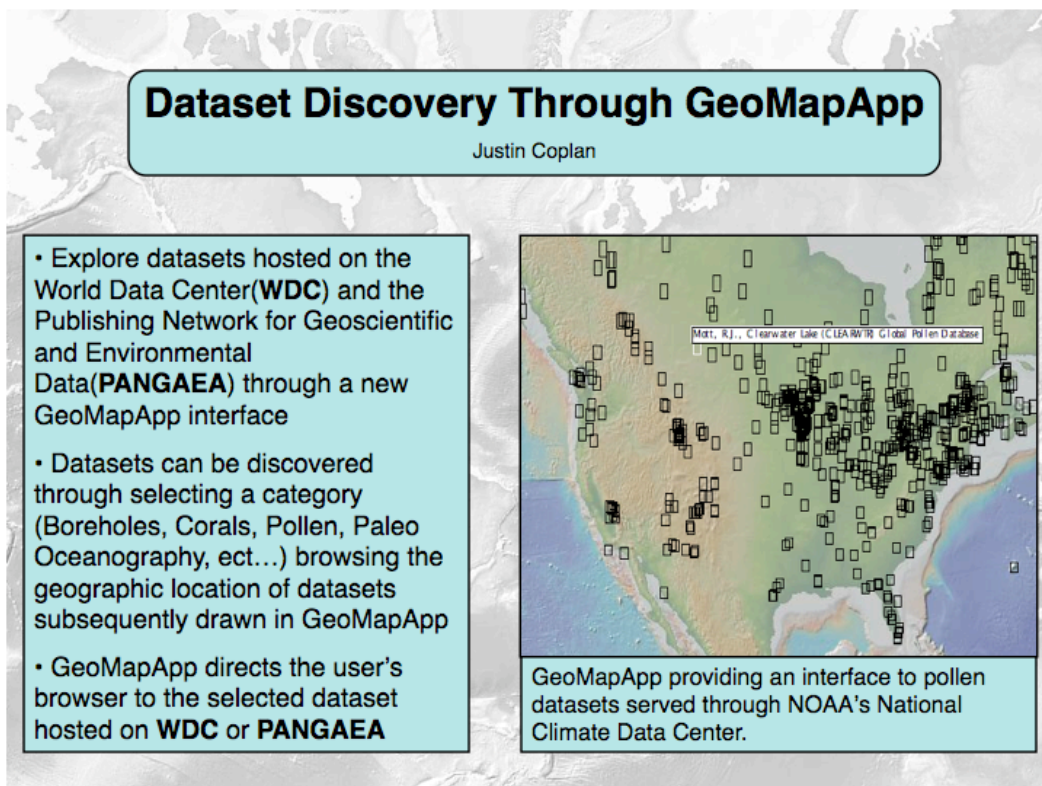


Dataset Discovery through GeoMapApp

Justin Coplan (Rochester Institute of Technology, Department of Computer Science) and William B. F. Ryan (Lamont-Doherty Earth Observatory of Columbia University)

Traditionally datasets have been found through text-based searches using engines such as Google, Bing, Yahoo; or by utilizing sites such as PANGAEA for GeoSciences. This type of search requires the user to have a clear sense of what they are looking for, and often returns an overwhelming number of matches for the user to wade through. I have implemented an alternative method of discovering datasets based on its geographical location. Through harvesting the West/East/South/North (WESN) bounds of datasets through Open Archive Initiative web services I can now allow the user to explore datasets pertaining to locations and themes. This has a very gentle learning curve suitable for education and the general public. My hypothesis is that researchers will find my tool more intuitive and enabling since it brings them one click away from downloading a dataset.



Dataset Discovery Through GeoMapApp
Justin Coplan

- Explore datasets hosted on the World Data Center(**WDC**) and the Publishing Network for Geoscientific and Environmental Data(**PANGAEA**) through a new GeoMapApp interface
- Datasets can be discovered through selecting a category (Boreholes, Corals, Pollen, Paleo Oceanography, ect...) browsing the geographic location of datasets subsequently drawn in GeoMapApp
- GeoMapApp directs the user's browser to the selected dataset hosted on **WDC** or **PANGAEA**

GeoMapApp providing an interface to pollen datasets served through NOAA's National Climate Data Center.