Overview and Access of Socioeconomic Data

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Learning Objective

By the end of this presentation, you will be able to:

• Retrieve **socioeconomic data**

• Evaluate and apply socioeconomic data useful for assessing flood risk and relief planning
Outline

• Overview of NASA Socioeconomic Data and Application Center (SEDAC)
• Demonstration of data access from SEDAC
Overview SEDAC
Socioeconomic Data and Applications Center (SEDAC)

http://sedac.ciesin.columbia.edu/

User Registration Required
Socioeconomic Data and Applications Center (SEDAC)

http://sedac.ciesin.columbia.edu/

- There are 203 datasets from 16 thematic areas
- Information and documents about the datasets are available online
- Multiple options for data formats and downloads
- Interactive mapping and visualization possible
SEDAC: Global Population Density

http://sedac.ciesin.columbia.edu/data/set/gpw-v4-population-density

• Socioeconomic data is available that can be used along with flood monitoring tools to facilitate flood management and impact assessment activities

• Example:
  – Global and Urban Areas
  – Population Density
  – Global Roads and Dams
  – Nuclear Power Plant Locations
  – Population Exposure Estimates in Proximity to Nuclear Power Plants
SEDAC: Global Population Density Data Download

http://sedac.ciesin.columbia.edu/data/set/gpw-v4-population-density

- Click to download
- Multiple formats available:
  - GeoTIFF
  - PDF
  - Microsoft Excel file (.xlsx) with country-level information and sources
  - Text file (.txt) with a log of changes to the dataset by version
SEDAC Global Roads


Global Roads

Data Download

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<tr>
<th>Region</th>
<th>Geodatabase</th>
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SEDAC: Global Reservoir and Dam

SEDAC: Nuclear Power Plant Locations

Demonstration of Data Access From SEDAC
Next:
Exercise in Flood Case Study Analysis
North Carolina Floods, 7-9 October 2016