

Exceptional service in the national interest



The National Shelter System
Shelter Information Management

Data Import and Export for Emergency Preparedness Collaborations

Cuauhtemoczin Rodriguez, UC Davis, B.S., Computer Science and Engineering, est. June 17
Mentor: Russell Gayle, 6522, Interactive Systems Simulation and Analysis, July 29, 2015

Sharing Public GIS Data on FEMA GeoPlatform

Provision and Integration of National Shelter System Data

Introduction

Both FEMA GeoPlatform and the National Shelter System are web-based data sources being integrated into a the Standard Unified Modeling, Mapping and Integration Toolkit for Homeland Emergency Response, Planning, & Analysis (SHERPA) capability. SHERPA is a modeling and simulation software that allows emergency responders and decision makers access to models and simulation output for operational response.

The Objectives

My project with GeoPlatform is to find a way to display geospatial data from SHERPA output onto the GeoPlatform so as to find an alternate to the current Google Earth Plugin, which is being deprecated by Google.

My project with the National Shelter System (NSS) is to write a model wrapper to encapsulate the real-time data and integrate it into SHERPA.

The Plan

The plan is to generate metadata that conforms to the required ISO standard and upload the open data sets via the data.gov 'harvester'.

The plan is to find the best input (region, state, zip code) for the NSS model. Once the input type is decided the model can be written to integrate NSS into SHERPA.

The screenshot shows the GEOPLATFORM.gov dataset catalog interface. It displays a map of North America and a search bar. The main content area shows a list of datasets with the following details:

- U.S. Hourly Precipitation Data** (Federal): 100,892 datasets found. Includes links for HTML, Esri REST, KMZ, and PDF.
- National Park Boundaries** (University): Earth Data Analysis Center, University of New Mexico -National Park Service unit boundaries. Includes links for WMS, WFS, HTML, ZIP, gml, and KML.
- Military Installations, Ranges, And Training Areas** (University): Includes links for WMS, WFS, HTML, ZIP, gml, and KML.

#	NAME	ADDRESS	CITY	COUNTY	STATUS	E/P CAPACITY	CURR POP	MAP
STATE	ZIP							
					Closed	181/90		
					Closed	160/0		
					Closed	400/200		
					Closed	300/150		
					Closed	200/100		
					Closed	1000/500		
					Closed	100/0		
					Closed	217/108		
					Closed	4250/2125		
					Closed	1000/500		
					Closed	656/329		
					Closed	300/150		
					Closed	50/0		
					Closed	100/50		
					Closed	1000/500		
					Closed	400/200		
					Closed	156/0		

Sensitive data has been erased