

Meeting Notes  
FGDC Address Subcommittee  
February 5, 2020  
Webinar

Attendance (27 Total):

Aisha Ahmad, US Postal Service  
Andrew Bailey, Department of the Interior  
Dierdre Bevington-Attardi, Census Bureau  
Dave Cackowski, Census Bureau  
Josh Coutts, Census Bureau  
Jonathan Duran, State of Arkansas  
Chris George, US Virgin Islands  
Doug Geverdt, Department of Education  
Morgen Healy, AppGeo  
Laura Hogberg, Census Bureau  
Christian Jacqz, Commonwealth of Massachusetts  
Karla Kaywork, Census Bureau  
Melanie Laverdiere, Oak Ridge National Laboratory  
Lynda Liptrap, Census Bureau  
Julia O'Brien, FEMA  
Phil Markert, Department of Homeland Security  
Amy Nelson, Department of Transportation  
Raúl Ríos-Díaz, iCasaPR  
Dan Ross, State of Minnesota  
Andrew Rowan, State of New Jersey  
Diane Snediker, Census Bureau  
Thomas Springsteen, HIFLD/Booz Allen Hamilton  
Mark Tuttle, Oak Ridge National Laboratory  
Ed Wells, URISA  
Martha Wells, Spatial Focus/URISA  
Nate Workman, FEMA  
Matt Zimolzak, Census Bureau

## Meeting Summary

### **Action Items from January Meeting:**

- Update on FIPS vs. GNIS Codes – Matt Zimolzak (Census Bureau):
  - According to the American National Standards Institute (ANSI), Geographic Names Information System (GNIS) codes are the official codes that replaced Federal Information Processing Standards (FIPS) codes more than ten years ago. Because of licensing issues and costs to acquire them, there are questions about using them in the NAD. FIPS codes are maintained by the Census Bureau and can be used for state and county codes in place of the GNIS.

### **NAD Updates, Amy Nelson (Department of Transportation/DOT):**

- DOT is still in the process of hiring a new NAD support contractor and is getting close to completing the procurement process.

### **National States Geographic Information Council (NSGIC) NAD Stakeholder Workshop, Lynda Liptrap (Census Bureau):**

- In conjunction with the NSGIC Midyear Meeting, NSGIC is convening a half-day workshop for state and federal stakeholders of the National Address Database.
- The goals are to:
  - Develop a recommendation for the lead federal agency for the NAD;
  - Explore potential funding sources for NAD support;
  - Identify existing programs that can be used to support the NAD;
  - Explore NAD value and beneficiaries, including federal and state agencies and programs and in the private sector;
  - Define the role NSGIC can play to facilitate the development and aggregation of the state address databases for incorporation into the NAD.
- The workshop will be held March 2, 2020, 8:30am-12:30pm at the Hotel Albuquerque.

### **Oak Ridge National Laboratory USA Structures Program, Mark Tuttle, Melanie Laverdiere (ORNL)**

- Outlined goal to “build and maintain the nation’s first comprehensive inventory of all structures larger than 450 sq. ft. for use in Flood Insurance Mitigation and Emergency Preparedness and Response.” Multiple agency hardware and automated methods are used for:
  - Feature exploitation, pattern recognition, and machine learning;
  - Benchmark comparisons;
  - Data design and development.
- Described the generalized workflow that uses imagery and training data to build a model to include post-processing verification. False positives are removed from the final dataset and distorted shapes are taken out and fed back into the training model.

- A recently completed mass data conflation of structures, address points, and parcel boundaries in Florida resulted in 6.645 million structures and 9.74 million addresses. The U.S. database is scheduled to be completed by September 2021.
- Discussion
  - Christian Jacqz (Commonwealth of Massachusetts) will share statewide structures that were developed using change detection methodologies. Ed Wells (Spatial Focus/URISA) and Jonathan Duran (State of Arkansas) will also follow-up with ORNL.
  - Martha Wells (Spatial Focus/URISA) warned that a model that uses one point per parcel could leave out apartment buildings. ORNL acknowledged that this is a difficulty with the data model.
  - Raúl Ríos (iCasaPR) proposed a meeting for Puerto Rico stakeholders to provide feedback on 2/7.

#### **Address Workflow Validations Matrix, Matt Zimolzak (Census Bureau):**

- Presented the subgroup's work on a detailed supplement to outline and visualize address workflow charts, with suggested validations and tests in an Address Workflow Validations Matrix. This matrix is both influencing and influenced by the ongoing work of the Address Content Subgroup, and is a continuously evolving work in progress. The state-based address workflow chart provides detail for state/system actor actions, primarily on spatial data load test, state schema normalization, and validations.
- The Address Workflow Validations Matrix organizes features in a matrix format for easy cross-references. Validation categories are spatial, schema, data, and anomalies and include the Actor/Box #, six FGDC Address Classes, and relevant notes/information. If time permits, Individual Validations Reviews are conducted. Future features will be added to include additional Box #s for other actor, address workflow charts, and new tabs for the FGDC Address Standard and Validation Test IDs.
- Introduced subgroup members: Nate Workman (FEMA), Joe Sewash (State of North Carolina), Martha Wells (Spatial Focus/URISA), Dan Ross (State of Minnesota), and Matt Zimolzak (Census Bureau).

#### **Address Content Subgroup Update: Dave Cackowski (Census Bureau)**

- Presented a summary of the subgroup's activities since August 2019:
  - Provided white papers in response to committee questions;
  - Reviewed Federal User Group workshop recommendations;
  - Discussed additional place name items and attributes;
  - Prepared full report for submittal to the Address Subcommittee (final report release planned for the April 2020 Address Subcommittee Meeting).
- Contact Dave Cackowski (Census Bureau) for more information on the subgroup.

#### **Puerto Rico Address Data Working Group Update: Lynda Liptrap (Census Bureau)**

- Described Phase 2 objectives to identify, inventory, and document the challenges facing federal agencies that manage Puerto Rico address data. This working group has

completed the initial draft of the Phase 2 report (1/31/20) and is expected to release the final report to the Address Subcommittee at the March 11, 2020 meeting.

- For more info on the PRADWG:
  - Address Theme Community
    - <https://communities.geoplatform.gov/ngda-address/>
  - Puerto Rico Address Data Working Group
    - <https://communities.geoplatform.gov/ngda-address/puerto-rico-address-data-working-group/>
  - PRADWG as a Proof Point for the Federal Data Strategy
    - <https://strategy.data.gov/proof-points/2019/07/26/pradwg/>

#### **Puerto Rico Civic Address Vulnerability Evaluation (PRCAVE) Update, Raúl Ríos-Díaz (iCasaPR):**

- Reported that the recent earthquakes in Puerto Rico have impacted the southern part of the island. New municipios are being included in the emergency declaration and the situation is still evolving.
- Plans are in development to work with ORNL on the structures database for Puerto Rico. Maps and statistics of addressing types, by municipio and ZIP Code, will be used to update this database. For some municipios, the ORNL data may be the only existing open source data available for specific locations/addresses.
- The plan is to use the PRCAVE forum and an upcoming press conference on March 26, 2020 to increase stakeholder interest.

#### **Action Items**

- Christian Jacqz (MA) will talk to Mark Tuttle at ORNL.
- Raul Rios (iCasaPR) will give feedback on structures data to ORNL.
- Ed Wells (Spatial Focus/URISA) will follow up on structures data with ORNL.
- Jonathan Duran (AR) will follow up on structures data with ORNL.
- Julia O'Brien (FEMA) and Jonathan Duran (AR) will be in contact on the structures data.

**Next meeting:** Wednesday, March 11, 2020 at 11am ET.