



Working Group for Enhance Emergency Response

Initial Plan Review

Vision Statement

- December 2018 the M&O decided based on Hurricane Florence that there needed to be a working group for Emergency Response issues across all responding agencies.
- The purpose of the Working Group for Enhanced Emergency Response is to identify opportunities for **enhanced collaboration** in preparation for and response to emergency events. This includes understanding the roles and responsibilities of each agency involved in an event to make data creation more efficient and **avoid duplication** of data development and analysis. The intended outcome is to better utilize geospatial data and technology available through public and private geospatial professionals who are prepared to support state and local emergency operations. During an emergency event any community may need emergency technical GIS assistance to better identify and communicate problems, allocate resources, guide emergency response, and aid timely and efficient assistance to the public

Goal and Objective-

1. Develop capabilities to share information specifically for event response by clarifying business needs in state and local Emergency Operations Centers (EOCs) that can benefit from geospatial data and technology.

Goal- one

- Create a portal that has the ability to be secured for use of information during events.
- The approach is to create an online portal through the State's ArcGIS Online (AGOL) site where information **specific to events** could be shared in coordination with sites that already exist for daily use. WGEER will work with the manager of the State AGOL (currently Dianne Enright) and the NC OneMap team (currently David Giordano and Brett Spivey) to design a process for setting up this portal.
 - This would be password protected and each organization would set a Point of Contact to be responsible for providing information during an event that would be available to all GIS responders.
 - The group would come up with predetermined information categories that would be added to keep clutter at the location to a minimum and hinder duplicate information.

Goal- one

- This would not be a location for data that is normally stored and maintained in other locations. These data would stay in their current locations.
 - Predefined datasets that have been used in the past are in the review document
 - WGEER would define when this information would be updated and what data would be allowed on the portal.
 - WGEER would define rules for what information can be added and by whom.
 - The group would work with a FEMA template to be used in emergency response (this has already been provided).

Goal- one

- State Agencies and Local Governments would have access and would define owners
- Federal agencies often have their own portals but we would allow them to tie to this portal so information could be discovered for their needs as well.
- Utility organizations may have a place in the State portal to share selected data temporarily however they will be able to use their own locations.
- Each organization would set a Point of Contact for the WGEER Portal that would be responsible for maintaining their organization's page on the WGEER Portal. WGEER would come up with a predefined list of who will have access to this system.

Goal- one

- WGEER would create rules for information that should be provided on this portal so as not to create a location that would be so unwieldy or become unusable.
- WGEER would define the Layout for the data location.
- WGEER would utilize the organizational structure provided by CGIA (see Document NCOM GPT 2.0 guidelines recommendations best practices- Attachment B)
- WGEER would work through City/County issues including access from local locations, and access to the State portal.

Goal and Objective-


2. There are several agencies and local governments that have staff willing and able to assist during events. With this in mind WGEER recommends creating a plan for activating people during events.

Goal- Two

- Develop criteria for volunteers from state agencies. Create the state process for teams to be requested during events.
- Develop criteria for volunteers from Local Government to Volunteer.
 - State agency use for GIS requests
 - North Carolina Local Government Information Systems Association (NCLGISA) use for IT Requests

Goal- Two


- National Alliance for Public Safety GIS Foundation (NAPSG) created criteria for GIS staff during events and what requirements would need to be filled to staff different roles within an event. This credentialing would not be possible for this hurricane season but this would be something that courses could be put in place for the future.

 Public Safety GIS Position Qualifications Version 1.0		
GEOGRAPHIC INFORMATION SYSTEMS (GIS) FIELD DATA ENTRY TECHNICIAN		
TYPE	TYPE 1	NO TYPE 2
DESCRIPTION	The Type 1 GIS Field Data Entry Technician is responsible for gathering location-based data from the field to support an incident using mobile data collection devices that are Global Positioning System (GPS) capable.	Not Applicable
CATEGORY	CRITERIA	CRITERIA
EDUCATION	Not Specified This position does not require a formal education requirement. All education for this position is provided on the job and through the training listed below. NOTES: Not Specified	Not Applicable
TRAINING	1. IS-100: Introduction to Incident Command System (ICS) 2. IS-200: ICS for Single Resources and Initial Action Incidents 3. IS-700: National Incident Management System (NIMS) An Introduction NOTES: Additional incident-specific training may be needed based on the characterization of the threat or hazard.	Not Applicable
EXPERIENCE	Knowledge, Skills, and Abilities: 1. Knowledge of and ability to use common location reference systems to include: United States National Grid (USNG), latitude/longitude, and other appropriate location languages in support of disaster operations 2. Ability to locate and navigate to features using a paper map and compass 3. Ability to use and maintain mobile data collection devices such as mobile smart phones, tablet-based hardware, laptops, GPS enabled devices, GPS field data collectors, and GPS enabled cameras. 4. Ability to edit geometry of a point, line, and polygon 5. Ability to edit attributes of geospatial data in a GIS 6. Ability to add data across multiple file formats from different physical sources into field data collection applications Experience: Three months of practical experience with GPS capable mobile data collection devices. Practical experience can include, but is not limited to, time on a job using GPS capable mobile data collection devices. NOTES: Not Specified	Not Applicable
PHYSICAL/ MEDICAL FITNESS	Ability to perform duties under moderate circumstances characterized by working consecutive 12-14 hour days under physical and emotional stress for sustained periods of time. This position may require work outdoors and in the field in disaster environments.	Not Applicable

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GEOGRAPHIC INFORMATION SYSTEMS (GIS) FIELD DATA ENTRY TECHNICIAN

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 Public Safety GIS Position Qualifications Version 1.0		
GEOGRAPHIC INFORMATION SYSTEMS (GIS) SUPERVISOR		
TYPE	TYPE 1	NO TYPE 2
DESCRIPTION	The Type 1 GIS Supervisor is responsible for: 1. Providing oversight on GIS activities of multiple GIS Teams during expanding and/or complex incidents. 2. Managing GIS Team Leaders and coordinates staffing and resources to appropriately support mission specific needs and activities.	Not Applicable
CATEGORY	CRITERIA	CRITERIA
EDUCATION	Completion of a formal GIS-related educational or certificate program. or Recognition of prior learning focusing on demonstrated knowledge and skills. NOTES: GIS-related education comes in a variety of formats including GIS certificates, GIS degrees, or GIS on the job training	Not Applicable
TRAINING	All training identified for the Type 1 GIS Analyst and the Type 1 GIS Team Leader, including: 1. IS-100: Introduction to Incident Command System (ICS) 2. IS-200: ICS for Single Resources and Initial Action Incidents 3. ICS-300: Intermediate ICS for Expanding Incidents 4. ICS-400: Advanced ICS for Command and General Staff - Complex Incidents 5. IS-700: National Incident Management System (NIMS) An Introduction 6. IS-701: NIMS Multi-Agency Coordination System (MACS) Course 7. IS-703: NIMS Resource Management 8. IS-800: National Response Framework, An Introduction 9. IS-922: Applications of GIS for Emergency Managers 10. E0170: Hazus-Multi-Hazard for Hurricane 11. E0172: Hazus-Multi-Hazard for Flood 12. E0174: Hazus-Multi-Hazard for Earthquake 13. E0176: Hazus-Multi-Hazard for Flood Plain Managers 14. Virtual Course: Introduction to the Hazus-MH 2.0 Storm Surge Model available at www.fema.gov 15. E0179: Application of Hazus Multi-Hazard for Disaster Operations 16. E0190: ArcGIS for Emergency Managers Formal or informal training consistent with GIS industry standard certification or educational programs to include: 1. Geospatial database management 2. Editing and managing GIS resources 3. Creating and executing GIS queries 4. Use of scripting applications 5. Acquisition and use of remote sensing products	Not Applicable

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GEOGRAPHIC INFORMATION SYSTEMS (GIS) SUPERVISOR

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(<https://www.napsgfoundation.org/all-resources/qualifications-and-credentialing/>)

Goal- Two

- There are mechanism in place to request GIS assistance from Emergency Management (NCEM) and to be deployed through current processes.
 - Guide prioritizing deployment of people to places in need
 - Potential requestors checklist of information that would be necessary for those that are coming to assist.
 - Work through existing systems in NCEM (Training, Exercise & Response Management System, [NCTERMS](#)) that will allow us to set up mission ready packages.
 - Work with current participant groups to test for the 2019 hurricane season
 - Work with each group to administer their own people in the future
 - Work through a table top and training for the ICS components for GIS responders.

Goal- Two

- Work with end users and requesters to clarify potential needs
- Come up with checklists for persons who may request assistance so that it is easier to bring in assistance.
- Work with previously impacted areas to see what their needs may be.
- Ask for assistance in advance if you know you have limited staff and may be highly impacted.
- Phone calls for coordination at the state level would be set so all responding agencies can coordinate their work.
 - This call would define specific needs for the current event as well as define who was available if people were necessary.
 - This would be a call for GIS work in the State. There are many federal calls that take place and we would have to work out the timing of calls to keep from interfering with other needs during an event.
- **Include counties and cities**

Today's Situation

- Because this was a response document specifically because of a hurricane we worked quickly to pull these recommendations together.
- The working group is ready to move forward if recommendations are approved.
- We have already started conversations with AGOL

Members of the Working Group EER:

- Hope Morgan, Chair (NC Emergency Management)
- Sallie Vaughn (Person County)
- Alice Wilson (City of New Bern)
- Jason Clodfelter (Forsyth County)
- Silvia Terziotti (US Geological Survey)
- Lee Worsley (Triangle J COG)
- Ron York (Duke Energy)
- Dan Madding (NC Agriculture)
- Pokey Harris (NC 911 Board)
- Adam Blythe (NC Insurance)
- Dianne Enright (NC Health and Human Services)
- Colleen Kiley (NC Emergency Management)
- John Farley (NC DIT-Transportation)
- Dean Grantham (NC Environmental Quality)
- Michael Cline (Office of State Budget and Management)
- John Cox (NC Administration)
- Sarah Wray (NC DIT-Transportation)
- Tim Johnson (CGIA)
- David Giordano (CGIA)
- Brett Spivey (CGIA)
- Jeff Brown (CGIA)

Questions?

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