

# Emergency Response Demonstration Project – 2012 Post Hurricane Sandy (Rodanthe) User Guide for Desktop

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Scenario:	Hurricane Sandy has made landfall and there has been reported damage to NC 12 in Rodanthe.
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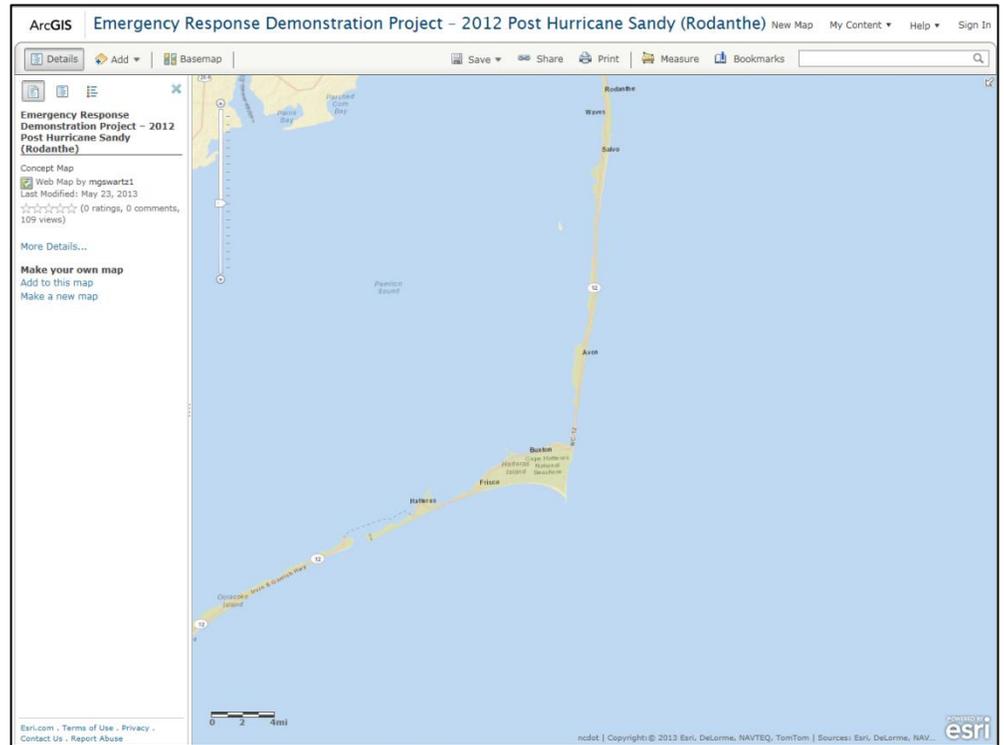
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# Open Emergency Response Demonstration Project - 2012 Post Sandy (Rodanthe)

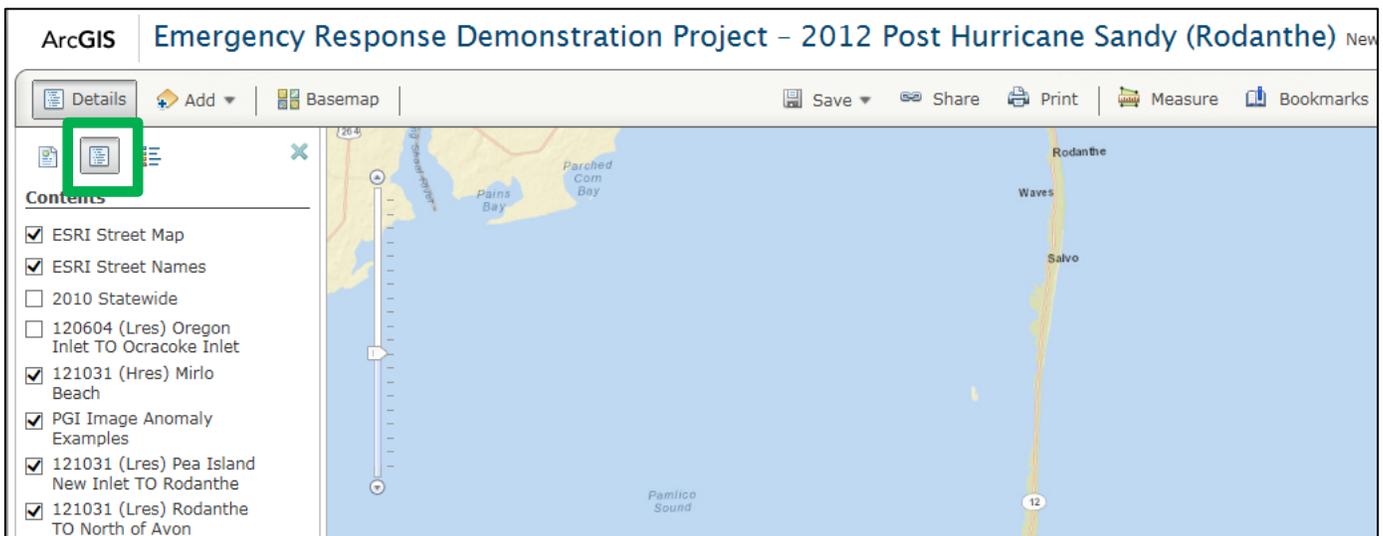
Click on the provided link

- <http://bit.ly/12JG8IS>



## Open the Map's Contents List

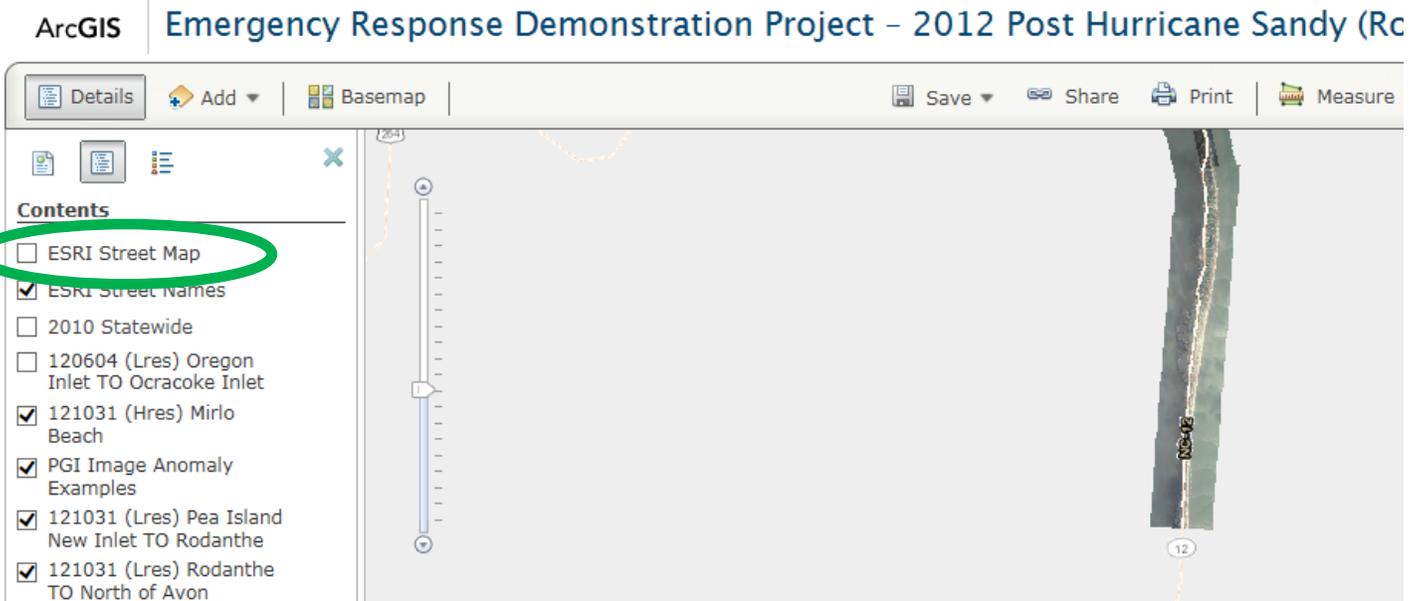
Click on the "Show Content of Map" button



**Important Note:** Features are displayed in the map based upon the order they are listed in the Content list. The top most listed feature that has a check mark will be displayed on top of all the other features.

# Turn off the “ESRI Street Map”

🖱️ **Uncheck the box beside the feature layer “ESRI Street Map”**

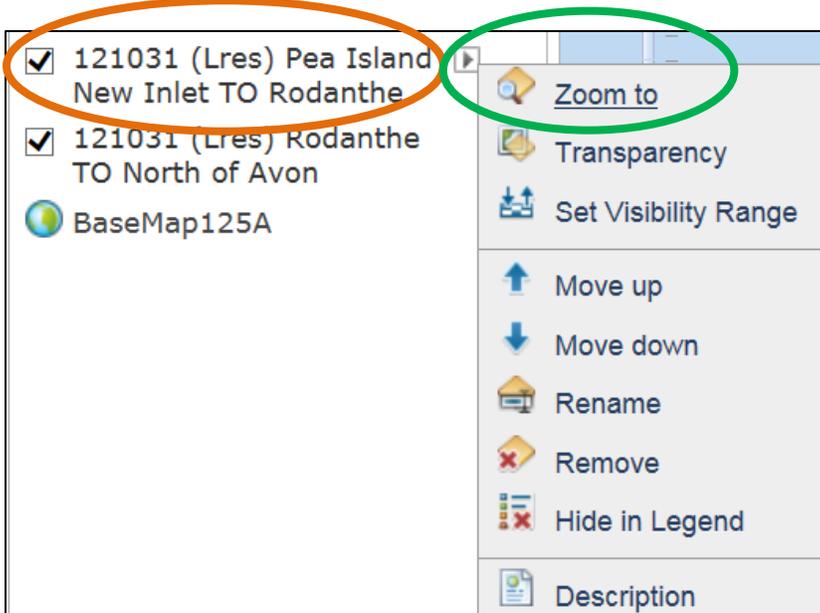


## Locate the area of Interest

**Note: There are two ways to locate the area of interest.**

### 1) Using the “Zoom to” tool

- **Click on the imagery from the content window whose name covers the area of interest**
- **For this exercise select “121031 (Lres) Pea Island New Inlet to Rodanthe”**



🖱️ **Click on the arrow beside the name of the selected imagery**

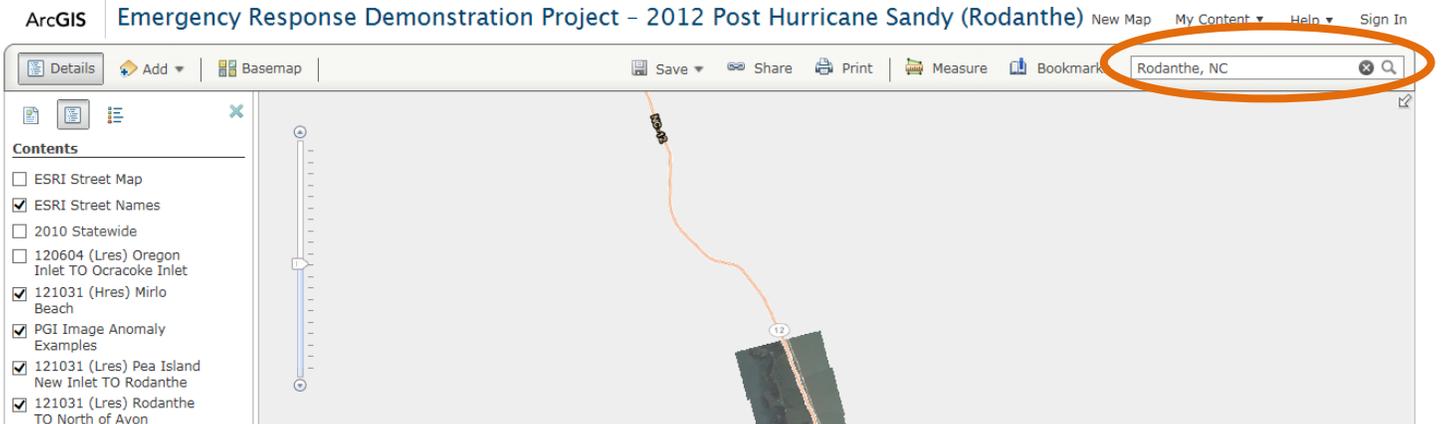
🖱️ **Click on “Zoom to”**

## 2) Using Place Names in the search tool

 **Type the name of a city that is closest to the Area of Interest**

- For this exercise Type “Rodanthe, NC”

**Note: Always include “NC” when searching by a city name**



### Moving Around the Map

#### Using the Scroll Wheel to Zoom

-  **Scroll forward to zoom in closer**
-  **Scroll backward to zoom out farther**

#### Using the Slider Bar to Zoom

-  **Slide up to zoom in closer**
-  **Slide Down to zoom out farther**

[Click on link to view Table about “Understanding Image Resolution, Zoom Level \(Slider Bar\), and the Display”](#)

#### Using the Mouse to Pan

-  **Click a Mouse button and hold**
-  **Move Mouse in opposite direction the user wishes to move**

- ❖ **Pan North- Move mouse down**
- ❖ **Pan South- Move mouse up**
- ❖ **Pan East- Move mouse to the Left**
- ❖ **Pan West- Move mouse to the right**



# Viewing Imagery from Different Dates

- 📍 **Locate area of interest**
- 📍 **Zoom to desired level**
- 📍 **Toggle applicable imagery located in the Content Window**
  - For this exercise – Either check the “2010 Statewide” or the “120604 (Lres) Oregon Inlet to Ocracoke Inlet” imagery. Uncheck both boxes to see the most recent imagery.

**Note:** To toggle back and forth between the imagery, just check and uncheck the applicable imagery source in the Contents list.

## Contents

- ESRI Street Map
- ESRI Street Names
- 2010 Statewide
- 120604 (Lres) Oregon Inlet TO Ocracoke Inlet

## NC12 taken in 2010



## Contents

- ESRI Street Map
- ESRI Street Names
- 2010 Statewide
- 120604 (Lres) Oregon Inlet TO Ocracoke Inlet

## NC12 taken on June 6, 2012



## Contents

- ESRI Street Map
- ESRI Street Names
- 2010 Statewide
- 120604 (Lres) Oregon Inlet TO Ocracoke Inlet

## NC12 taken on Oct. 31, 2012



# Using the Measurement Tool

## Measuring an Area<sup>1</sup>

- Select the “Area” tool
- Select the appropriate units
- Draw a polygon (Single Click)
  - Data on points around area to make polygon
  - Must have at least 2 points to see the polygon forming
- Close polygon (Double Click)

**Note:** The polygon shape will disappear after the Measure Detail Box is closed

**Note:** To measure another area, close the Measure Detail Box and reopen the Measure Detail Box

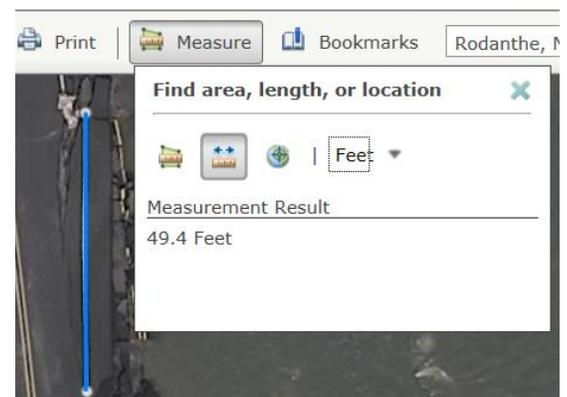
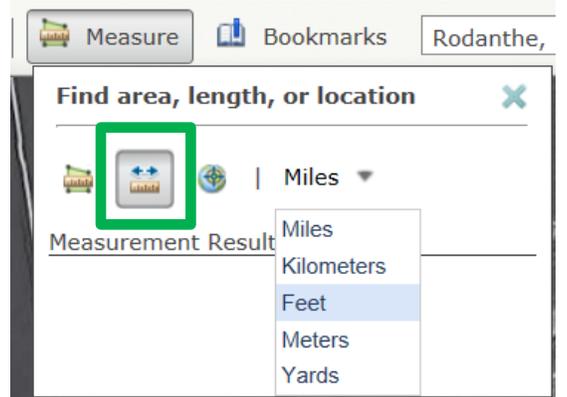
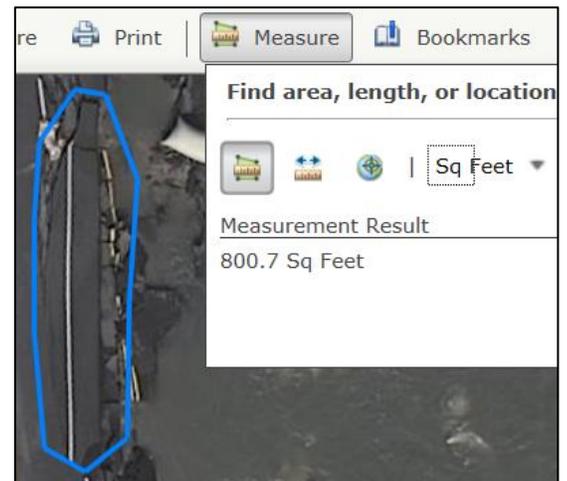
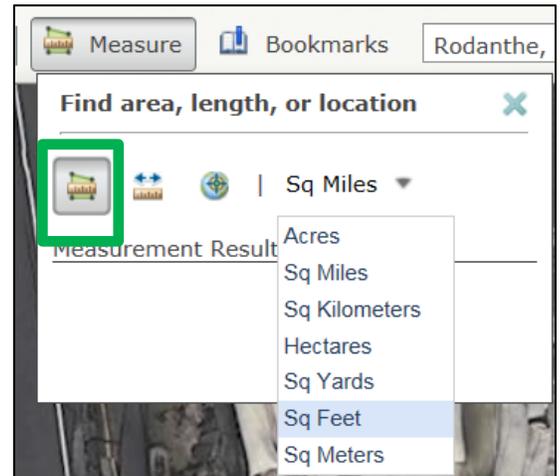
## Measuring a Distance<sup>1</sup>

- Select the “Length” tool
- Select the appropriate units
- Select Starting point (Single Click)
- Select Ending Point (Double Click)

**Note:** Additional segments can be added by selecting more data points before double clicking the ending point.

**Note:** To measure another distance, close measure tool box and reopen the measure tool box.

<sup>1</sup> Action of Tool may vary depending on User’s Browser

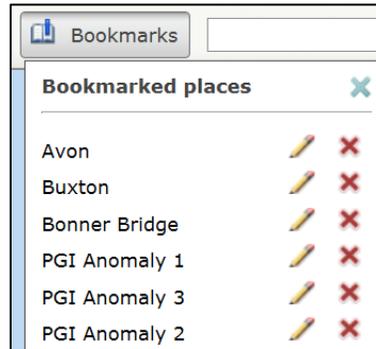


# PGI Anomalies Examples

The following are some examples of possible Preliminary Georeferenced Image (PGI) anomalies.

**Important Note:** The image anomaly layer is only to demonstrate the issues with the PGI and would not be part of the standard delivery. The FGI would replace the PGI at a later time transparently to the end users. The PGI is available 2-3 times earlier than the FGI.

## Select a Bookmark



- For this exercise: Select "PGI Anomaly 1"

### PGI Anomaly 1

Road is offset due to displacement between imagery



- For this exercise: Select "PGI Anomaly 2"

### PGI Anomaly 2

Building is offset due to placement of automatic ESRI Seamlines resulting in two different perspectives



- For this exercise: Select "PGI Anomaly 3"

### PGI Anomaly 3

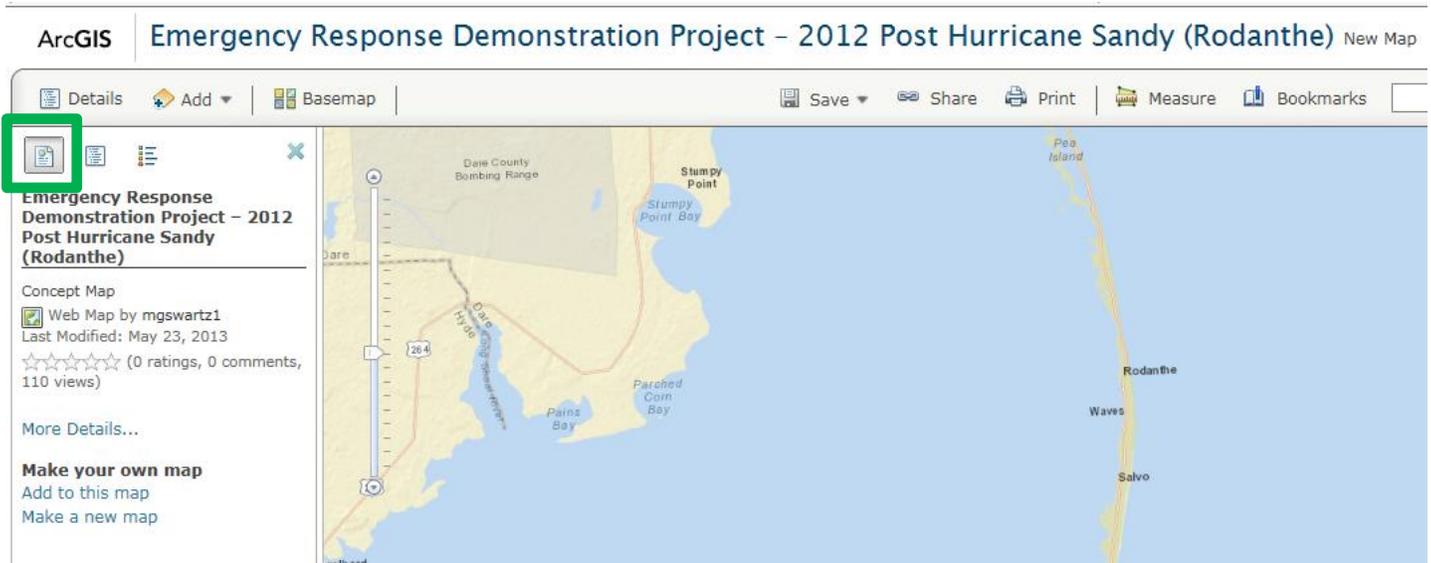
Buildings are offset due to alignment layout of different flight strips resulting in two different perspectives



# How to load the service into ArcGIS 10 for Desktop

## Open the “About this Map” Window

🖱️ **Click on the “about this Map” button**



🖱️ **Click on the “More Details...” link**



🖱️ **Open the Map Service using ArcGIS 10 for Desktop**



# Understanding Image Resolution, Zoom Level (Slider Bar), and the Display

Feature layers are visible at pre-set detail levels which can be expressed in terms of resolution. The owner of the feature layer sets the zoom level for display. When digital images are zoomed beyond their full resolution they begin to blur and distort. The NCDOT Photogrammetry Unit limits its image features to zoom to a maximum 2:1 enlargement factor.

The following table provides resolution, zoom, and display details about each feature layer.

Feature Layer Name	Owner	Full Image Resolution	Approximate Resolution where Display Stops	Zoom Level (Slider Bar) where Display Stops
ESRI Street Map	ESRI	n/a	4 feet	5
ESRI Street Names	ESRI	n/a	4 feet	5
2010_Statewide	NC CGIA	0.50 feet	0.125 feet	0
120604 (Lres) Oregon Inlet TO Ocracoke Inlet	NCDOT	0.75 feet	0.50 feet	2
PGI Image Anomaly Examples	NCDOT	n/a	0.125 feet	0
121031 (Hres) Mirlo Beach	NCDOT	0.25 feet	0.125 feet	0
121031 (Lres) Pea Island New Inlet TO Rodanthe	NCDOT	0.75 feet	0.50 feet	2
121031 (Lres) Rodanthe TO North of Avon	NCDOT	0.75 feet	0.50 feet	2
Basemap 125A	NCDOT	n/a	n/a	n/a

[Return to Demo](#)



<u>Zoom Level</u>	<u>Approximate Resolution</u>
0	0.125 ft
1	0.25 ft
2	0.50 ft
3	1 ft
4	2 ft
5	4 ft