The following papers and examples can be downloaded from: [http://support.sas.com/resources/papers/proceedings16](http://support.sas.com/resources/papers/proceedings16)

**The New SAS Map Data Sets** *SGF 2016 - Las Vegas, NV*

SAS customers have a growing need for quality and accurate maps. In order for SAS to provide quality maps, we need good, solid, and accurate map data. Because SAS is not in the business of generating map data, we have licensed map data from a third party to satisfy this need. This paper explores the new maps by discussing the problems and limitations with the old map data, along with showing features and examples using the new map data.

**The GEOCODE Procedure and SAS Visual Analytics** *SGF 2016 - Las Vegas, NV*

SAS® Visual Analytics can display maps with your location information. However, you might need to display data that does not match the categories found in SAS Visual Analytics, such as street address locations, non-US postal code locations, or locations specific to your business or industry. This paper shows how PROC GEOCODE can be used to simplify geocoding by processing your location information before importing into SAS Visual Analytics.

The following papers and examples can be downloaded from: [http://support.sas.com/rnd/papers](http://support.sas.com/rnd/papers)

**Google-like maps in SAS** *SGF 2013 - San Francisco, CA*

Many people want to see a background image displayed behind their SAS data to street or other feature locations. They may also want to pan and zoom the map. Unfortunately, Google has legal restrictions and limitations on the use of their maps. Now, you can have ‘Google-like’ maps inside of SAS. This paper discusses and demonstrates these new capabilities in VAE, SAS/GRAPH and other products.

**PROC GEOCODE: Finding locations outside the US** *SGF 2013 - San Francisco, CA*

How do you convert addresses into map locations? This is done through the process of Geocoding and was introduced in SAS/Graph 9.2 with PROC GEOCODE. This paper will review its capabilities, including the geocoding of International cities (v9.3m2) and Canadian street-level geocoding (v9.4). You can also now import free postal code data for Great Britain and Australia to be used in all releases of PROC GEOCODE.
Outbreak Maps: Visually discovering your data  
*SGF 2011 - Las Vegas, NV*

In many cases, problems are clustered together geographically for reasons that haven't been considered. Without seeing this information on a map, you may not be aware that you have a hot spot that needs investigating. This presentation demonstrates how to create several types of outbreak maps for monitoring these situations.

Tips and Tricks IV: More SAS/Graph Map Secrets  
*SGF 2009 - Washington, DC*

“You can’t do that with PROC GMAP!” We hear that all the time. Many users don’t know the full range of capabilities of the SAS/GRAPH® mapping procedures. This presentation will share the secrets to allow you to exploit the power of SAS/GRAPH maps. Get the maps you really want; you can do that with PROC GMAP! We will demonstrate this using both existing functionality and new SAS® 9.2 functionality.

Tips and Tricks III: More Unique SAS/Graph Maps  
*SUGI 30 - Philadelphia, PA*

SAS/GRAPH has powerful mapping capabilities that can be used for visualizing your location data as geographic and non-geographic maps. This handout presents techniques and examples for harnessing that power and creating these maps.

Tips and Tricks II: Getting the most from your SAS/Graph maps  
*SUGI 29 - Montreal, QC*

Every organization has location-based data. The difficulty is in effectively transforming that data into useful information or intelligence. This presentation gives an overview of the basic building blocks that can be used to create unusual and outstanding maps. Working examples illustrate these techniques.

Other SAS Map related papers and examples:
*Together at Last: Spatial Analysis and SAS Mapping, SGF 2012 - Orlando, FL*
*Making Business Decisions Using SAS Mapping, SGF 2007 - Orlando, FL*
*Navigating SAS Mapping Technologies, SUGI 31 - San Francisco, CA*
*SAS Mapping: Technologies, Techniques, Tips and Tricks, SUGI 28 Seattle, WA*