

Graphical Weather Review Webpage

Part 1: Mission Connection

1. Product Description:

The Graphical Weather Review webpage will contain 24-hour high temperature, 24-hour low temperature, and 24-hour rainfall graphics and KMZ files for the South Texas region. The raw data incorporated into these files comes from official NWS text products and the AHPS daily rainfall shape file. There will be the capability for the user to retrieve past temperature and rainfall graphics and KMZ files via the web interface. The ability to view full-size images of high temperature, low temperature, and rainfall will be achieved through image swapping via a single mouse-click from a user.

2. Purpose/Intended Use:

The purpose of this webpage is to provide customers and partners with a quick, easy, and efficient method to review observed daily South Texas temperature and rainfall data. The graphical and KMZ formats will prove to be beneficial for decision support services, public service functions, and climatological applications.

3. Audience:

The Graphical Weather Review webpage can be used by the public, emergency managers, media partners, and the private sector.

4. Presentation Format

The graphics will be in a PNG format. The KMZ files can be used in Google Earth for visual display. These files can be viewed at

<http://www.srh.noaa.gov/crp/graphicalweather.php>.

5. Feedback Method:

Comments will be compiled and evaluated through an interactive link on the product webpage. Comments will be solicited for a period of seven months, beginning end of January, 2014. During this feedback period, a proactive effort will address all issues regarding the underlying data and the layout of the webpage.

The evaluation period will be through September 3, 2014.

Survey link: www.nws.noaa.gov/survey/nws-survey.php?code=GWRWCRP

Part 2 – Technical:

1. Format and Science Basis:

The page is built using PHP, jQuery, and jQuery UI technologies. The Datepicker widget from the jQuery UI API is leveraged within this webpage to provide the user an easy way to retrieve past PNG and KMZ files.

The NWS Corpus Christi text products LCO, RRM, and RTP are decoded and merged into three CSV files containing high temperature, low temperature, and rainfall data. The generation of these three CSV files is accomplished by a Python script which uses the arcpy module within the ArcGIS program.

A second Python script then uses these CSV files to map the data onto a 2-D surface. The AHPS national daily shape file available at <http://water.weather.gov/precip/download.php> is clipped for the NWS Corpus Christi County Warning Area and then merged into the rainfall CSV file. After a series of geo-processing tasks run within this second Python script, output PNG files with dimensions of 803 x 620 pixels and KMZ files are produced, locally stored, and then sent to the web server. In order to minimize file size, the KMZ files are stripped of unnecessary geographical information. Sample points from both the AHPS dataset and local rainfall reports are included within the KMZ file to supplement the lack of a color legend which is included with the PNG files. Sample points for all temperature PNG and KMZ files are provided as well.

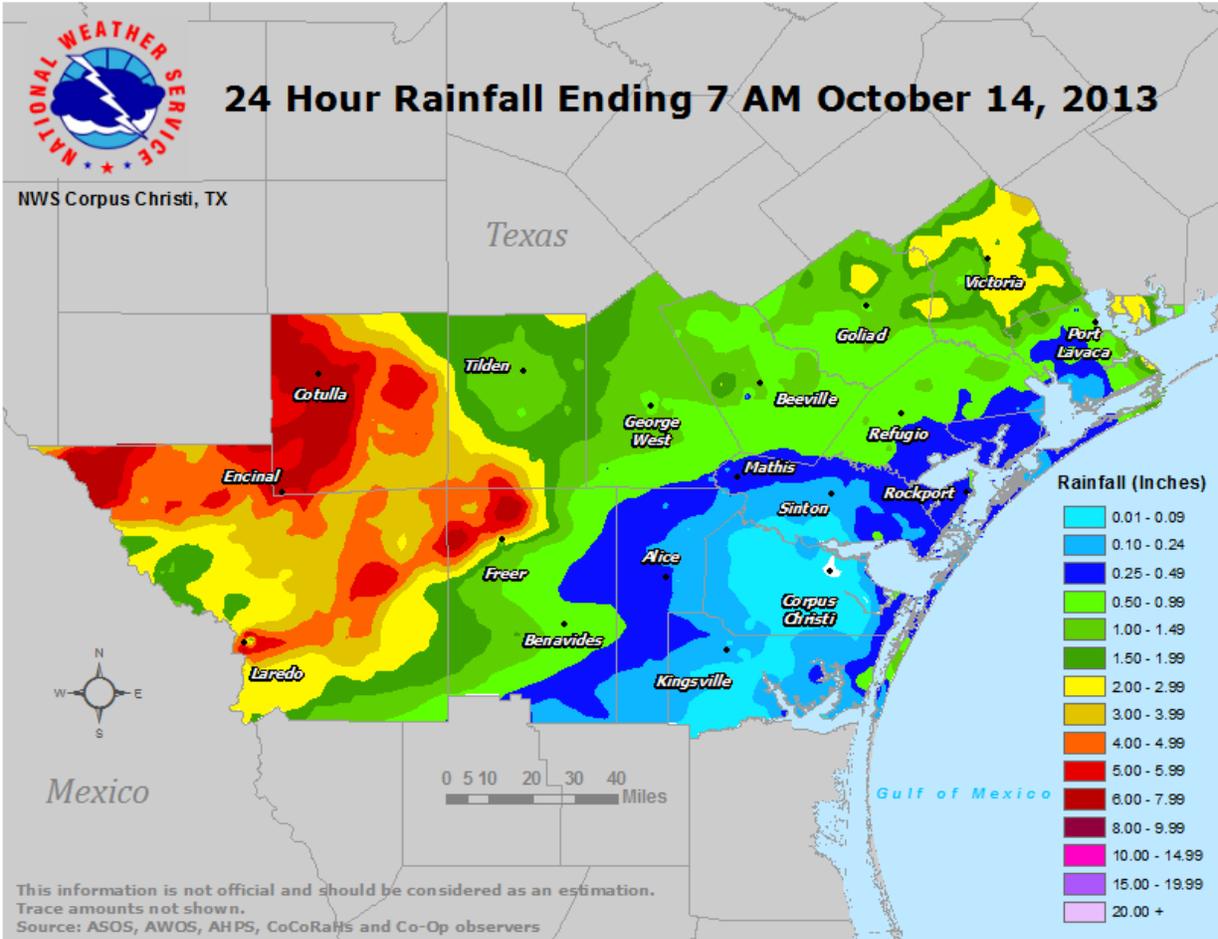
2. Availability

The service will be available 24 hours a day, 7 days a week by visiting the webpage at <http://www.srh.noaa.gov/crp/graphicalweather.php>. By 1800 UTC each day, the most current temperature and rainfall data will have been uploaded to the webpage.

3. Additional Information:

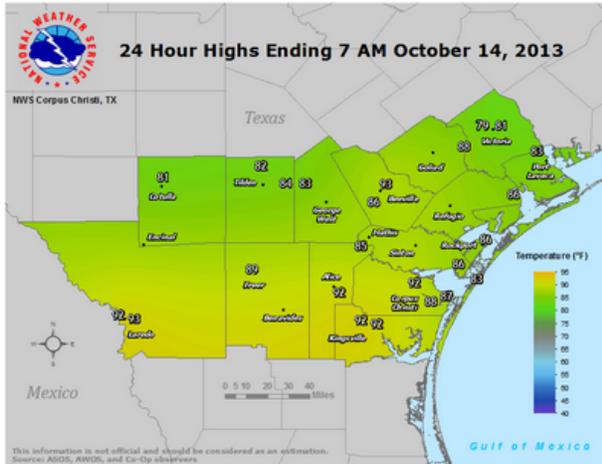
Graphical Weather Review - Experimental

Select Date:

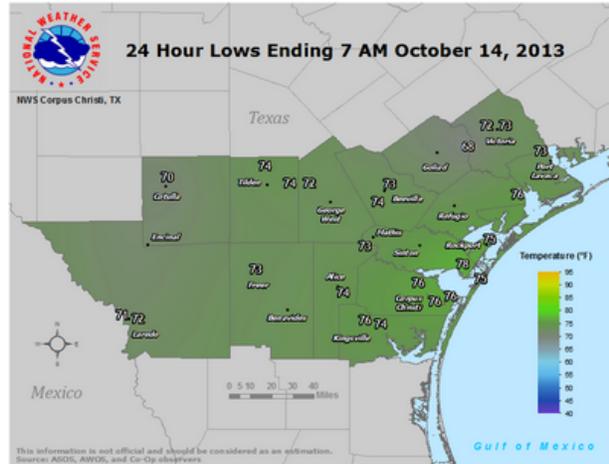


Click on either of the two thumbnail images below for the corresponding full-size image.

High Temperatures



Low Temperatures



South Texas Daily Rainfall, High Temperature, and Low Temperature KMZ Files:

[Daily Rainfall for 10/14/2013](#)

[High Temperatures for 10/14/2013](#)

[Low Temperatures for 10/14/2013](#)

Additional Information may be obtained by contacting the NWS Corpus Christi TX office:

National Weather Service
426 Pinson Drive
Corpus Christi, TX 78406

Mike Buchanan, SOO at WFO CRP: Mike.Buchanan@noaa.gov or 361-299-1354 ext. 224