MPE Website
Getting Started

- http://www.nc-climate.ncsu.edu/dot/

- Request an account.
  - Fill out information and submit.
  - You will receive an email confirming registration and password.

Multi-Sensor Precipitation Estimates (MPE)

| MPE home | Map | My Projects | My Alerts | More MPE Data | User Acct | Status | NC CRONOS | State Climate Office | Contact |

Add Projects

Project Precip. Alerts

Precipitation Map

NCDOT Highway Stormwater PROGRAM

Welcome, Ben DeWit. Use the links above or below to navigate this website.

[View a tutorial](#) on the usage of this website.

The precipitation estimates provided herein are derived from the NWS WSR-88D Doppler Radar. Radar preciptiation estimates can be grossly inaccurate, so radar-based precipitation values are calibrated with the routinely available hourly surface gages. The combined product provides the spatial resolution of radar with the increased accuracy of surface gage networks. These gage-calibrated radar estimates are known as Multi-sensor Precipitation Estimates, or MPE.

Multi-Sensor Precipitation Estimates (MPE)

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Multi-Precipitation Estimates for DOT Projects

⚠ This data is *not* available in real-time. The sums shown below are ending at the time indicated. Sums are updated when the 6-hour mpe files have been processed, which is within a few hours after 1am, 7am, 1pm and 7pm EST. See the status page for the latest available times.
Page loaded on Jun 29, 2009 at 2:32pm.

⚠ There are possible errors associated with these radar-based precipitation estimates. Regional seasonally averaged RMSE for 24-hour totals range from 0.019 inches in the winter to 0.028 inches in the summer. The annual regional average RMSE is 0.023 inches over a 24-hour period. Details on the evaluation of MPE are available.

Showing all 2 projects that Ben DeWit is subscribed to receive alerts from.
Show all projects

Add Project   or   Subscribe to an Existing Project

1. Click My Projects
2. Click Add Project

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Add Project

This creates a project name and placeholder for sites. After it is created, you'll be able to add site latitudes/longitudes.

Project Name: [   ]

[Submit]

3. Enter Project Name and click submit

Multi-Sensor Precipitation Estimates (MPE)

MPE home | Map | My Projects | My Alerts | More MPE Data | User Acct | Status | NC CRONOS | State Climate Office | Contact

Click "Map" to select monitoring locations

Select layers you want visible on the map

Zoom to project location

Select Layers:

MPE:
☑ Precip estimate
☐ My Project Sites

Geographic:
☑ County lines
☑ Cities
☐ Rivers and Streams
☐ Shaded relief

Transportation:
☑ Interstates
☑ Primary Roads
☐ Secondary Roads

Special Layers:

Make PDF

Time Period:

Last 24 hours ▼

Map depicts previous 24 hours ending at 7am on Jun 29, 2009, EST using the 6-hour files.

Legend:

■ <= 0.1 in.
■ 0.1 - 0.2 in.
■ 0.2 - 0.3 in.
■ 0.3 - 0.4 in.
■ 0.4 - 0.5 in.
■ 0.5 - 0.6 in.
■ 0.6 - 0.7 in.
■ 0.7 - 0.8 in.
■ 0.8 - 0.9 in.
■ 0.9 - 1 in.
■ 1 - 1.1 in.
■ 1.1 - 1.2 in.
■ 1.2 - 1.3 in.
■ > 1.3 in.
／\ County Lines

State Climate Office of North Carolina

Adding locations using the map

Select Layers:

MPE:

☑ Precip estimate
☐ My Project Sites

Geographic:

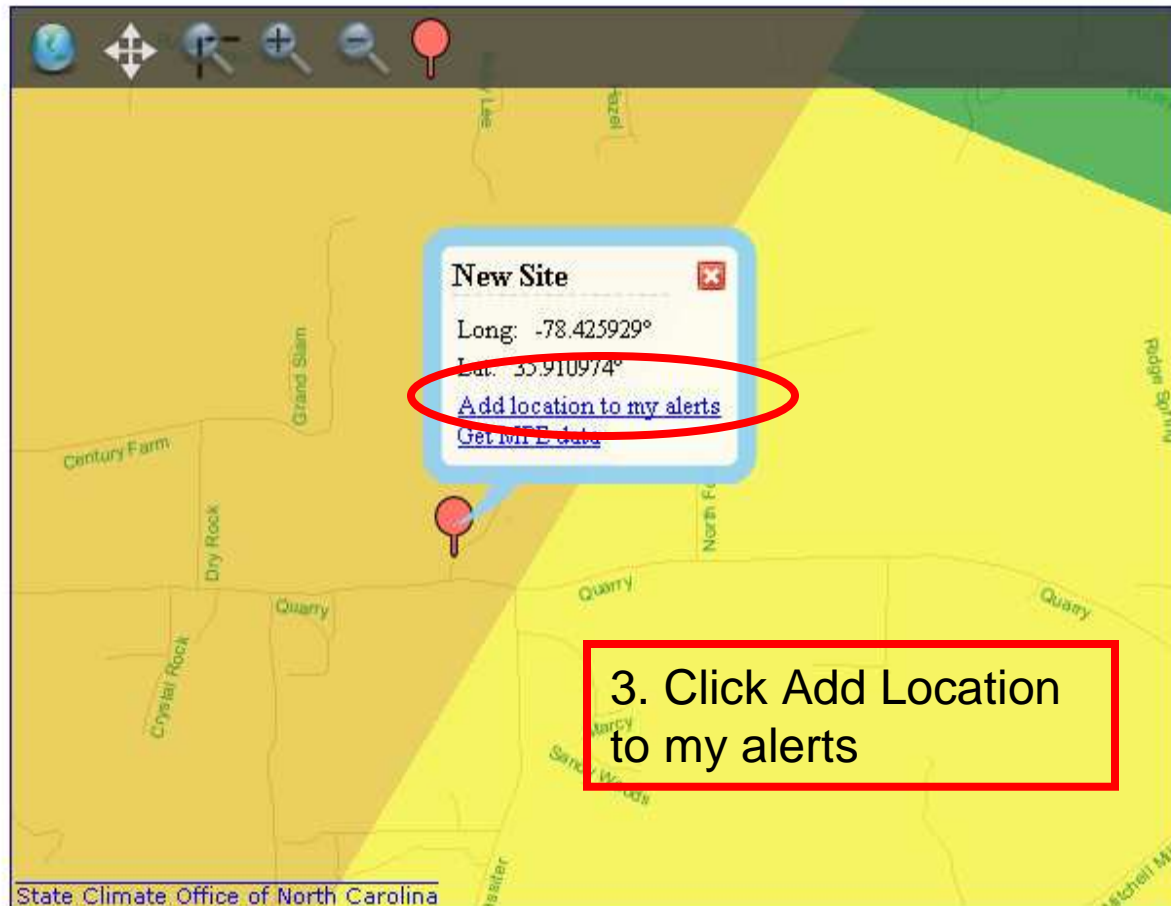☑ County lines
☐ Cities
☐ Rivers and Streams
☐ Shaded relief
☐ HUC-6
☐ HUC-8

Transportation:

☐ Interstates
☑ Primary Roads
☑ Secondary Roads

Special Layers:

Make PDF

1. Place a mark on the location you want to monitor

Time Period:

Last 7 days

Map depicts previous 168 hours ending at 7am on Aug 6, 2009, EST using the daily files.

Legend:

- <= 0.3 in.
- 0.3 - 0.6 in.
- 0.6 - 0.9 in.
- 0.9 - 1.2 in.
- 1.2 - 1.5 in.
- 1.5 - 1.8 in.
- 1.8 - 2.1 in.
- 2.1 - 2.4 in.
- 2.4 - 2.7 in.
- 2.7 - 3 in.
- 3 - 3.3 in.
- 3.3 - 3.6 in.

Adding locations using the map

Adding locations using the map

Multi-Sensor Precipitation Estimates (MPE)

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Add a Site to a Project

You may use the map or TopoZone.com to help determine your specific latitude/longitude.

Select the project for this site: [SR 1000 ▼] or create a new project

Site Name: [   ]

Site Latitude: [   ] degrees

Site Longitude: [   ] degrees

Alert Threshold: >= [0.5] inches within [24 ▼] hours

Alert Status: ◉ On
               ○ Off

[Submit and go to My Projects]   [Submit and add another]

---

4. Select the Project

5. Enter site specific name within the project

6. User can find project by entering Lat/Long or by using the map

7. Set email alert threshold to 0.5 inches within 24 hrs for NPDES inspections.

Multi-Sensor Precipitation Estimates (MPE)

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Multi-Precipitation Estimates for DOT Projects

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Page loaded on Jul 23, 2009 at 12:53pm.

⚠ There are possible errors associated with these radar-based precipitation estimates. Regional seasonally averaged RMSE for 24-hour totals range from 0.019 inches in the winter to 0.028 inches in the summer. The annual regional average RMSE is 0.023 inches over a 24-hour period. Details on the evaluation of MPE are available.

Showing all 3 projects that Ben DeWit is subscribed to receive alerts from.
Show all projects

🔖Add Project or **Subscribe to an Existing Project**

Users have ability to enter multiple locations for one project.

SR 1000
Created by Ben DeWit on Jul 23,2009   1 people subscribed

unsubscribe from alerts
[delete] [add site] [edit]

	Lat, Lon	Last Alert:	Alert Switch	Alert Threshold:	Precipitation (in.) previous hours				Sums ending at	More Data
				in. / hours	6	12	24	48	(EST)	
✏❌ Site 1	35.910395 -78.42598	never	on	0.5 / 24	0	0	0	0	Jul 23, 7am	[past] [forecast]
✏❌ Site 2	35.917306 -78.41459	never	on	0.5 / 24	0	0	0	0	Jul 23, 7am	[past] [forecast]

SR 1000
Created by Ben DeWit on Jul 23, 2009   1 people subscribed

unsubscribe from alerts [delete] [add site] [edit]	Lat, Lon	Last Alert:	Alert Switch	Alert Threshold:	Precipitation (in.) previous hours				Sums ending at	More Data
				in. / hours	6	12	24	48	(EST)	
✏️❌ Site 1	35.910395 -78.42598	never	on	0.5 / 24	0	0	0	0	Jul 23, 7am	[past] [forecast]
✏️❌ Site 2	35.917306 -78.41459	never	on	0.5 / 24	0	0	0	0	Jul 23 7am	[past] [forecast]

Multi-Sensor Precipitation Estimates (MPE)

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Get More MPE Data for I-540 Wake

Start Date: January ▼ 01 ▼ 2009 ▼

End Date: June ▼ 29 ▼ 2009 ▼

Location:
** You can also use the map to get data from a point.
Latitude: 35.77082
Longitude: -78.506

Period: daily ▼

[GET DATA]

1. Click on "past" to obtain rainfall data

2. Select a start and end date and the period for the rainfall data

Get More MPE Data for Site 1

Date Range: 2009-07-05 thru 2009-07-11

Site: Site 1

Latitude: 35.910395 **Longitude:** -78.42598

Alert Threshold ≥ 0.5 within 24 hours
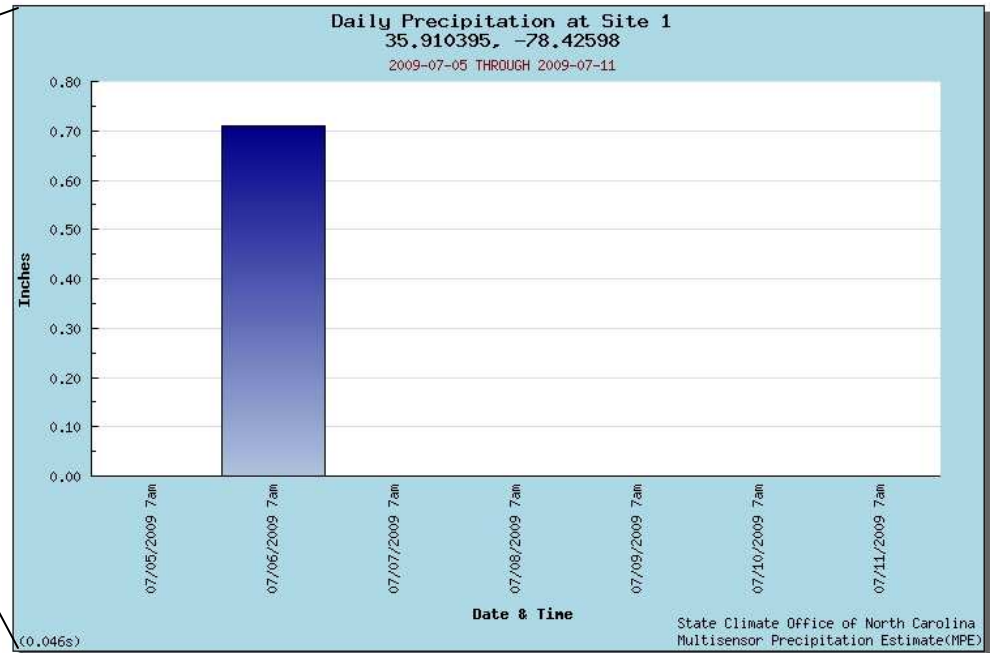
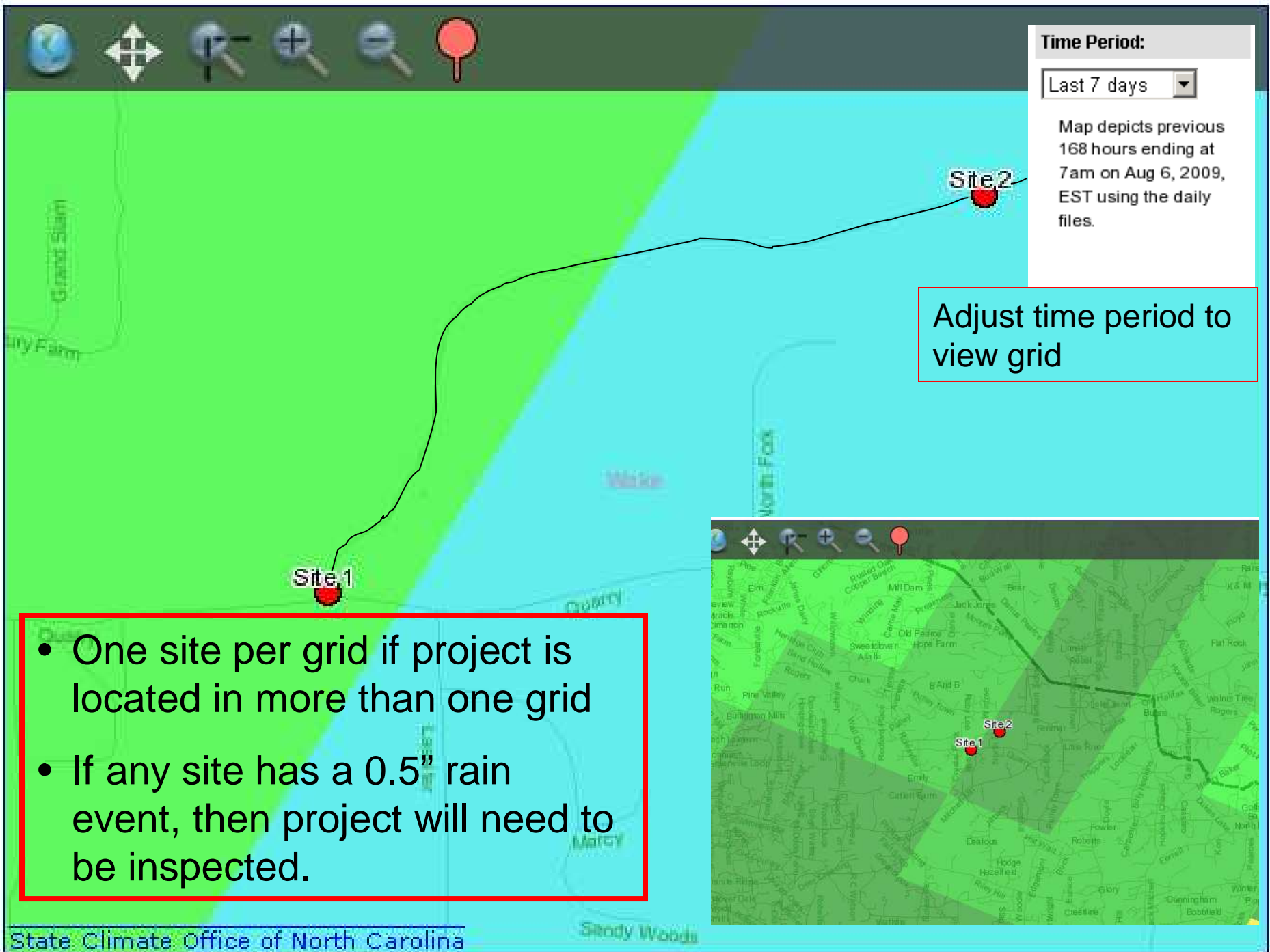**Project:** SR 1000

Other Associated Sites:

Site 2

Site 1

Rainfall Data for the selected date range and period.

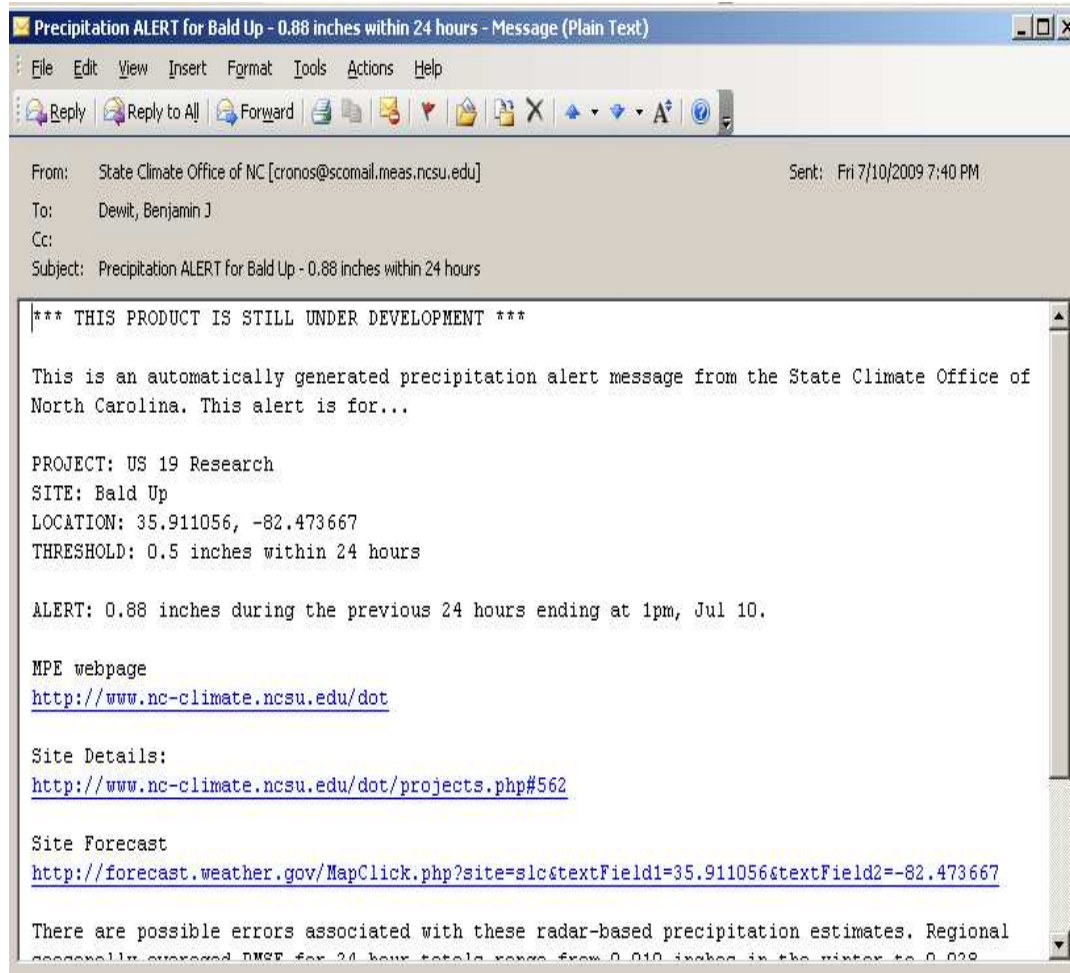Click the Graph Icon to display graph of rainfall data

Observation Date & Time (EST)	Precipitation (inches)
2009-07-05 07:00:00	0
2009-07-06 07:00:00	0.709
2009-07-07 07:00:00	0
2009-07-08 07:00:00	0
2009-07-09 07:00:00	0
2009-07-10 07:00:00	0
2009-07-11 07:00:00	0
TOTAL:	0.709

Daily Precipitation at Site 1
35.910395, -78.42598
2009-07-05 THROUGH 2009-07-11

State Climate Office of North Carolina
Multisensor Precipitation Estimate(MPE)

Last 7 days

Map depicts previous 168 hours ending at 7am on Aug 6, 2009, EST using the daily files.

Site 2

Adjust time period to view grid

Site 1

- One site per grid if project is located in more than one grid

- If any site has a 0.5" rain event, then project will need to be inspected.

Site 2
Site 1

State Climate Office of North Carolina

Email Alert

- Receive email alerts for 0.5" rainfall within 24 hrs.
- Alerts user to make inspection

Multi-Sensor Precipitation Estimates (MPE)

Precipitation Alerts - Change Alert Subscriptions for Ben DeWit

Listed below are all projects. If you are currently subscribed to receive e-mail alerts from a project, the column to the left will be selected. If you do not currently receive alerts for a particular project, the column to the right will be selected. Change these selections as you wish and press the submit button to make them effective immediately.

E-mail alerts are generated four times daily when the latest 6-hour MPE file is processed. 6-hour files end at 1am, 7am, 1pm, and 7pm EST. Alerts are generated within a few hours after each time period ends.

User may subscribe to other users projects by clicking "My Alerts"

Subscribe	PROJECT NAME	Unsubscribe
○	24/27 R-0967 CC [details]	●
○	37740 [details]	●
○	37748 [details]	●
○	601 Widening Monroe to Pageland [details]	●
○	6C.078088 SR 2432 Roberta Road [details]	●
○	acc [details]	●
○	Airports [details]	●

Questions