



North Carolina Department of Transportation Highway Stormwater Program

Rainfall Estimate Website



NPDES Permit Requirements for NCDOT Construction

The NPDES permit require compliance with SEC Program
and NCG010000 Construction Permit.

- ✂ Inspect E&SC/
Stormwater devices at
least once every 7
calendar days
- ✂ Inspect 303(d)
impaired streams twice
a week
- ✂ Inspect devices within
24 hours after a
significant rainfall
event of 0.5 inches or
greater



Construction Site Management

Rain Gauge

- ✂ Maintain an on-site rain gage and a record of rainfall amounts and their dates
- ✂ Maintain E&SC Stormwater inspection records for review by Department and Regulatory personnel upon request



Rain Gage Device

Construction Site Management

Rainfall Alert Monitoring (MPE Website)

- ✂ Efficiencies Gained Over Ground Rain Gage
- ✂ Email Notification
- ✂ Can Identify Multiple Stations on Large Projects
- ✂ Record Keeping
- ✂ Provides Rainfall Data for Remote Locations
- ✂ MPE Compares Well with Independent Daily Precipitation Gage Network Over NC (error 0.023 inches over 24-hour period)

The screenshot displays the MPE website interface. At the top, there is a navigation menu with links for MPE home, Map, My Projects, My Alerts, More MPE Data, User Acct, Status, NC CRONOS, State Climate Office, and Contact. The main content area includes a welcome message for Ken Pace, a detailed explanation of MPE data sources and accuracy, and a study reference. Below this, there are three main sections: MAP, MY PROJECTS, and MY ALERTS. The MAP section features a map of North Carolina with precipitation estimates overlaid. The MY PROJECTS section shows a table of project details. The MY ALERTS section provides information on managing alert subscriptions. At the bottom, there is a section for GET MORE MPE DATA and NC CRONOS DATABASE, which includes a table of observation data and time.

Observation Date & Time (EST)	Precipitation (inches)
2005-11-01 07:00:00	0
2005-11-02 07:00:00	0.083
2005-11-03 07:00:00	0
2005-11-04 07:00:00	0
2005-11-05 07:00:00	0
2005-11-06 07:00:00	0

(Components)

Map

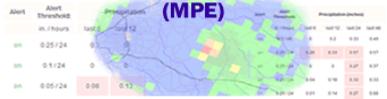
State Climate Office of NC: DOT precipitation - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address <http://gulfstream.meas.ncsu.edu/dot/index.php?login=1>



Multi-Sensor Precipitation Estimates (MPE)





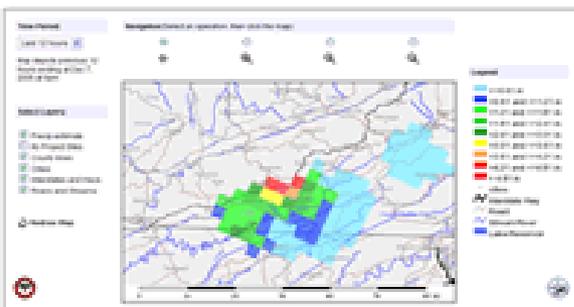
MPE home | Map | My Projects | My Alerts | More MPE Data | User Acct | Status | NC CRONOS | State Climate Office | Contact

Welcome, Ken Pace. Use the links above or below to navigate this website.

The precipitation estimates provided herein are derived from the NWS WSR-88D Doppler Radar. Radar precipitation 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.

MAP

This simple mapping application enables you to visually see accumulated MPE estimates over time. When zoomed in, roads, water features, and town names can be overlaid for reference. Additionally, your project sites can be noted on the map for additional reference. The past 6, 12, 24, 48, and 72 hours are available to view spatially. 1-week, 30- and 90-day options are also available.



Subarea	PROJECT NAME	Location
<input type="checkbox"/>	WSP-1000-1000	<input type="checkbox"/>
<input type="checkbox"/>	WSP-1000-1000	<input type="checkbox"/>
<input type="checkbox"/>	WSP-1000-1000	<input type="checkbox"/>
<input type="checkbox"/>	WSP-1000-1000	<input type="checkbox"/>
<input type="checkbox"/>	WSP-1000-1000	<input type="checkbox"/>
<input type="checkbox"/>	WSP-1000-1000	<input type="checkbox"/>
<input type="checkbox"/>	WSP-1000-1000	<input type="checkbox"/>
<input type="checkbox"/>	WSP-1000-1000	<input type="checkbox"/>
<input type="checkbox"/>	WSP-1000-1000	<input type="checkbox"/>

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2005-11-02 07:00:00	0.083
2005-11-03 07:00:00	0
2005-11-04 07:00:00	0
2005-11-05 07:00:00	0
2005-11-06 07:00:00	0

NC Climate Research and Observations Network Data Subsystem Database

MY ALERTS

This is the alert management system. This is where to go to manage your e-mail alert subscriptions.

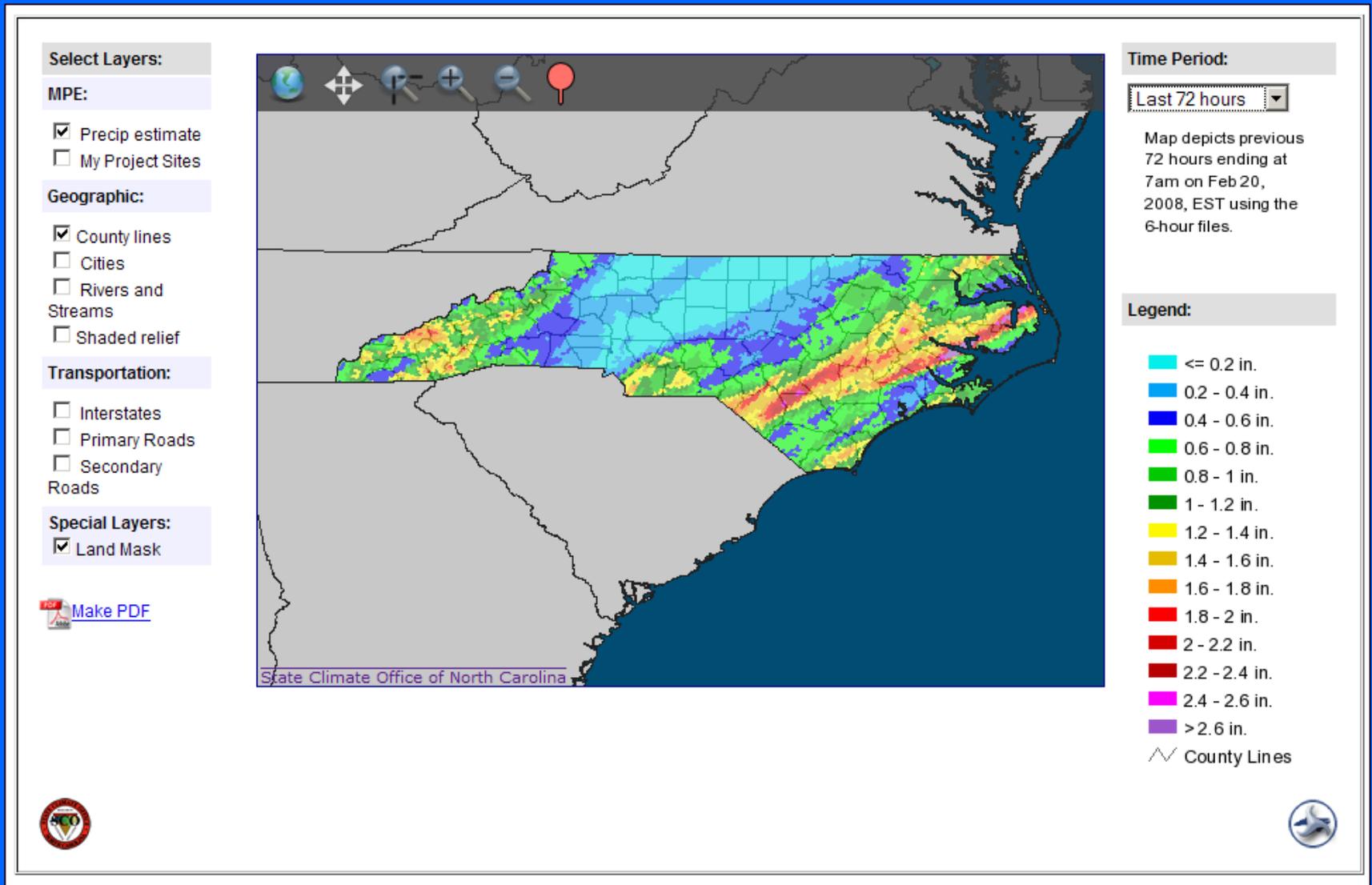
GET MORE MPE DATA

Quickly get the MPE values for any latitude/longitude in and around North Carolina.

NC CRONOS DATABASE

The core of the State Climate Office's data warehouse. CRONOS is an integrated database of hourly and daily surface weather observations from different weather networks in and around North Carolina

Maps – Time Period



Maps – Zoom In

Select Layers:

MPE:

- Precip estimate
- My Project Sites

Geographic:

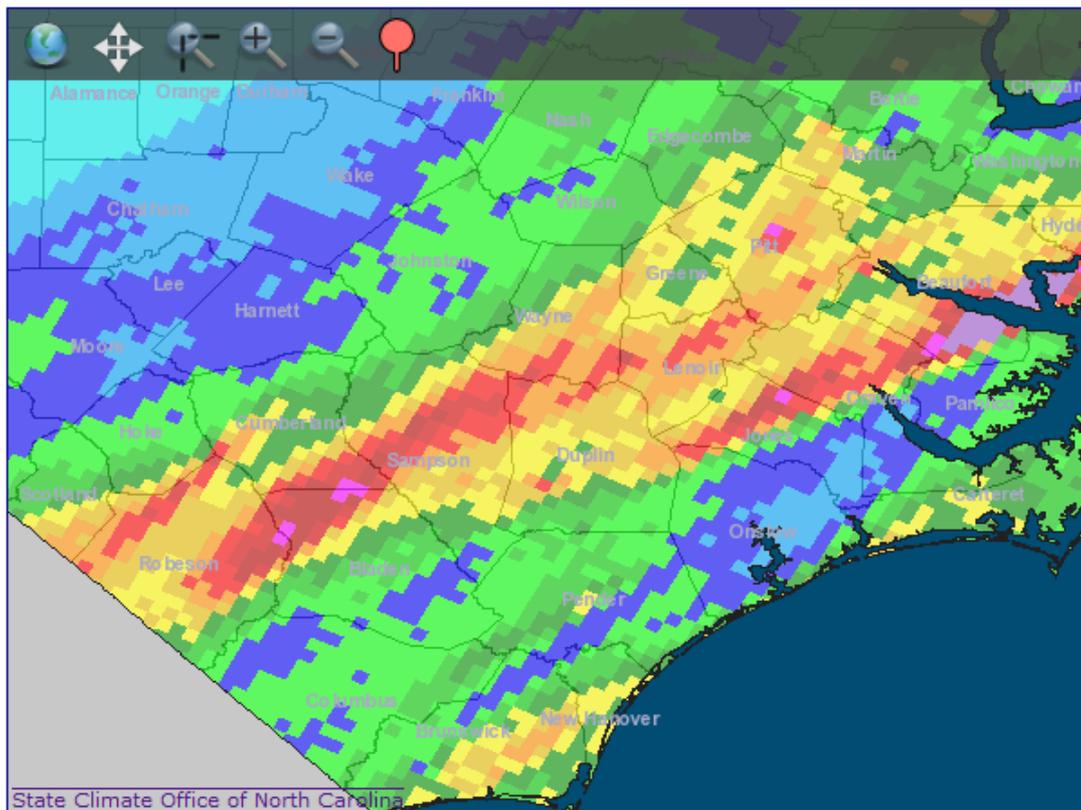
- County lines
- Cities
- Rivers and Streams
- Shaded relief

Transportation:

- Interstates
- Primary Roads
- Secondary Roads

Special Layers:

- Land Mask



Time Period:

Last 72 hours

Map depicts previous 72 hours ending at 7 am on Feb 20, 2008, EST using the 6-hour files.

Legend:

- <= 0.2 in.
- 0.2 - 0.4 in.
- 0.4 - 0.6 in.
- 0.6 - 0.8 in.
- 0.8 - 1 in.
- 1 - 1.2 in.
- 1.2 - 1.4 in.
- 1.4 - 1.6 in.
- 1.6 - 1.8 in.
- 1.8 - 2 in.
- 2 - 2.2 in.
- 2.2 - 2.4 in.
- 2.4 - 2.6 in.
- > 2.6 in.
- County Lines



Maps - Details

Select Layers:

MPE:

- Precip estimate
- My Project Sites

Geographic:

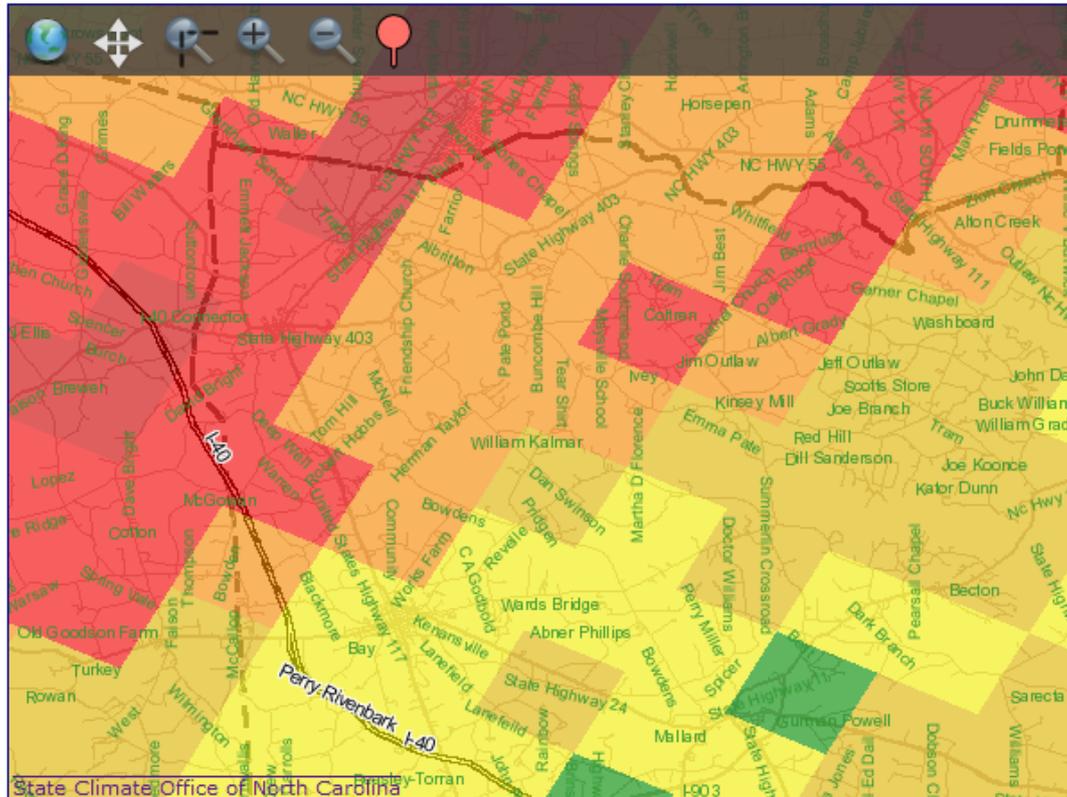
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- 1.8 - 2 in.
- 2 - 2.2 in.
- 2.2 - 2.4 in.
- 2.4 - 2.6 in.
- > 2.6 in.
- Interstate Hwy
- Primary Road
- Secondary Road
- County Lines

Resolution = 3 miles

Maps – New Sites

Select Layers:

MPE:

- Precip estimate
- My Project Sites

Geographic:

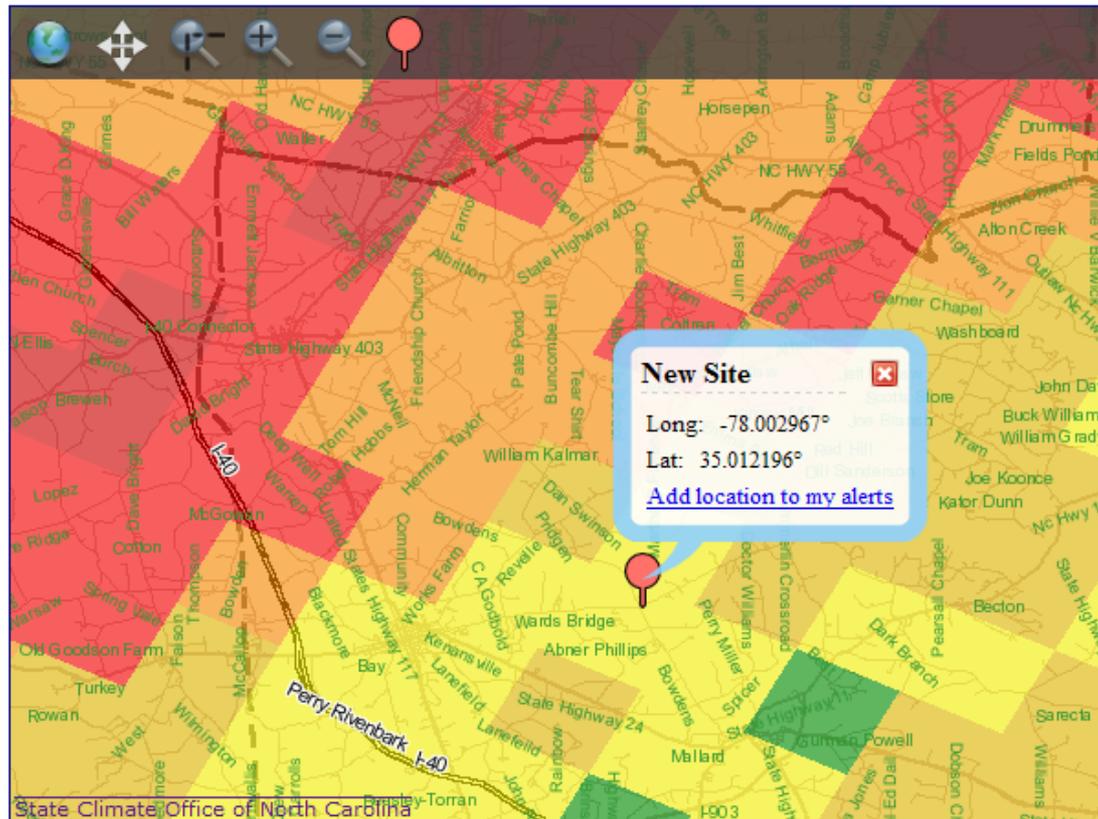
- County lines
- Cities
- Rivers and Streams
- Shaded relief

Transportation:

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- Secondary Road
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Export Map: PDF Document

Adobe Acrobat Professional - [makepdf2.pdf]

File Edit View Document Comments Tools Advanced Window Help

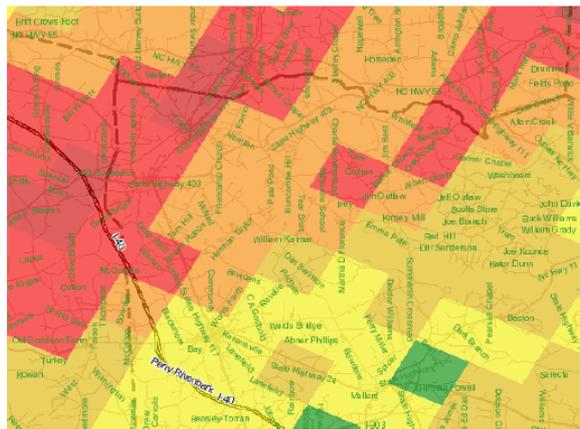
Search Create PDF Comment & Markup Send for Review Secure Sign Forms

Select 78% Help

Bookmarks Pages Signatures Attachments Comments

 **Multi-Sensor Precipitation Estimates (MPE)**
State Climate Office of North Carolina
NC State University

This page prepared on February 20, 2008 at 12:28pm



Map depicts previous 72 hours ending at 7am on Feb 20, 2008, EST using the 6-hour files.

Top-left corner: 35.2435°N, -78.2427°W
Bottom right corner: 34.93°N, -77.8246°W

The precipitation estimates provided above are derived from the NWS WSR-88D Doppler Radar. Radar precipitation 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. There are still errors in MPE. A study by the State Climate Office of North Carolina suggests that MPE compares well with an independent daily precipitation gage network over the Carolinas. The annual regional average root mean square error (RMSE) is 0.023 inches over a 24-hour period. This product is made possible by the State Climate Office of North Carolina, NC State University, and funding from the North Carolina Department of Transportation.

<http://www.nc-climate.ncsu.edu/ot>

1 of 1

My Projects

State Climate Office of NC: DOT precipitation - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address <http://gulfstream.meas.ncsu.edu/dot/index.php?login=1>



Multi-Sensor Precipitation Estimates (MPE)





[MPE home](#) | [Map](#) | [My Projects](#) | [My Alerts](#) | [More MPE Data](#) | [User Acct](#) | [Status](#) | [NC CRONOS](#) | [State Climate Office](#) | [Contact](#)

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Project Name	Lat	Long	Last Alert	Alert	Start Threshold	Precipitation (inches)	More Data			
					in 7 hours	last 6	last 12	last 24	last 48	
XX XXXXX	35.38	-82.21	near		0.5-0.8	0	0	0	0	View Report
XX XXXX	35.41	-82.38	near		0.25-0.4	0.04	0.11	0.23	0.23	View Report
XX XXXXX	35.38	-82.45	near		0.25-0.4	0	0	0	0	View Report
XX XXXXX	35.23	-82.12	near		0.25-0.4	0	0.33	0.33	0.48	View Report
XX XXXXX	35.25	-82.38	near		0.25-0.4	0	0	0	0	View Report

MY PROJECTS

This page shows a list of all projects that you are subscribed to receive precipitation alerts from. Each project has a list of associated sites. Accumulated MPE values are listed for all sites in text format. You can also view all projects.



Subsites

PROJECT NAME	Unsubscribe
XXXXXX	

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[MY ALERTS](#)

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[GET MORE MPE DATA](#)

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[NC CRONOS DATABASE](#)

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Observation Date & Time (EST)	Precipitation (inches)
2005-11-01 07:00:00	0
2005-11-02 07:00:00	0.000
2005-11-03 07:00:00	0
2005-11-04 07:00:00	0
2005-11-05 07:00:00	0
2005-11-06 07:00:00	0

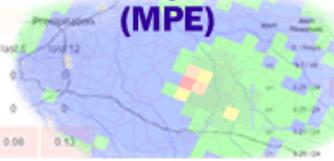
NC Climate Report and Observations Network Of the Statewide Database

Add Project

Address  http://gulfstream.meas.ncsu.edu/dot/addproject.php



Multi-Sensor Precipitation Estimates (MPE)



Alert	Alert Threshold	in./hours	last 5	last 12	Alert Threshold	in./hours	last 5	last 12	Alert Threshold	in./hours	last 5	last 12
on	0.25/24	0	0	0	0.25/24	0	0	0	0.25/24	0	0	0
on	0.1/24	0	0	0	0.1/24	0	0	0	0.1/24	0	0	0
on	0.05/24	0.08	0.13	0.13	0.05/24	0.08	0.13	0.13	0.05/24	0.08	0.13	0.13



- MPE home
- Map
- My Projects
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- More MPE Data
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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:

Enter "Project Name"

Add Project Site Information

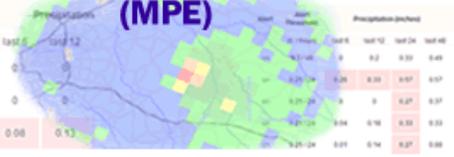
State Climate Office of North Carolina: DOT Precipitation Alerts - Add Project - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address  http://gulfstream.meas.ncsu.edu/dot/addsite.php?project=68



Multi-Sensor Precipitation Estimates (MPE)



| Alert Threshold |
|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| in. / hours | last 6 | last 12 | last 24 | last 48 | last 72 | last 96 | last 120 | last 144 | last 168 |
| 0.25 / 24 | 0.5 | 1.0 | 1.5 | 2.0 | 2.5 | 3.0 | 3.5 | 4.0 | 4.5 |
| 0.1 / 24 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0.05 / 24 | 0.05 | 0.1 | 0.15 | 0.2 | 0.25 | 0.3 | 0.35 | 0.4 | 0.45 |



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

Add a Site to a Project

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

Adding a new site to project 'R-2552 Clayton Bypass'

Site Name:

Site Latitude: degrees

Site Longitude: degrees

Alert Threshold: >= inches within hours

Alert Status: On
 Off

Enter:

- 1) "Site Name"
- 2) "Lat/Long"
- 3) "Alert Threshold"
- 4) "Alert Status"

Updated - My Projects

State Climate Office of NC: DOT precipitation My Projects - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Home Search Favorites History

Address <http://gulfstream.meas.ncsu.edu/dot/projects.php>

[Add Project](#) or [Subscribe to an Existing Project](#)

NC - Regional

Created by [Ken Pace](#) on Dec 14, 2005 2 people subscribed

[unsubscribe from alerts](#)
[\[delete\]](#) [\[add site\]](#) [\[edit\]](#)

	Lat, Lon	Last Alert:	Alert Switch	Alert Threshold:	Precipitation (in.)				Sums ending at (EST)	More Data
					previous hours					
					in. / hours	6	12	24		
Asheville	35.61583 - 82.58722	Feb 5, 10:51 am	on	0.25 / 24	0	0	0	0	7 am	[past] [forecast]
Nags Head	35.95722 - 75.62444	Feb 23, 7:42 pm	on	0.25 / 24	0	0	0	0	7 am	[past] [forecast]

R-2552 Clayton Bypass

Created by [Ken Pace](#) on Mar 18, 2006 1 people subscribed

[unsubscribe from alerts](#)
[\[delete\]](#) [\[add site\]](#) [\[edit\]](#)

	Lat, Lon	Last Alert:	Alert Switch	Alert Threshold:	Precipitation (in.)				Sums ending at (EST)	More Data
					previous hours					
					in. / hours	6	12	24		
Austin Pond	35.6292 - 78.5224	never	on	0.25 / 24	0	0	0	0.02	7 am	[past] [forecast]

Rainfall Data

State Climate Office of NC: DOT precipitation My Projects - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites History

Address <http://gulfstream.meas.ncsu.edu/dot/projects.php>

[Add Project](#) or [Subscribe to an Existing Project](#)

Past Rainfall Data

NC - Regional

Created by [Ken Pace](#) on Dec 14, 2006 2 people subscribed

[unsubscribe from alerts](#)
[\[delete\]](#) [\[add site\]](#) [\[edit\]](#)

	Lat, Lon	Last Alert:	Alert Switch	Alert Threshold: in. / hours	Precipitation (in.) previous hours				Sums ending at (EST)	More Data
					6	12	24	48		
Asheville	35.61583 - 82.56722	Feb 5, 10:51am	on	0.25 / 24	0	0	0	0	7am	[past] [forecast]
Nags Head	35.95722 - 75.62444	Feb 23, 7:42pm	on	0.25 / 24	0	0	0	0	7am	[past] [forecast]

R-2552 Clayton Bypass

Created by [Ken Pace](#) on Mar 16, 2006 1 people subscribed

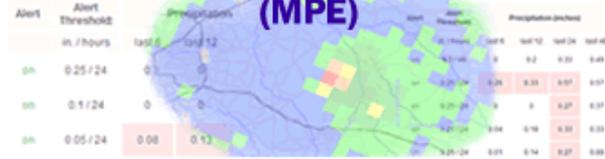
[unsubscribe from alerts](#)
[\[delete\]](#) [\[add site\]](#) [\[edit\]](#)

	Lat, Lon	Last Alert:	Alert Switch	Alert Threshold: in. / hours	Precipitation (in.) previous hours				Sums ending at (EST)	More Data
					6	12	24	48		
Austin Pond	35.6292 - 78.5224	never	on	0.25 / 24	0	0	0	0.02	7am	[past] [forecast]

Rainfall Data



Multi-Sensor Precipitation Estimates (MPE)



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Austin Pond

Date Range: 2006-01-01 thru 2006-03-16
Site: Austin Pond
Latitude: 35.6292 **Longitude:** -78.5224
Alert Threshold \geq 0.25 within 24 hours
Project: R-2552 Clayton Bypass
Other Associated Sites:
[Austin Pond](#)

2006-03-02 07:00:00	0
2006-03-03 07:00:00	0
2006-03-04 07:00:00	0
2006-03-05 07:00:00	0
2006-03-06 07:00:00	0
2006-03-07 07:00:00	0.051
2006-03-08 07:00:00	0
2006-03-09 07:00:00	0
2006-03-10 07:00:00	0
2006-03-11 07:00:00	0
2006-03-12 07:00:00	0
2006-03-13 07:00:00	0
2006-03-14 07:00:00	0
2006-03-15 07:00:00	0.02
TOTAL:	2.78

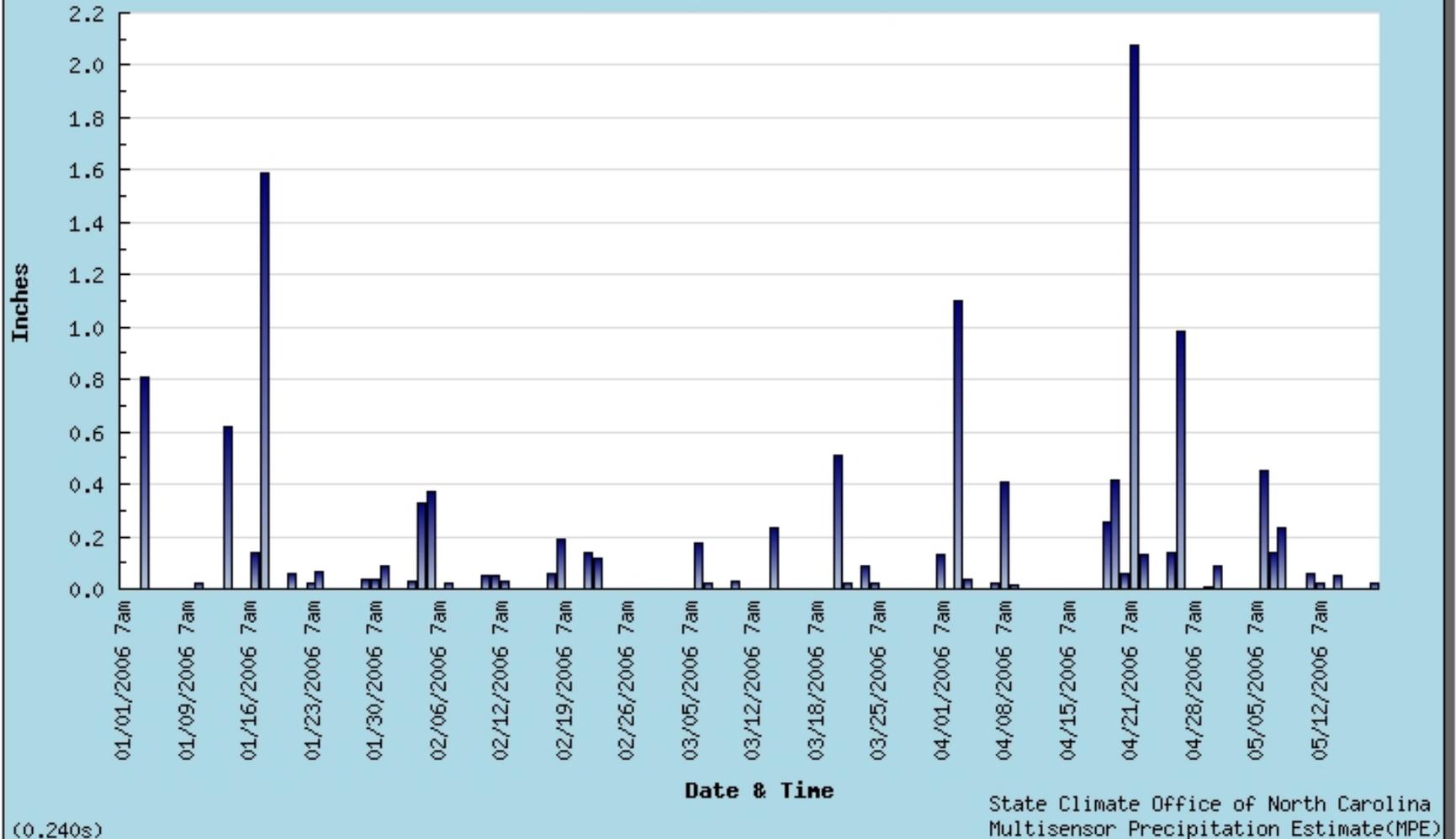
Observation Date & Time (EST)	Precipitation (inches)
2006-01-01 07:00:00	0
2006-01-02 07:00:00	0
2006-01-03 07:00:00	0.492



Graph Data

Data Graph

Daily Precipitation at Asheville
35.61583, -82.56722
2006-01-01 THROUGH 2006-05-19



(0.240s)

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

Rainfall Data

State Climate Office of NC: DOT precipitation My Projects - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites History Print

Address http://gulstream.meas.ncsu.edu/dot/projects.php

[Add Project](#) or [Subscribe to an Existing Project](#)

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Rainfall Forecast

Rainfall Forecast



Your **National Weather Service** forecast



Clayton, NC

Enter Your "City, ST" or zip code

NWS Raleigh, NC
Point Forecast: Clayton, NC
35.62N -78.51W **Last Update:** 10:00 am EST March 16, 2006

Forecast at a Glance

This Afternoon	Tonight	Friday	Friday Night	Saturday	Saturday Night	Sunday	Sunday Night	Monday
								
Partly Cloudy Hi 64°F	Mostly Cloudy Lo 42°F	Partly Cloudy Hi 63°F	Mostly Clear Lo 36°F	Mostly Sunny Hi 56°F	Mostly Clear Lo 31°F	Mostly Sunny Hi 56°F	Partly Cloudy Lo 31°F	Partly Cloudy Hi 57°F

Detailed 7-day Forecast

Hazardous weather condition(s):

Special Weather Statement

This Afternoon: Partly cloudy, with a high around 64. Northwest wind between 5 and 9 mph.

Tonight: Mostly cloudy, with a low around 42. Calm wind becoming south between 4 and 7 mph.

Friday: Partly cloudy, with a high around 63. West wind 7 to 10 mph becoming north.

Friday Night: Mostly clear, with a low near 36. North wind between 6 and 8 mph.

Saturday: Mostly sunny, with a high near 56. North wind

Detailed Point Forecast

[Move Down]

Click Map for Forecast



My Alerts

State Climate Office of NC: DOT precipitation - Microsoft Internet Explorer

Address <http://gulstream.meas.ncsu.edu/dot/index.php?login=1>



Multi-Sensor Precipitation Estimates (MPE)





[MPE home](#) | [Map](#) | [My Projects](#) | [My Alerts](#) | [More MPE Data](#) | [User Acct](#) | [Status](#) | [NC CRONOS](#) | [State Climate Office](#) | [Contact](#)

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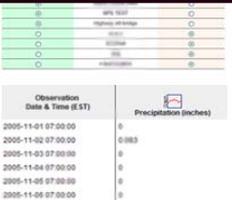
The MPE grids used in this tool are routinely produced by the National Weather Service and National Centers for Environmental Prediction.

[MAP](#)

Subscribe	PROJECT NAME	Unsubscribe
<input checked="" type="checkbox"/>	Watersheds of NC	<input type="checkbox"/>
<input checked="" type="checkbox"/>	MPE 1007	<input type="checkbox"/>
<input checked="" type="checkbox"/>	Highways of NC	<input type="checkbox"/>
<input type="checkbox"/>	WFO	<input checked="" type="checkbox"/>
<input type="checkbox"/>	WFO	<input checked="" type="checkbox"/>
<input type="checkbox"/>	WFO	<input checked="" type="checkbox"/>
<input type="checkbox"/>	Air Quality	<input checked="" type="checkbox"/>

MY ALERTS

This is the alert management system. This is where to go to manage your e-mail alert subscriptions.



MY ALERTS

This is the alert management system. This is where to go to manage your e-mail alert subscriptions.

[GET MORE MPE DATA](#)

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[GET MORE MPE DATA](#)

Quickly get the MPE values for any latitude/longitude in and around North Carolina.

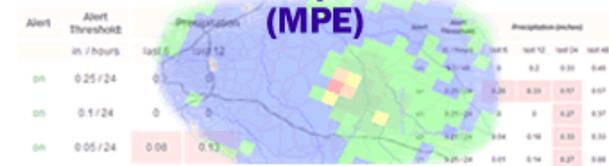
[NC CRONOS DATABASE](#)

The core of the State Climate Office's data warehouse, CRONOS is an integrated database of hourly and daily surface weather observations from different weather networks in and around North Carolina

My Alerts



Multi-Sensor Precipitation Estimates



- [MPE home](#)
- [Map](#)
- [My Projects](#)
- [My Alerts](#)
- [More MPE Data](#)
- [User Acct](#)
- [Status](#)
- [NC CRONOS](#)
- [State Climate Office](#)
- [Contact](#)

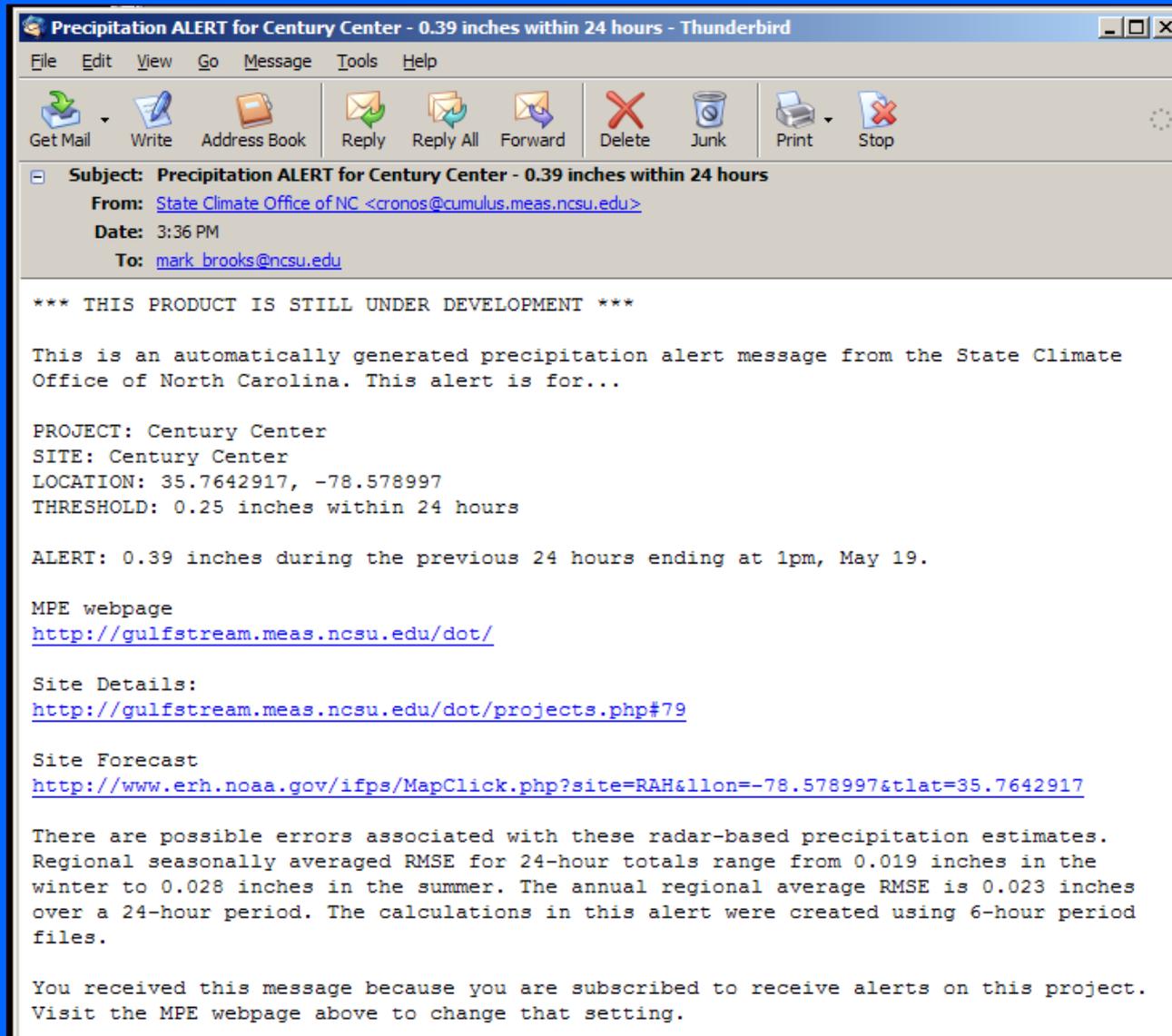
Precipitation Alerts - Change Alert Subscriptions for Ken Pace

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 1 am, 7 am, 1 pm, and 7 pm EST. Alerts are generated within a few hours after each time period ends.

Subscribe	PROJECT NAME	Unsubscribe
<input type="radio"/>	Airports [details]	<input checked="" type="radio"/>
<input type="radio"/>	Apex [details]	<input checked="" type="radio"/>
<input type="radio"/>	Bogue Shores [details]	<input checked="" type="radio"/>
<input type="radio"/>	Central NC [details]	<input checked="" type="radio"/>
<input type="radio"/>	Charlotte Outer Loop, R-2248D [details]	<input checked="" type="radio"/>
<input type="radio"/>	Clayton Bypass [details]	<input checked="" type="radio"/>
<input type="radio"/>	Div 1 Maint. [details]	<input checked="" type="radio"/>
<input type="radio"/>	Div 1 TIP Projects [details]	<input checked="" type="radio"/>

Alert E-Mail



The screenshot shows a Thunderbird email window titled "Precipitation ALERT for Century Center - 0.39 inches within 24 hours - Thunderbird". The interface includes a menu bar (File, Edit, View, Go, Message, Tools, Help) and a toolbar with icons for Get Mail, Write, Address Book, Reply, Reply All, Forward, Delete, Junk, Print, and Stop. The email header shows the subject, from (State Climate Office of NC), date (3:36 PM), and to (mark_brooks@ncsu.edu). The body of the email contains a development notice, a description of the alert, project details, a link to the MPE webpage, site details, a site forecast link, and a disclaimer about radar-based estimates.

Subject: Precipitation ALERT for Century Center - 0.39 inches within 24 hours
From: State Climate Office of NC <cronos@cumulus.meas.ncsu.edu>
Date: 3:36 PM
To: mark_brooks@ncsu.edu

*** THIS PRODUCT IS STILL UNDER DEVELOPMENT ***

This is an automatically generated precipitation alert message from the State Climate Office of North Carolina. This alert is for...

PROJECT: Century Center
SITE: Century Center
LOCATION: 35.7642917, -78.578997
THRESHOLD: 0.25 inches within 24 hours

ALERT: 0.39 inches during the previous 24 hours ending at 1pm, May 19.

MPE webpage
<http://gulfstream.meas.ncsu.edu/dot/>

Site Details:
<http://gulfstream.meas.ncsu.edu/dot/projects.php#79>

Site Forecast
<http://www.erh.noaa.gov/ifps/MapClick.php?site=RAH&llon=-78.578997&tlat=35.7642917>

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. The calculations in this alert were created using 6-hour period files.

You received this message because you are subscribed to receive alerts on this project. Visit the MPE webpage above to change that setting.

Get More Data

State Climate Office of NC: DOT precipitation - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address <http://gulfstream.meas.ncsu.edu/dot/index.php?login=1>



Multi-Sensor Precipitation Estimates (MPE)





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

Welcome, Ken Pace. Use the links above or below to navigate this website.

The precipitation estimates provided herein are derived from the NWS WSR-88D Doppler Radar. Radar precipitation 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.

There are still errors in MPE. A study by the State Climate Office of North Carolina suggests that MPE compares well with an independent daily precipitation gage network over the Carolinas. The annual regional average root mean square error (RMSE) is 0.023 inches over a 24-hour period. Details of this study are available [online](#).

The MPE grids used in this tool are routinely produced by the National Weather Service and National Centers for Environmental Prediction.

[MAP](#)



This simple mapping application enables you to visually see accumulated MPE estimates over time. When zoomed in, roads, water features, and town names can be overlaid for reference. Additionally, your project sites can be noted on the map for additional reference. The past 6, 12, 24, 48,

Observation Date & Time (EST)	Precipitation (inches)
2005-11-01 07:00:00	0
2005-11-02 07:00:00	0.083
2005-11-03 07:00:00	0
2005-11-04 07:00:00	0
2005-11-05 07:00:00	0
2005-11-06 07:00:00	0

[GET MORE MPE DATA](#)

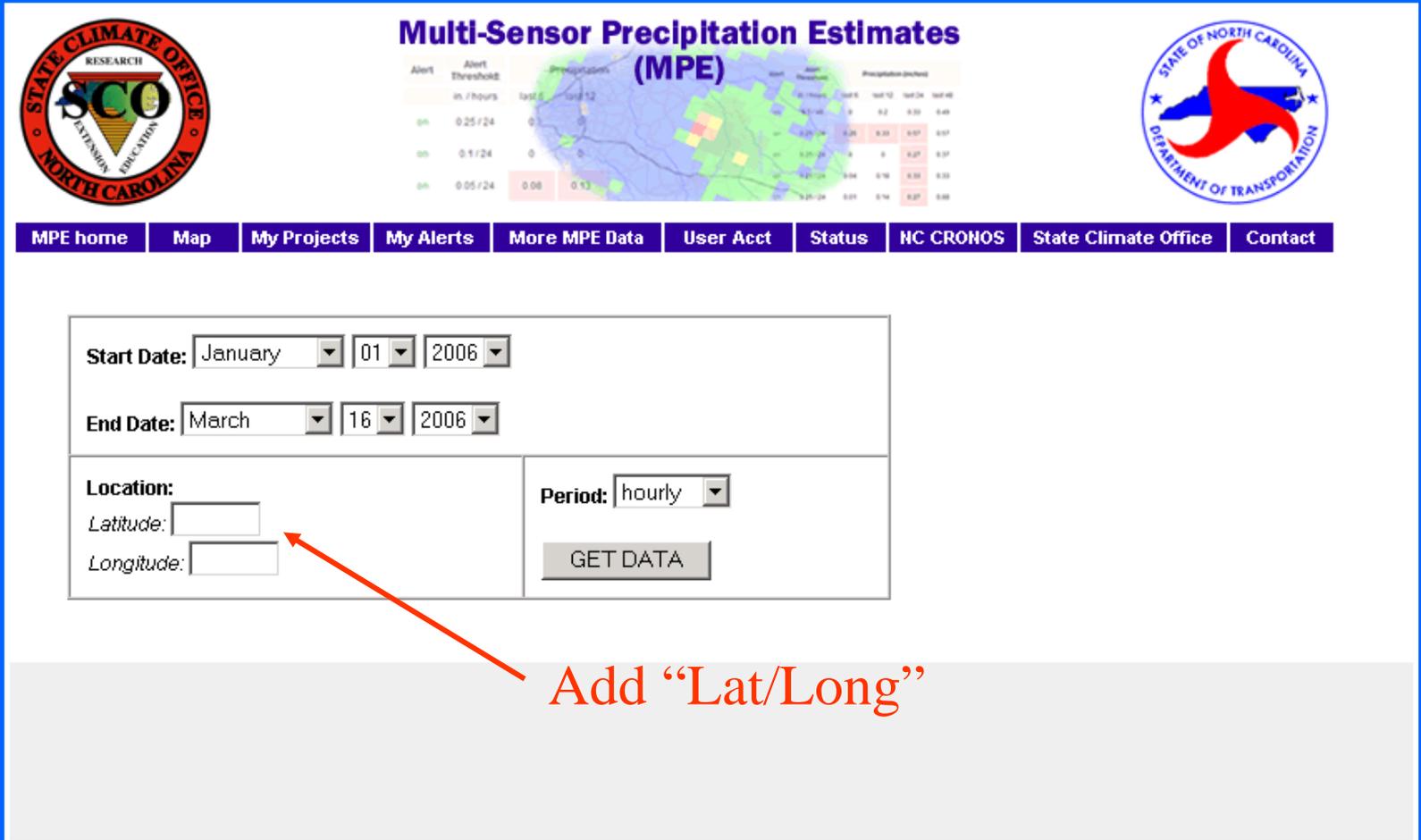
Quickly get the MPE values for any latitude/longitude in and around North Carolina.

Carolina.

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Get More Data



The screenshot displays the Multi-Sensor Precipitation Estimates (MPE) web application. At the top, there are logos for the State Climate Office Research (SCO) and the State of North Carolina Department of Transportation. The main heading is "Multi-Sensor Precipitation Estimates (MPE)". Below this is a map of North Carolina showing precipitation estimates, with a table of data to its right. The table has columns for "Alert", "Alert Threshold", "Precipitation", "Alert", "Alert Threshold", and "Precipitation (inches)". The data rows show various values, including "0.08" and "0.13" in the "Precipitation" column.

Below the map and table is a navigation menu with the following items: MPE home, Map, My Projects, My Alerts, More MPE Data, User Acct, Status, NC CRONOS, State Climate Office, and Contact.

The main content area contains a form for data retrieval. The "Start Date" is set to January 01, 2006, and the "End Date" is set to March 16, 2006. The "Location" section has input fields for "Latitude:" and "Longitude:". The "Period" is set to "hourly". A "GET DATA" button is located below the "Period" dropdown. An orange arrow points from the "GET DATA" button to the "Latitude:" and "Longitude:" input fields, with the text "Add 'Lat/Long'" written in red below it.

Questions

State Climate Office of NC: DOT precipitation - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address <http://gulstream.meas.ncsu.edu/dot/index.php?login=1>



Multi-Sensor Precipitation Estimates (MPE)



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MAP

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MY PROJECTS

This page shows a list of all projects that you are subscribed to receive precipitation alerts from. Each project has a list of associated sites. Accumulated MPE values are listed for all sites in text format. You can also view all projects.

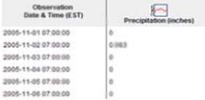


MY ALERTS

This is the alert management system. This is where to go to manage your e-mail alert subscriptions.

GET MORE MPE DATA

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NC CRONOS DATABASE

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<<http://www.nc-climate.ncsu.edu/dot/acct/>>