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All Hazards
NOAA
Weather Radio
NOAA National Weather Service

FipsServer®
Detailed Description
Professional Integrated Weather Information and Alerting System

Weather Information Provided:

FipsServer® is the next generation of Thunder Eagle's legendary weather information systems which integrates:

Professional weather station, including temperature, humidity, barometer, rain rate and rain fall, lightning, solar, wind speed and direction	NWS digital database text alert messages and new EAS CAP 1.2 national alert messages
NOAA Weather Radio SAME/EAS Alerts	NOAA Weather Radio streaming audio
NWS graphic five day forecasts and warnings	Email, Printer and LED Signboards
NWS Local and National Doppler radar with roads, storm tracks and warnings and optional lightning	Traffic and other security cameras
Flood gauges and other customer desired web links	NWS satellite images
Client's logo to show community sponsorship	On site graphic real time weather history

Current Conditions

NOAA Weather Radio EAS/ SAME Alerts

Num	Status	Event	Expire Date	Expire Time	Remaining Time	Locations	Date and Time Posted
3	Active	Blizzard Warning	2/10/2010	1:46 PM	03:46:40	MD-St.Mary's*MD-Calvert*	2/10/2010 7:58:20 AM
2	Active	Blizzard Warning	2/10/2010	1:46 PM	03:46:40	MD-Montgomery*MD-PrinceGeorge's*	2/10/2010 7:55:20 AM
1	Active	Blizzard Warning	2/10/2010	1:46 PM	03:46:40	DC-DistrictofColumbia*MD-Charles*VA-Warren*VA-Clarke*VA-Loudoun*VA-PrinceWilliam*VA-CityofManassas*VA-CityofManassasPark*VA-Fairfax*VA-CityofFairfax*VA-Arlington*VA-CityofAlexandria*VA-CityofFallsChurch*VA-Stafford*VA-KingGeorge*VA-Fauquier*WV-Jefferson*	2/10/2010 7:49:26 AM

Color coded weather and emergency alerts from NOAA Weather Radio (NWR), and from the NWS digital warning database, automatically appear in the web grid when active. These alerts automatically disappear when they expire.

The NOAA weather radio alerts will appear in a color coded grid with the following features:

Color coded watches, warnings and tests	Warning=red; Watch=yellow; Test=green
Expire date and time	
Remaining time countdown timer	
Locations	
Issue date and time	
An alert indication on the header while alerts are active	

NWS Digital Alert Messages

			Active Watches, Warnings and Advisories			
Status	Event	Severity	Area	Details	Expire Time	Fips Code
OK	Flood Warning	Moderate	Isle of Wight; Southampton; City of Franklin; City of Suffolk	FOR THE CHOWAN BASIN...INCLUDING SEBRELL...FRANKLIN...MODERATE FLOODING IS OCCURRING AND IS EXPECTED TO CONTINUE. ...FLOOD WARNING EXTENDED UNTIL SATURDAY AFTERNOON...THE FLOOD WARNING CONTINUES FOR THE BLACKWATER RIVER ABOVE FRANKLIN * UNTIL SATURDAY AFTERNOON...OR UNTIL THE WARNING IS CANCELLED. * AT 03:45 AM FRIDAY THE STAGE WAS 12.5 FEET * FLOOD STAGE IS 12.0 FEET * FORECAST...THE RIVER...WHICH CRESTED NEAR 13.2 FT...WILL CONTINUE TO FALL TO BELOW FLOOD STAGE BY TOMORROW MORNING. * AT 12.5 FEET...A PORTION OF ROUTE 611...JOYNERS BRIDGE	14:18 -- 02/13/2010	<051093> <051175> <051620> <051800>

The digital text alerts provide the full text description of the alert for any user selected location in the United States to monitor remote locations. Advisories and statements, which are not tone-alerted on NWR, appear in the digital database.

National Radar

The National Radar Map

04/27/2010 07:35 AM EDT

The national Doppler radar map has been custom configured for Thunder Eagle and shows active storms and warnings in a continuous loop.

Local Radar

05/27/2011 07:30 PM EDT

The local looping Doppler radar is also custom-configured for Thunder Eagle and is centered on your location. Individual website users can control the many settings on this radar including zooming in on a certain location. Roads, storm tracks, alert boxes, and intense tornadic rotation signatures automatically appear on the radar image.

National Forecast Map
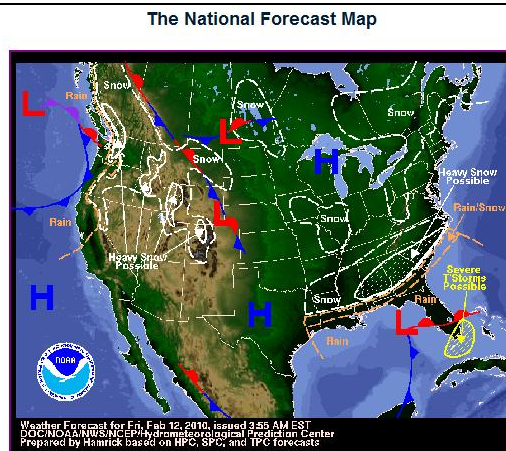
The national forecast map provides a graphical representation of the forecast for the entire country.

NWS Forecasts

NWS forecasts, including the popular five day forecast-at-a-glance icons, as well as watches, warnings, statements and advisories for your location, automatically appear on the website. This page is printable and has links to your local NWS office for further information.

Local Traffic Cameras

Your local traffic camera, or other cameras, can be added to the web site.

IFlows Rain and Flooding Gauges

IFlows, and other locally important links, can easily be added as tabs to your website.

Real Time Graphic Weather For Your Location

Rainfall Total - Thursday, May 05, 2011 = 00.00" - Vienna, VA

Rainfall Total - Wednesday, May 04, 2011 = 00.42" - Vienna, VA

48 Hour Temperature History for Vienna, VA

Daily Weather Archive for Vienna, VA

Today's Weather Summary

Current Weather Observations

Hourly Temperature - Tuesday, May 31, 2011 - Vienna, VA
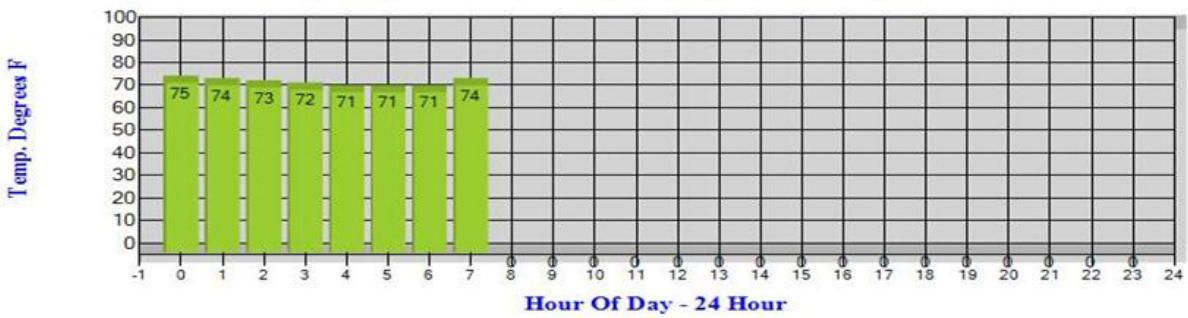
Hourly Temperature - Monday, May 30, 2011 - Vienna, VA
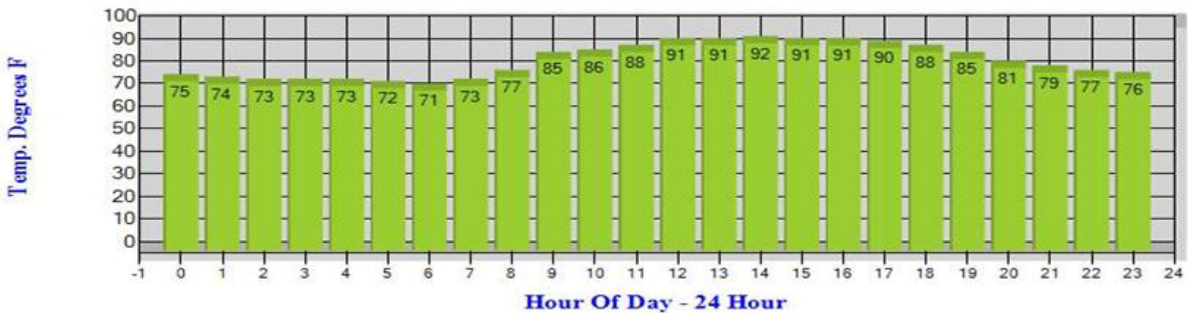
View Hour-By-Hour Rainfall for Yesterday and Today

Rainfall Total - Friday, May 27, 2011 = 00.21" - Fredericksburg VA

View Hour-By-Hour Lightning for Yesterday and Today

Peak Lightning Strikes Per Min Each Hr - Friday, May 27, 2011 - Fredericksburg VA

Equipment Provided:

Thunder Eagle strives to create the above information source for each client as a plug-and-play rack-mounted and pre-wired system containing:

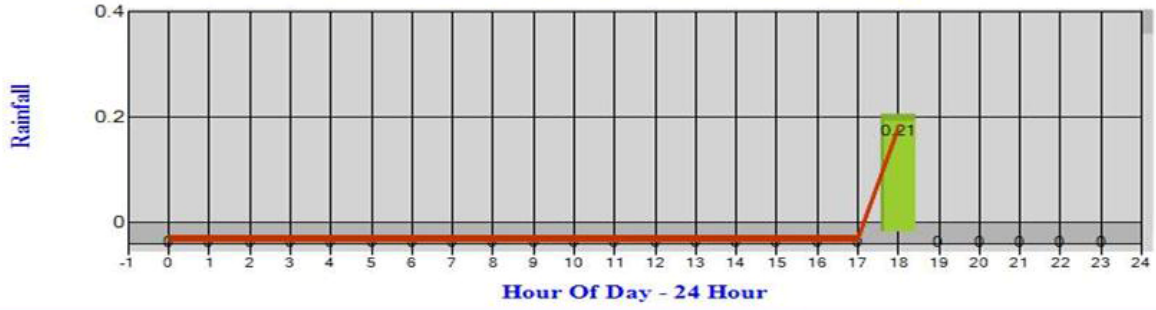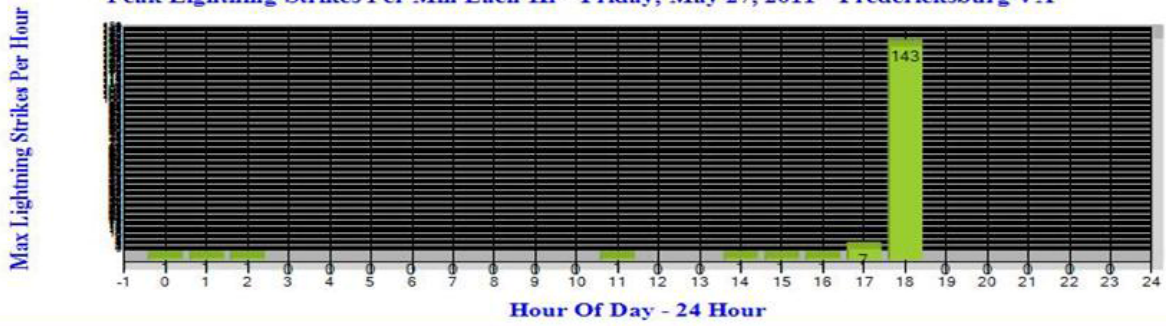|	
Weather Eagle® 110 NOAA Weather Radio Receiver	http://www.weathereagle.com/we110.htm
Alert Eagle® 120 EAS/SAME Decoder	http://www.weathereagle.com/ae120.htm
*Texas Weather Instruments Pro Weather Station	http://www.weathereagle.com/tx-wx.htm
*VoIP for streaming NOAA Weather Radio	http://www.weathereagle.com/voip.htm
Ethernet connections to our server	http://www.weathereagle.com/NI200.htm

*Optional equipment

IP addresses, provided by the client, will be pre-programmed into the units.

The client will install the following equipment:

Item	Description
Install the outside radio antenna	For WE110 NOAA weather radio
Install outside weather sensors	For Texas Weather Instruments weather station
Ethernet connection	To send data to the Thunder Eagle server
120 VAC power with backup generator (if possible)	To reliably power the system

Professional Weather Station

Our software obtains complete, professional, weather data from the Texas Weather Instruments weather station, and enables the user to synchronize the weather settings with local calibrated references, such as airport observations. Additionally, our software integrates the raw weather readings to provide 'smart' observations. For example solar readings are integrated with the local sunrise / sunset data and the rain sensor, to provide sunrise, sunset, light or heavy rain, and various severity thresholds of lightning detection.
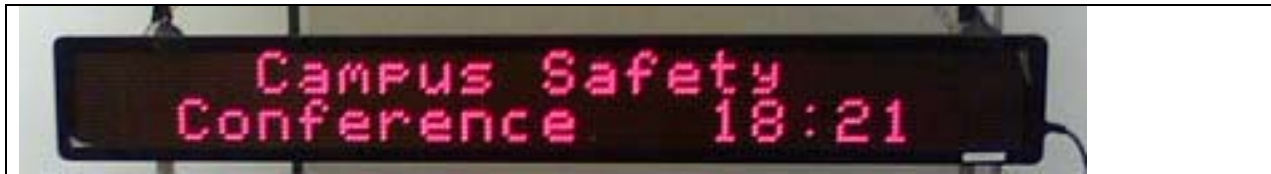
Printer

Rugged Ethernet enabled printers can be added to the system. Just plug the printer into 120VAC power and connect it to the Ethernet and our server will automatically send alert messages to the printer. Printers can easily be placed at remote locations without having to configure the local IT network.	

- ## LED Signboards

The two line led sign boards are Ethernet enabled and will receive alert messages from the server.

- ## Email

The FipsServer will send the alerts to user selected emails and text enabled cell phones.

- ## Your Logo

Your Logo Can Be Placed on the Web Site for Customization

Your logo shows your organization's support of the entire community with this vital weather information 24/7/365.

Provision of Services:

Thunder Eagle's server handles all of the hard work of taking and processing the data from NWR and the NWS and the weather sensors and placing the data on the template websites, in addition to obtaining weather information from many sources on the web.

Thunder Eagle will host web sites for both computer users and mobile users.

Our server will host the NOAA weather radio audio stream that can be accessed from computers and web enabled cell phones.

Thunder Eagle will use its best efforts to provide reliable server services, but due to many conditions beyond our control, 100% up time cannot be guaranteed.

Thunder Eagle will provide telephone and email support during normal business hours during the term of this agreement.

One year warranty on equipment, not including damage due to lightning or acts of g-d or misuse of the equipment, is provided.

Terms: Net 30

Revised 05/31/11