

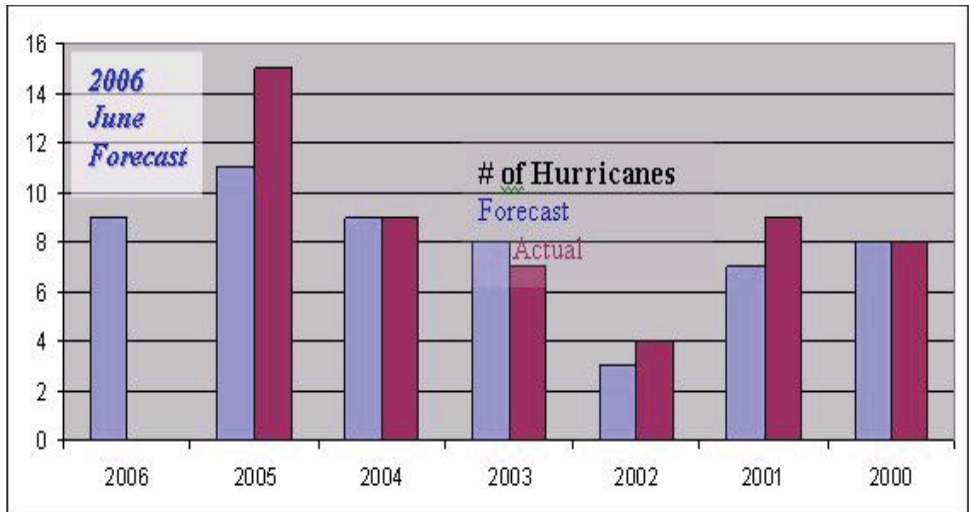
## 2006 Hurricane Forecast

### Increased Hurricanes May Not be Due to Global Warming

The Atlantic Basin is setting up for another active hurricane season according to long-time hurricane researcher William Gray, now professor emeritus at Colorado State University, and his designated heir, Philip Klotzbach. Although the figure to the right makes it appear that the 2006 forecast is about average, in fact the average number of hurricanes per season from 1950 to 2000 was 5.9. It's clear there's been a shift upward since then. The forecast-observed numbers show that whenever Gray & Klotzbach haven't been right on with their forecast, they tended to underestimate the season, so don't look for significantly fewer than 9 Atlantic Basin hurricanes this year!

The probability of a major hurricane (Category 3-5) making landfall somewhere on the U.S. coastline this year is 82%, much higher than the average of 52% in the last half century. The probability for a major hurricane making landfall in Florida plus East Coast is 69%, still high compared to historical 31%, and the probability of such a landfall on the Gulf Coast is 38%, compared with 30% in the past.

Although the forecasters acknowledge there has been global warming of the average sea surface temperature over the last two decades, they do not ascribe the increased hurricane activity in the last decade to this change, but rather to a "multi-decadal increase in strength in the Atlantic Ocean thermohaline circulation (THC) which is not directly related to global temperature increase. Changes in ocean salinity are believed to be the driving



2006 Atlantic Basin Hurricane Forecast, with Forecast and Observed since 2000. Summarized from Klotzbach & Gray, 2006, "Extended Range Forecast of Atlantic Seasonal Hurricane Activity and U.S. Landfall Strike Probability for 2006". For full article see <http://hurricane.atmos.colostate.edu/forecasts>

mechanism." (Klotzbach & Gray, 2006, p. 17, see figure caption).

Their 2006 message is that the past 38 years were unusual; only 17 major hurricanes landed somewhere in the U.S., whereas the preceding 40 years saw 36 major hurricanes make landfall. 💧

## Meteorologist on Staff Steve Joins the OneRain Team

OneRain's newest team member, Steve Early, comes to us with over nine years of experience in atmospheric science and meteorological research & development. While working at NOAA and the U.S. Air Force, he gained experience in a wide variety of skills, including numerical weather prediction, turbulence, radar and analysis. In addition to his meteorological background, Steve has strong skills in computer programming. He is familiar with several programming languages, including FORTRAN and Perl, and has worked extensively in the UNIX, Linux and Windows environments. At OneRain, Steve is involved principally

in rainfall analysis and development projects and initiatives.

Steve recently moved back to the area with his wife, Melissa, their son and daughter, and the family Beagle, Cocoa. 💧



Steve Early, new Meteorologist on staff

## Inside This Issue

2006 Hurricane Forecast.....	1
New Meteorologist Joins OneRain .....	1
Release of Contrail® Web 2.1 .....	2
Rainfall and Risk Management .....	2
New Product: DIADvisor™ 2.8.....	2
Tech Tip: Troubleshoot ALERT Systems	3
Jake Emerson a Father .....	3
Blog, Blogging & Blogs .....	3
New Dog in Town.....	3
OneRain Contact Information.....	4

## Release of Contrail® Web 2.1

### Newest Version Available in Mid-July

OneRain announces the latest update to its Contrail® family of products, Contrail Web 2.1. Contrail Web delivers rainfall data visualization and decision support. Users can see their data any time and anywhere they are Internet connected.

New features include:

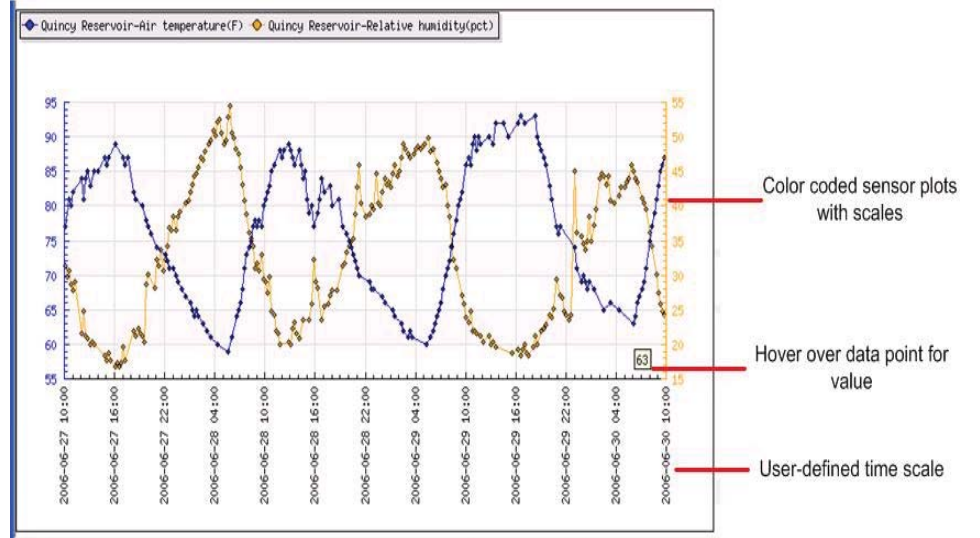
- Improved charting module with user-defined sensors and time frames.
- Individual user preferences for map layer states retained.
- Summary data for rain increment sensors over fixed intervals.
- Graphical and tabular displays automatically update every five minutes.
- Gage-adjusted radar rainfall can be overlaid as a map layer, displayed with individual gage accumulations over user-specified time intervals.

Contrail Web version 2.1 will be available to our users online in mid-July. ♦

## Rainfall & Risk Management

### Insurance, Re-Insurance and Rainfall

Tom Skrobacz, OneRain Chief Rainmaker, had the opportunity to meet recently with adjusters in the Insurance industry that are still deep in the throws of dealing with claims resulting from the 2005 Hurricane season. It is clear that they seek to “do the right thing” for the thousands of people impacted. The challenge is how does one assess coverage when all that is left is a cement slab? Many of the residential victims of Katrina have homeowners’ coverage for wind damage; but which came first, the wind or the water? And therefore, who is responsible for paying? Not easy



Contrail® Web 2.1 introduces an easy to use charting tool.

questions for the insurance companies, and no doubt frustrating for so many families trying to rebuild their lives.

Re-insurance is the industry that insures the insurance companies for catastrophic events. Re-insurance companies are future-focused and assess both current and historical risks in any particular geography. When it comes to rainfall, re-insurance requires high quality data to understand the nature of catastrophes (e.g. changes in rainfall recurrence probabilities). Better planning may help reduce future loss of lives and property.

Real-time rainfall tracking of storm events enables insurance companies to deploy their resources for timely response to the devastation and havoc that follow major weather events. The

OneRain Harbor delivers both real-time and historical data feeds from national radar and gage systems to improve real-time forecasting and risk management. ♦

## New Product Spotlight

### DIADvisor™ 2.8 with Backup

DIADvisor™ now comes with 24x7 monitoring of your system and notification of problems, as well as offsite backup of your critical data in the OneRain Harbor. OneRain monitors the health of your DIADvisor base station and notifies you when there is a problem. These services are offered free with your DIADvisor base station software support. Contact us to find out how to upgrade to DIADvisor 2.8 and enable these valuable new features. ♦

## OneRain Tech Tip

### Troubleshoot ALERT Systems with DIADvisor™ Base Stations

DIADvisor™ base stations can be configured to capture all ALERT data to support network performance analysis. This capture-able information includes duplicate data reports, undefined sensor reports and rejected data reports; all of which are invaluable when analyzing and trying to optimize your ALERT sensor network.

The steps to set this up are as follows:

- ☕ Select “Setup” then “System Parameters.”
- ☕ In the “System Configuration” window, go to the section “Data Validation.”
- ☕ Select all four checkboxes: “Save duplicate reports,” “Save invalid sensor IDs,” “Save out-of-service reports” and “Save bad data.”
- ☕ Select “Save” to dismiss the “System Configuration” window.💧

## New Dog in Town

### Australian Shepherd

Tom Skrobacz, OneRain’s Chief Rainmaker, recently celebrated the arrival of his new family pet, a 3-month-old Australian Shepherd puppy. This bundle of energy has proven no match for Tom’s four children who keep her running constantly. “The new puppy has big paws to fill,” commented Tom. “She is replacing our 6-year-old Aussie, Sydney, who died unexpectedly a few weeks ago.” Aside from house training, the biggest challenge for the Skro-bunch has been naming the new dog. Lady, Zoey, Zipper, Pepper, Tessie, Puddles and Ruby are just a few of the short-listed names. We’ll announce the winning name in a future newsletter.💧

## Jake Emerson a Father

### First-time Dad is Proud

Jake Emerson, our Director of Field and Integration Services, and his wife Rachael had their first baby on May 23. To nobody’s surprise, Nora Nadine Emerson is a happy and healthy little redhead. She was 7 lbs. 4 oz. Jake says, “The wonder of this new life in ours keeps Rachael and me in absolute awe.”💧

## Blog, Blogging & Blogs

### Sharing the OneRain Story

OneRain is happy to share our stories on rainfall, business and personal experiences with our customers and friends. Check out our home page for the latest weblogs – we hope you enjoy this month’s insights from our CEO Ilse Gayl ([www.onerain.com](http://www.onerain.com)). Here are a few excerpts:

On forecasting: “If we want to understand how rainfall drives the hydrologic aspects of the models we’re looking at, we must go further back to the data that were used



Nora Nadine Emerson in her duck towel.

to generate the hydrographs we used.”

On rainfall: “Everyone working in this domain is making steps toward improving our understanding of rainfall and how it really drives the hydrologic cycle.”

On skiing in Colorado: “The views from the summit are breathtaking, and the lifts’ top are a launching platform for intrepid chute hunters who take their skis off and start climbing the ridge above to find virgin snow and steeps.”

Stop by and post your comments – we’d love to know what you think. 💧



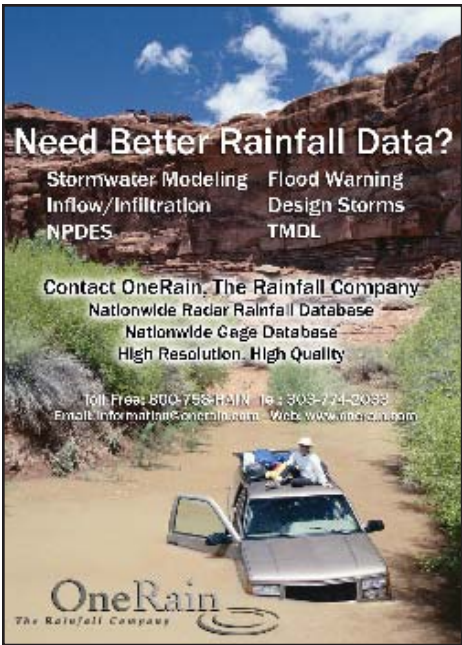
Tom’s youngest daughter Lucy cuddles their new Australian Shepherd puppy

**Need Better Rainfall Data?**

Stormwater Modeling    Flood Warning  
 Inflow/Infiltration    Design Storms  
 NPDES    TMDL

Contact OneRain, The Rainfall Company  
 Nationwide Radar Rainfall Database  
 Nationwide Gage Database  
 High Resolution, High Quality

Toll Free: 800-758-RAIN    Tel: 303-774-2033  
 Email: [info@onerain.com](mailto:info@onerain.com)    Web: [www.onerain.com](http://www.onerain.com)



## OneRain Contact Information

Tom Skrobacz  
 Lou Torrence  
 Earl Weiler  
 Amber Fischer  
 Korene Supino  
 Ilse Gayl  
 James Logan  
 Carol Chavez  
 Jake Emerson  
 Technical Support  
 Information

Chief Rainmaker  
 Rainmaker, Eastern Region  
 Sales Engineer  
 Executive Assistant  
 Accounts Payable/Receivable  
 President & CEO  
 Chief Operations Officer  
 Director, Finance & Admin.  
 Director, Field Services  
 Get help!

[tom.skrobacz@onerain.com](mailto:tom.skrobacz@onerain.com)  
[lou.torrence@onerain.com](mailto:lou.torrence@onerain.com)  
[earl.weiler@onerain.com](mailto:earl.weiler@onerain.com)  
[amber.fischer@onerain.com](mailto:amber.fischer@onerain.com)  
[korene.supino@onerain.com](mailto:korene.supino@onerain.com)  
[ilse.gayl@onerain.com](mailto:ilse.gayl@onerain.com)  
[james.logan@onerain.com](mailto:james.logan@onerain.com)  
[carol.chavez@onerain.com](mailto:carol.chavez@onerain.com)  
[jake.emerson@onerain.com](mailto:jake.emerson@onerain.com)  
[techsupp@onerain.com](mailto:techsupp@onerain.com)  
[sales@onerain.com](mailto:sales@onerain.com)

Toll Free: 1-800-758-RAIN (7246)

[www.OneRain.com](http://www.OneRain.com)

### Corporate Office

1531 Skyway, Unit D  
 Longmont, CO 80504  
 Phone: 303-774-2033  
 Fax: 303-774-2037

### Virginia Sales Office

2308 Mount Vernon Avenue, Suite 715  
 Alexandria, VA 22301  
 Phone: 703-200-6955  
 Fax: 703-997-3074

**OneRain**  
 The Rainfall Company  
 1531 Skyway, Unit D  
 Longmont, CO 80504