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Inside this issue...

First Half Winter
Wrap-Up 1

Changing CST
Locations 2

Arctic Oscillation 2

February
Averages 2

Dec. 19 Storm Totals

- Upton, NY: **26.3"**
- * Philadelphia, PA: **23.2"**
- * Baltimore, MD: **21.0"**
- Groton, CT: **18.0"**
- * Sterling, VA: **18.0"**
- * Wilmington, DE: **17.0"**
- Washington, DC: **16.0"**
- * Atlantic City, NJ: **12.1"**
- * Boston, MA: **10.0"**

* Indicates the snowfall was measured at the main airport



Recapping the First Half of Winter



December 19: A car buried after nearly two feet of snow in Washington, DC

After a very quiet start to the winter with hardly a November snowflake falling, it got very interesting in December and the first half of January. The period was active with one memorable pre-Christmas winter storm.

Most of our events were coastal storms and the first wintry one of the season was December 5th. Though there was some steady snow, this was generally an easy event as it came on the weekend with mild temperatures and was fast moving. The next storm on the 9th brought a lot of precipitation, but only affected North-

ern and colder areas with initial snow. After a few more minor and mild events, the following storm brought record snowfall to parts of the region.

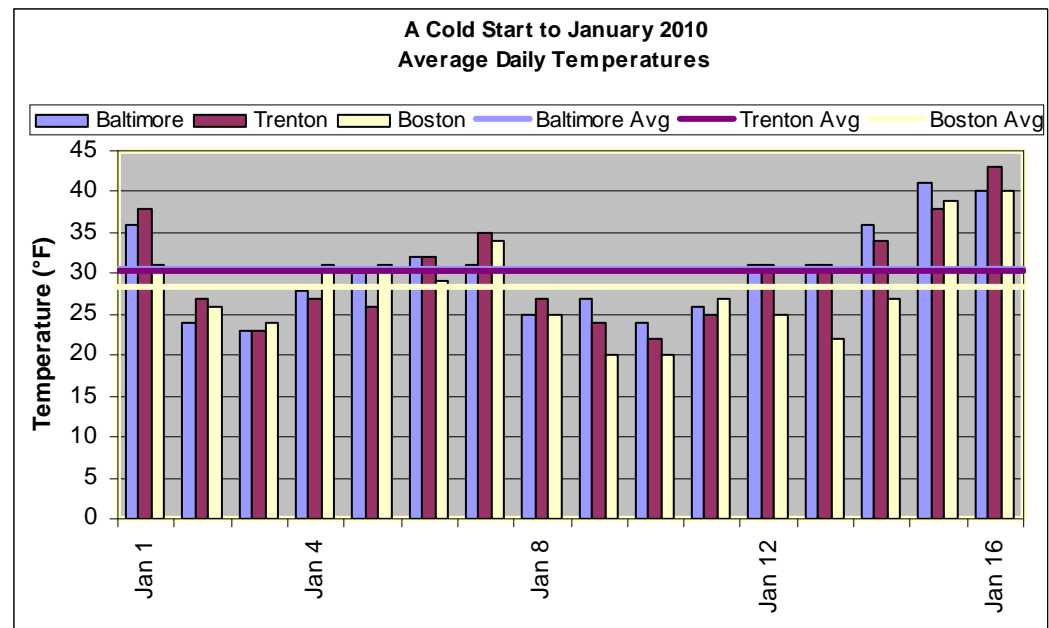
December 19th's storm was a coastal low that featured copious

amounts of moisture. It took a few days prior to the storm to evaluate just how far north the heavy precip would move. The Southern storm gave normally warmer areas the most snow (though much of New England saw a foot of accum.). All kinds of records were set in terms of December snowfall from Washington to Baltimore northward thru Delaware, Philly and South Jersey. There was a vast difference in accumulations from North to South. For example, Wantage in extreme NW NJ only had 3 inches. Meanwhile, in the ex-

treme Southern part of the state, Newport in Cumberland County saw 24 inches!

Afterwards, things were generally quiet until New Year's Eve when a heavy, quick shot of snow came through in the morning and then a lighter wintry mix returned at night. This led to a much colder January where there were many snow shower threats that first week. The cold was prolonged (see chart below), but not brutal and there were no records set, despite the extent of the cold. After our first clipper of the season produced a general light snow on the 8th, we had one more cold weekend, before a "January Thaw" moderated temperatures the last seven days.

So what will the next few weeks and the rest of winter hold in store? Forecast and Alert clients can take a look at our Extended Forecasts that are sent bi-weekly via email.



Updating Snowfall Total Location Changes

During the warm season of 2009, WeatherWorks made several improvements and enhancements to the Certified Snowfall Total program. The list of updates was sent via email earlier in the Fall. We hope that this has improved the quality of the program as you continue to use it through the winter season.

Over the past month, WeatherWorks has received a significant amount of requests to change towns or zip codes for Certified Snowfall Totals. This is no problem at all as we understand some

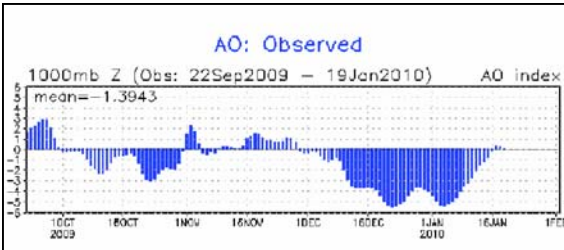
of our clients have operations that are not consistently in one town from season to season. It is OK to switch a location in the beginning of the season and of course it is always fine to add new towns or zip codes.

Even during quiet weather situations, the meteorologists at WeatherWorks are very busy with other tasks. **The easiest and most efficient way to notify us of location updates is to email our office manager, [Cindy Masotti](mailto:cindymasotti@weatherworksinc.com) ([cindymasotti](mailto:cindymasotti@weatherworksinc.com)**

@weatherworksinc.com) By sending your requests to her, she will be able to make the changes faster and notify you if there is anything else you need to know about the change



Arctic Oscillation Influences on the Start of Winter



The Arctic Oscillation was negative for 49 days in a row

The Arctic Oscillation (AO) is a pressure index that measures the North Pole's ability to dislodge cold air into the Northern Hemisphere. When the AO is negative, the ability to move cold air South into North America is

Pole. This index is a very important factor in determining if cold air will be in Canada and the Northern U.S.

The negative AO from late November through mid January was not only unusually long in duration, but set the lowest

much monthly average ever recorded greater. for any month since records began (1950). The combination of this record setting AO and the strong El Niño in place, set up a recipe for an unusual amount of snow events as the entire country was submersed in cold. It snowed in Houston, TX as early as Dec. 4. Also, Florida experienced severe crop damage with prolonged freezing weather. In our neck of the woods, wintry coastal storms and snowy Nor'easters became much more frequent.

FEBRUARY AVERAGES (30 year averages: 1971-2000)						
	Boston, MA (BOS)		Newark, NJ (EWR)		Baltimore, MD (BWI)	
	Feb 1	Feb 28	Feb 1	Feb 28	Feb 1	Feb 28
High Temp	36	42	39	45	42	48
Low Temp	29	34	24	29	24	29
Precip (Mo. Total)	3.40"		2.96"		3.02"	
Snowfall (Mo. Total)	10.7"		8.4"		6.4"	
Sunrise	6:58 AM	6:21 AM	7:07 AM	6:32 AM	7:14 AM	6:41 AM
Sunset	4:58 PM	5:33 PM	5:14 PM	5:47 PM	5:27 PM	5:58 PM

February 2010 Temperature Outlook

Temperatures will start out slightly above or close to normal in the first week with plenty of variability. In mid and late February, look for cooling, and a return of below normal temperatures.

February 2010 Precipitation Outlook

The stormy trend of early winter is expected to continue in February. As such, more precip than normal is expected. Early on, mixed precip events will be favored given mild temperatures

Reminder alert clients: Updating contact info

We have successfully integrated our new client WeatherWorks web pages this winter season and have had nice feedback on the cleaner form. Additionally, we are very encouraged by the number of Alert clients who are updating their contact information online. We just wanted to remind everyone, that you have the ability to let us know of any company changes, by updating your client contact sheet via the client login.

WEBSITE OF THE MONTH



<http://earthquake.usgs.gov/earthquakes/dyfi/>

Even though this is not weather-related, it is science and we have received some questions following the unfortunate disaster in Haiti. The USGS, provides the most complete source for earthquake information and a comprehensive look at current events

UPCOMING EVENTS

- Feb. 2 Groundhog Day
- Mar. 1 Meteorological Winter Ends