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## Michaels—Snow Forecast: Cloudy With a Chance of Accuracy

PATRICK J. MICHAELS TIMES-DISPATCH COLUMNIST<br>Published: February 3, 2010<br>» 0 Comments | Post a Comment<br>vote<br>now

 and schoolkids turn off Guitar Hero and turn on The Weather Channel.

While forecasts of possible snowstorms days in advance have improved tremendously in the past 20 years, the very nature of mid-Atlantic storms and Virginia geography will forever
 are as common now as they were in 1980. No one goes out on a limb and says "tomorrow's snow total will be 7 inches."

The problem is that snow is water, and a little water makes a lot of snow, especially when the atmosphere is colder than it usually is around here, like it was on the last weekend in January. That allows picture-perfect snowflakes -- called dendrites -- to form, which fluffily add up on the ground into much deeper piles than our usual "wintry mix" of mushy snow, sleet, and freezing rain (which I prefer to conjunct into "sleeze"). Normally we will get about 8 inches of snow out of one inch of water, but the last storm's ratio was closer to 20 -to- 1 away from the immediate Atlantic coast.

A little bit of water makes a big difference in snow. How many people are upset, or even notice if a spring storm produces a tenth of an inch of rain when it was forecast to produce a
 -- will notice.
 that's usually in short supply, which is why we have so many more winter rainstorms than snowstorms.
 infrequent. They haven't. Richmond's snow history for the past century reveals decades of snowy winters and decades of rainy ones, but no overall trend.
 Carolina coast. The cold air slides down the Piedmont and coastal plain, "dammed" by the Appalachian mountains. Meanwhile, the warm Atlantic moisture from the northeaster rides
 in the form of snow, but if there's too much, it's too dry and any snow that forms evaporates before it gets down to the surface.

Obviously (because of the rarity of heavy snow), the "window" between too little and too much cold air isn't very large, and the difference between a foot of snow and none is often a matter of miles, which is impossible to pinpoint three days in advance of a low pressure system that hasn't even formed!

The art of snow forecasting comes from trying to tease out of computer models where the rain/snow line will be and where the snow will cut to nothing.
Last weekend, the trick to the correct forecast was to look at the trends in the computer models as they whirred a new forecast every six hours. All agreed that there was going to be
 that the computer models were underestimating the northward spread of heavy snow were right. Northern Virginia got a lot more than the computer said it would, and some areas in Southeastern Virginia got less. Richmond was in the middle and the forecasts were in general very good.

Good forecast or not, heavy snow will remain a peculiarity in Richmond, so one sure bet is that any rumor of accumulating snow will cause a run on groceries, gas, and drinks.
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