

Purpose: Analyze the Presidents' Day II Storm of 16–17 Feb 2003. Compare and contrast the relevant dynamics and thermodynamics that governed this storm with the Presidents' Day I storm of 19 Feb 1979 from HW #2.

Why: Very different storms. Aside from Rich Grumm, the 2003 storm has not been studied

Objective: Write an overview paper with a **maximum** of 1000 words (~3 double-spaced pages)

Organization: Work as teams (undergrads as one team, grads as another team)

Materials: Online maps, loops, references, and web links (see below) on the class home page

How: Employ synoptic-dynamic “horse sense.” Improvise. Reference/include relevant figures

When: Submit your overview papers on or before Thursday 7 March 2019

Questions:

1. How did the large-scale NH circulation evolution impact the Presidents' Day II storm?
2. What dynamical and thermodynamical processes drove the Presidents' Day II storm?
3. How does the Presidents' Day II storm differ from the Presidents' Day I storm?
4. How does the Presidents' Day II storm compare to classic East Coast winter storms?
5. How (and why) did the predictability horizons differ between these two storms?
6. How (and why) did the large-scale flow patterns differ after these two storms?

Additional Materials:

- [Southern Stream Storm 11-17 February 2003: Presidents Day Weekend Snow Storm](#): Richard Grumm
- [NH mean and anomaly maps before and after the Presidents' Day II storm of 16–17 Feb 2003](#): NOAA/ESRL
- **Presidents' Day Storm II February 2003**
[Severe Weather Maps](#): Alicia Bentley
[Tropical Transition Maps](#): Alicia Bentley
[Standardized Anomaly Maps](#): Alicia Bentley