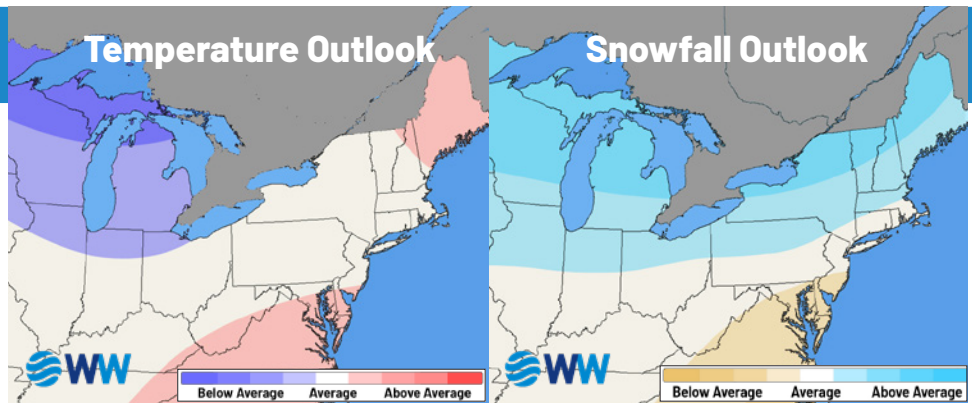


2022-23 Winter Outlook: Mid-Season Update

January 15th - Feb. 15th

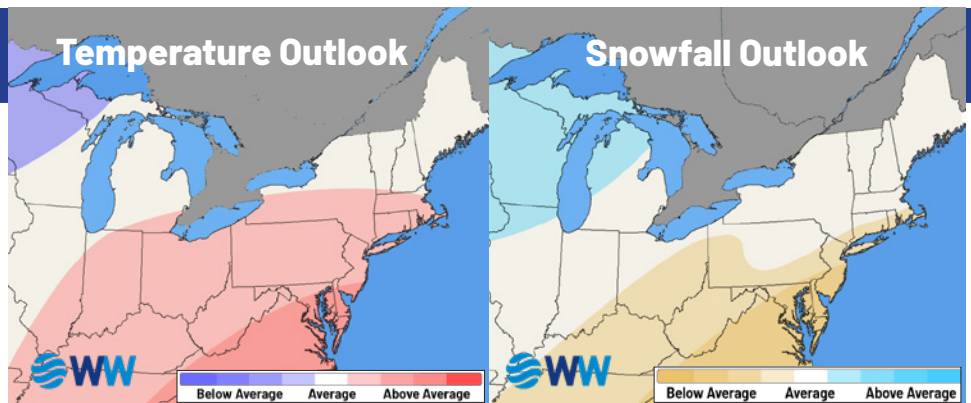
- Period starts warmer than average in the Midwest & Northeast due to a persistent flow off the Pacific Ocean.
- Pattern turns chillier last week of January into early February, esp. New York City & northward. Should be cold enough for snow.



- A flip back toward a mild pattern possible towards mid-February in the mid-Atlantic due to mild weather surging north from the Southeast U.S. ridge. New England likely remains slightly colder than average.

February 16th - Mar. 15th

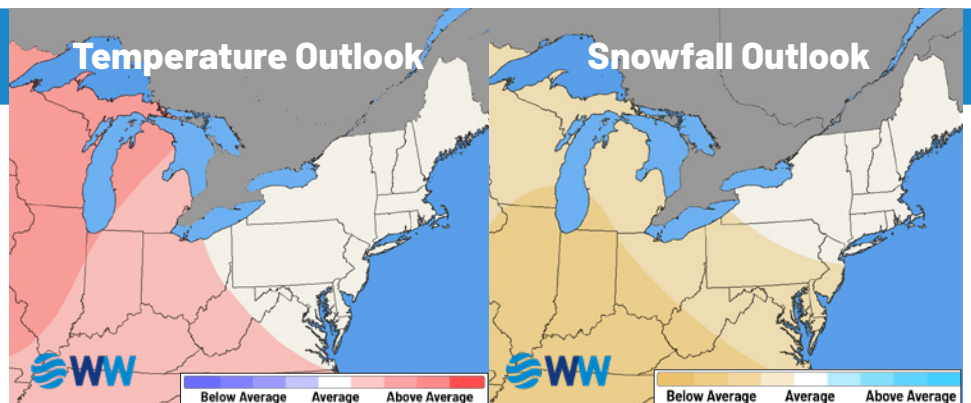
- The SE ridge flexes in mid-to-late Feb., leading to mildness and below normal snow for the Mid-Atlantic.
- High latitude blocking (similar to what we saw in December) is a wild card that may keep New England colder with more snow risks.



- This is a climatologically favored period for snowfall, so there can still be snow and mixed events north of the Mason-Dixon line, and especially in New England even with temperatures that are near or above normal.

March 16th - Apr. 15th

- Our analogs indicate blocking can somewhat negate mild weather from pushing north, keeping the warmest temperatures to the west over the Ohio Valley and Midwest.
- This setup would keep the pattern active, if not stormy, with the risk of late season snow from Northeast PA/ northern NJ and into New England.

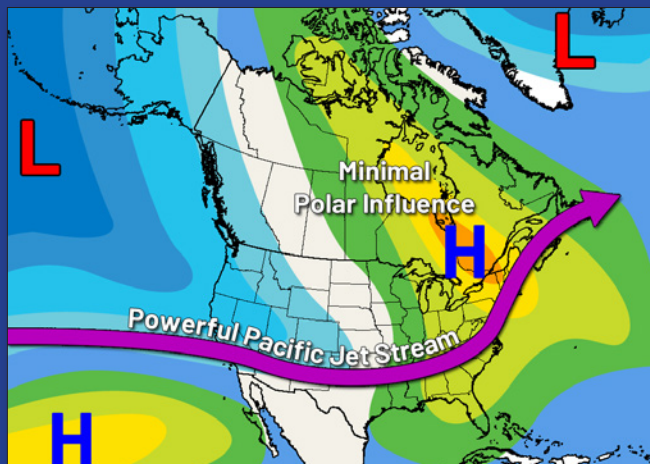


- Less than ideal climatology and near normal temperatures will make snow difficult in the mid-Atlantic, and particularly below the Mason-Dixon Line. Absent a fluke system, just a few low-end threats are possible.

Winter 22-23: Looking Back & Forward

Recent Pattern over the U.S.

- The biggest feature has been the extension of the robust jet stream off the Pacific Ocean, something more associated with an El Niño season rather than La Niña.
- In addition to bringing relentless rain, snow & wind to California, it has brought mild Pacific air to most of the central and eastern U.S. by cutting off the supply of cold, polar air.
- Given the unusual and climatologically atypical jet pattern in a La Niña winter, we expect this setup to break down, with a trend towards consistently colder weather in just a few weeks.



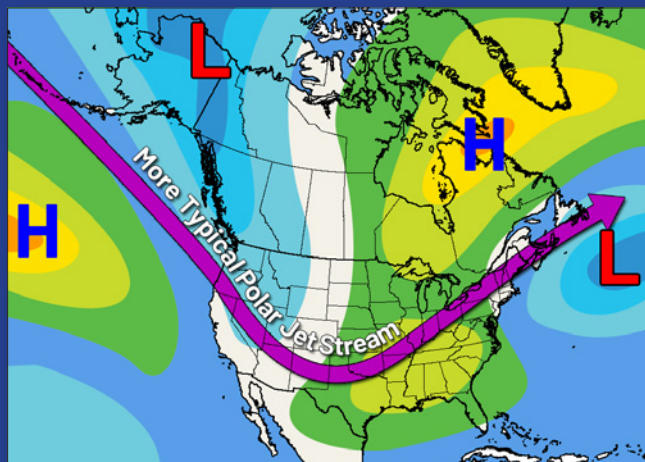
Mid-Season Snowfall Comparisons

Snowfall Through January 15th

	Albany	Allentown	Baltimore	Boston	Hartford	Newark	Philadelphia	Wash. DC	Richmond
2022-23	13.3	1.4	Trace	3.0	8.2	0.1	Trace	Trace	0.0
15 yr Avg	21.6	8.5	4.7	16.2	16.6	10.2	7.1	3.7	3.2
Analog Avg	19.4	8.1	2.6	10.3	16.0	9.2	4.8	1.6	2.3

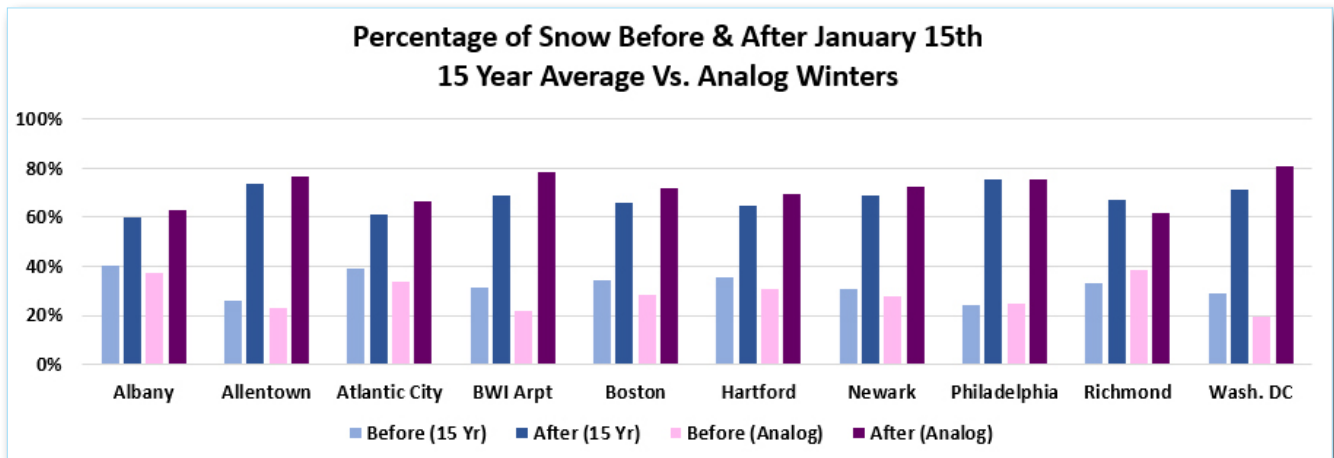
Where We're Going

- Analogs and the expected pattern to the right show opportunities for snow in the middle to latter portions of the winter season.
- These signals for colder & snowier weather are focused on late January & early February. This is beginning to show up on some guidance as early as Jan. 22 - 25 into early Feb.
- The Southeast (warm) U.S. Ridge may exert its influence mid-late Feb., but signals are also present for blocking / stormier weather lingering into what may be an interesting March.



Early vs. Late Winter Snowfall Analysis

Diving Deeper into Similar Seasons

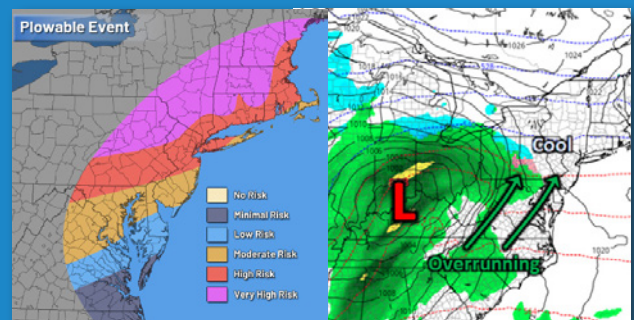


Mid-Season Snowfall Analysis & Takeaways

- Seeing a relatively quiet start to the snow season is not abnormal! On average, 60 - 75% of the region's snowfall occurs after January 15th.
- Historically, the percentage of snowfall after January 15th is higher closer to the coast and in the mid-Atlantic (where lingering warmth impacts December's snow the most)
- This disparity shows up both over the last 15 years AND in the analog years, giving good confidence there's time to make up for a quiet first half of winter.

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