

Meet TempRisk Apollo

Introducing the next generation of TempRisk!

TempRisk Apollo provides the market's most sophisticated temperature guidance in a one-stop shop for all your forecast needs. It optimally blends TempRisk's unique, objective temperature output with numerical guidance for the full spectrum of temperature probabilities.



NEW: TempRisk Apollo Scorecard

Scorecard and Evolution are now merged into one tab

TempRisk Scorecard

Evolution

Animation

[Click Here to Turn On Component Guides](#)

1

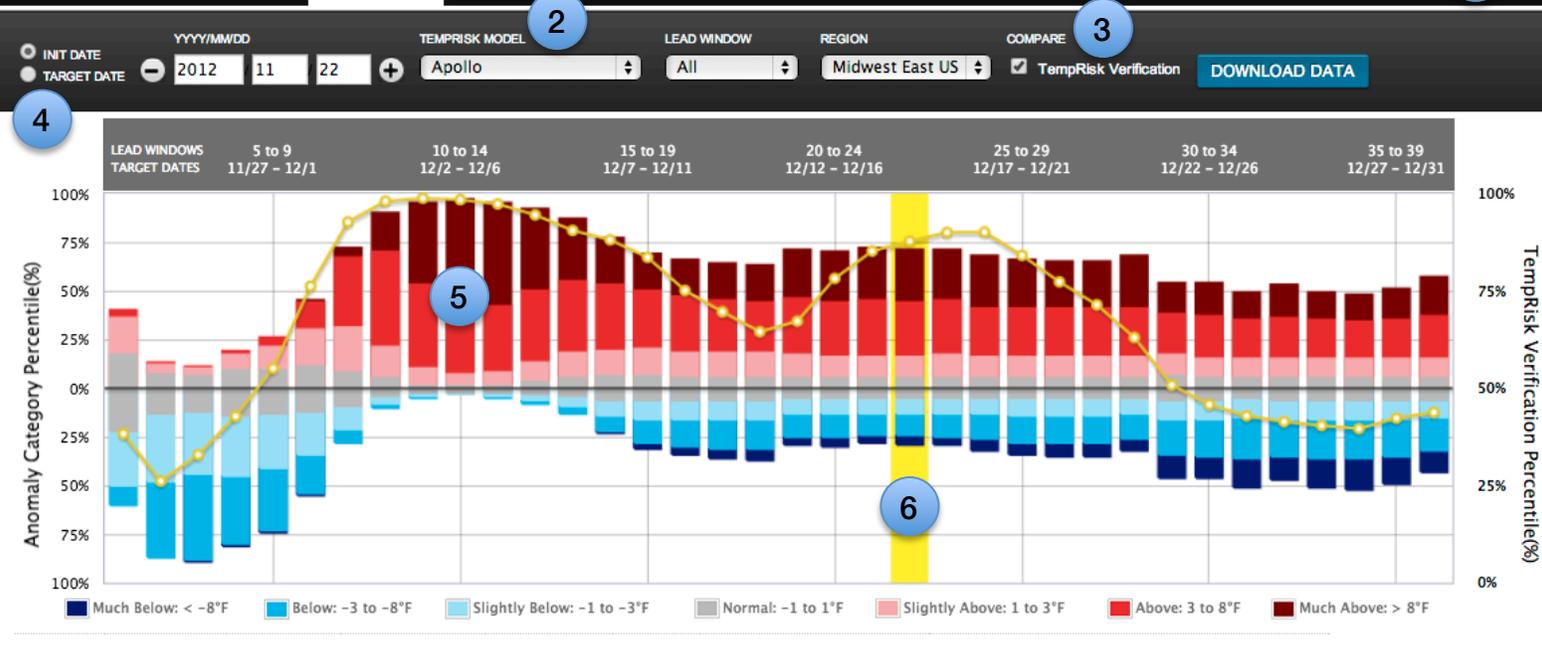
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- 1 Click to view or hide pop-up tips that help you navigate new features of TempRisk Apollo. Hover over any of the question marks that appear to read more detailed information.
- 2 Display either TempRisk's purely statistical seasonal ensemble output or TempRisk Apollo's Multi-Model Ensemble data, which optimally blends data from the ECMWF with TempRisk statistical seasonal ensemble output. Whichever model is selected, the corresponding column header in the lower table highlights in orange.
- 3 Check box to view or hide the ranked percentile anomaly of verified data (yellow line). TempRisk Verification (formerly TempRisk Index) can be used to analyze TempRisk Apollo performance. First data point is current day minus five due to 5-day moving average. NOTE: Forecasts and verification are not plotted on the same scale. This feature is disabled when using locked lead window or target date functions.
- 4 Search by initialization date (the date from which you want to see forecasts going forward 1-40 days) or Target Date (the date from which you want to look back 1-40 days to see how TempRisk was forecasting it.) When searching by Init Date, user can also lock in the lead window. Only pro users have access to historical data.
- 5 TempRisk Scorecard shows a full spectrum of probable temperature events (much below, below, slightly below, normal, slightly above, above, and much above). By displaying odds for extremes and everything in-between, The TempRisk Scorecard provides a more finely tuned forecast.
- 6 Click a Lead Window bar on the graph to highlight it in yellow and view its Initialization Date, Lead Window, and Target Date information. Forecast details of the selected Lead Window will populate in the table below.

TempRisk Alongside Numerical Guidance: *How do they compare?*

Orange shading indicates TempRisk Apollo is the selected model. When Statistical is the selected model, the Statistical header will be shaded orange.

ANOMALY CATEGORY	APOLLO	CLIMO	APOLLO-CLIMO	ECMWF	STATISTICAL
HeatRisk > 0°F:	71	50	21	42	78
ColdRisk < 0°F:	29	50	-21	58	22
Much Above:	27	15	12	9	32
Above:	28	20	8	18	31
Slightly Above:	11	10	1	10	11
Normal:	10	10	0	11	9
Slightly Below:	8	10	-2	12	7
Below:	11	20	-9	24	8
Much Below:	5	15	-10	16	2

Yellow outline indicates anomaly bucket in which actual temperature event verified.

The strongest anomaly from each forecast is highlighted for easy visual reference.

COLUMN HEADERS

TempRisk Apollo:

Optimally weights data from the ECMWF with TempRisk statistical seasonal ensemble data to form one forecast. Data goes back to Jan 1, 2007.

Climo (Climatology):

Historical distribution of temperatures across anomaly buckets based on 30 years of data.

Apollo-Climo:

Difference between Climatology and TempRisk Apollo models.

ECMWF (European Center for Medium-Range Weather Forecasting):

Daily values are incorporated for days 1-15. After day 15, twice-weekly values are interpolated into daily values.

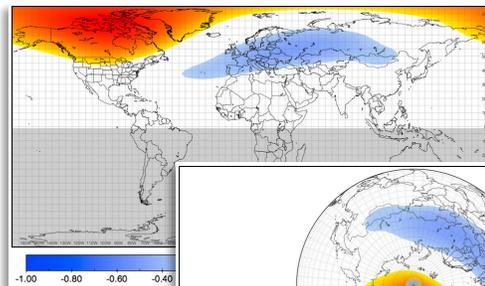
Statistical Seasonal Ensemble:

Probabilistic forecast of temperature distribution.

Dig Deeper into Data: *What's driving the forecast?*

SIGNAL EFFECT	SEASON	SIGNALS (70)	SD	ANALYSIS
	Oct-Nov-Dec	airtemp10, EOF3	-1.52	
	Oct-Dec	airtemp50, EOF1	-2.08	
	Sep-Nov	snow NH	-1.46	
	Sep-Oct-Nov	snow US	-1.29	
	Nov-Dec-Jan	uwind200, EOF9	-0.75	
	Sep-Oct-Nov	uwind200, EOF14	1.46	
	Nov-Dec-Jan	Soil Moisture	0.15	
	Oct-Nov-Dec	OLR, EOF1	0.15	
	Oct-Nov-Dec	SLP, EOF13	-1.35	
	Nov-Dec-Jan	SLP, EOF13	-0.68	

Signal Maps Shown as Polar and Global Views:



1 Signal Effect: TempRisk Apollo's historical sensitivity to a particular meteorological pattern. Hover over the bar to view actual percentage.

2 Season: Three-month period for a given initialization date.

3 Signals: Click a signal link to see the details of the meteorological feature (Pro user access).

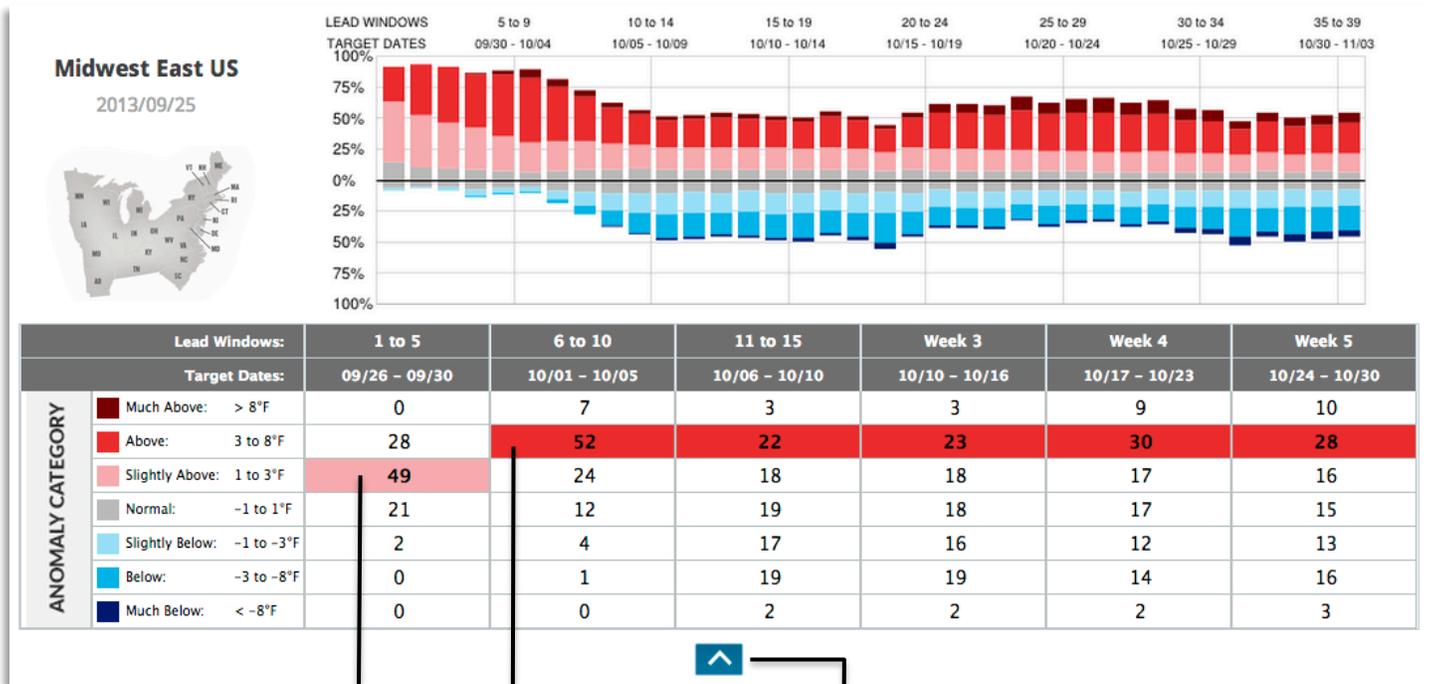
4 SD (Standard Deviation): How strong a pattern is in terms of a normalized standard deviation

Graphical Sensitivity Analysis (GSA) (Pro and Standard user access)

Path Analysis (Pro user access)

TempRisk Almanac (Pro user access)

TempRisk Apollo Navigator* and Daily Snapshot: Five weeks of regional forecast data at-a-glance



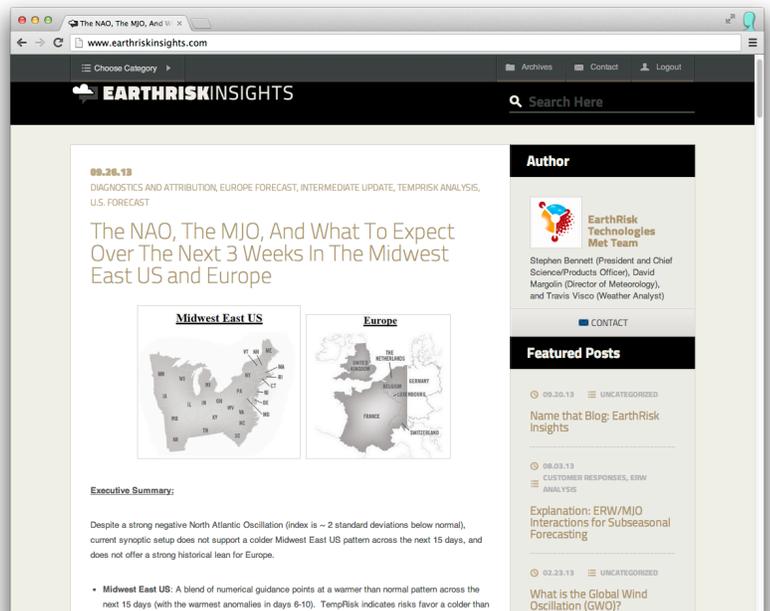
The strongest score in each anomaly category is highlighted for easy visual reference.

Click the blue arrow to expand or collapse the table view

*Formerly TempRisk Ensemble Dashboard

Additional Notes: *What else is new?*

- Path Analysis is now a stand-alone page
- Download data feature now available (CSV)
- TempRisk “Daily Summary for Preliminary Data Updates” email summaries replaced by daily “TempRisk Apollo Snapshot” email
- All TempRisk Apollo customers now have access to *EarthRisk Insights* blog for added forecast guidance and commentary
- TempRisk Ensemble Matrix removed
- Added Help Files category



Contact Us: contact@earthrisktech.com
www.earthrisktech.com

