



Welcome to our July 2022 Recap:

We are pleased to welcome you to our July 2022 month end report.

Are we witnessing the calm before the storm, or a return of some stability? Aside from a handful of commodities, the moves seem to have gotten less violent this past month. The end of this prior week was greeted with threats and counter threats over the planned visit of Speaker Pelosi to Taiwan. The upcoming week looks like it will be one of extremes. If the visit carries forward, we might see violent moves in Ags and Equity Indexes. This past week was also notable because of the Fed decision to further hike interest rates. The effects of these hikes will probably be felt in the upcoming months. The European energy debacle has gotten worse. The Europeans had been optimistic about filling up storage headed into winter, but that looks like a pipe dream as flow from Russia has dwindled. Winter in continental Europe starts earlier than in the US, so the coming months will be critical.

Foreign exchange markets were mostly muted with a couple of exceptions. The Bitcoin future rebounded from its massive slide, rising 24% with vol receding by 9.5 vol points or 12.1%. The Brazilian Real rose 2.5% with a large spike in vol. In terms of implied vol, the Yen showed a 25% increase in vol, corresponding to a 2.8 vol point increase. The Euro suffered a fall of 2.2%, with vol also spiking 10% or 0.9 vol points.

[Foreign Exchange ATM](#)

[Bitcoin Detail](#)

[Yen Detail](#)

[Euro Detail](#)

The interest rate picture got an update this week. The Fed moved to increase rates again. The Eurodollar contract fell as we would expect. The longer term treasury contracts all seemed to rally. At the money implied volatility in all the products declined.

[Interest Rates ATM](#)

Indexes were all up with the exception of the VIX. The equity markets shrugged off recession risk, increased discount rates and a potential war with China. It will be interesting to see if the momentum can carry forward to the next week. The most interesting move in the equity indexes was the way in which the SP500 volatility skew rotated down in a methodical/mechanical fashion.

[EquityIndex ATM](#)

[SP500 Detail](#)

Metals seem to be marching to a discordant beat. Copper was down slightly with vol also coming off. Gold showed a tumble in price and vol perhaps reflecting a tightening bias that might actually accomplish something. Silver was up 2.7% with vol coming off. Finally, Palladium showed a strong rally. The vol market for palladium has evaporated. This might, itself, be the most important bit of information.

[Metals ATM](#)

Lumber's bounce from last month has been short lived. The rates coupled with recession fears caused futures to tumble 21% and vols to spike 8%. Hog prices and vol spiked 10% and 12.2%, respectively. Soybeans were down slightly, but the vol of the whole complex was higher. Wheat's price fell and vol increased. Oats tumbled significantly with its vol spiking.

[Ags ATM](#)

[Lumber Detail](#)

[Ags Details](#)

As we hinted, Natural Gas gets the award for most volatile and violent, both domestically and in Europe. The TTF contract at the CME exhibited a 29% increase in the futures price. Vol was unchanged, but at the nosebleed levels we see, that isn't surprising. This is coming on the backdrop of an extreme move last month. In the US, the Natty Gas complex rallied about 2.5 dollars which was a 43% change. Vol was massively bid up but off of intra month highs. The skew of the product diminished with call skew evaporating. WTI and Brent both fell for the month, by 7% and 9%, respectively. Diesel and Refined also declined. Vol moves were not enormous, coming off for most of the product.

[Energy ATM](#)

[US Natty Gas Detail](#)

[Details Energy](#)

As always we welcome you to visit our website and hope to help you manage risk!

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At The Money Roundup of Products

Energy

exch/prod	desc	futures chng [%]	vol chng [%]
NYMEX/BZO	Brent Crude Oil Margin	-7.660 [-6.9%]	-0.039 [-8.3%]
NYMEX/BE	Brent Euro Style	-7.660 [-6.9%]	-0.028 [-6.0%]
NYMEX/CVR	Chicago Ethanol(platts) Average Price	+0.080 [+3.1%]	+0.041 [+22.2%]
NYMEX/LO	Crude Oil	-9.810 [-9.0%]	-0.045 [-9.3%]
NYMEX/TFO	Dutch TTF Natural Gas	+43.131 [+29.2%]	-0.029 [-1.7%]
NYMEX/LN	European Natural Gas	+2.499 [+43.6%]	+0.193 [+28.8%]
NYMEX/E7	Henry Hub Financial Last Day	+2.499 [+43.6%]	+0.189 [+27.9%]
NYMEX/ON	Natural Gas	+2.499 [+43.6%]	+0.192 [+28.7%]
NYMEX/OH	NY Harbor ULSD	-0.390 [-9.9%]	-0.006 [-1.2%]
NYMEX/OB	RBOB	-0.575 [-15.6%]	-0.049 [-8.7%]

exch/prod	desc	futures chng [%]	vol chng [%]
CME/DK	Class IV Milk	+0.130 [+0.5%]	-0.053 [-59.2%]
CBT/C	Corn	-0.035 [-0.6%]	-0.004 [-0.9%]
CME/62	Feeder Cattle	+4.075 [+2.3%]	-0.028 [-17.6%]
CBT/KW	KC HRW Wheat	-0.390 [-4.3%]	+0.025 [+5.9%]
CME/LN	Lean Hog	+11.050 [+10.1%]	+0.015 [+12.2%]
CME/48	Live Cattle	+1.850 [+1.4%]	-0.030 [-22.4%]
CME/LB	Lumber110	-142.600 [-21.3%]	+0.052 [+8.8%]
CME/NF	Nonfat Dry Milk	+1.050 [+0.6%]	-0.015 [-35.7%]
CBT/O	Oats	-0.570 [-11.3%]	+0.032 [+6.2%]
CBT/14	Rough Rice	+0.465 [+2.8%]	+0.030 [+22.6%]
CBT/S	Soybean	-0.225 [-1.5%]	+0.063 [+23.0%]
CBT/06	Soybean Meal	+20.300 [+4.8%]	+0.052 [+17.2%]
CBT/07	Soybean Oil	+2.070 [+3.2%]	+0.084 [+24.0%]
CBT/W	Wheat	-0.383 [-4.5%]	+0.026 [+5.8%]

EquityIndex

exch/prod	desc	futures chng [%]	vol chng [%]
CBT/YM	E-Mini Dow	+1764.000 [+5.7%]	-0.052 [-24.1%]
CME/NQ	E-Mini Nasdaq	+1360.250 [+11.7%]	-0.061 [-19.7%]
CME/RTO	E-Mini Russell 2000	+156.800 [+9.1%]	-0.052 [-17.8%]
CME/RTM	E-Mini Russell EOM	+156.800 [+9.1%]	-0.061 [-20.3%]
CME/ES	E-Mini S&P 500	+306.250 [+8.0%]	-0.051 [-20.8%]
CBOE/VIX	VIX Volatility Index	-5.370 [-20.1%]	-0.156 [-19.6%]

Metals

exch/prod	desc	futures chng [%]	vol chng [%]
COMEX/HX	Copper	-0.030 [-0.8%]	-0.024 [-7.5%]
COMEX/OG	Gold	-30.000 [-1.7%]	-0.017 [-10.8%]
NYMEX/PAO	Palladium	+191.600 [+9.9%]	+0.001 [+0.1%]
NYMEX/PO	Platinum	+18.500 [+2.1%]	-0.005 [-1.6%]
COMEX/SO	Silver	+0.530 [+2.7%]	-0.033 [-10.9%]

InterestRates

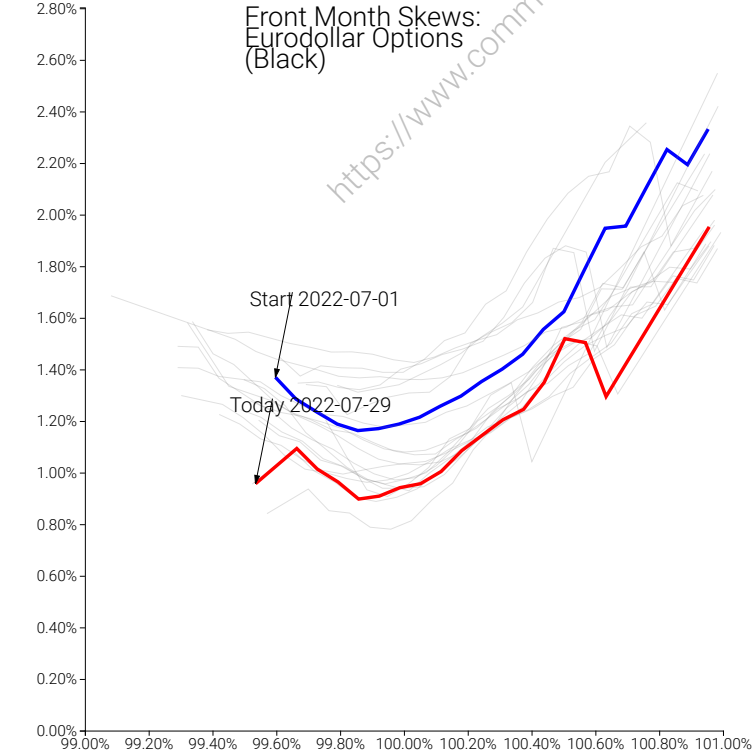
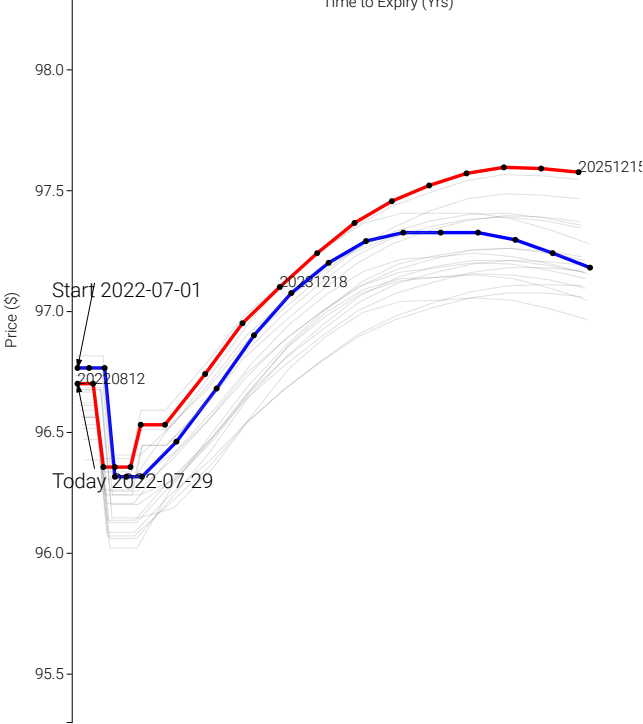
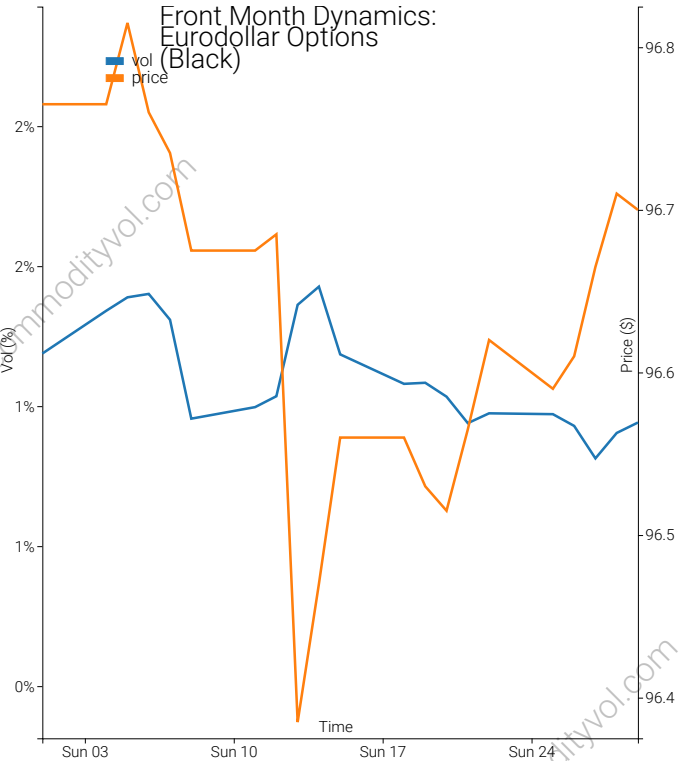
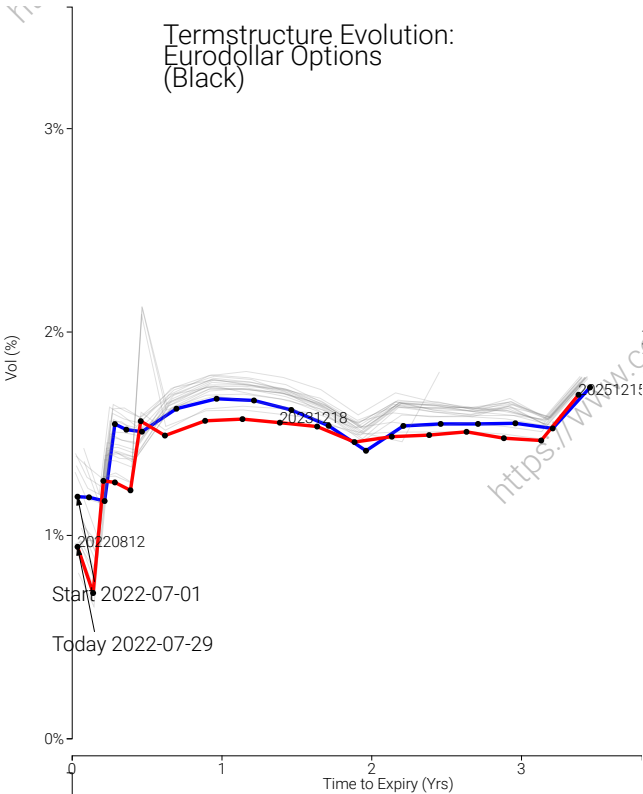
exch/prod	desc	futures chng [%]	vol chng [%]
CBT/26	2 YR US Treasury Note	+0.043 [+0.0%]	-0.007 [-23.9%]
CBT/25	5 YR US Treasury Note	+0.891 [+0.8%]	-0.016 [-23.1%]
CBT/21	10 YR US Treasury Note	+1.875 [+1.6%]	-0.021 [-22.1%]
CBT/17	30 YR US Treasury Bond	+4.656 [+3.3%]	-0.021 [-14.1%]
CME/ED	Eurodollar	-0.065 [-0.1%]	-0.002 [-20.7%]
CBT/UBE	Long Term US Treasury Bond	+4.313 [+2.8%]	-0.036 [-17.4%]

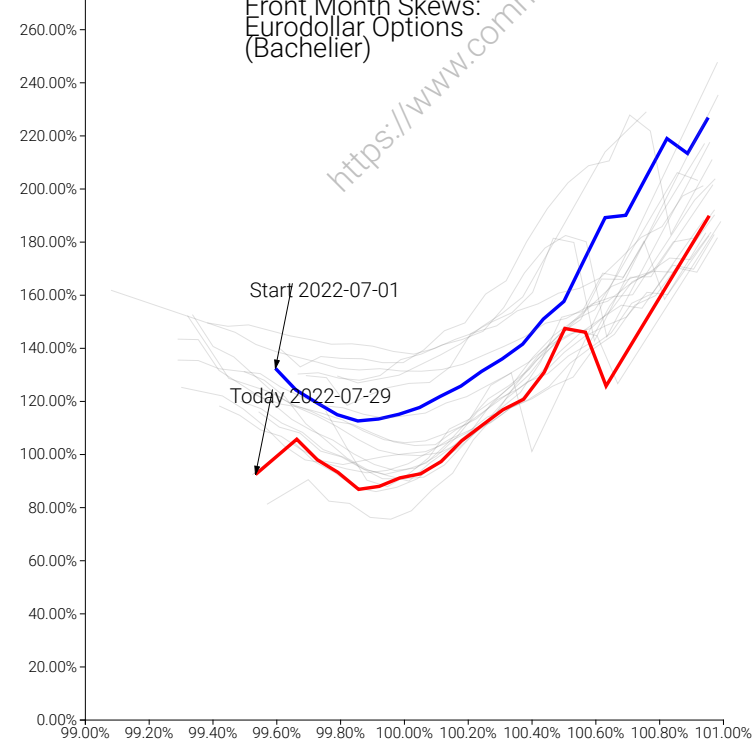
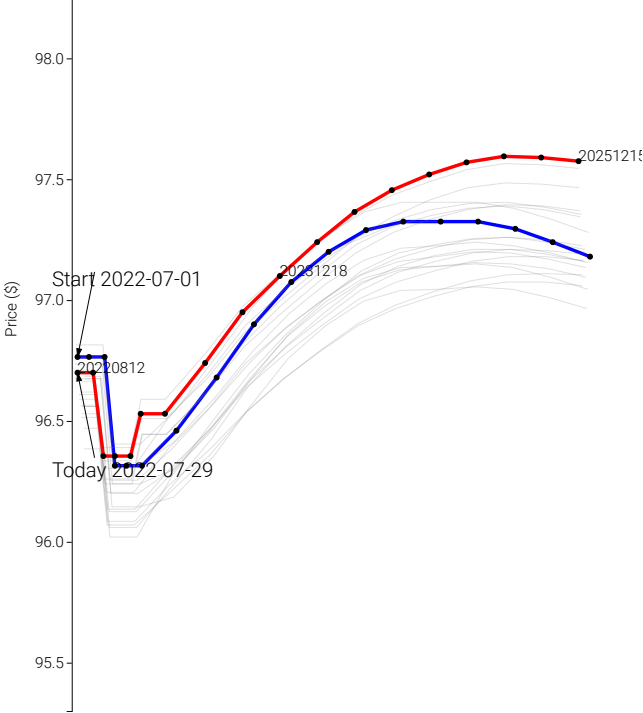
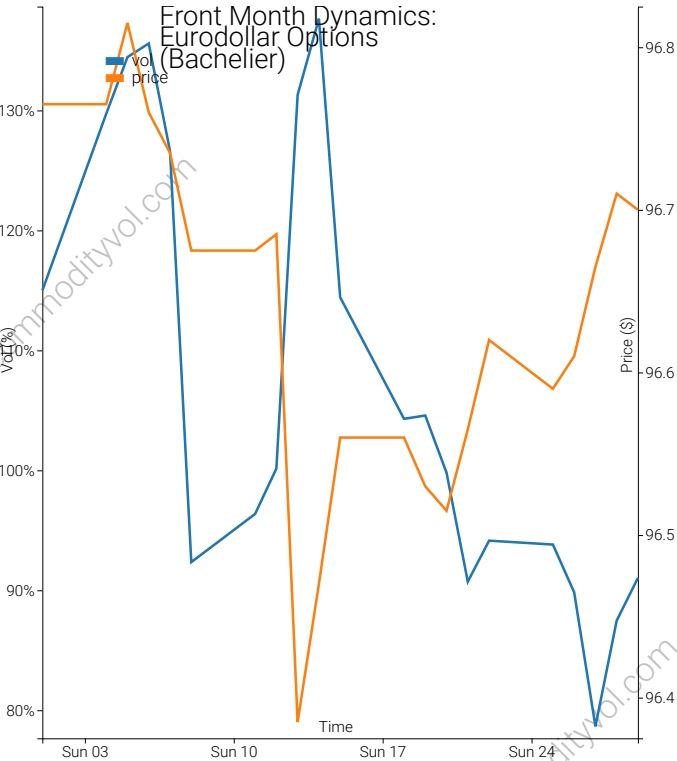
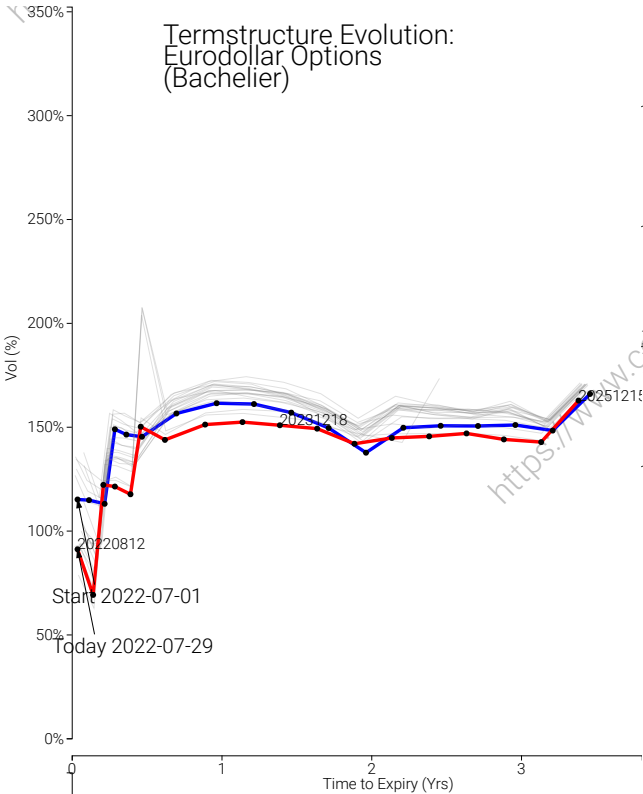
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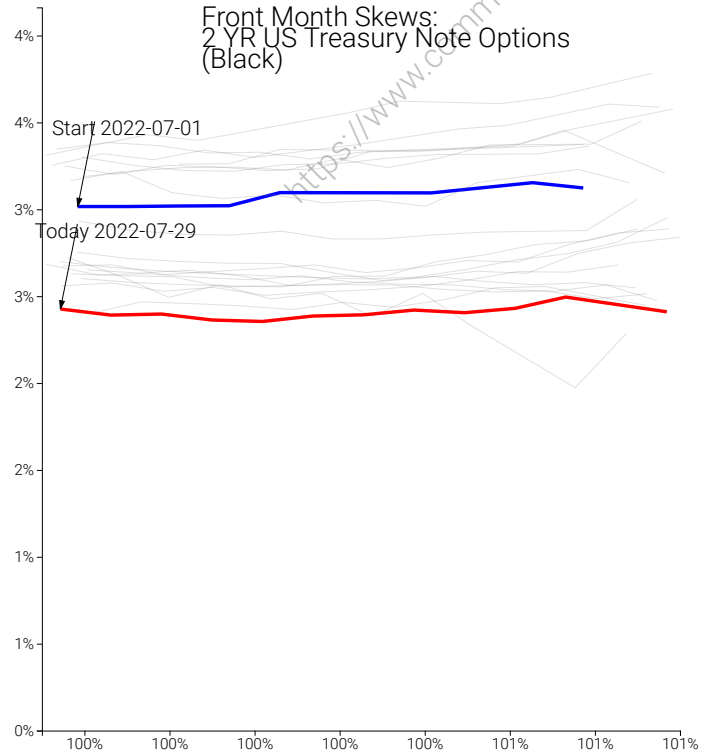
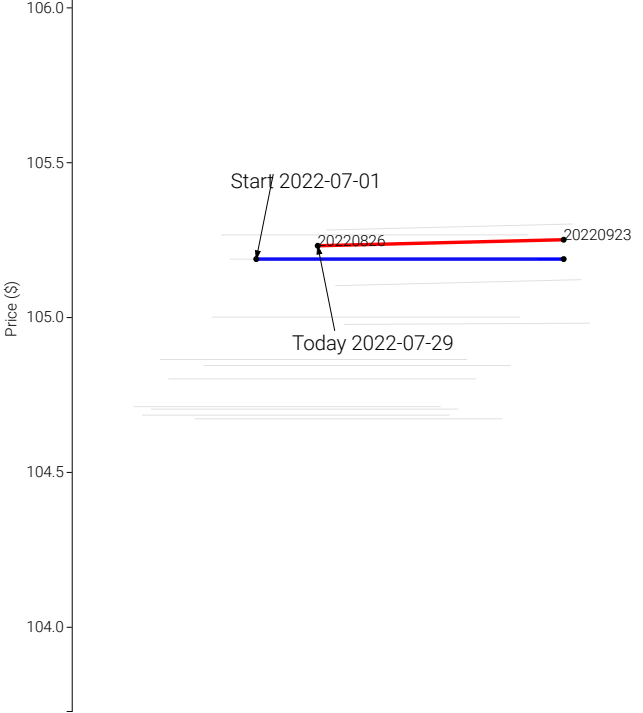
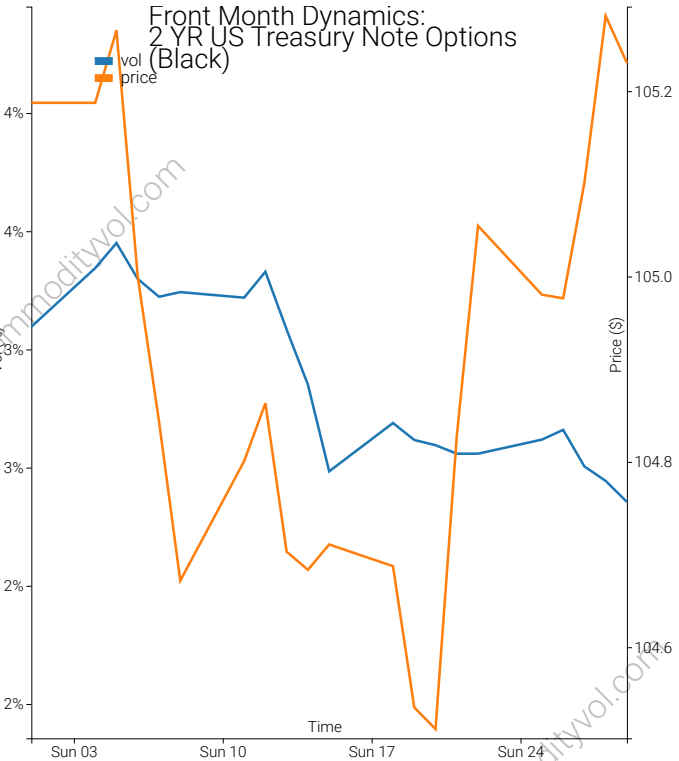
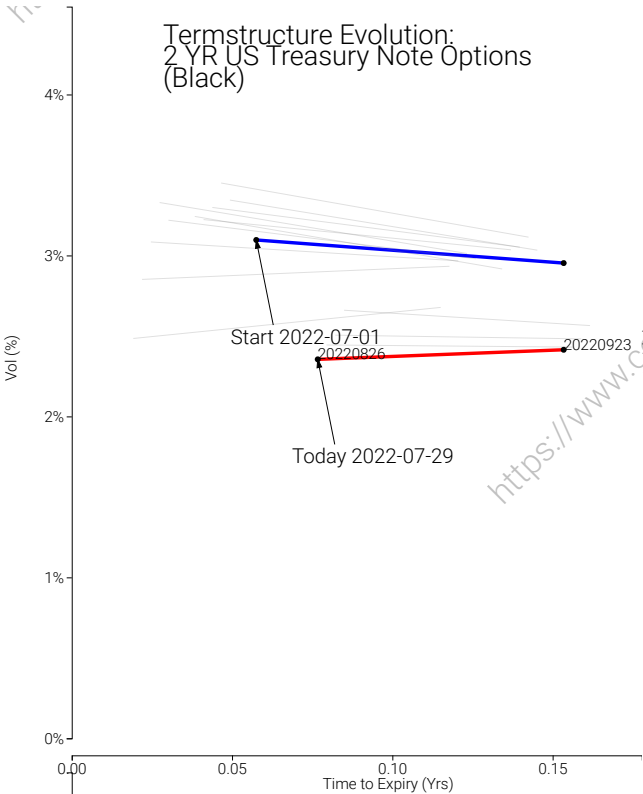
exch/prod	desc	futures chng [%]	vol chng [%]
CME/ADU	AUDUSD 2pmfix	+0.018 [+2.6%]	-0.008 [-6.5%]
CME/BTC	Bitcoin	+4675.000 [+24.2%]	-0.095 [-12.1%]
CME/BR	BRLUSD Monthly	+0.005 [+2.5%]	+0.014 [+7.5%]
CME/CAU	CADUSD 2pmfix	+0.004 [+0.6%]	+0.003 [+3.6%]
CME/CHU	CHFUSD 2pmfix	+0.007 [+0.7%]	-0.003 [-3.5%]
CME/EUU	EURUSD 2pmfix	-0.023 [-2.2%]	+0.009 [+10.3%]
CME/GBU	GBPUSD 2pmfix	+0.008 [+0.6%]	-0.002 [-2.0%]
CME/JPU	JPYUSD 2pmfix	+0.000 [+1.3%]	+0.028 [+25.0%]
CME/MP	Mexican Peso	-0.000 [-0.1%]	+0.000 [+0.0%]
CME/NE	New Zealand	+0.009 [+1.4%]	+0.009 [+7.1%]

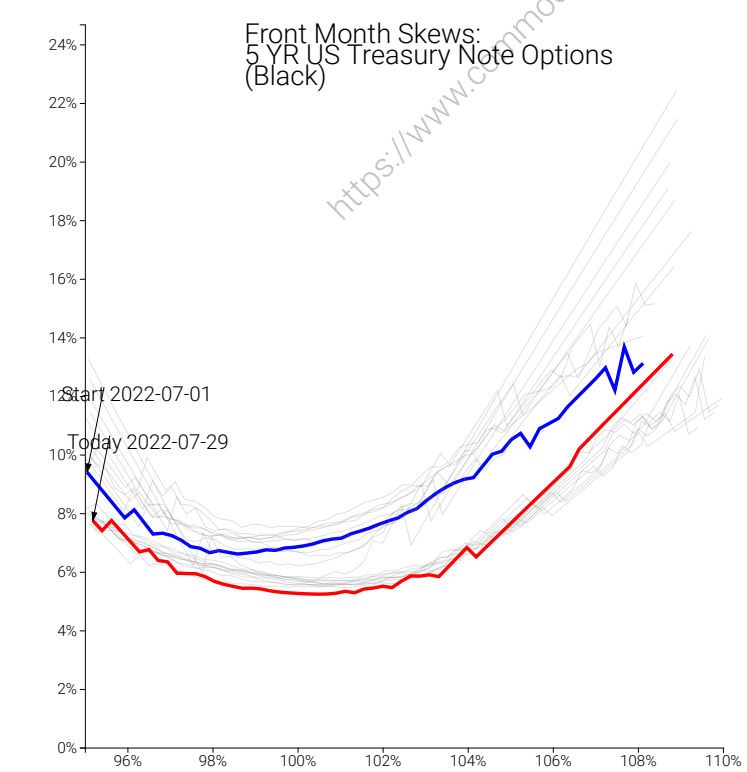
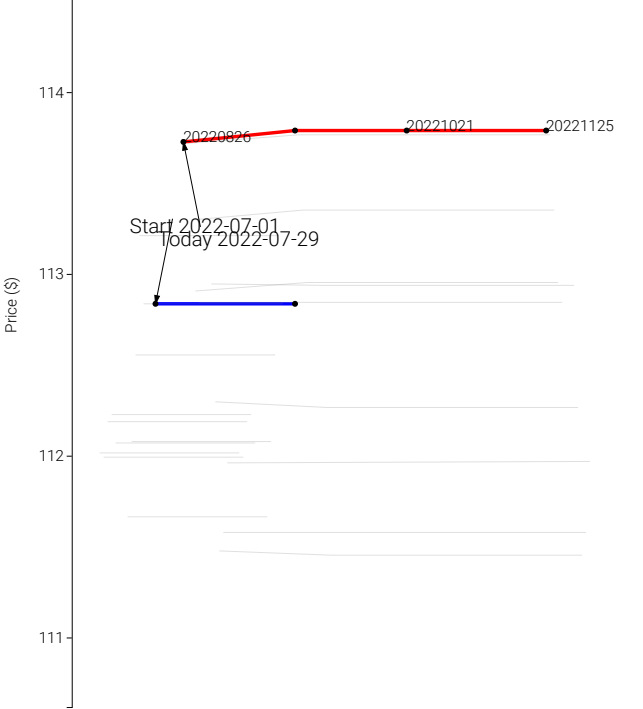
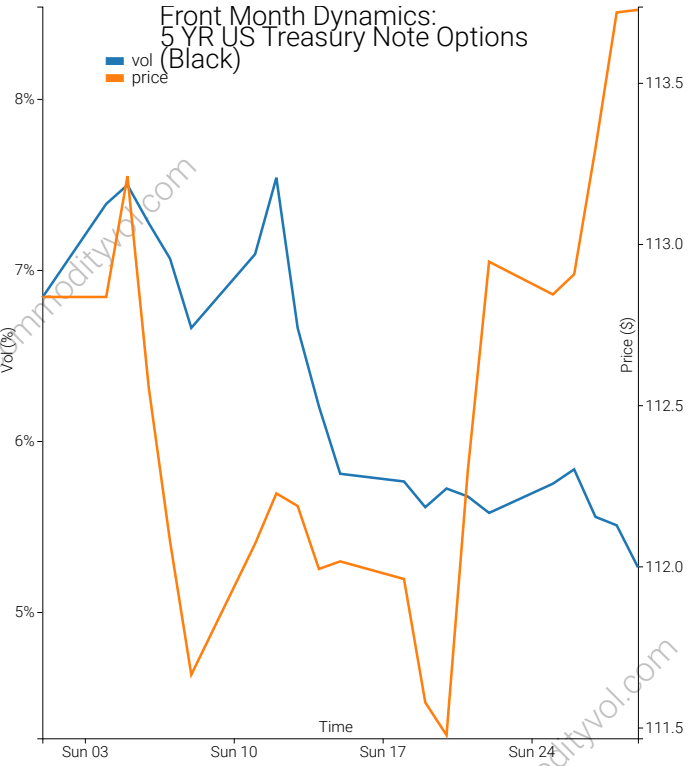
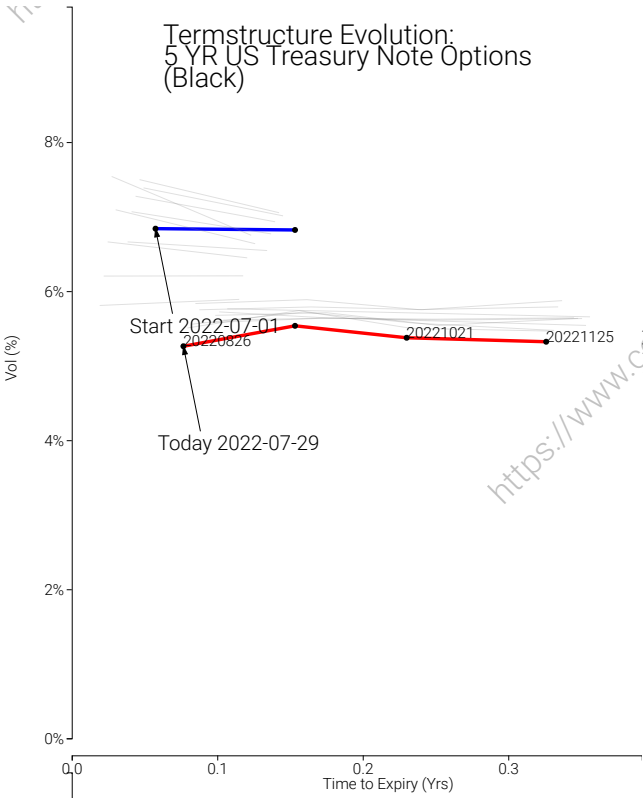
Skews, Termstructures and more

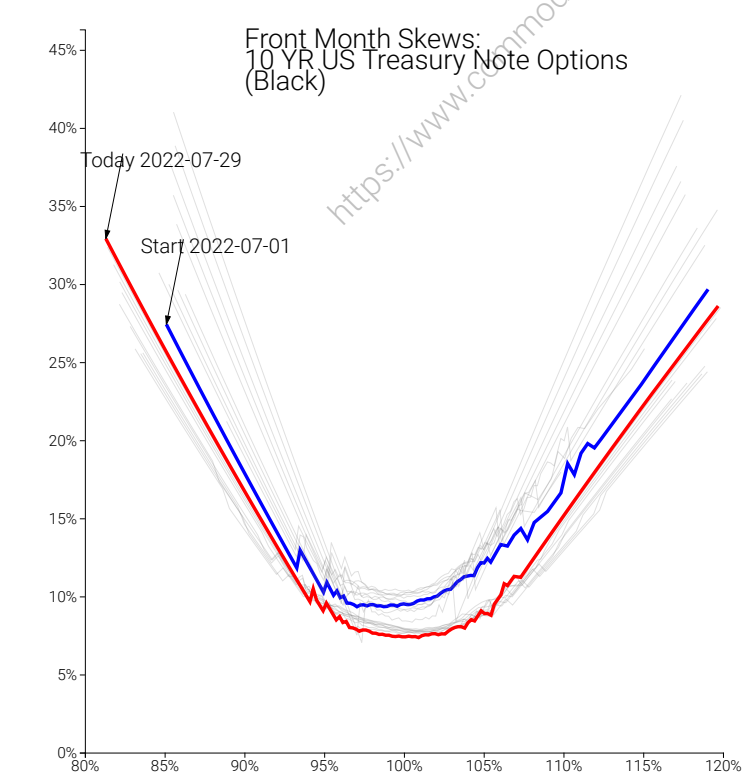
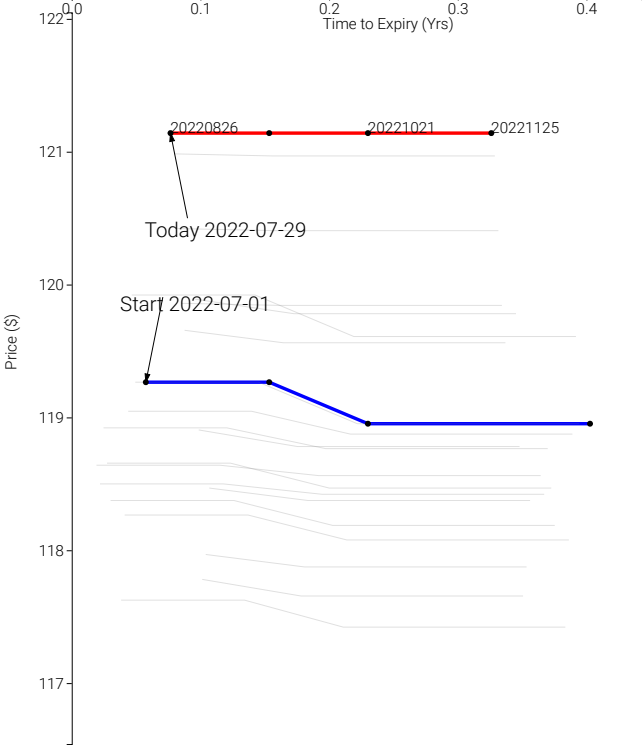
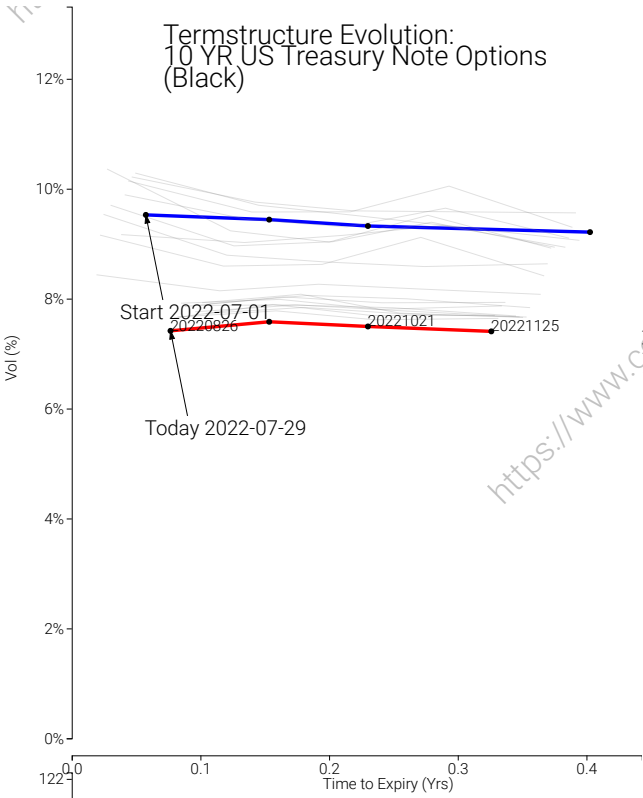
InterestRates: Fixed Income and STIRS

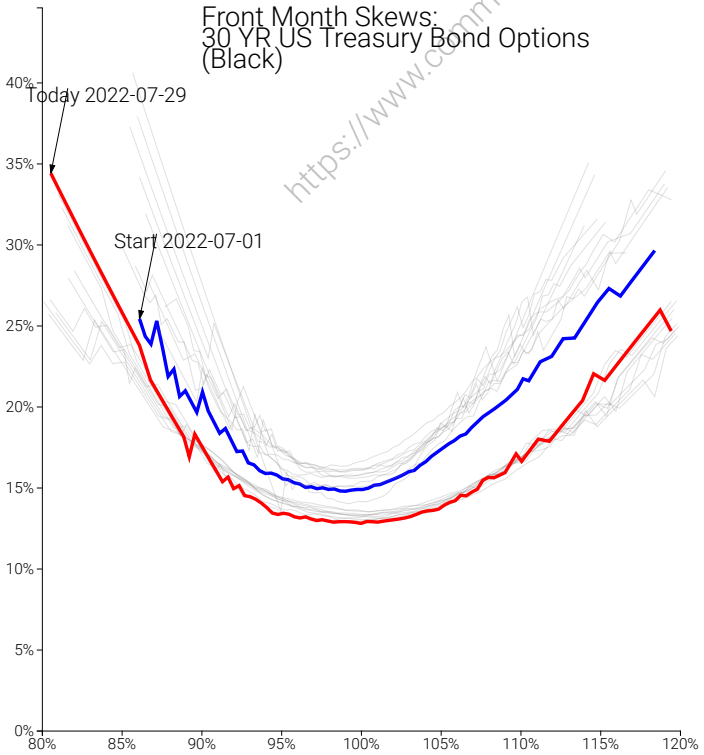
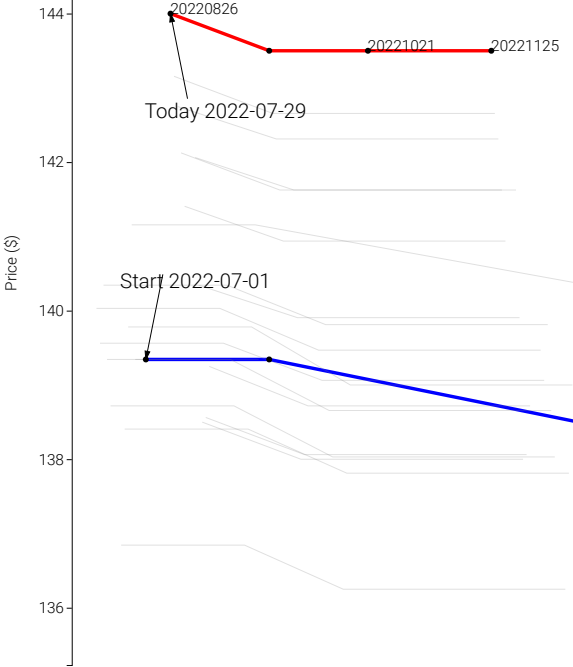
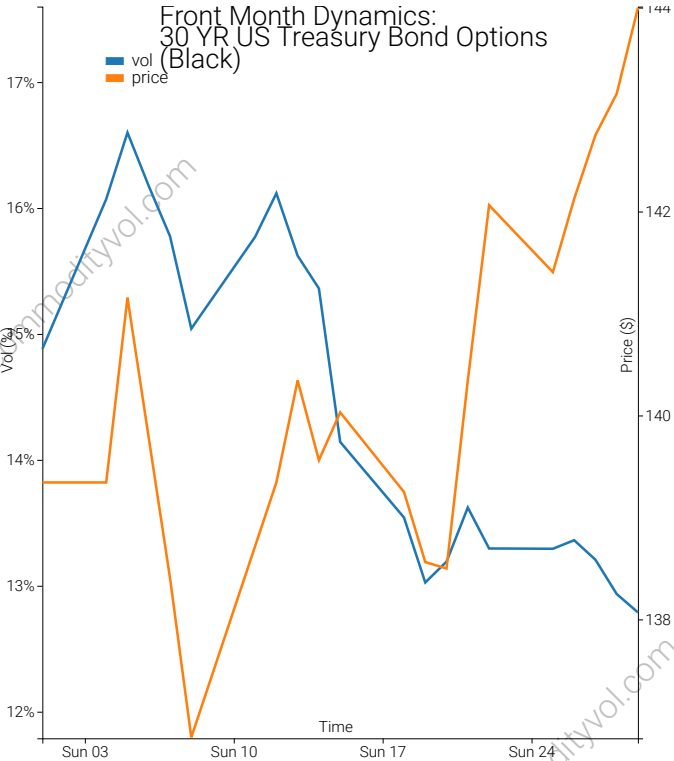
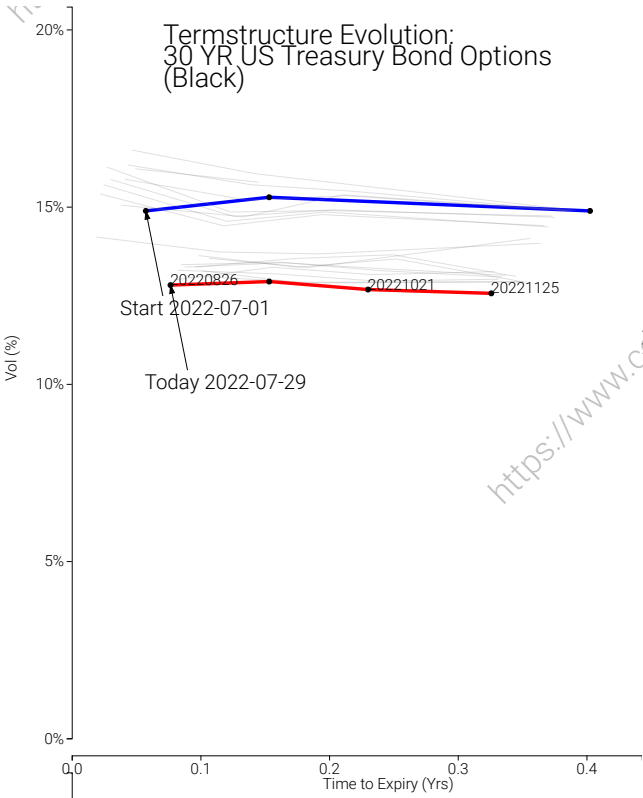


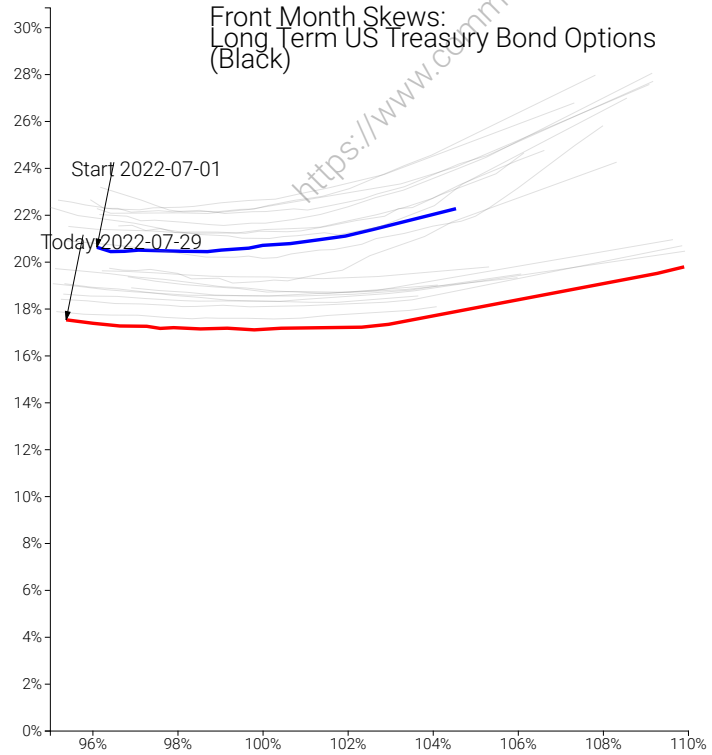
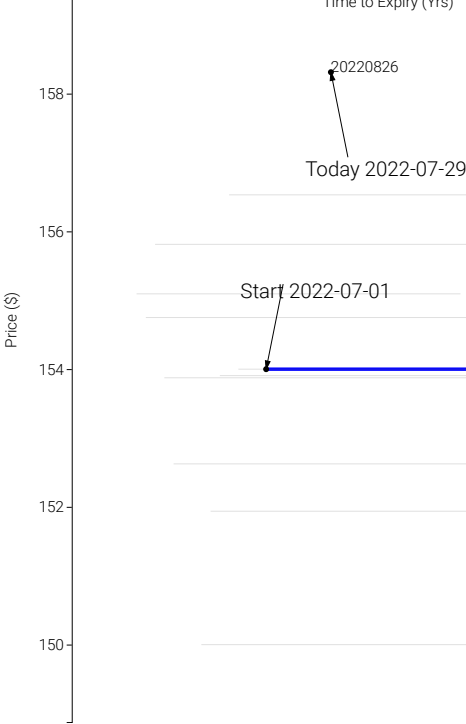
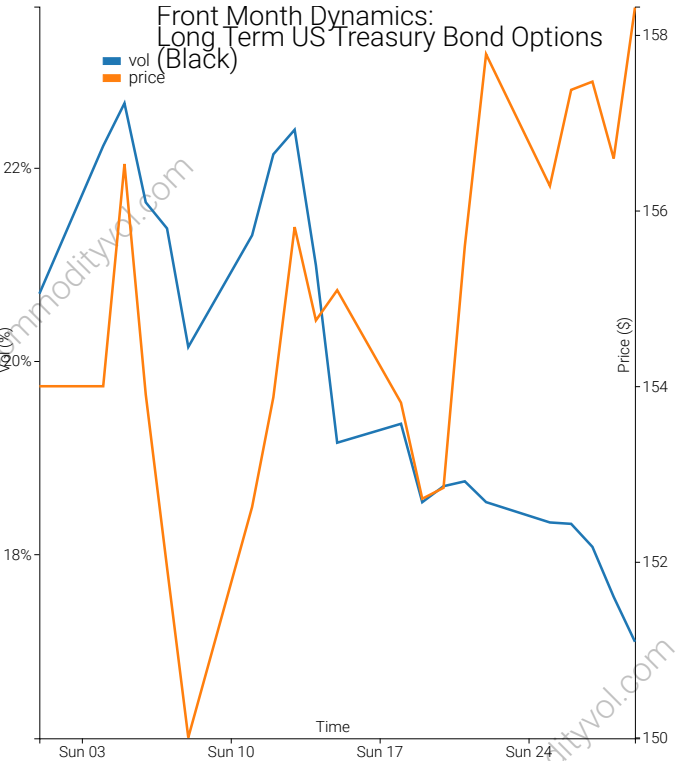
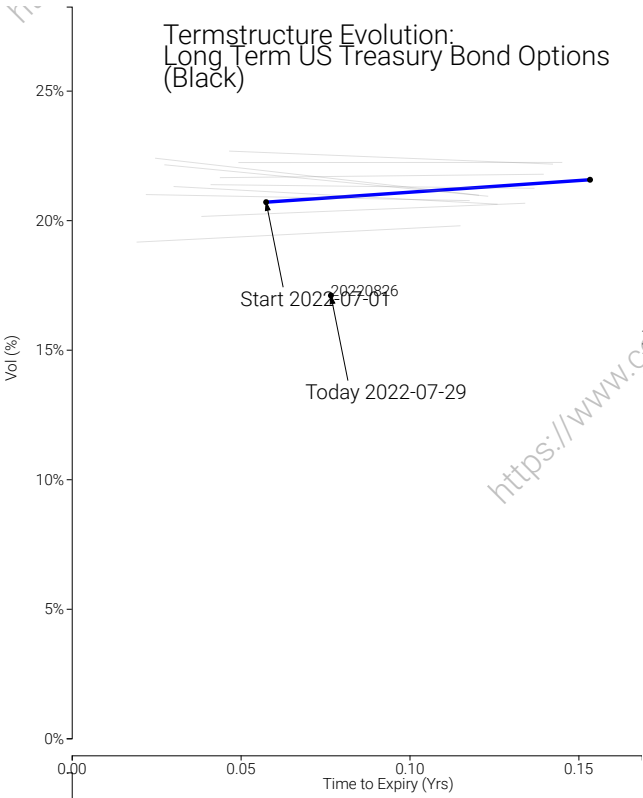




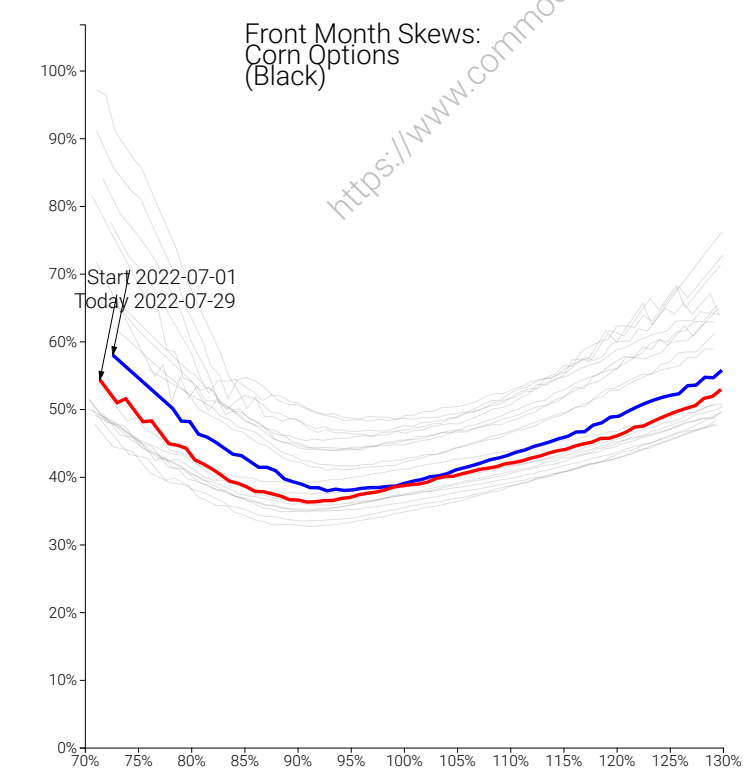
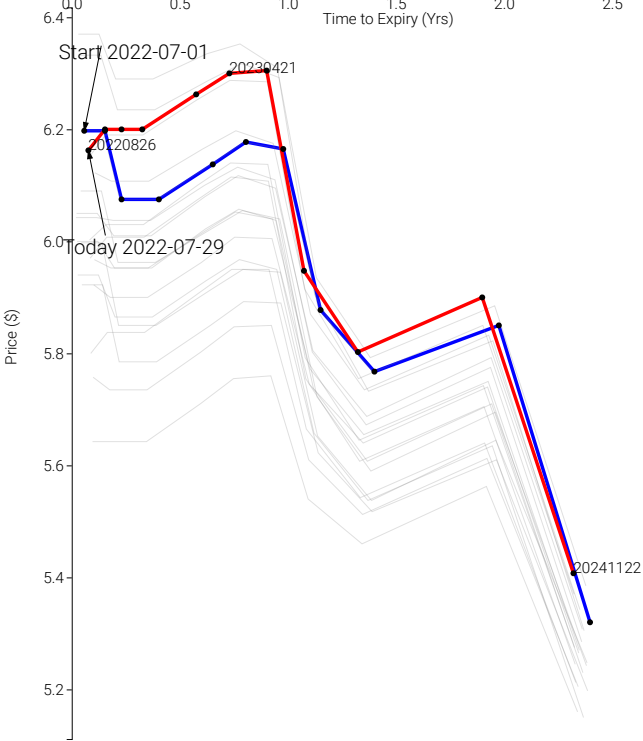
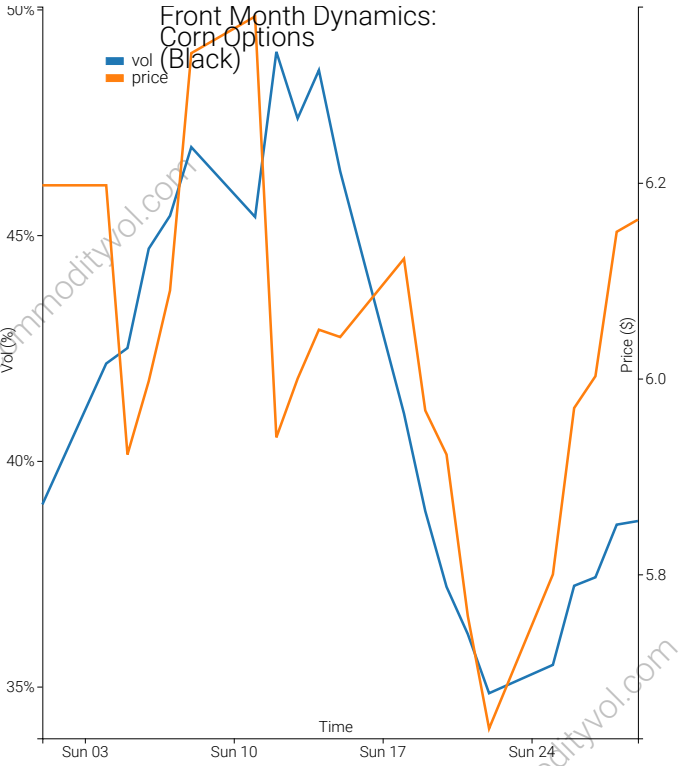
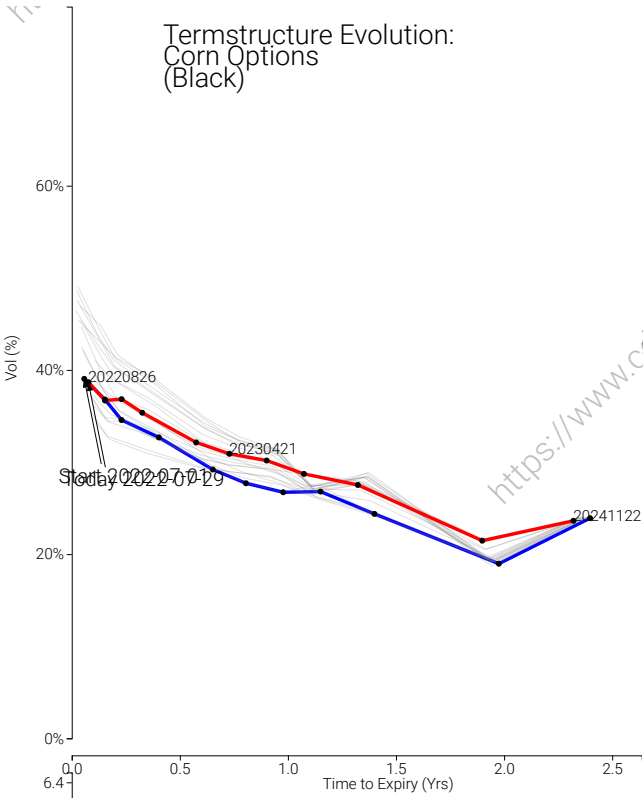


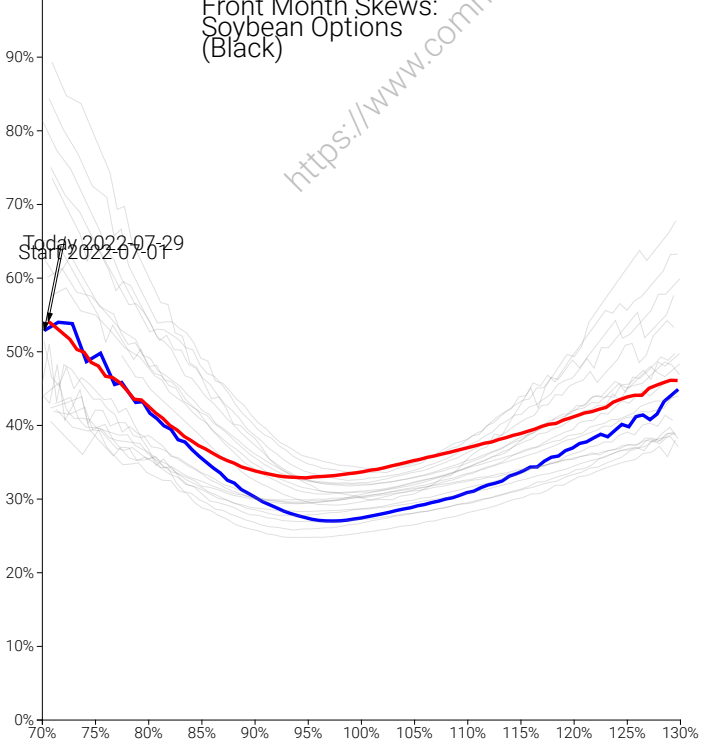
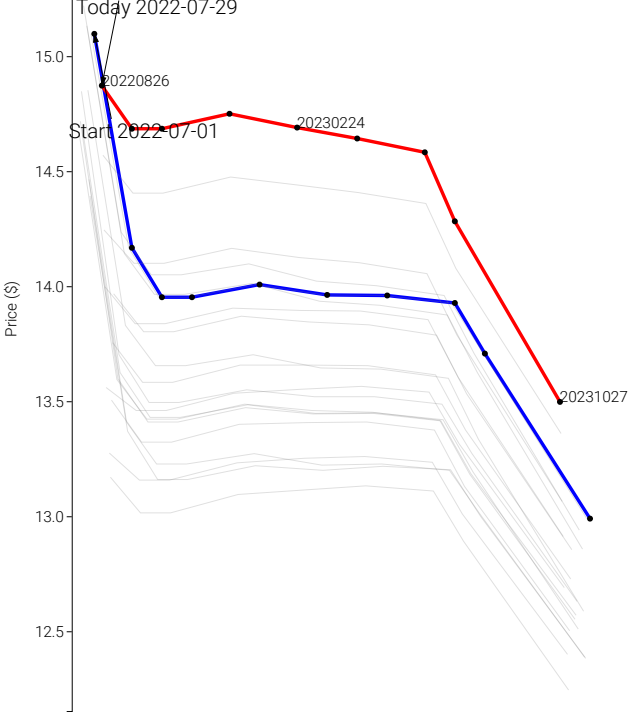
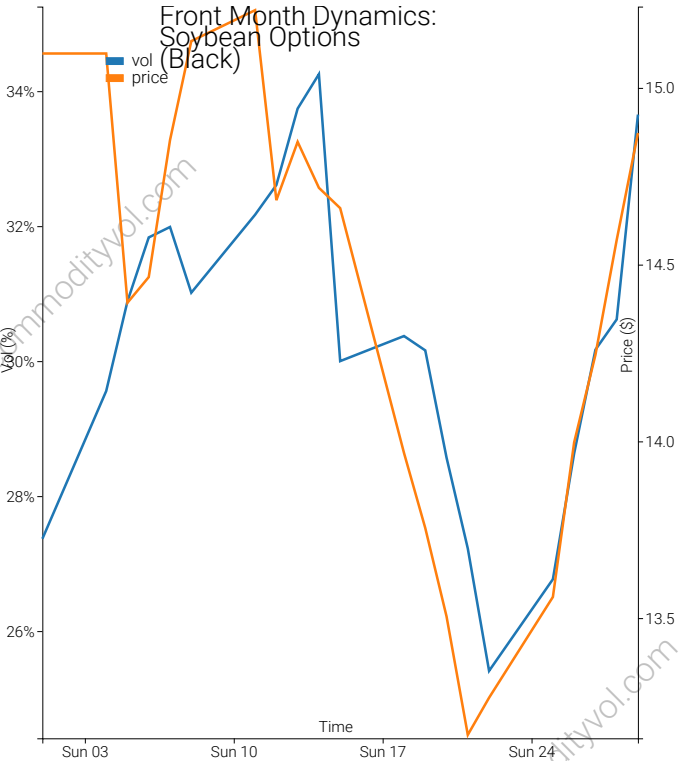
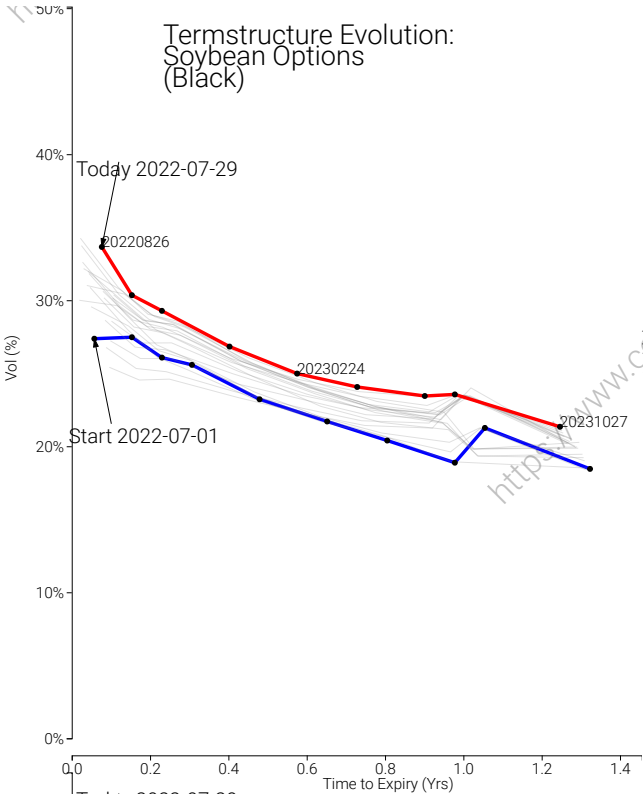


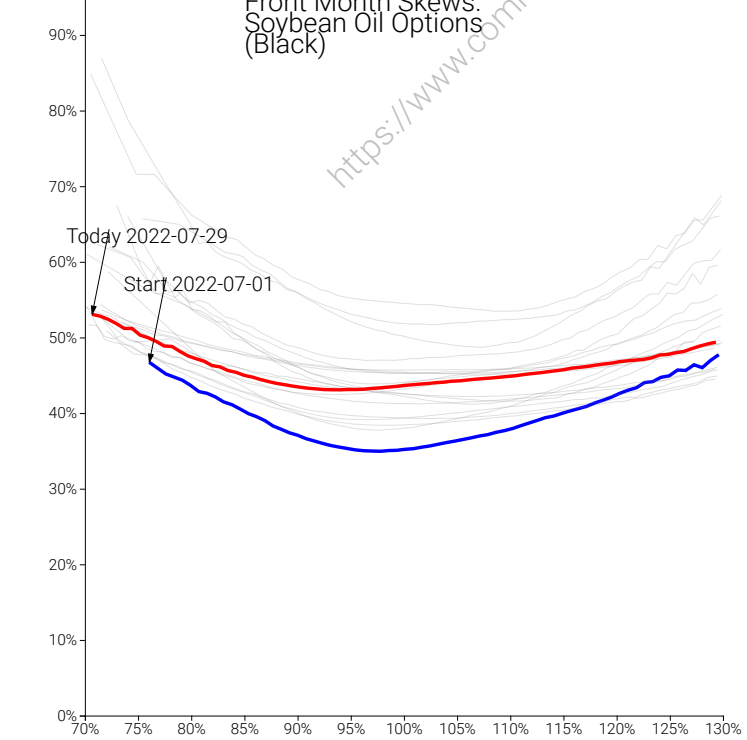
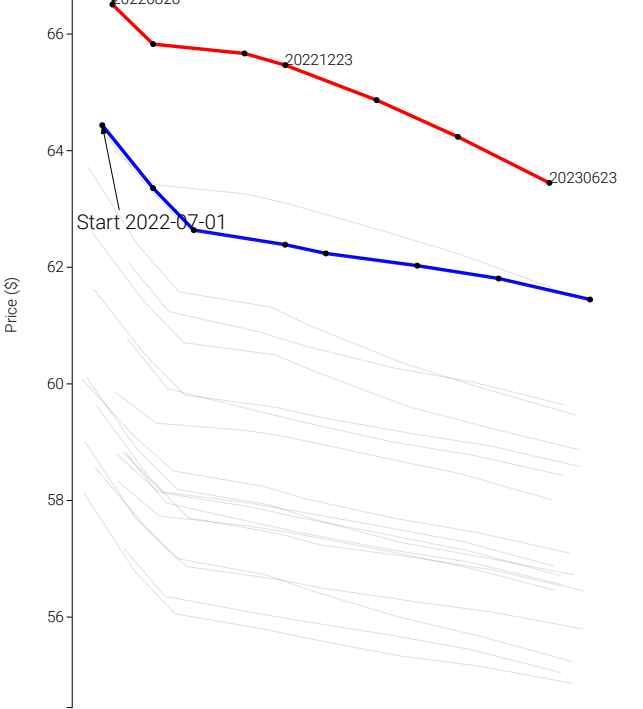
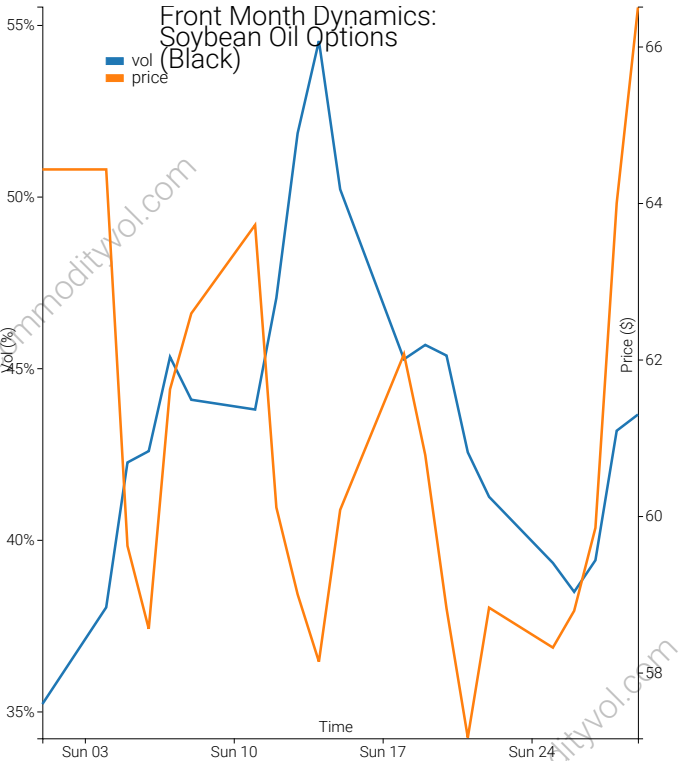
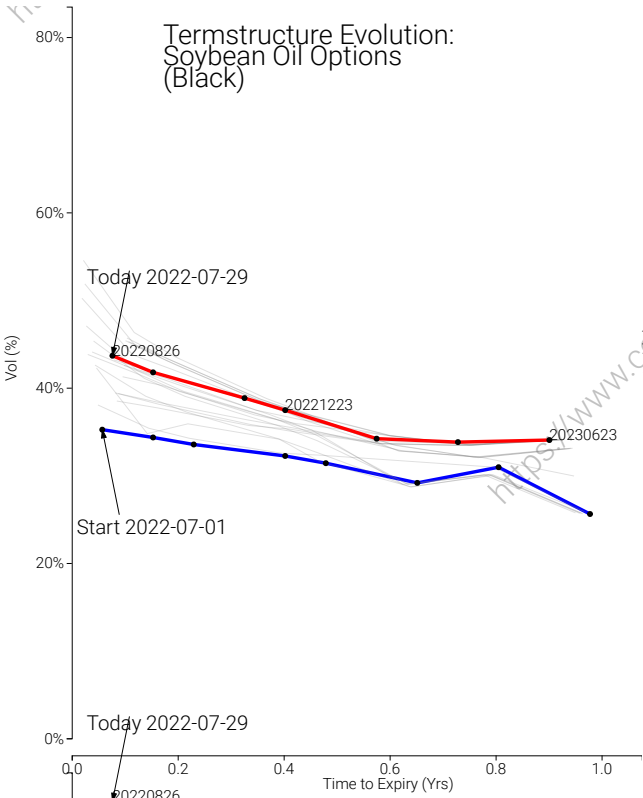


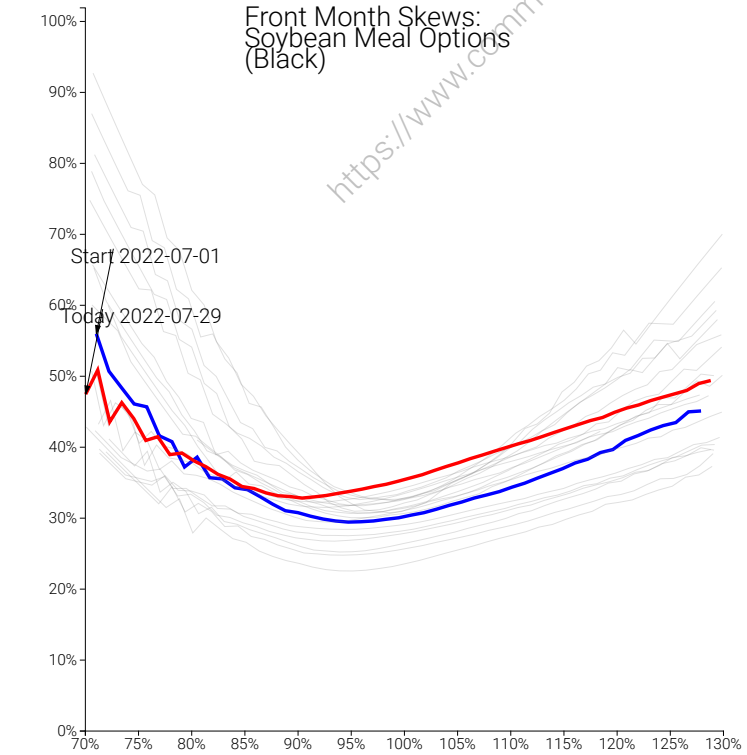
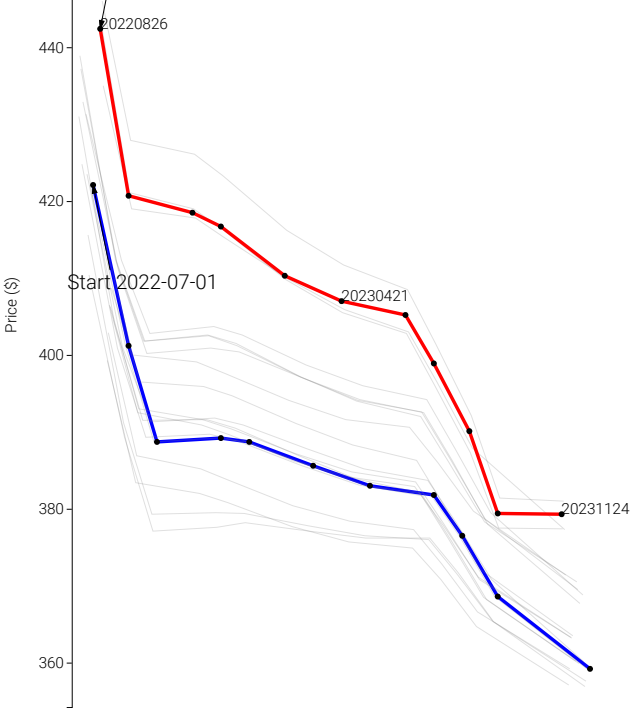
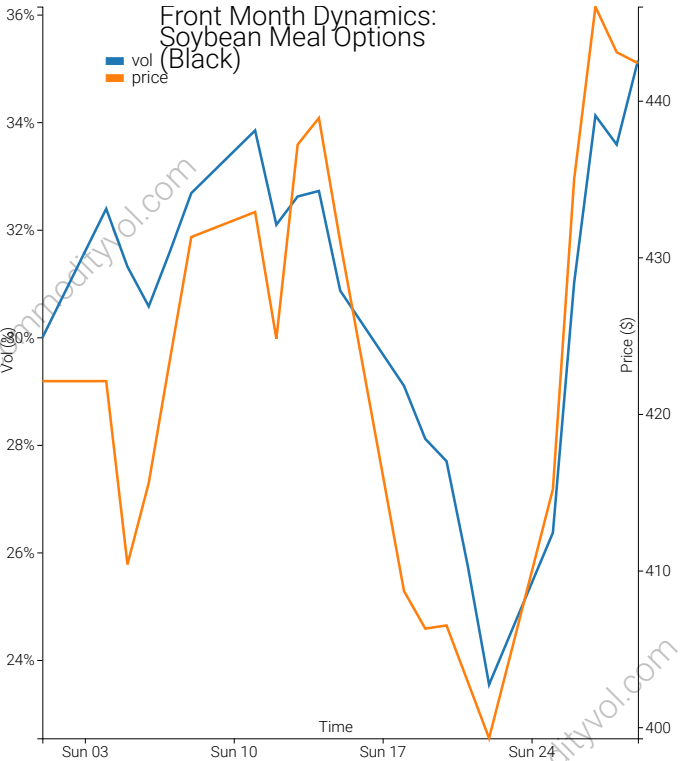
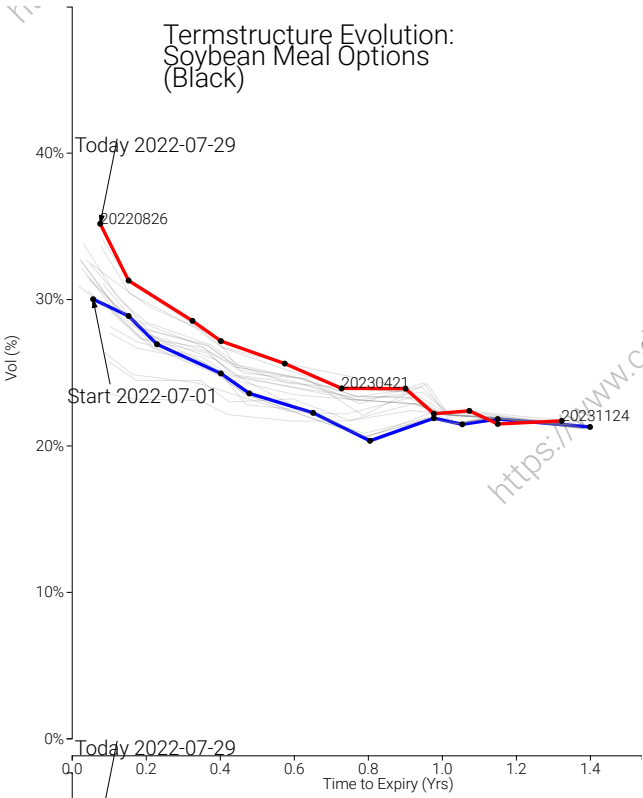


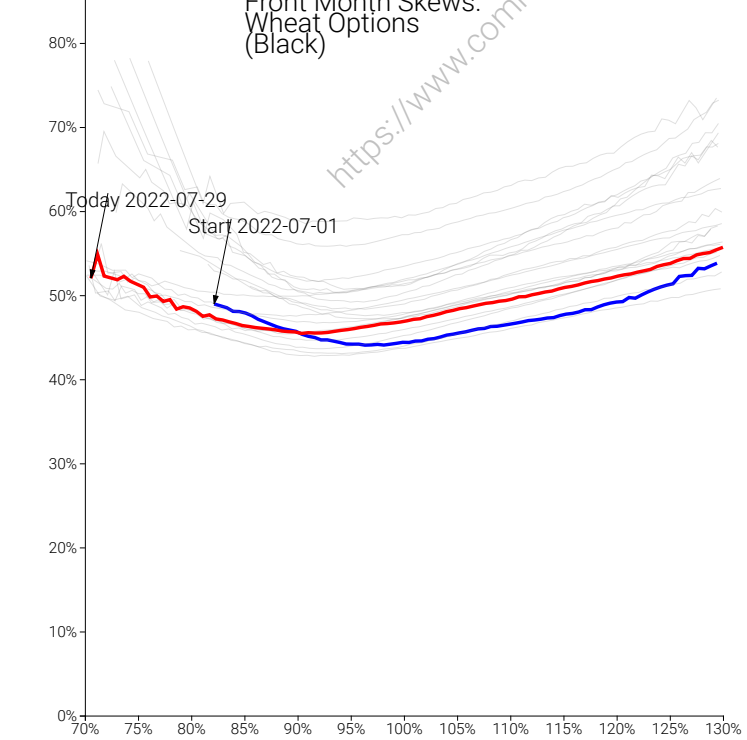
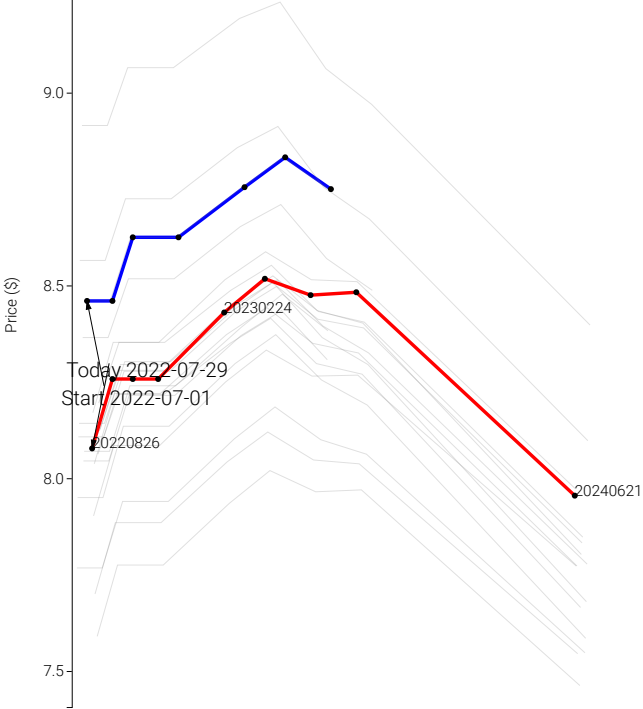
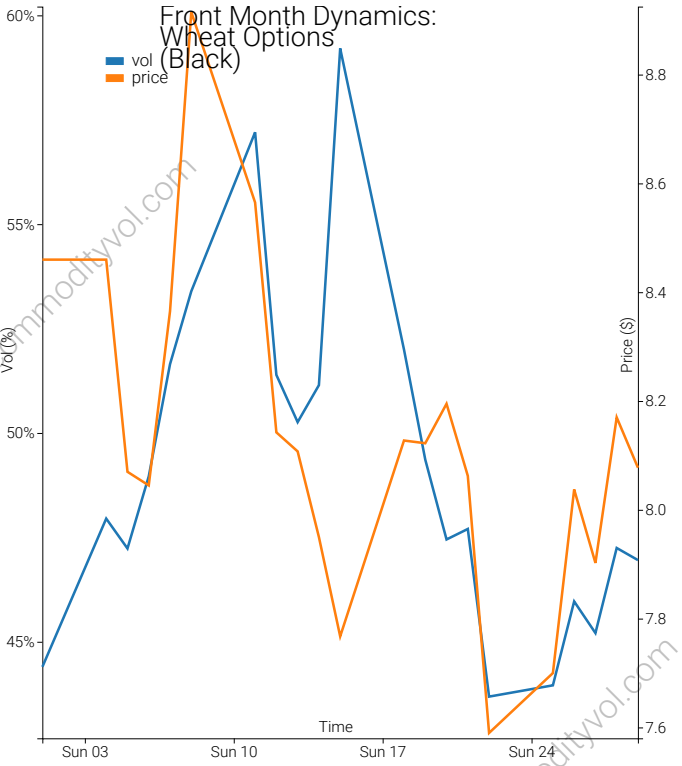
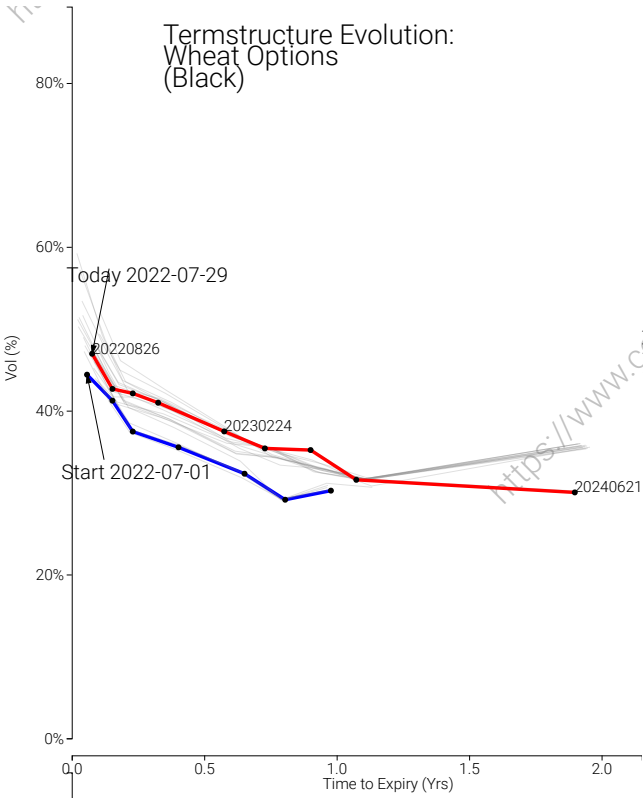
Ags: Grains, Oilseeds, and so forth

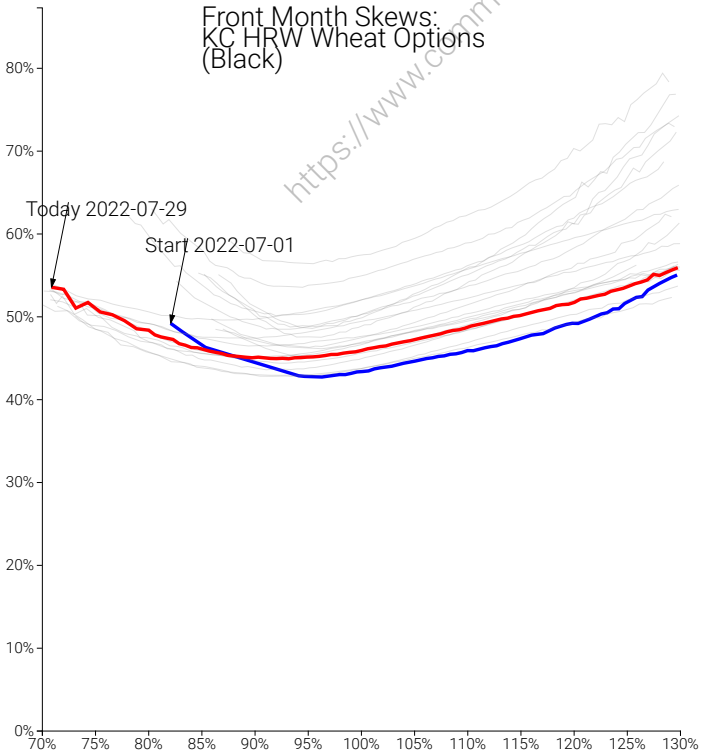
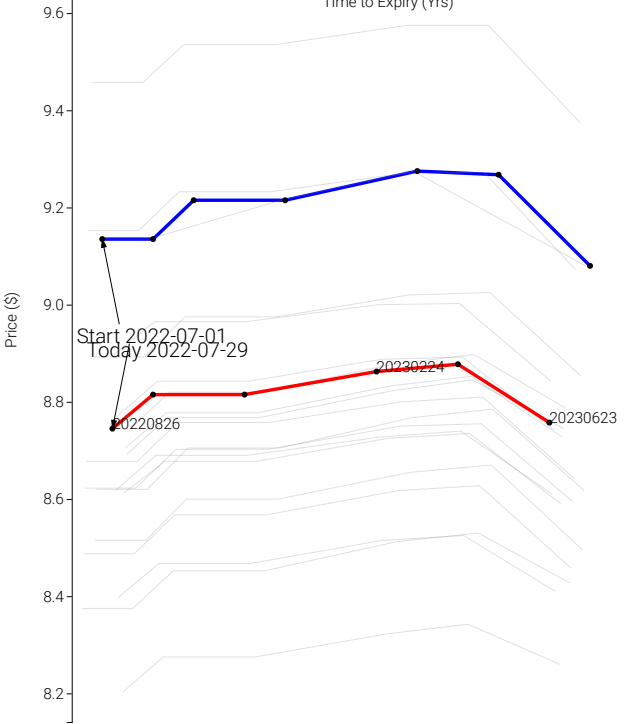
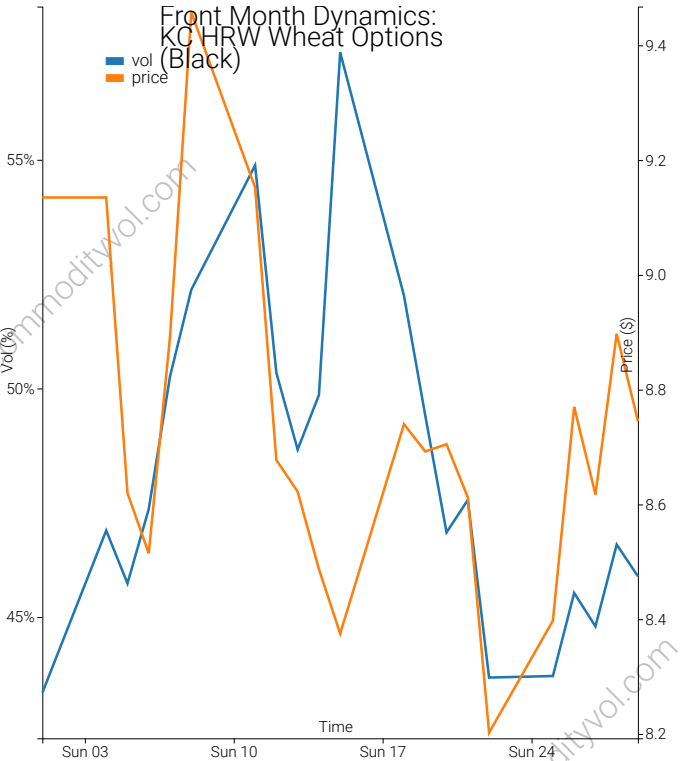
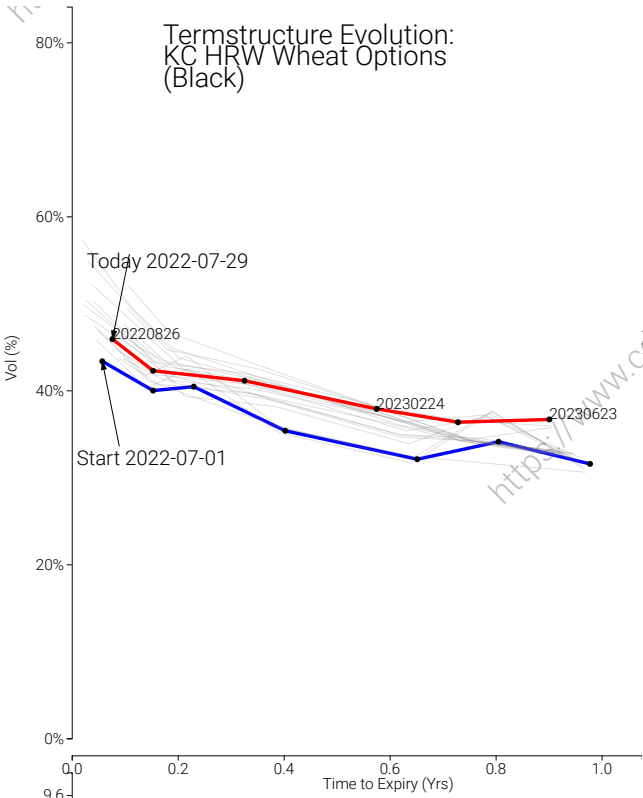


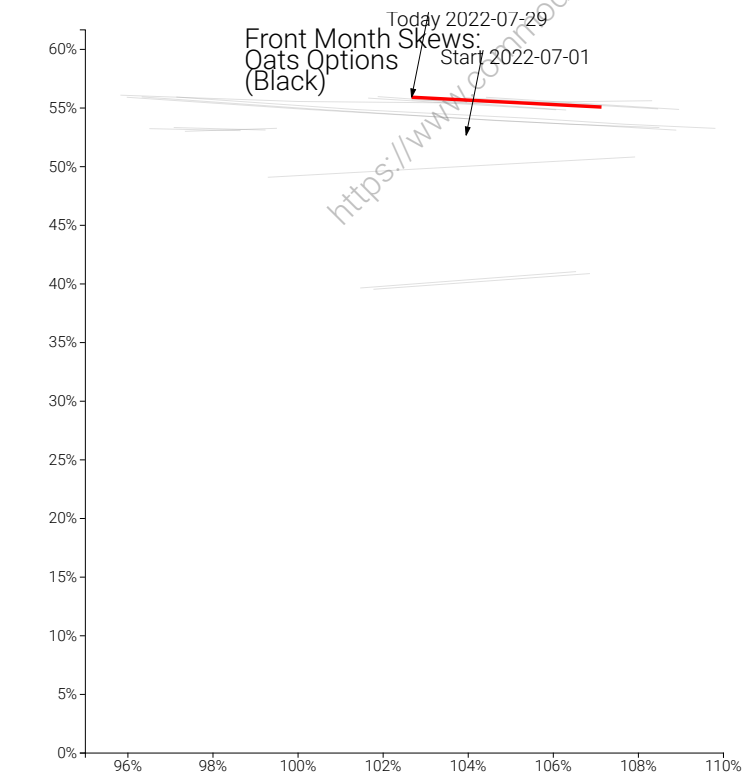
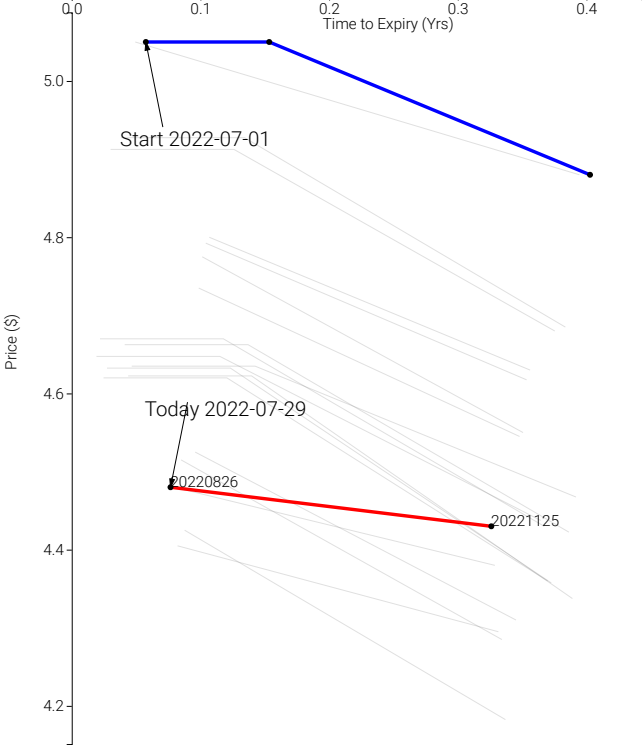
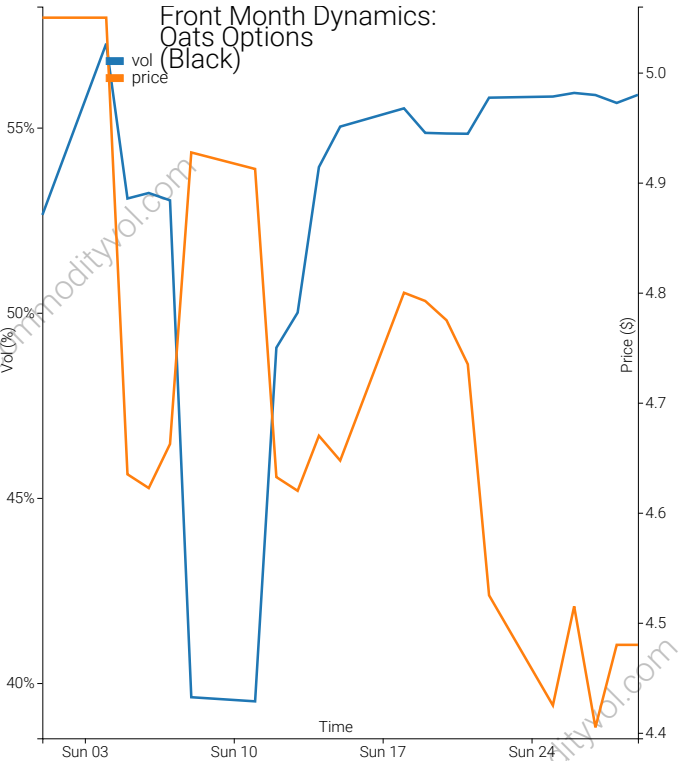
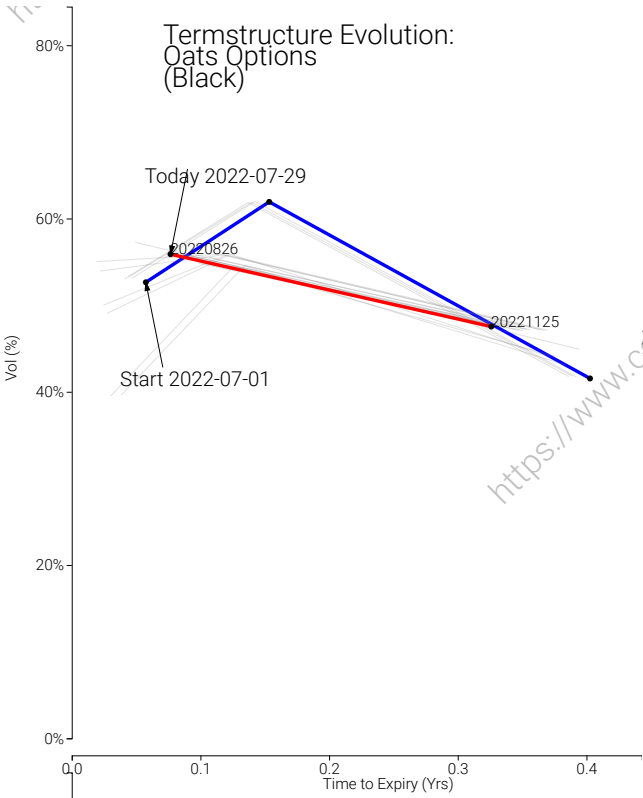


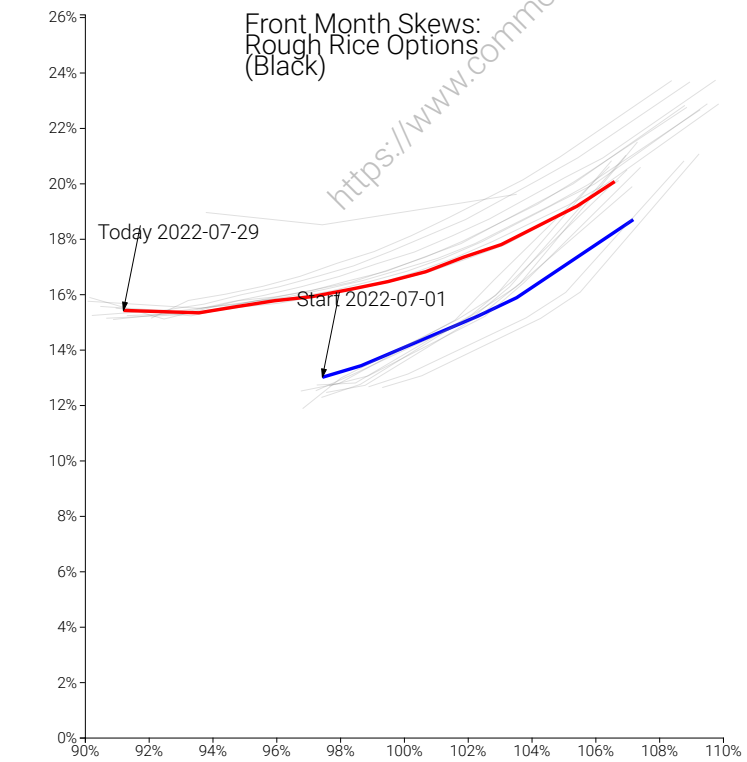
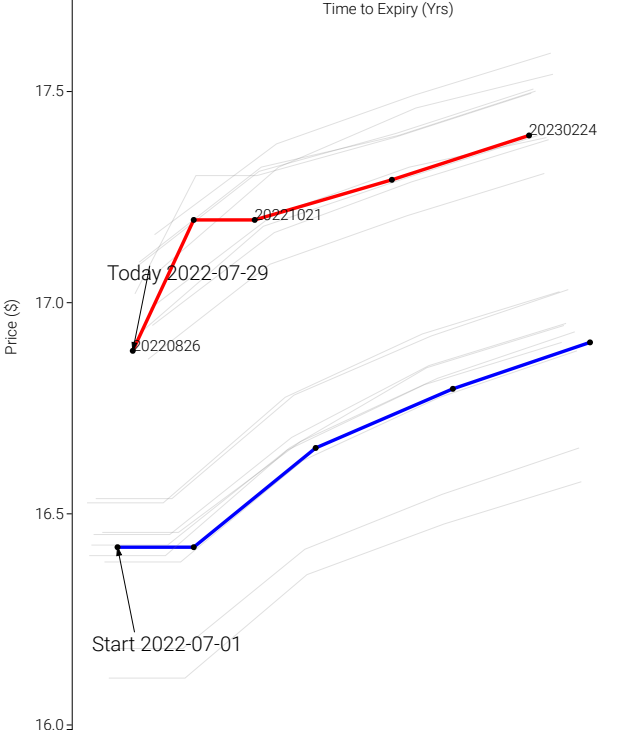
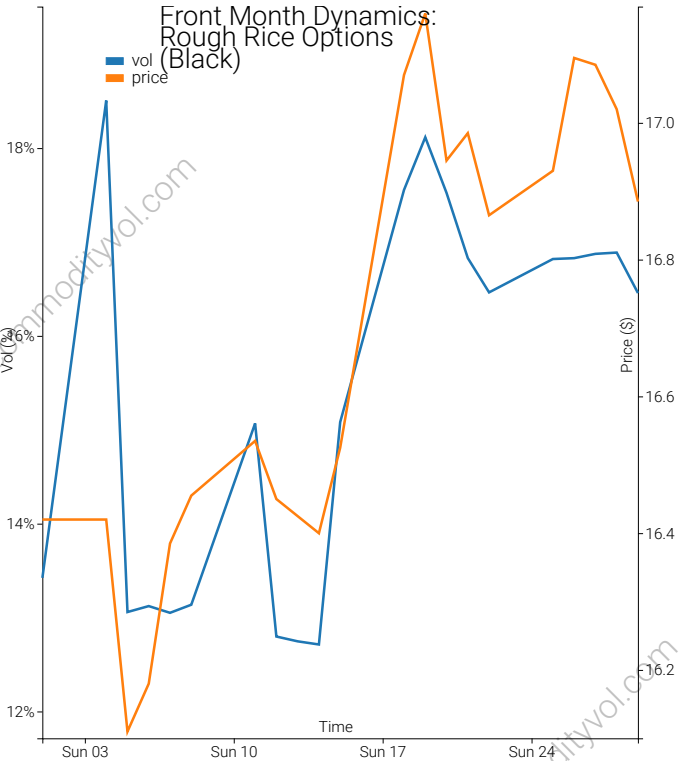
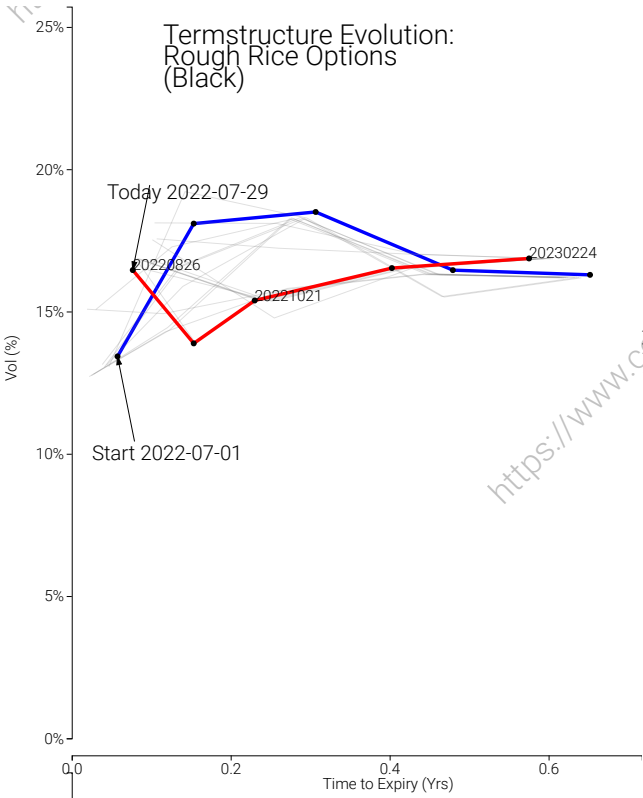


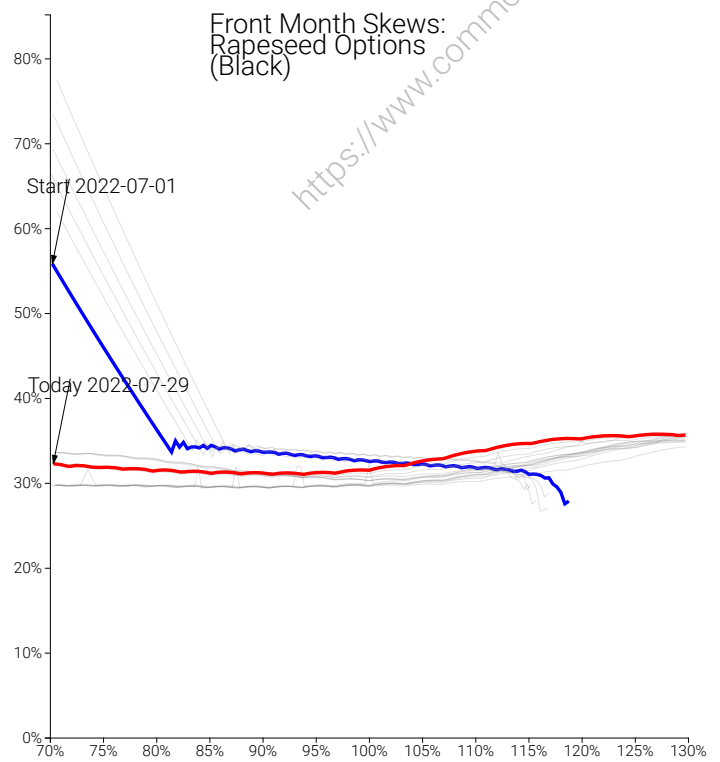
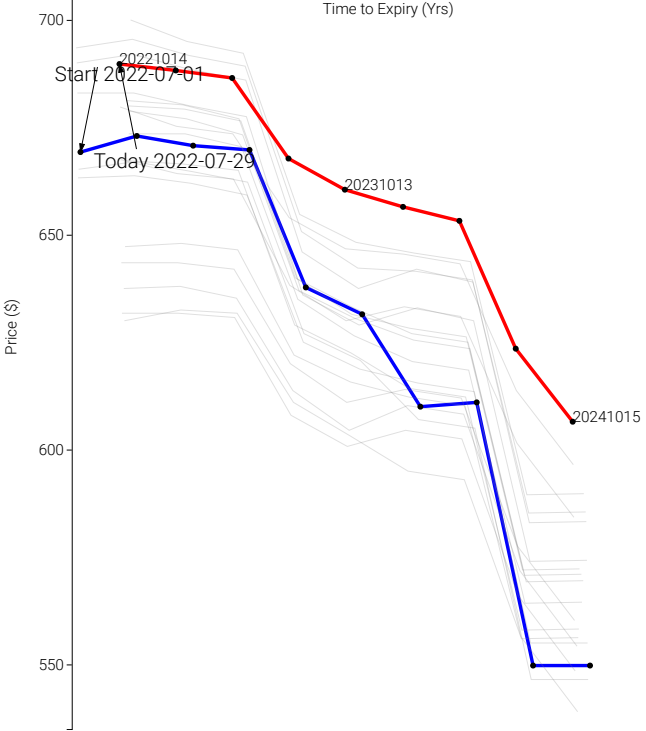
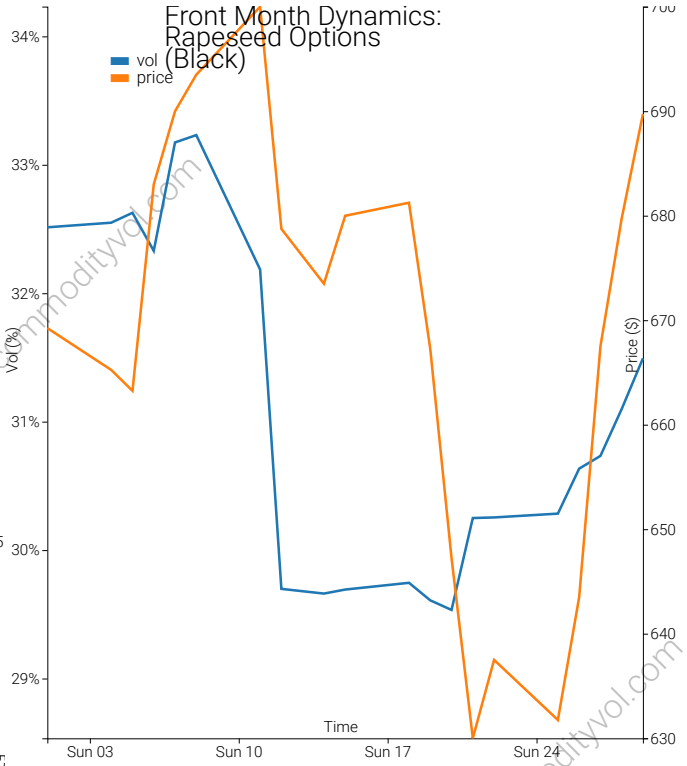
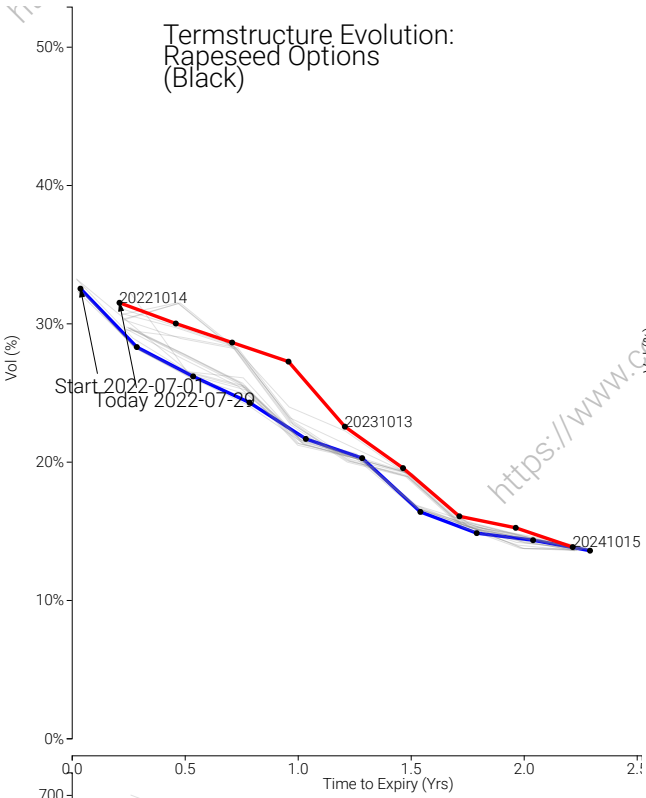


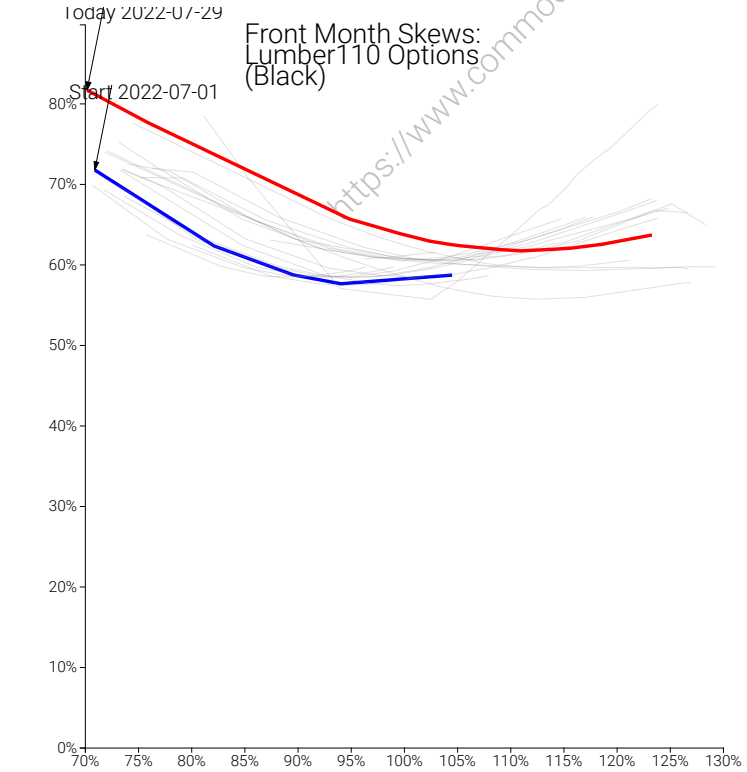
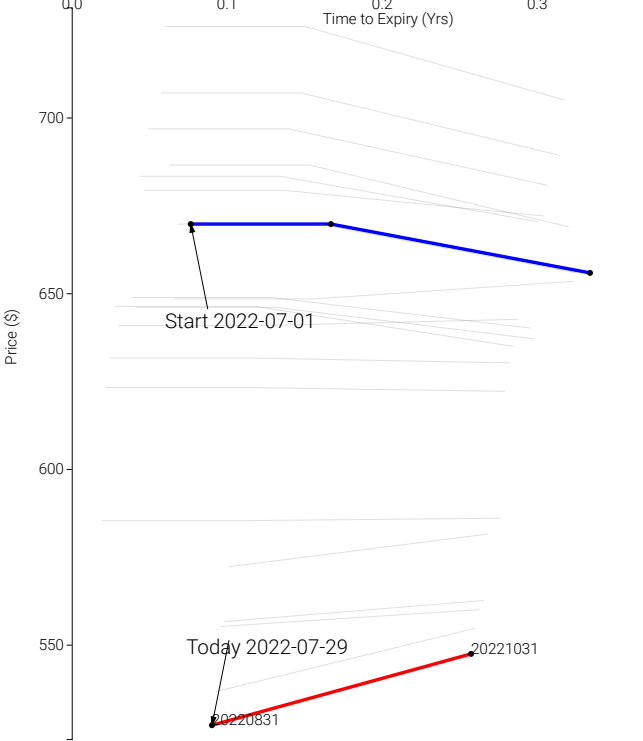
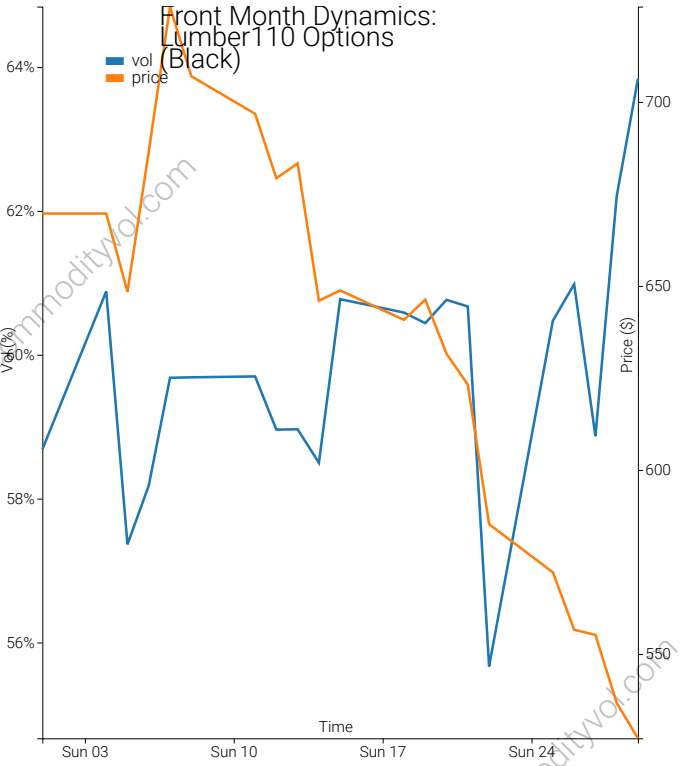
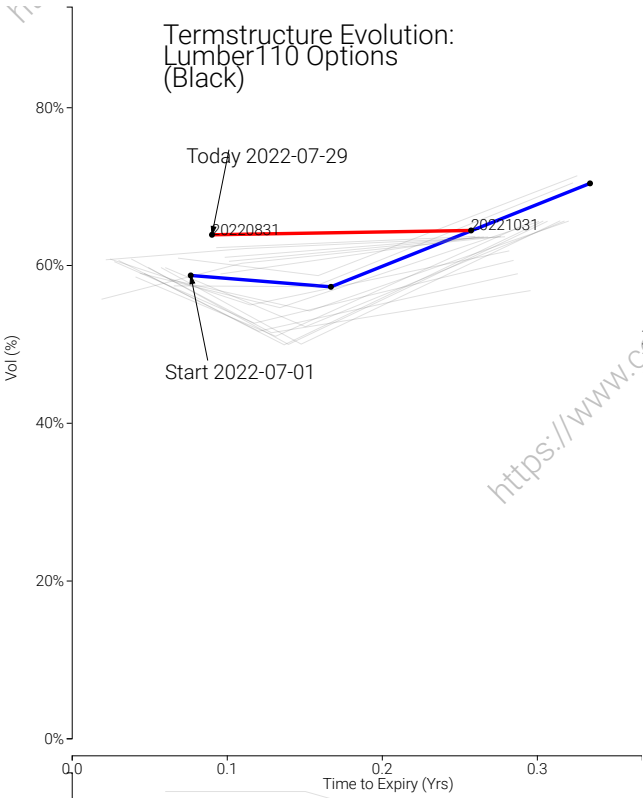




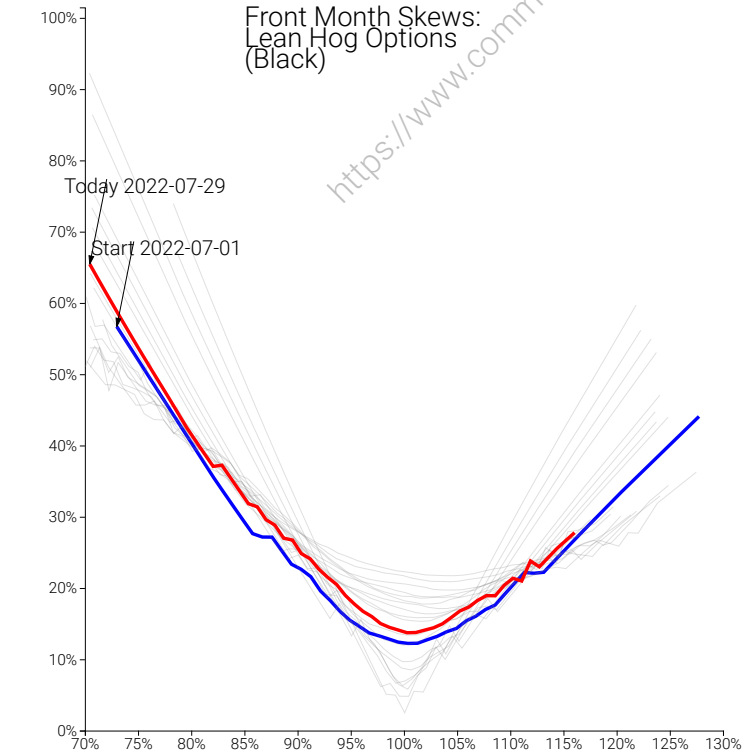
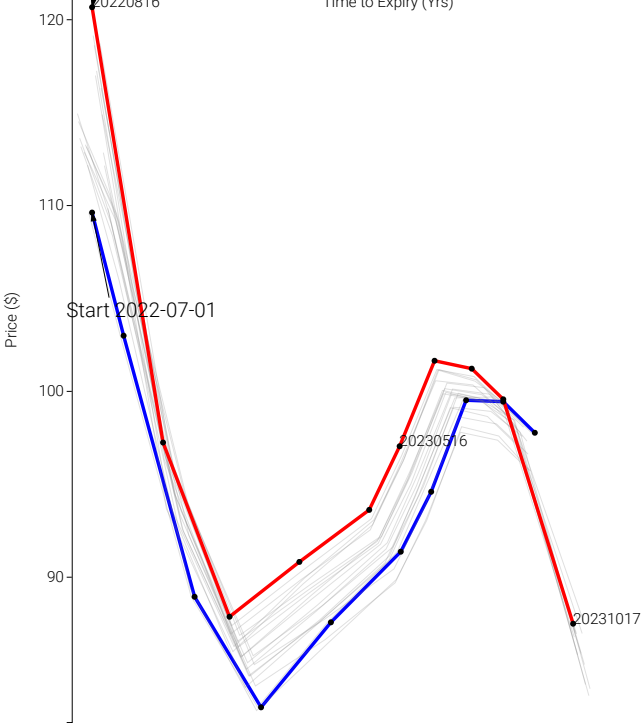
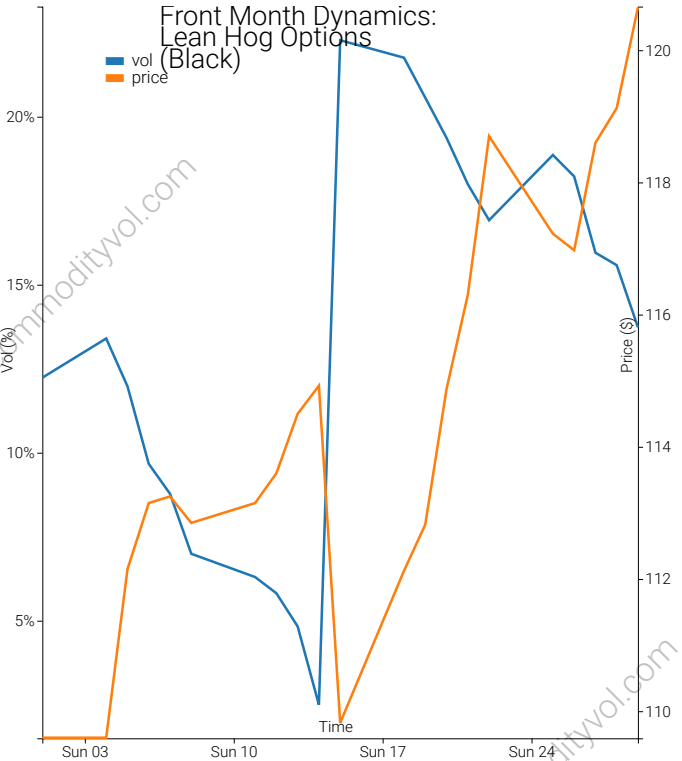
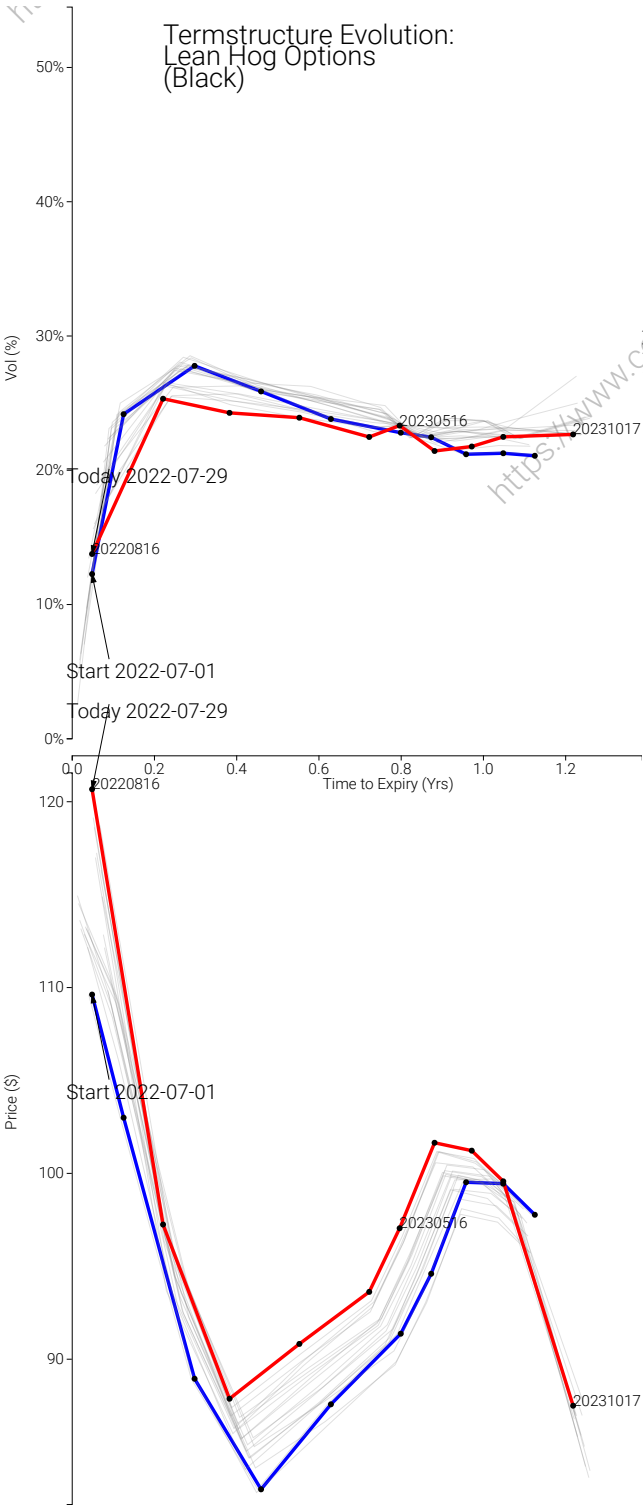


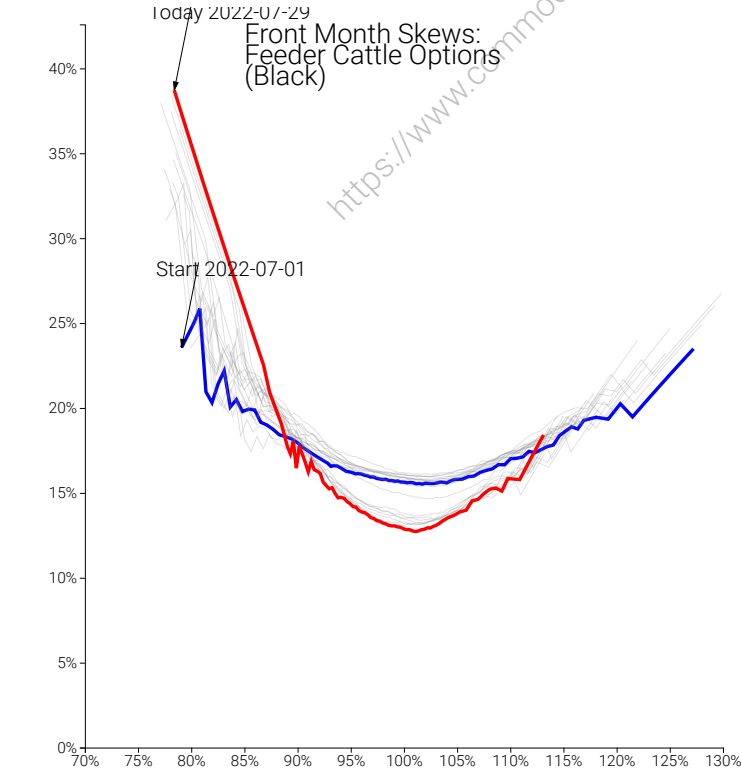
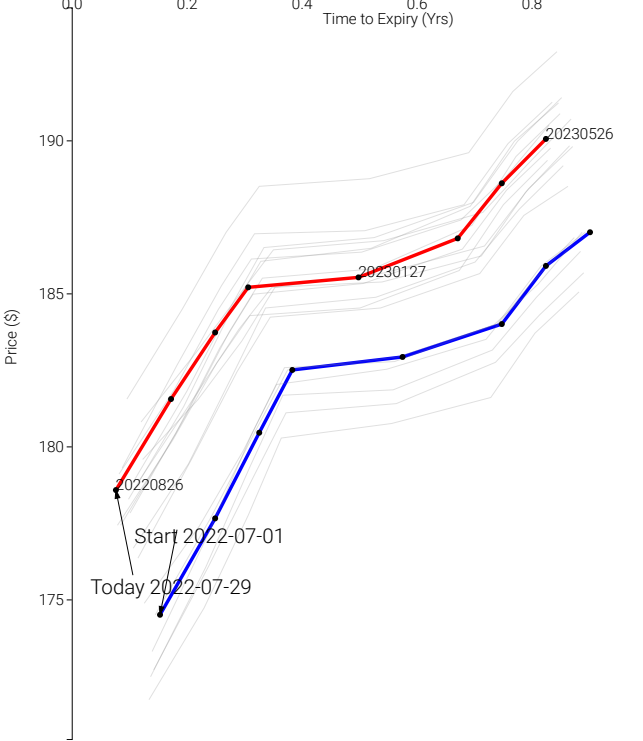
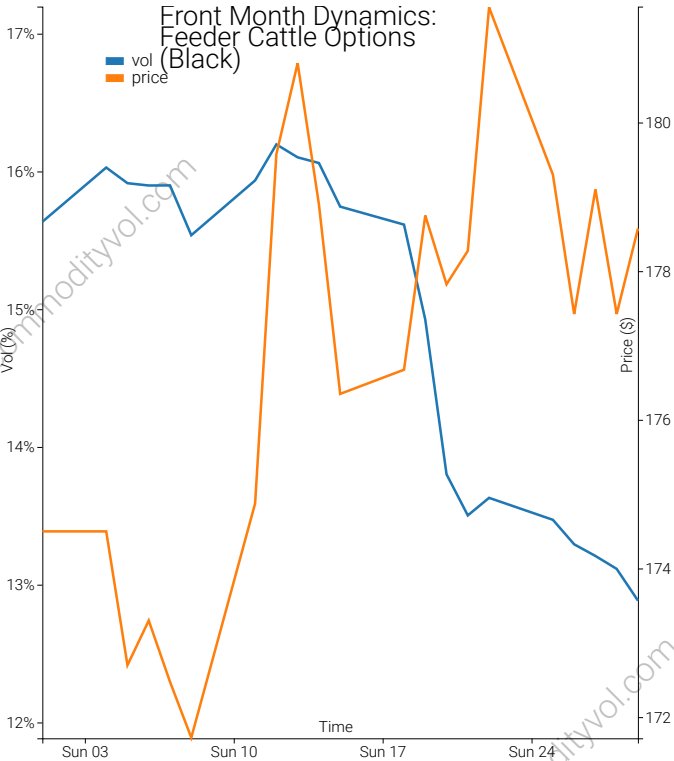
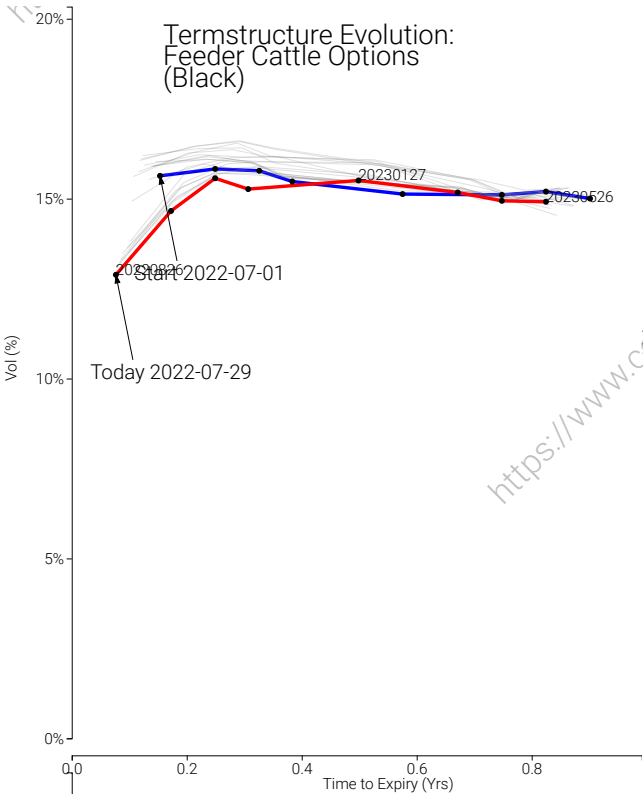


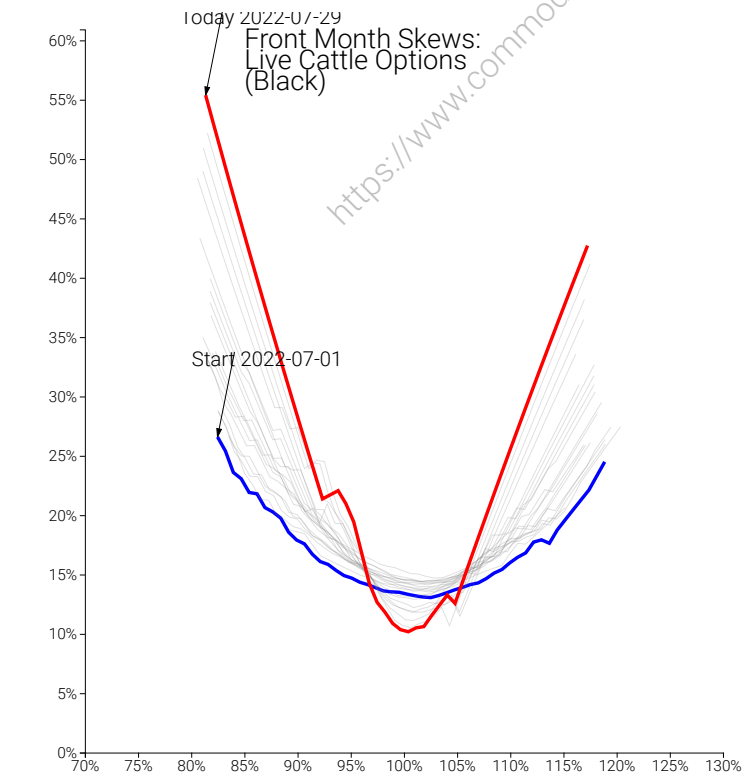
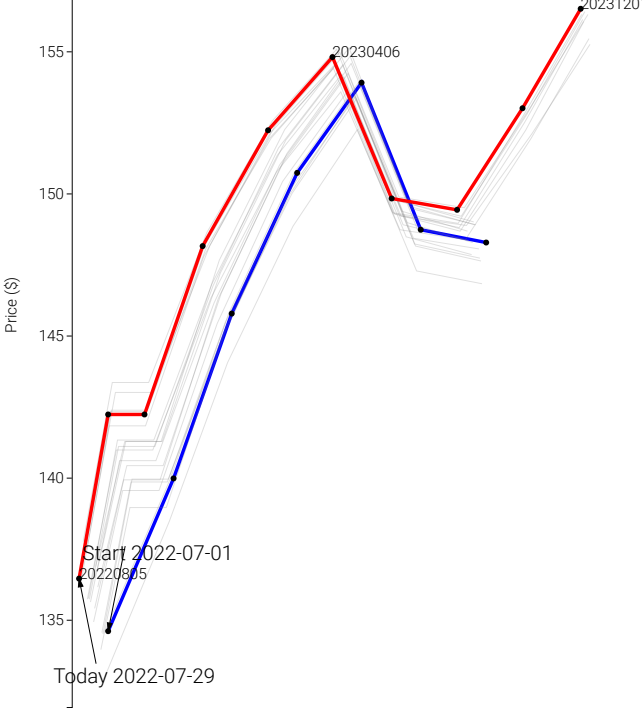
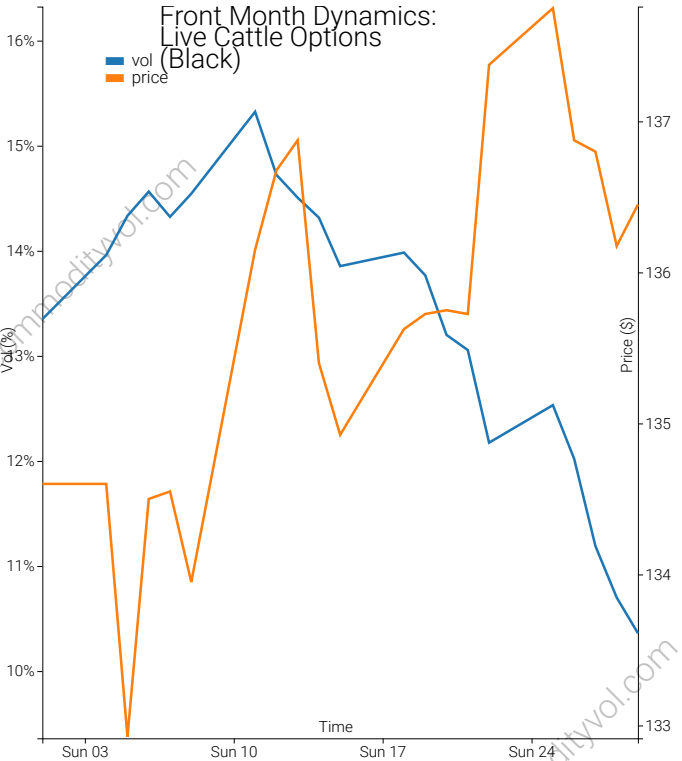
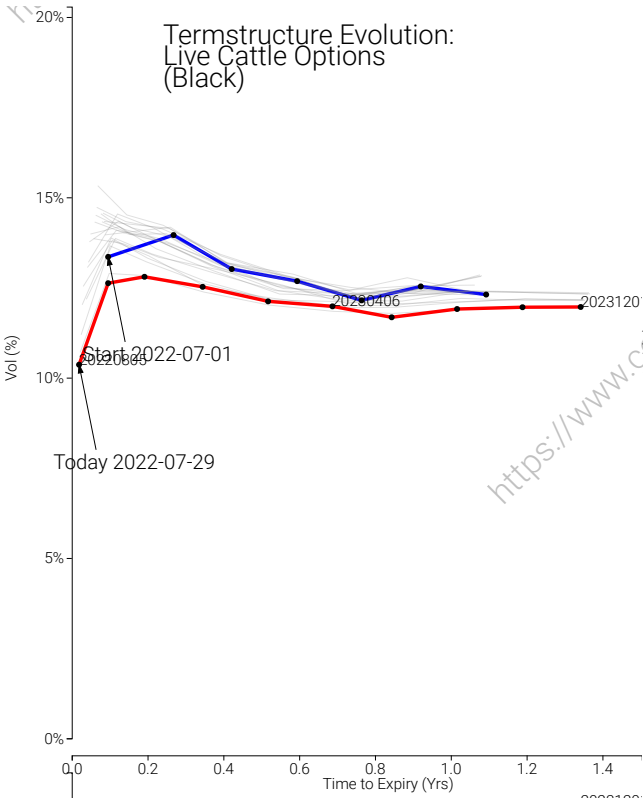


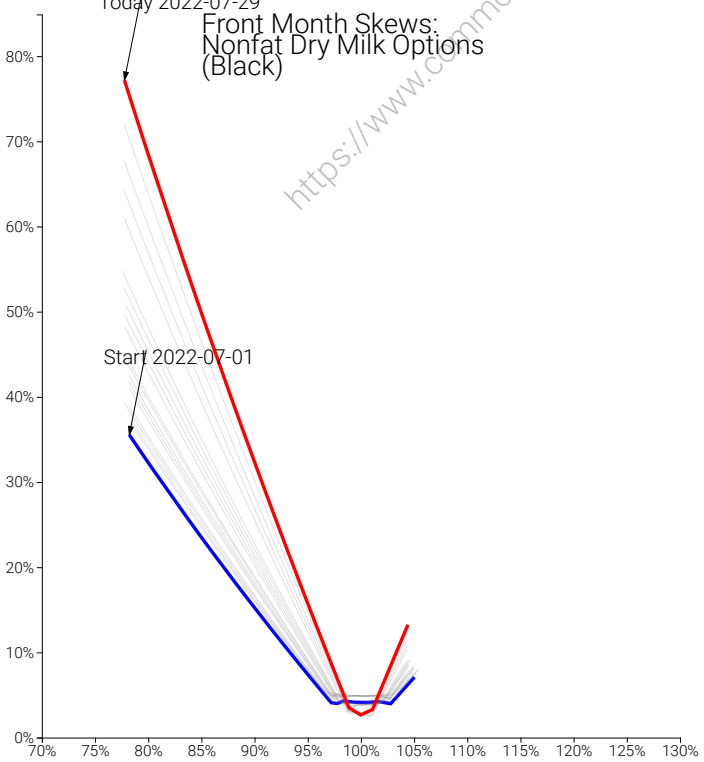
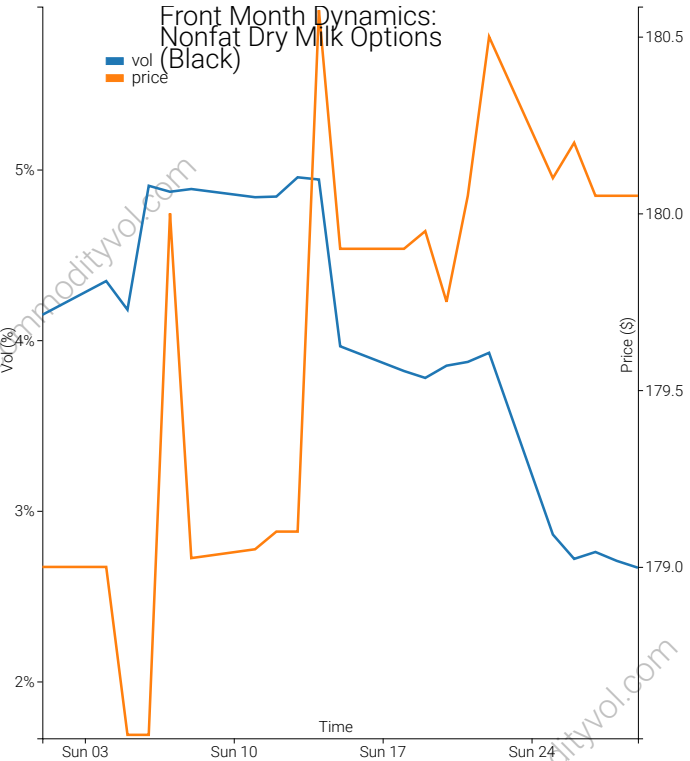
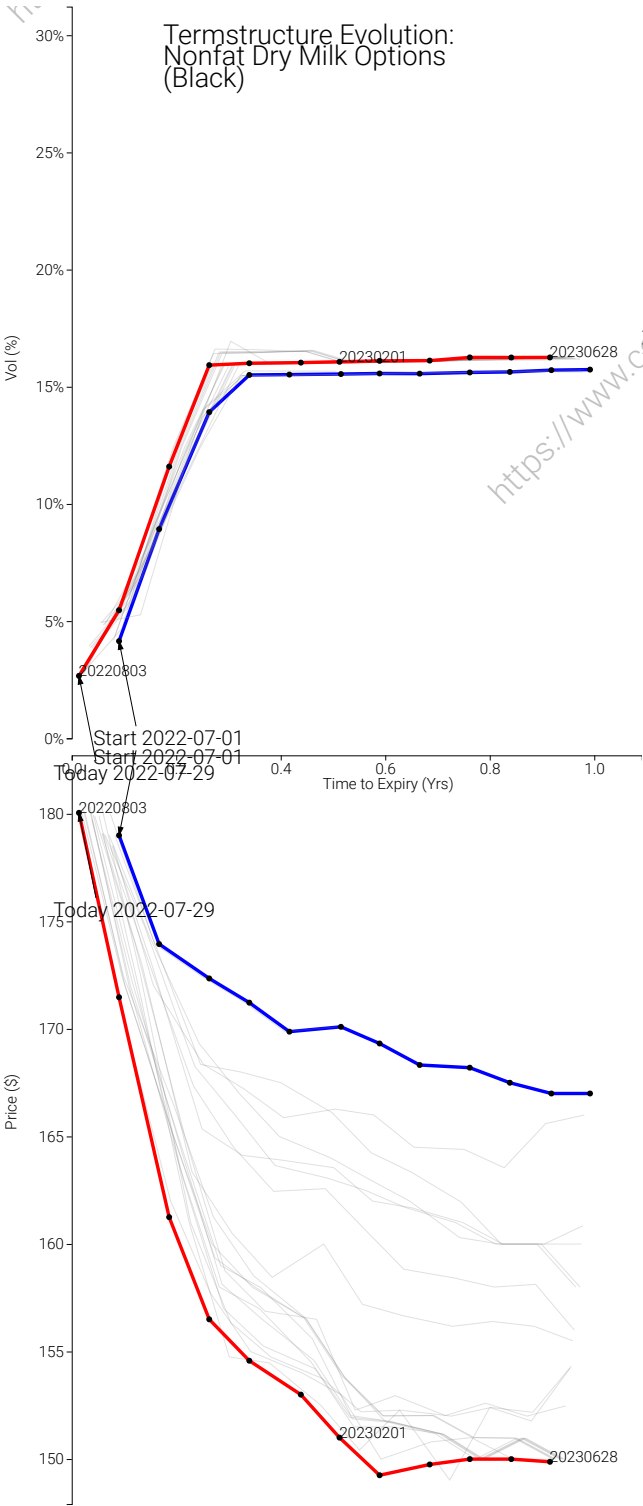


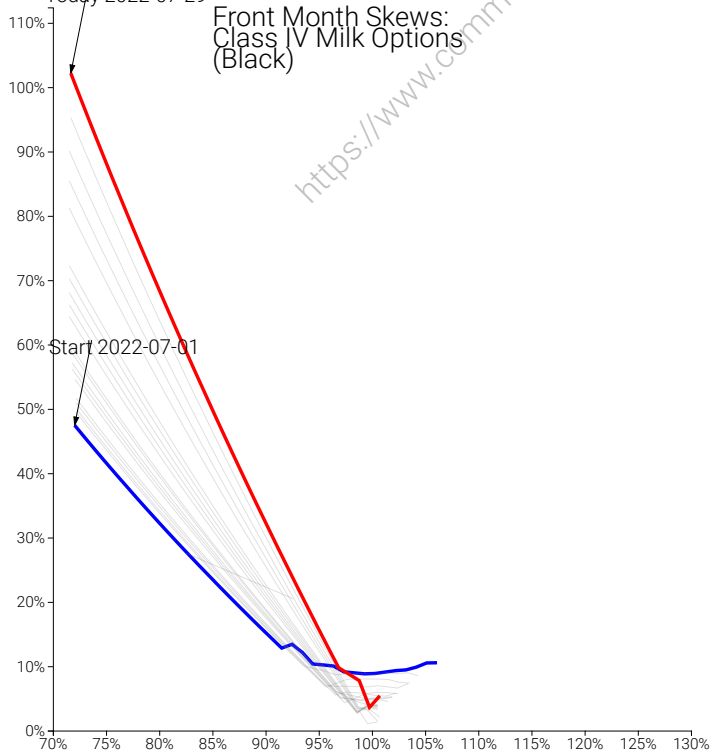
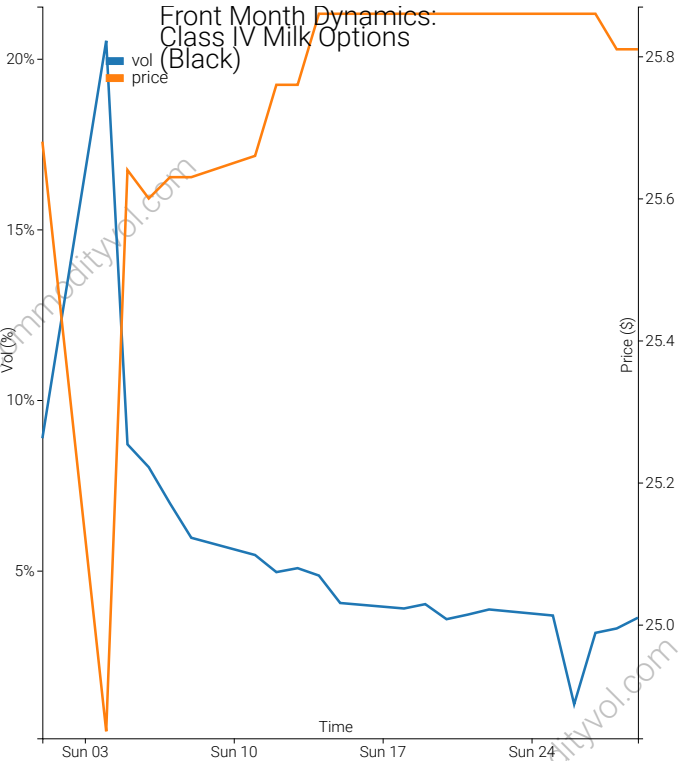
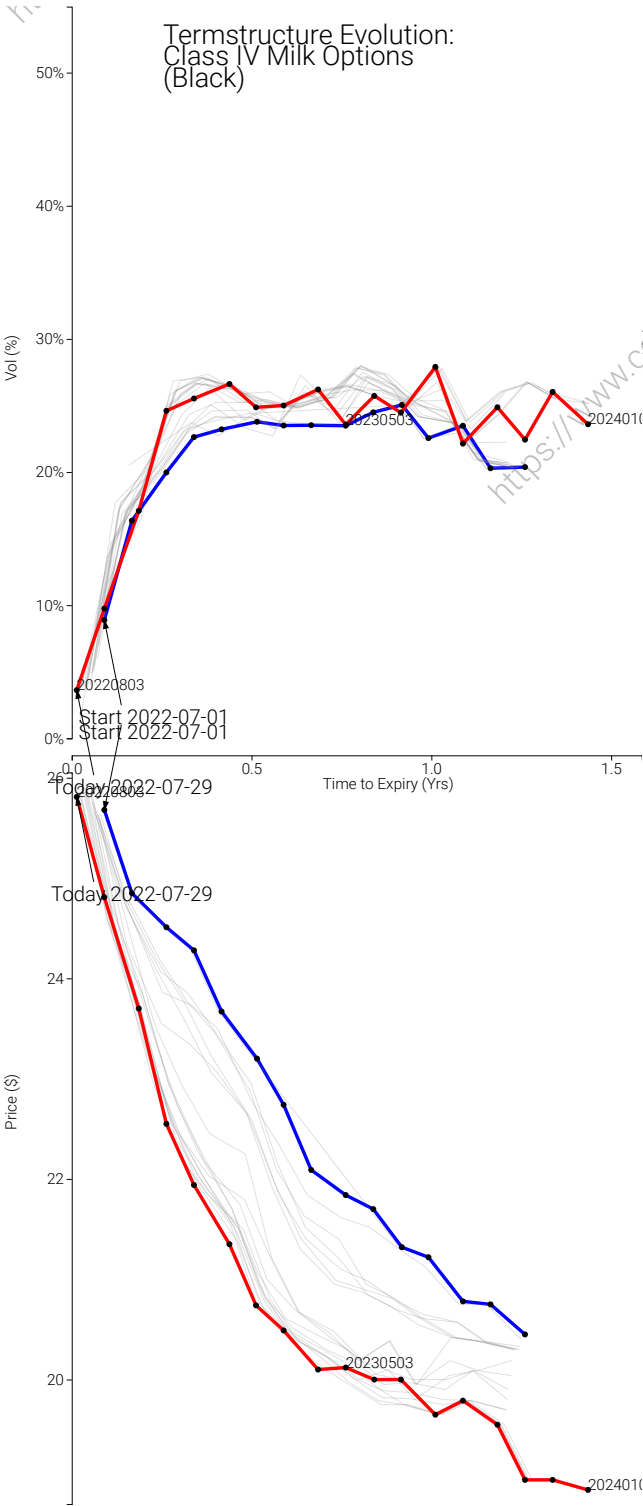
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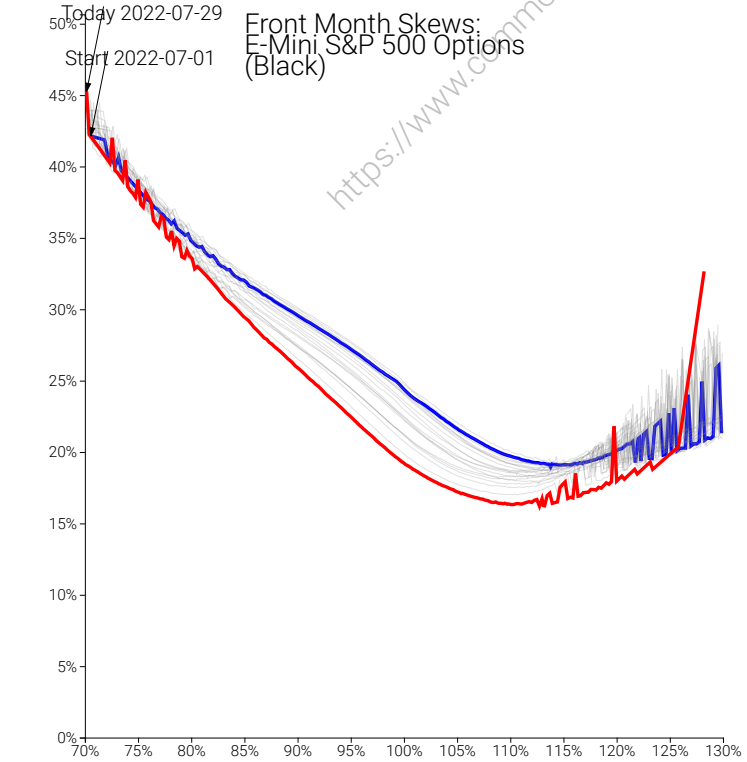
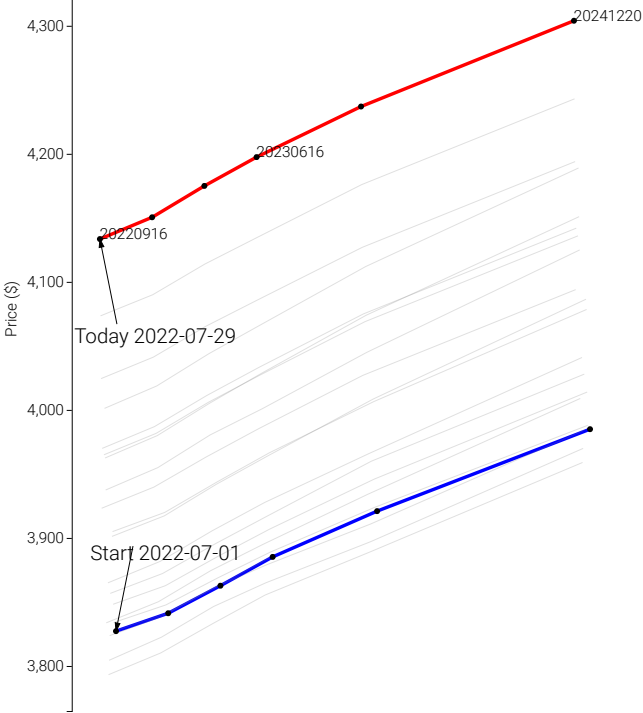
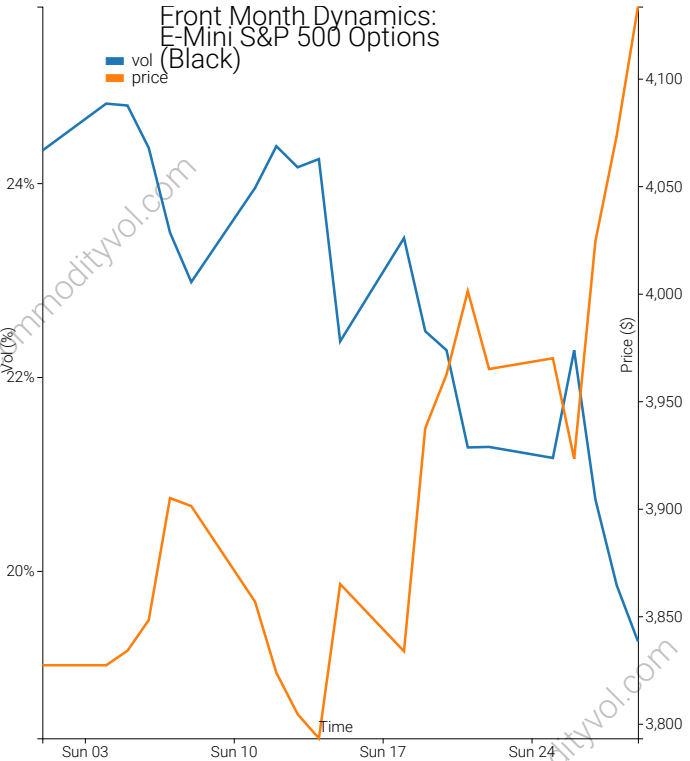
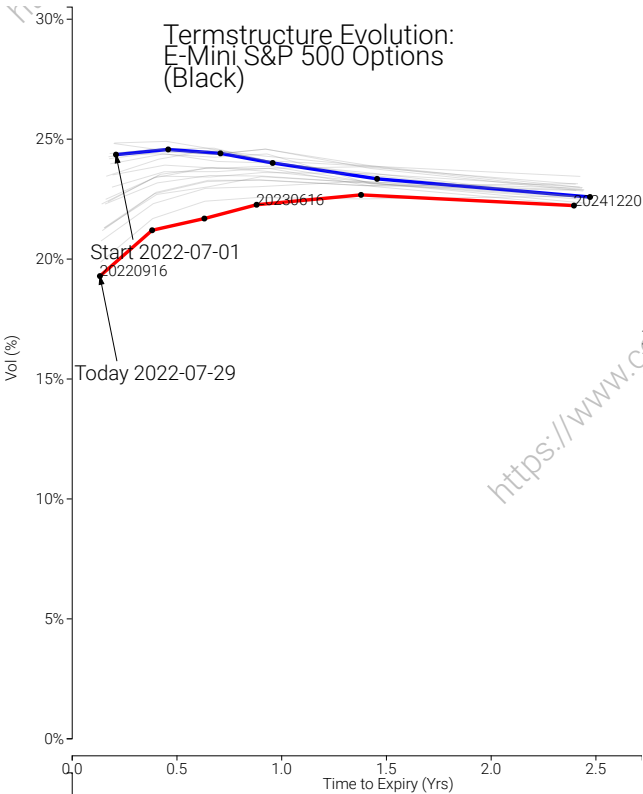


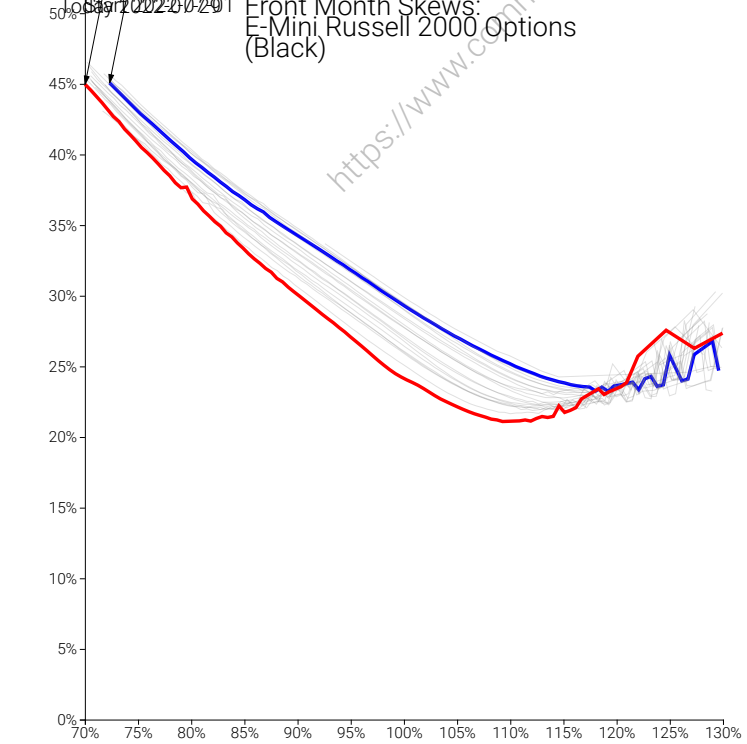
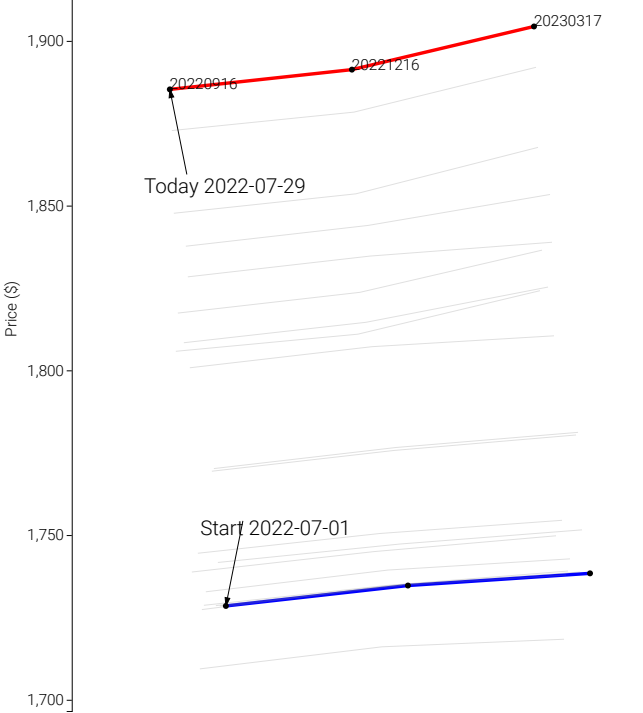
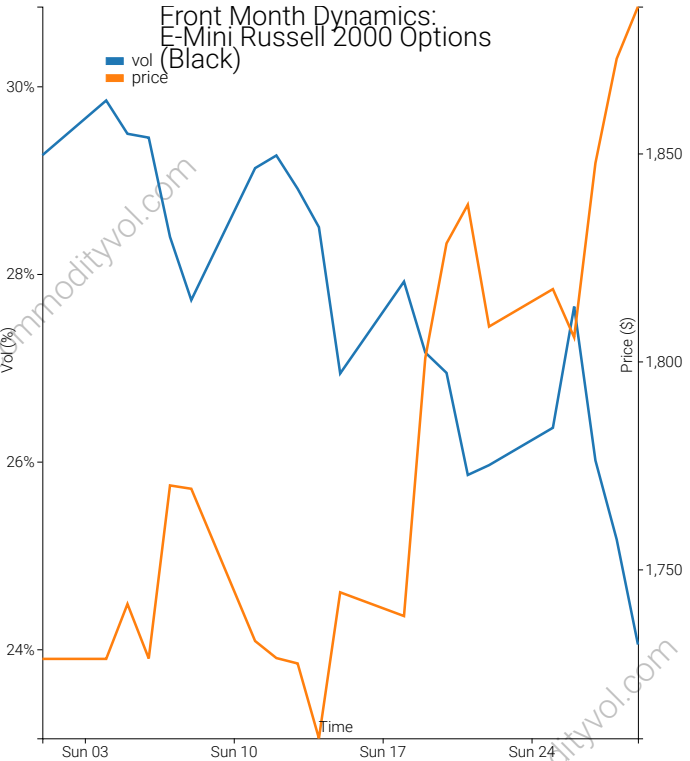
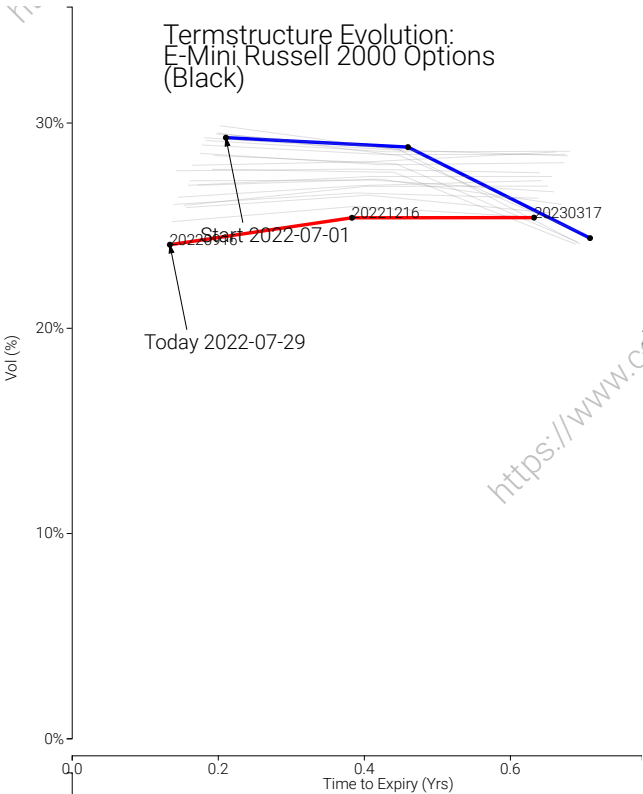


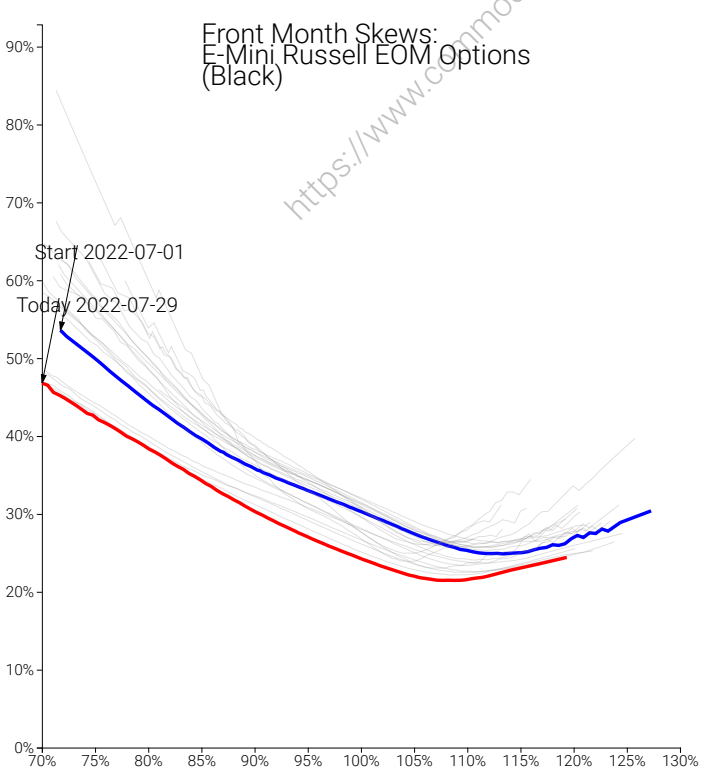
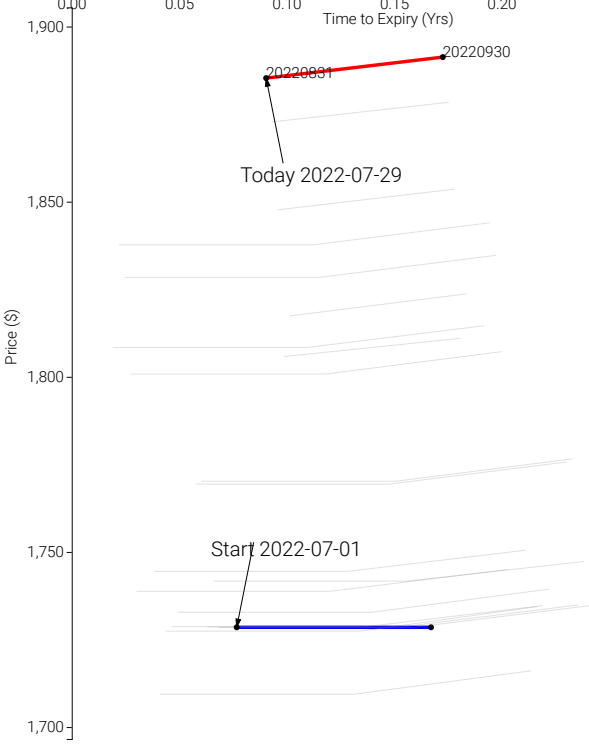
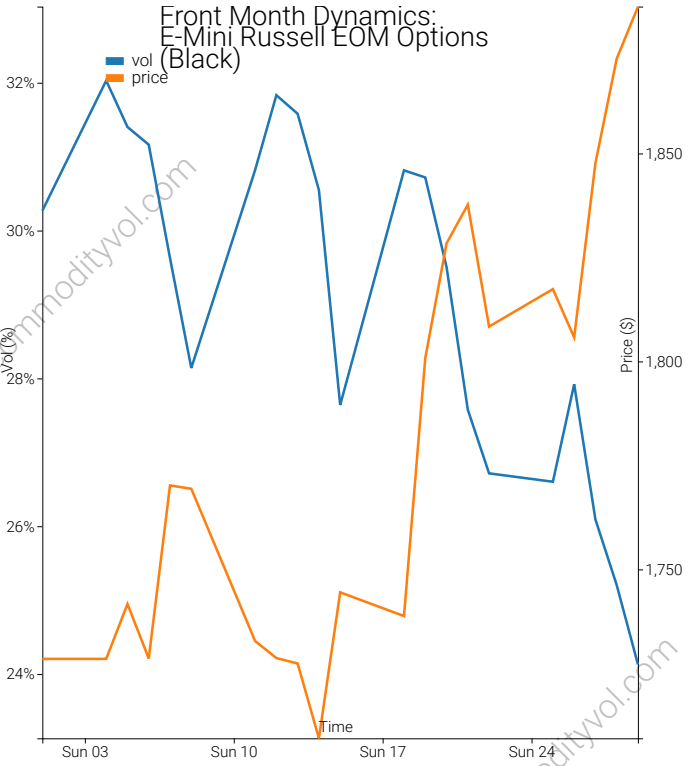
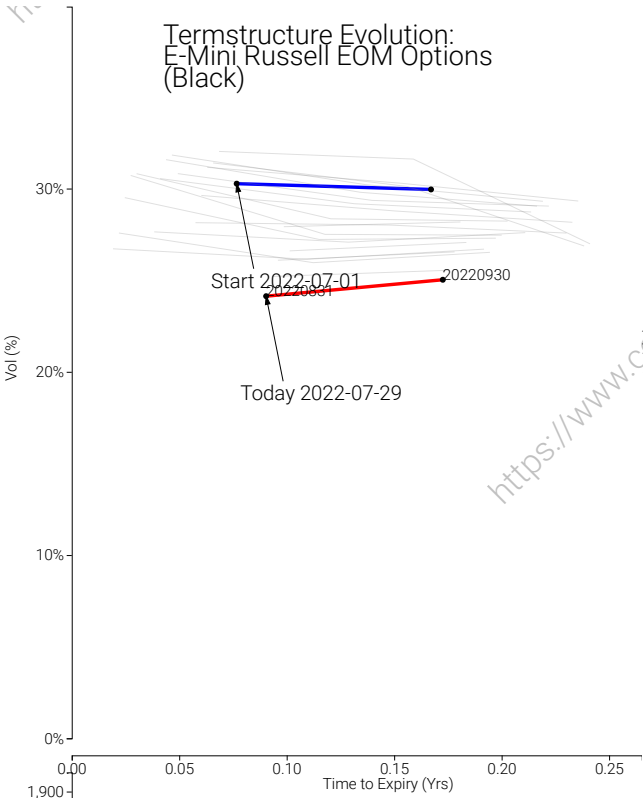


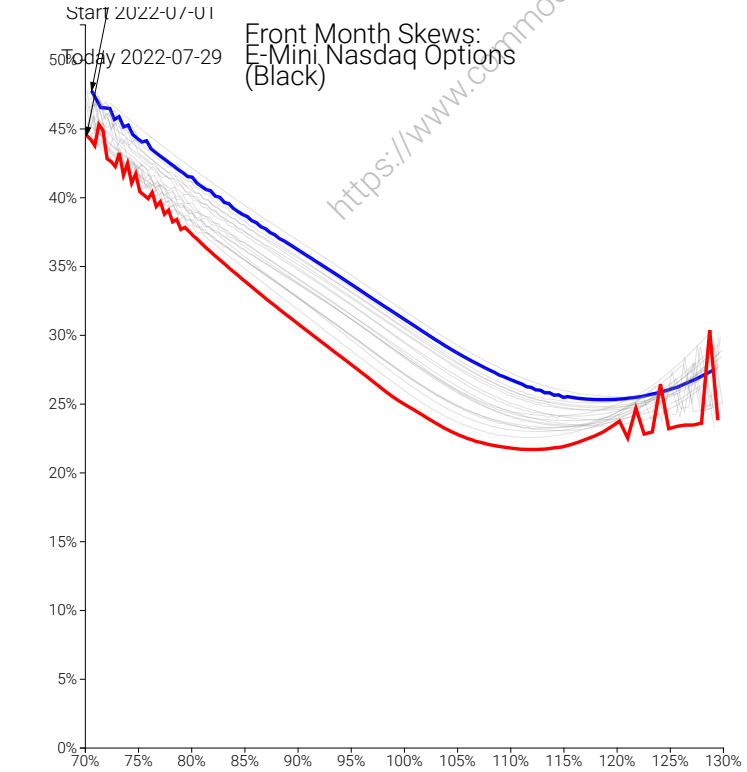
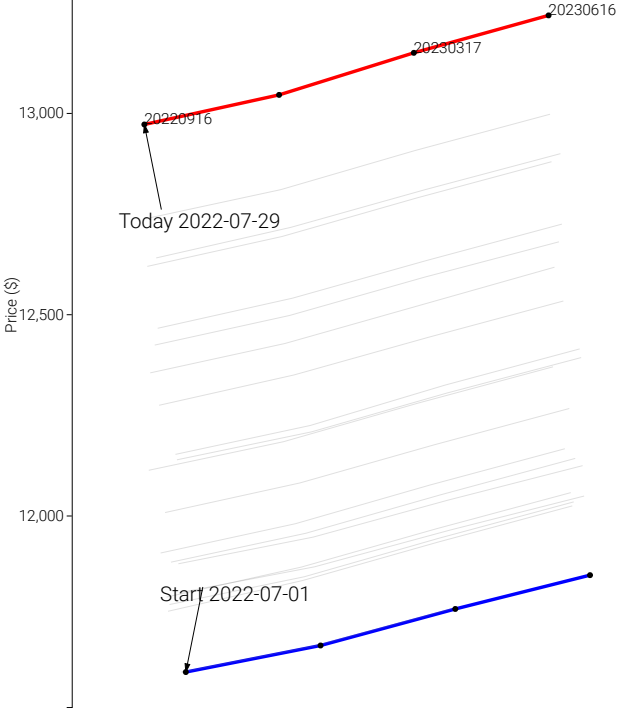
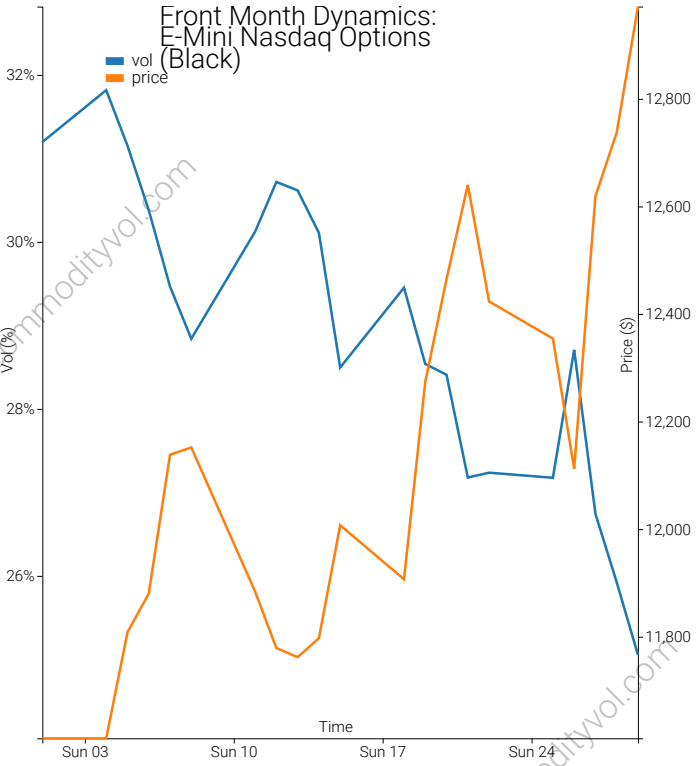
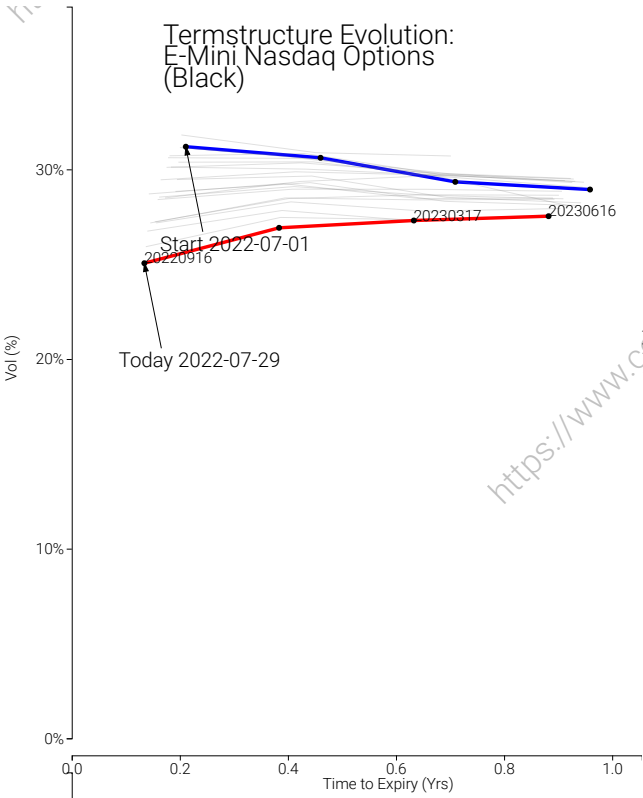


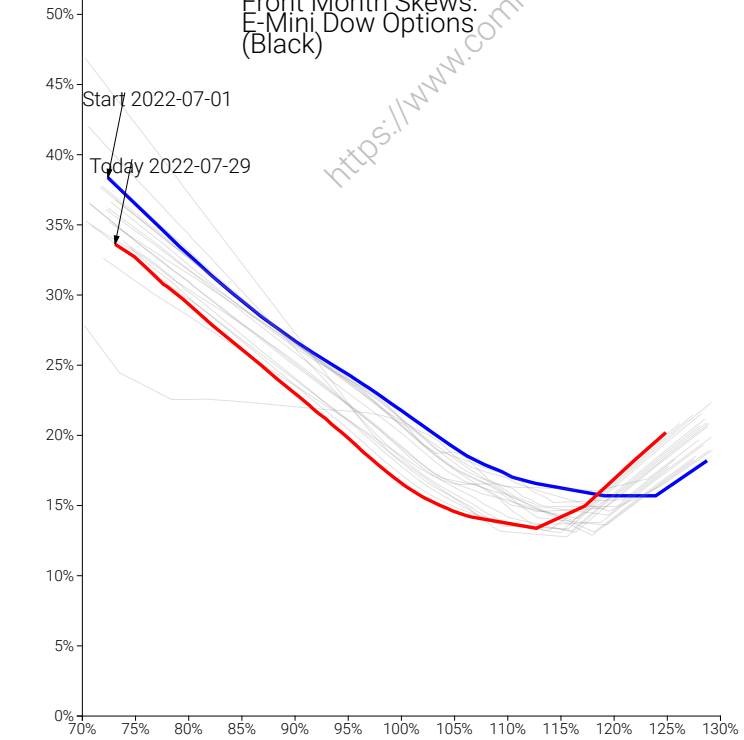
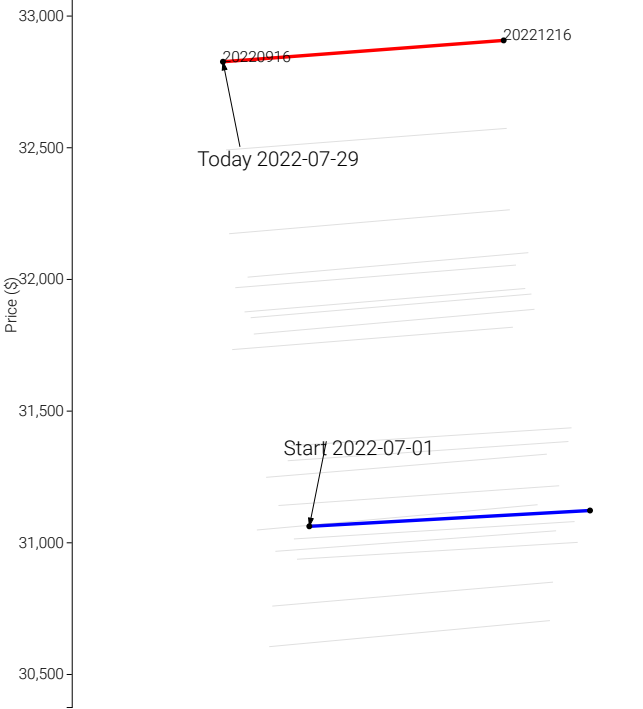
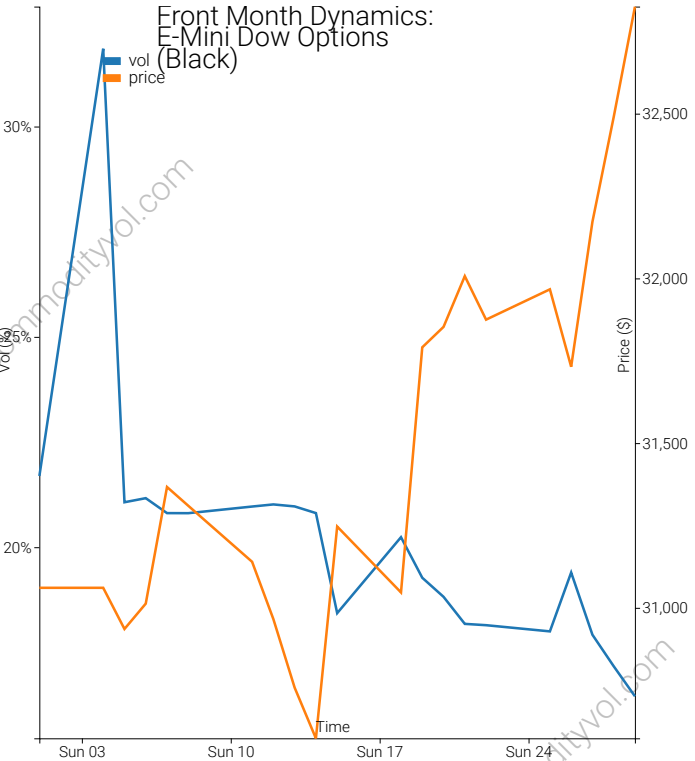
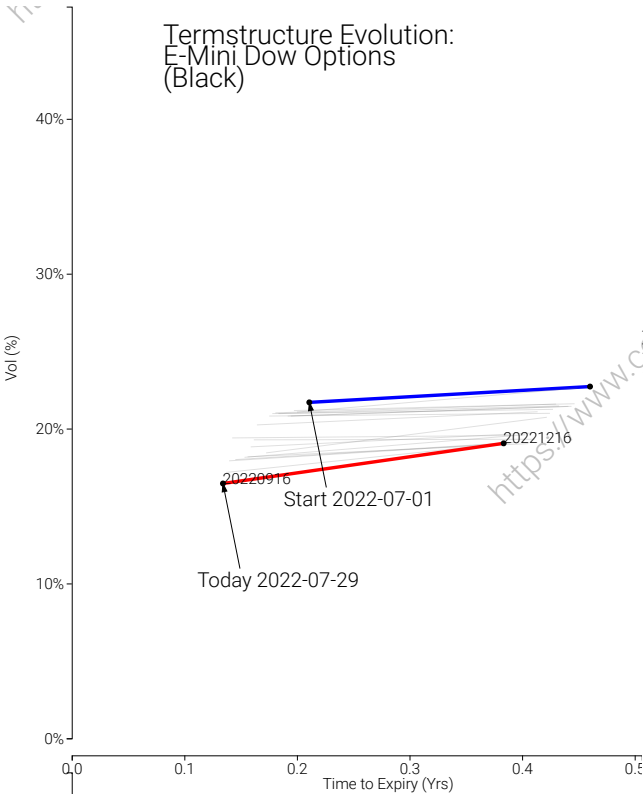
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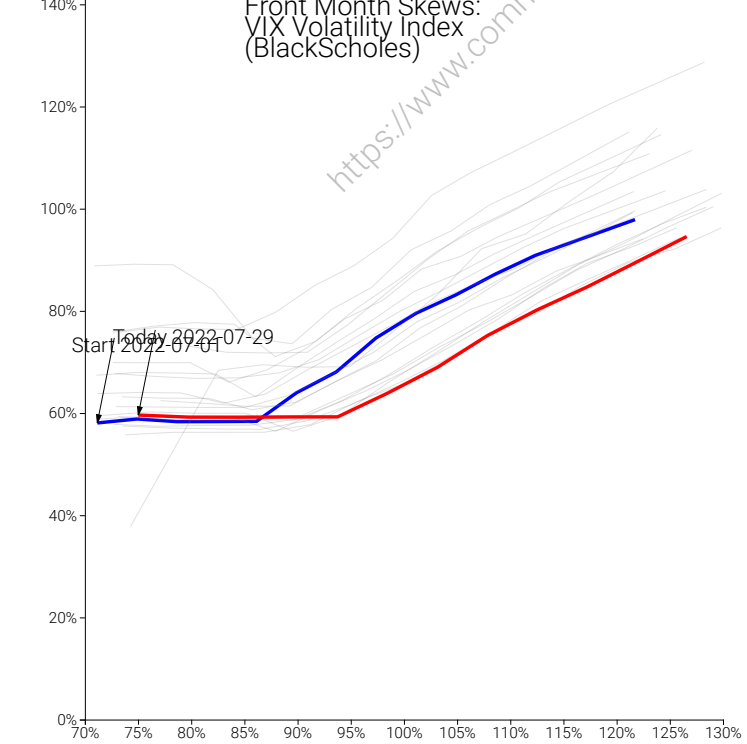
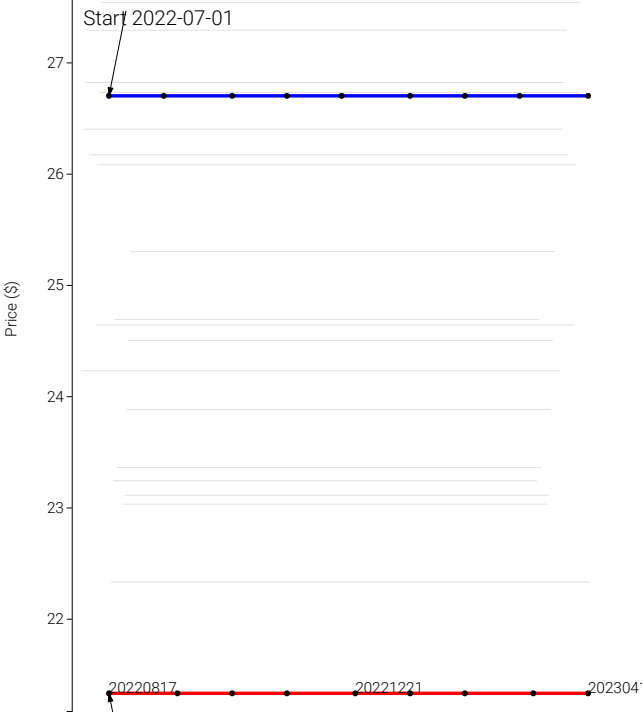
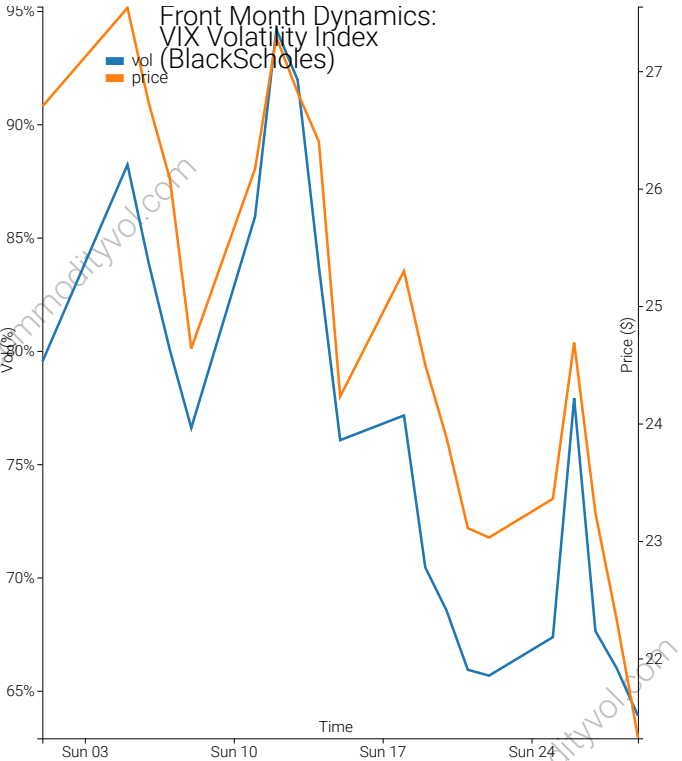
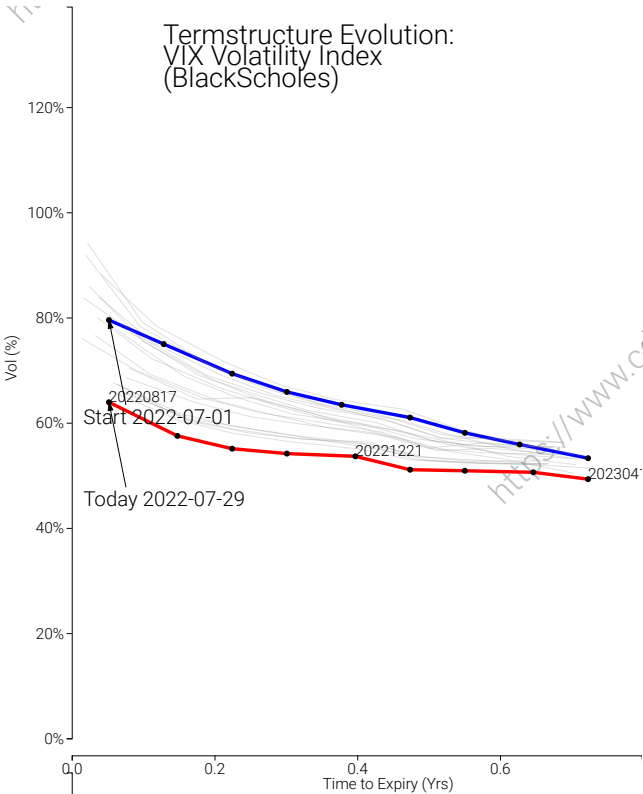




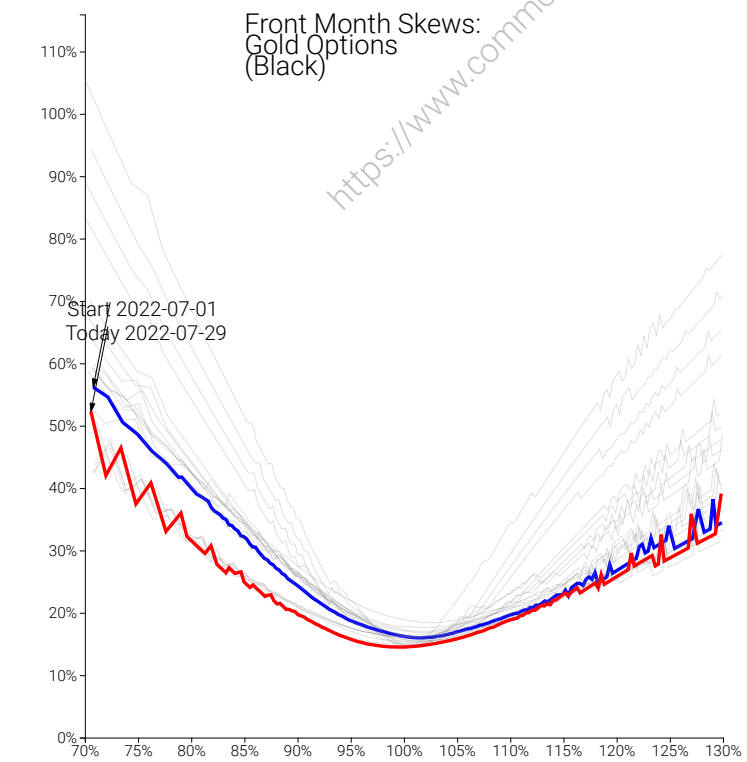
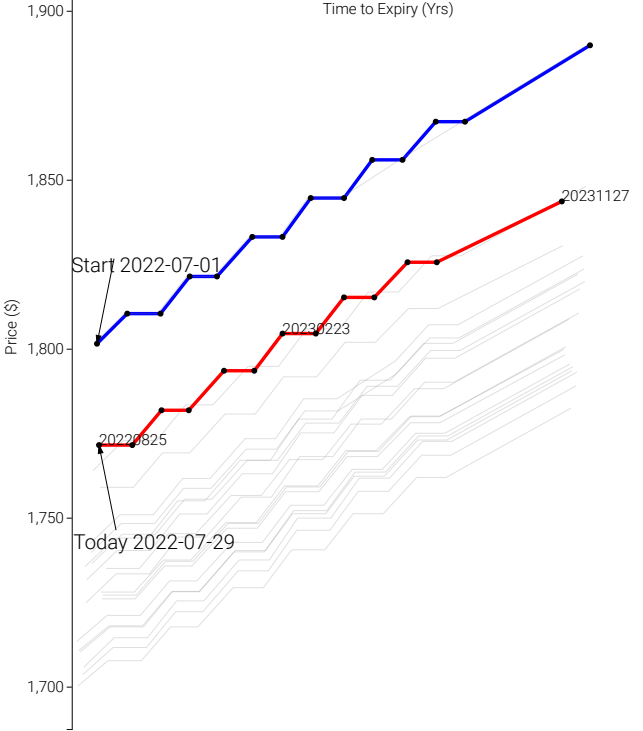
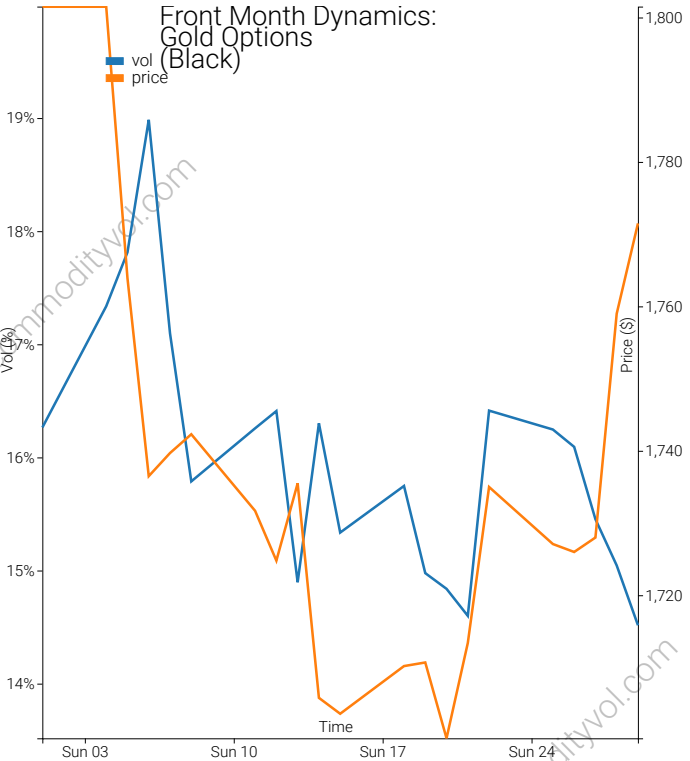
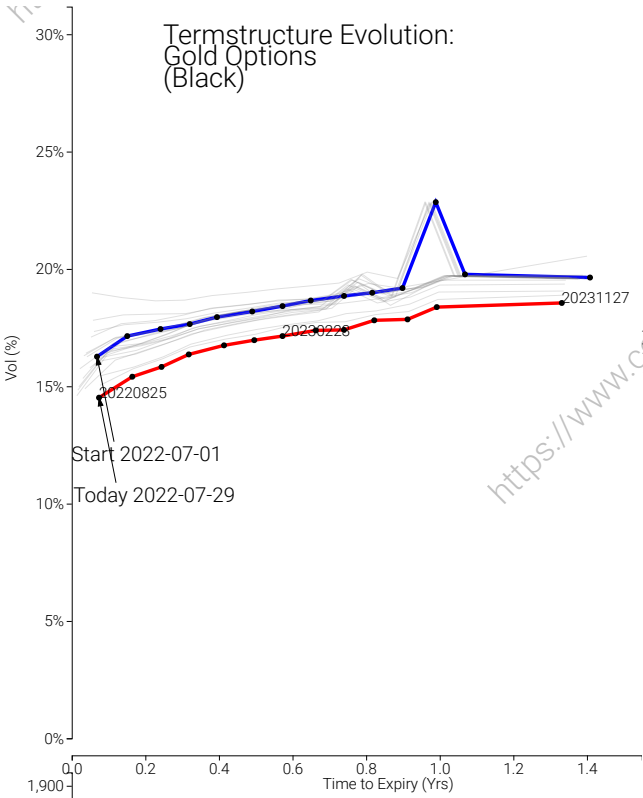


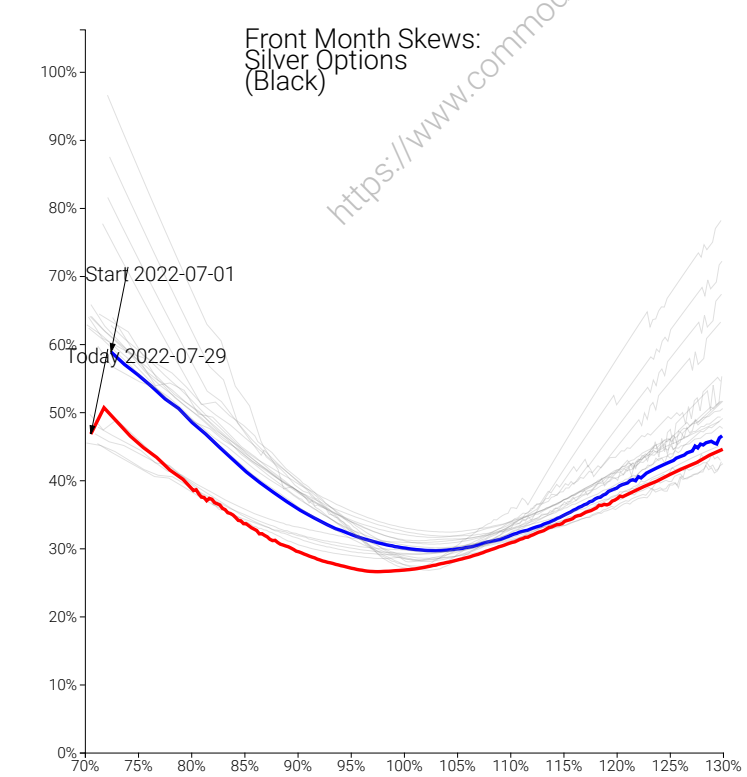
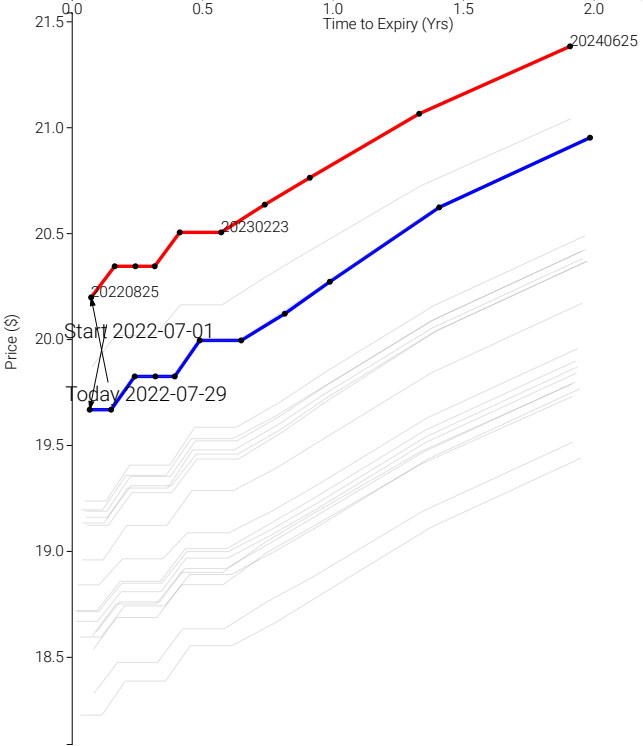
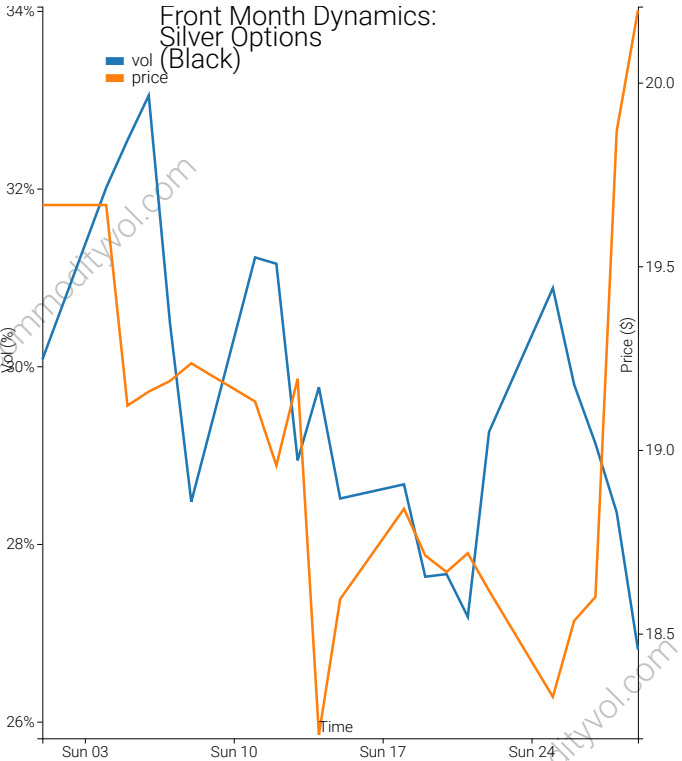
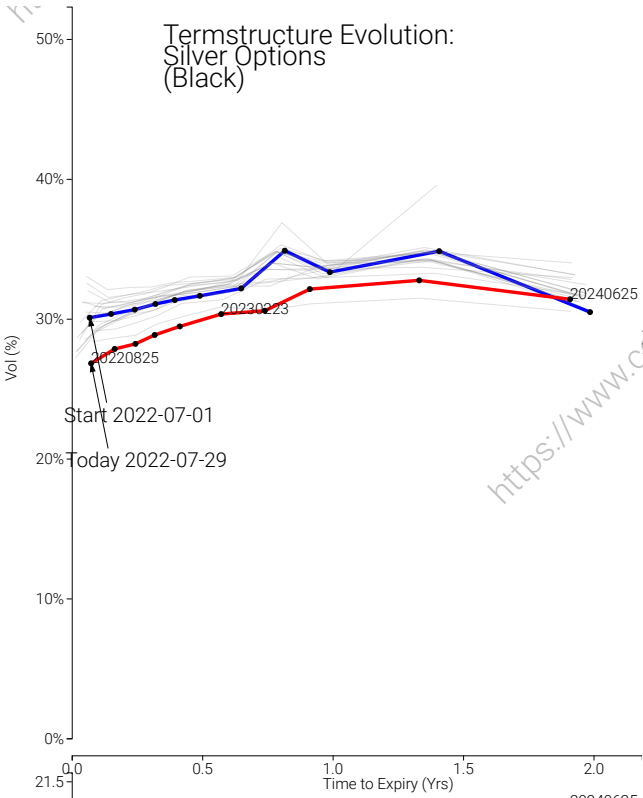


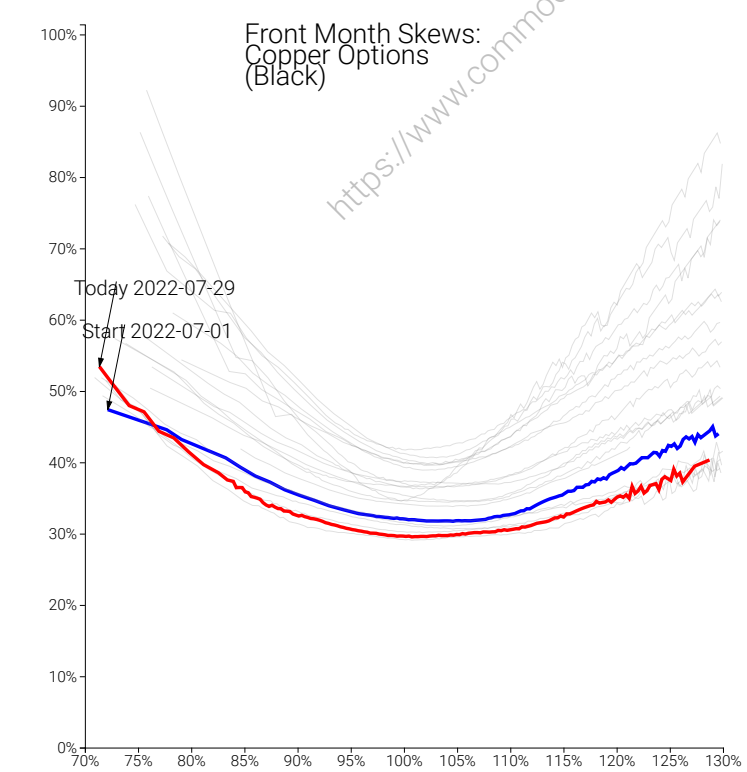
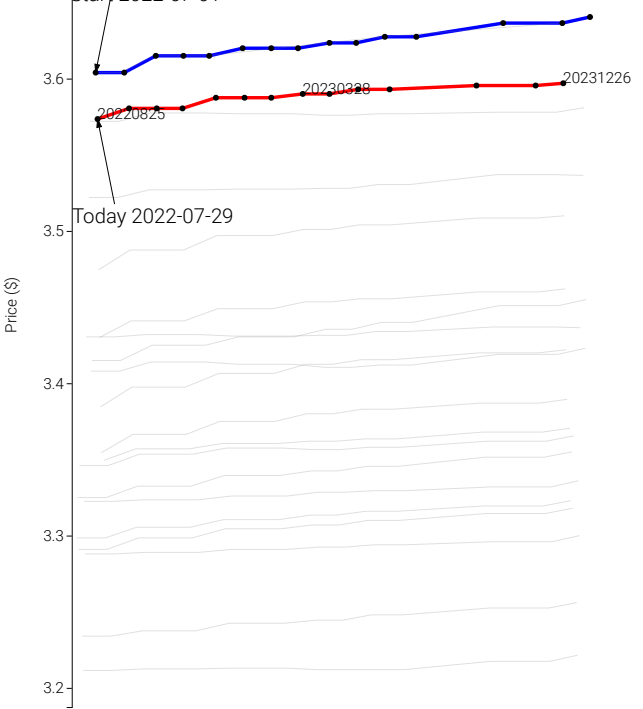
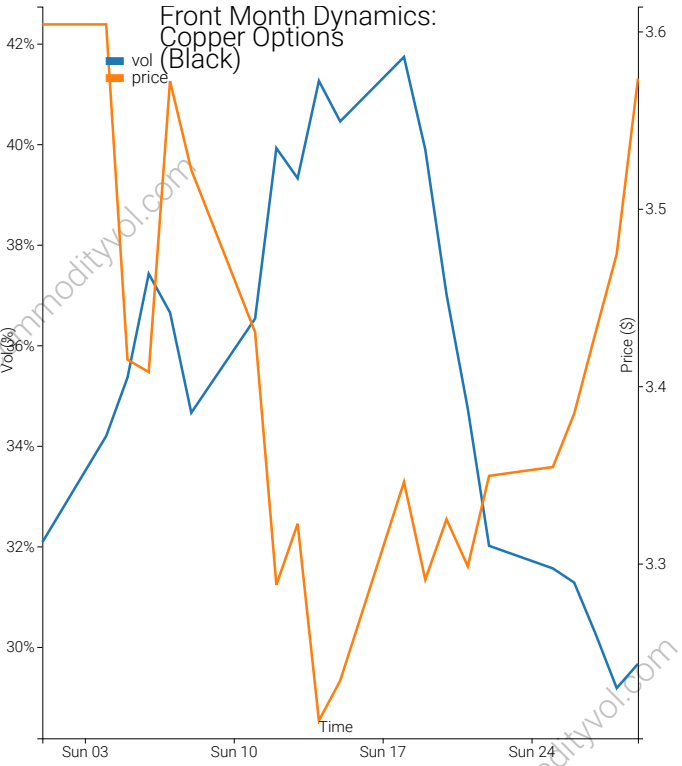
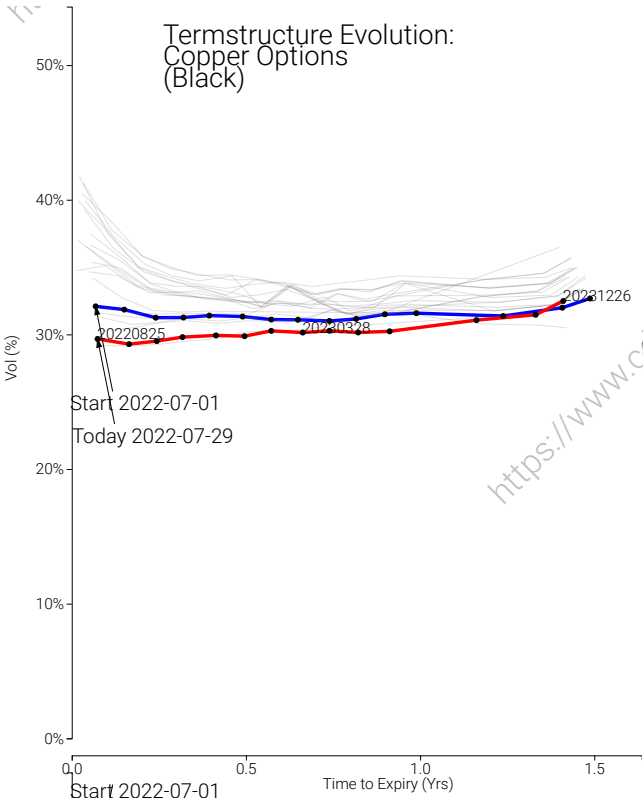


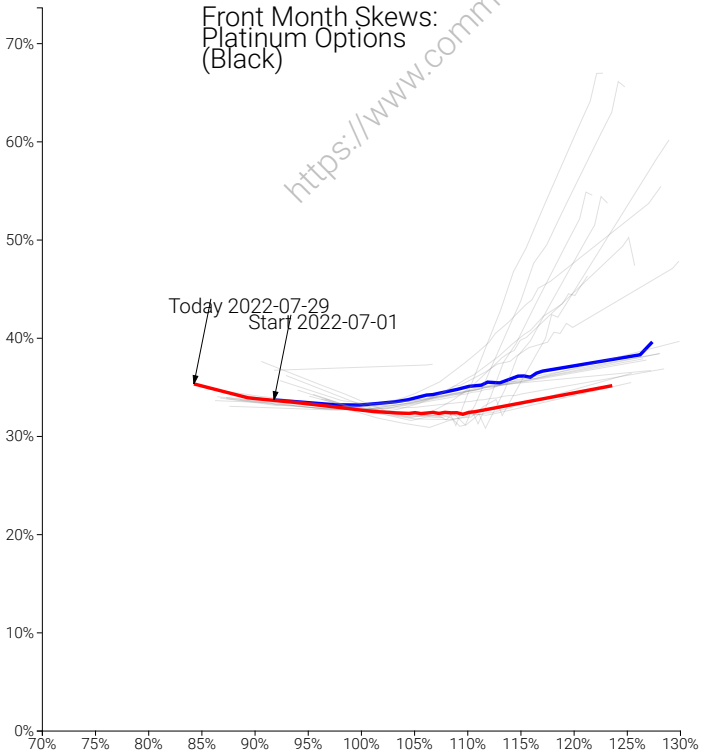
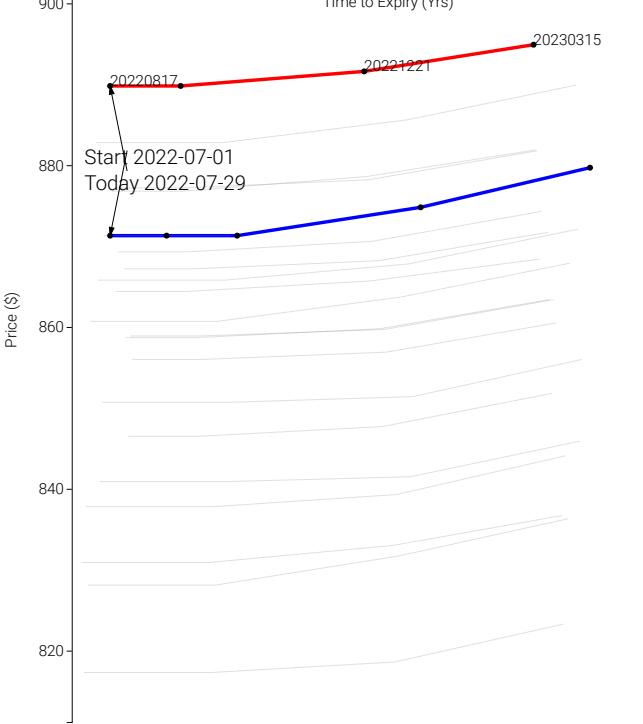
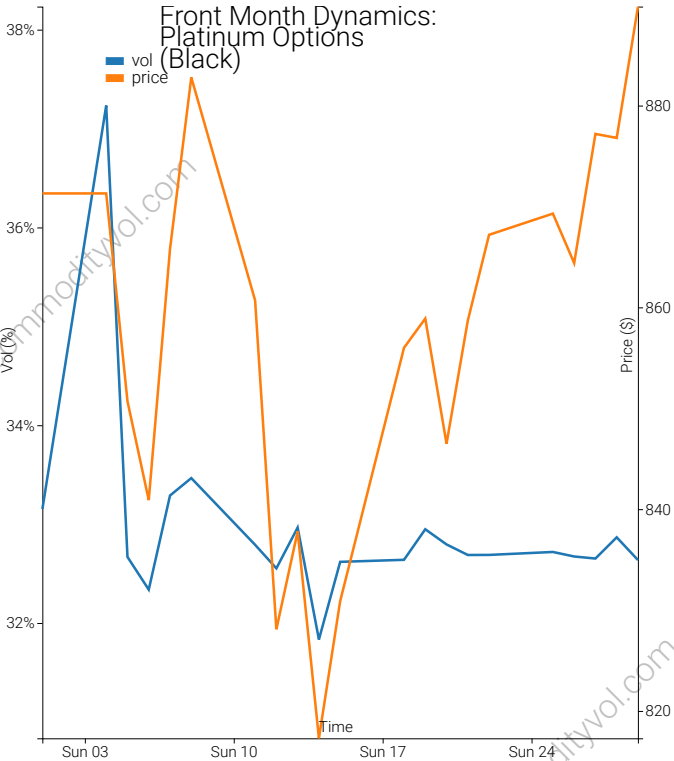
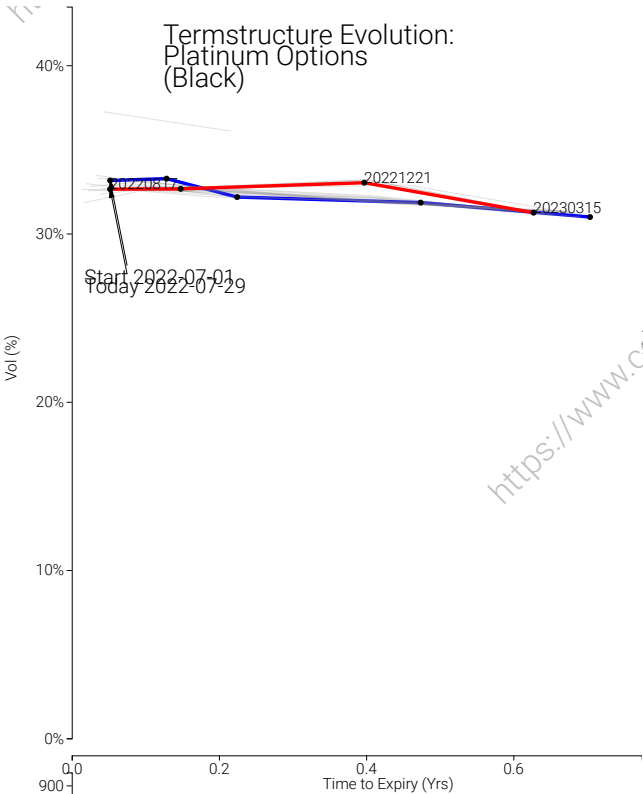


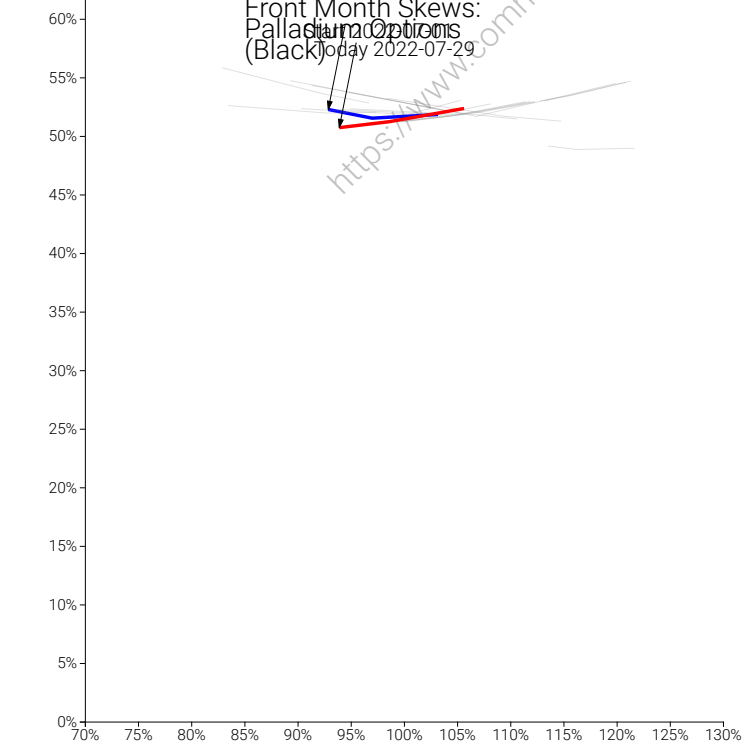
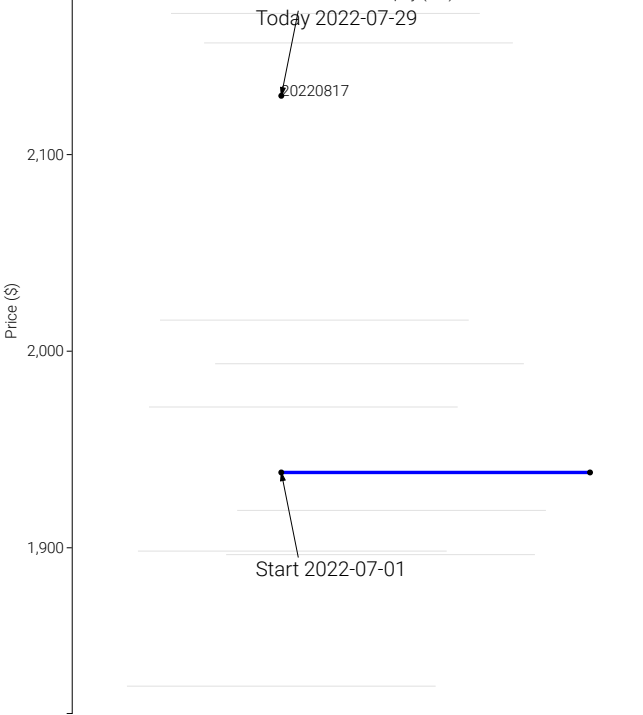
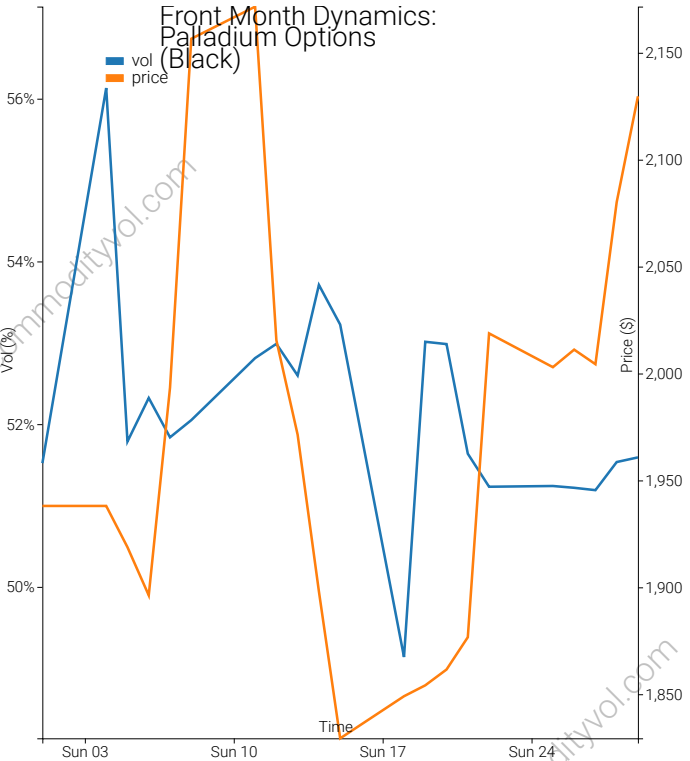
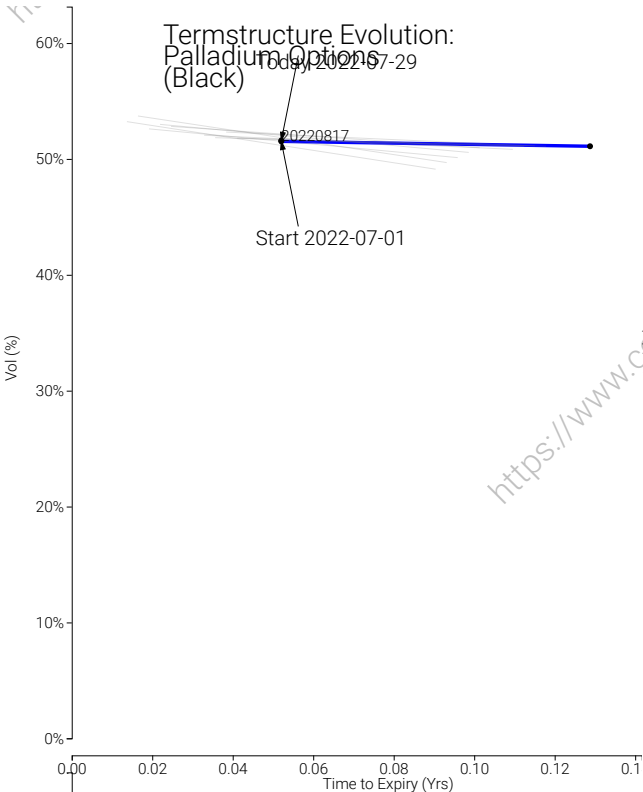
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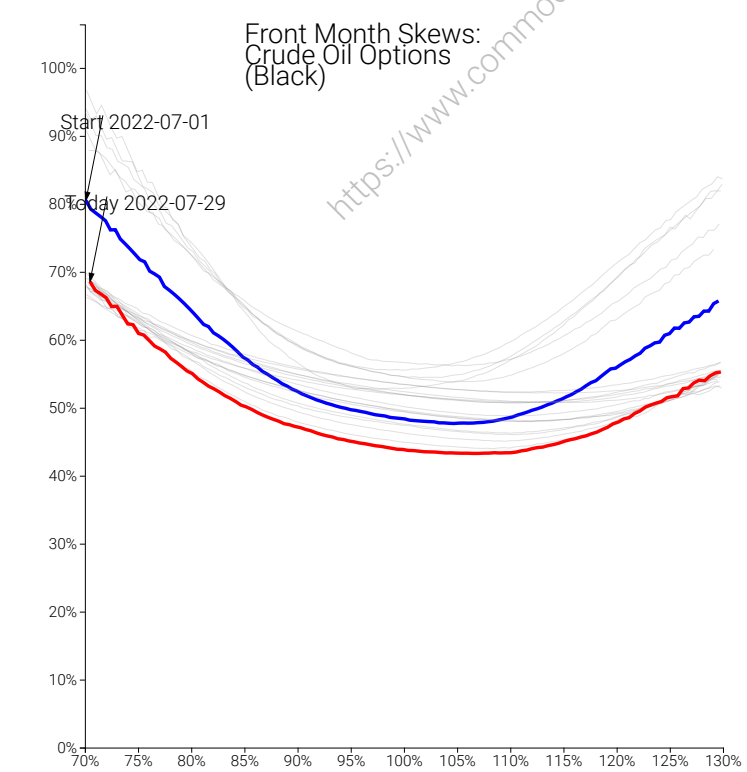
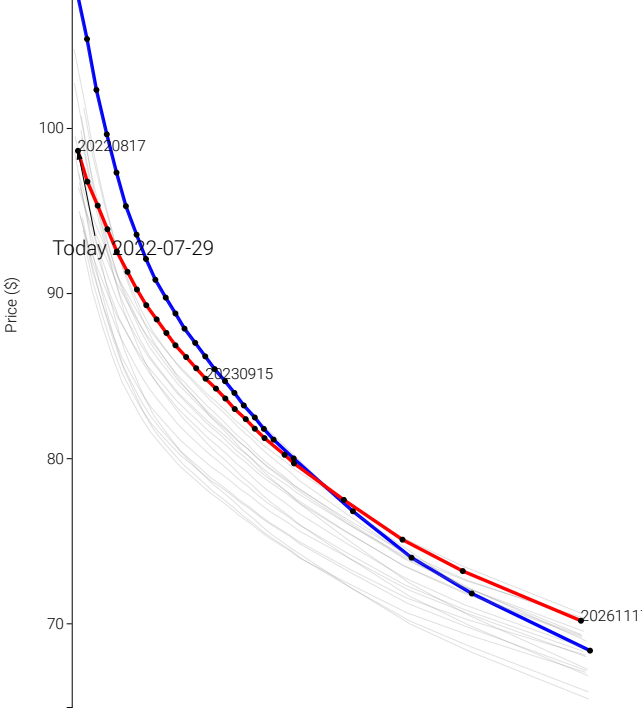
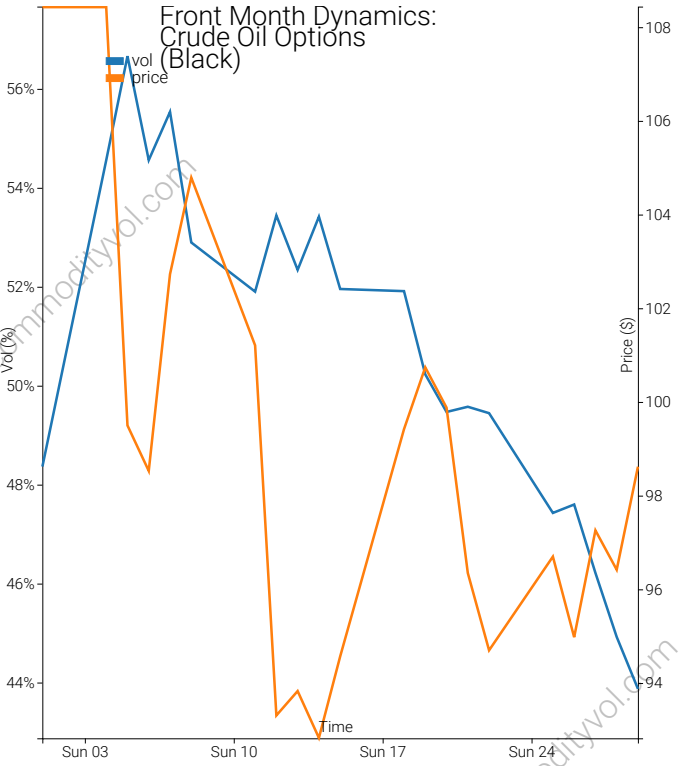
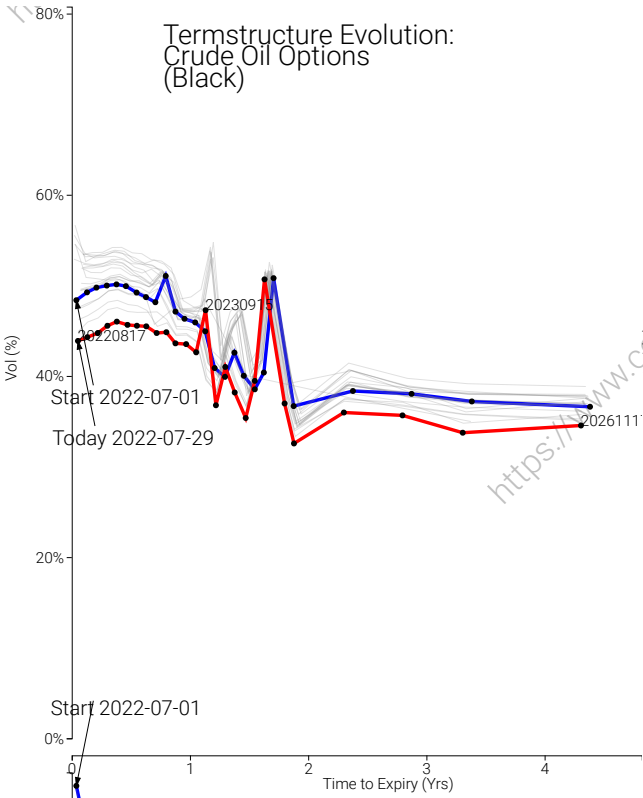


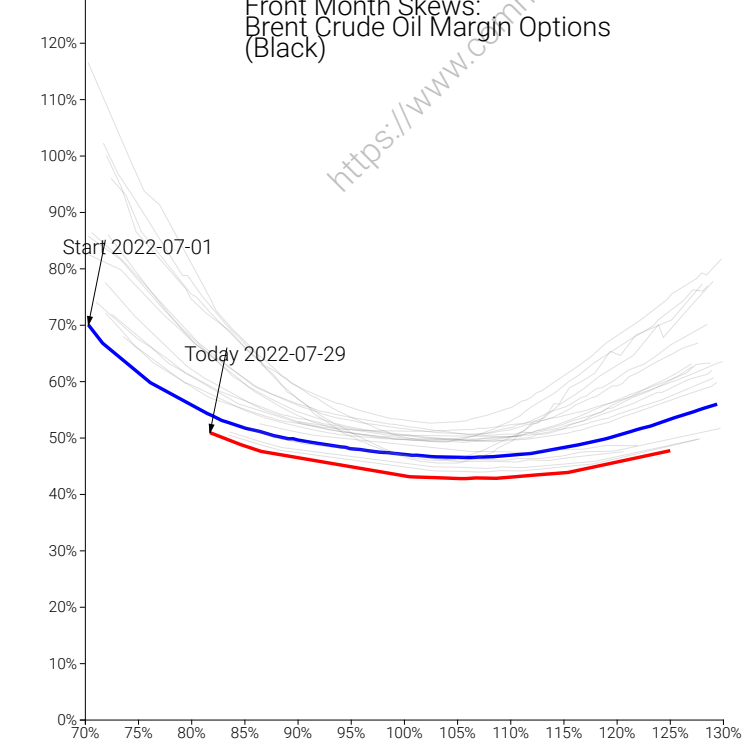
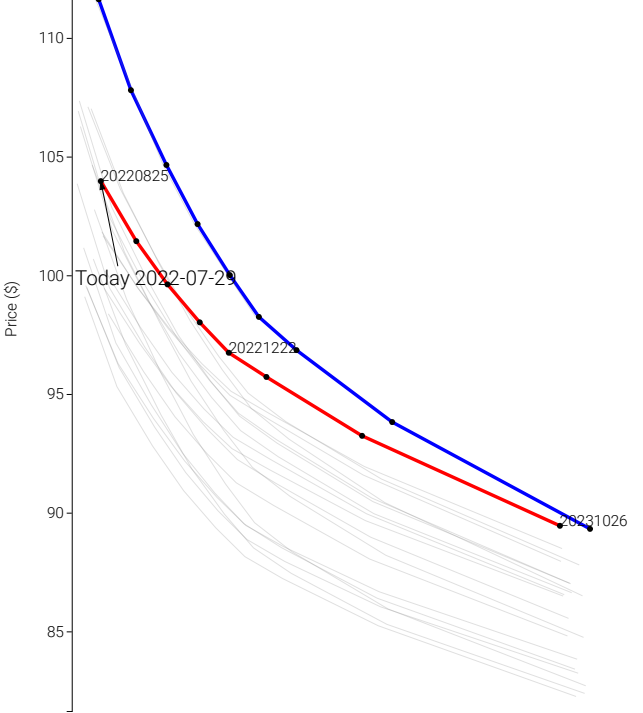
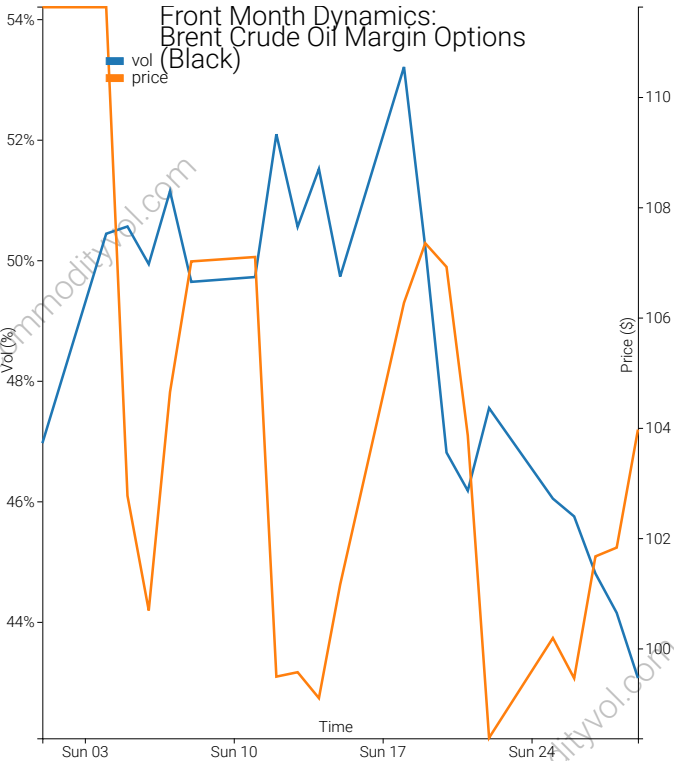
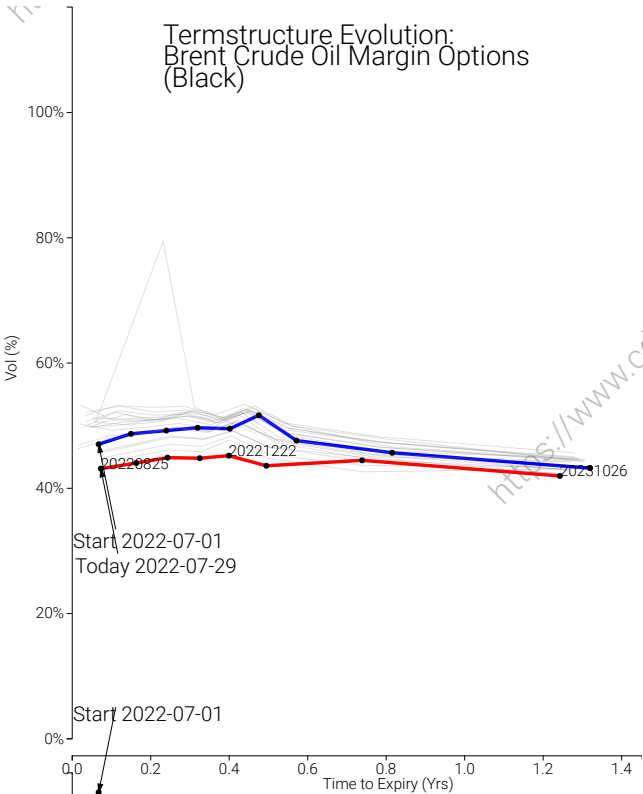


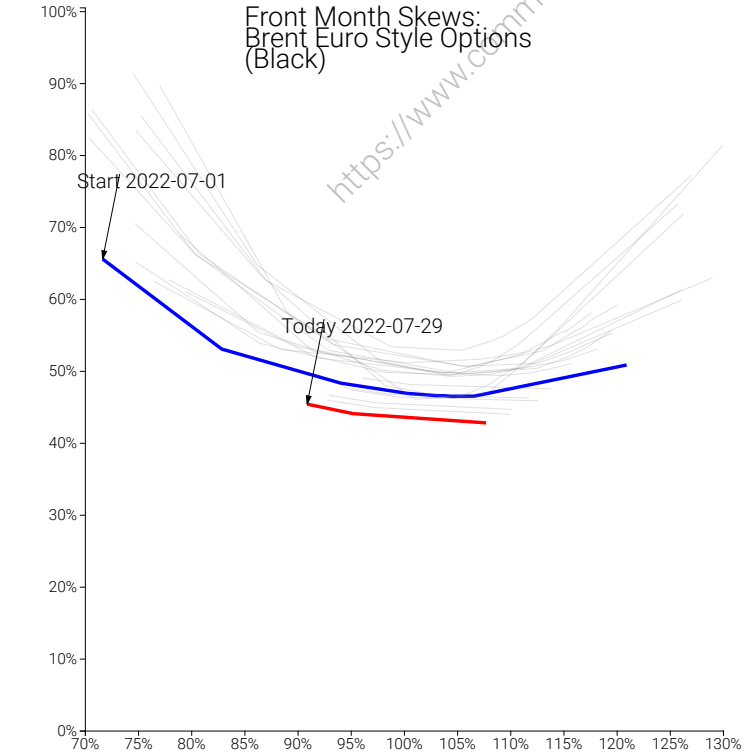
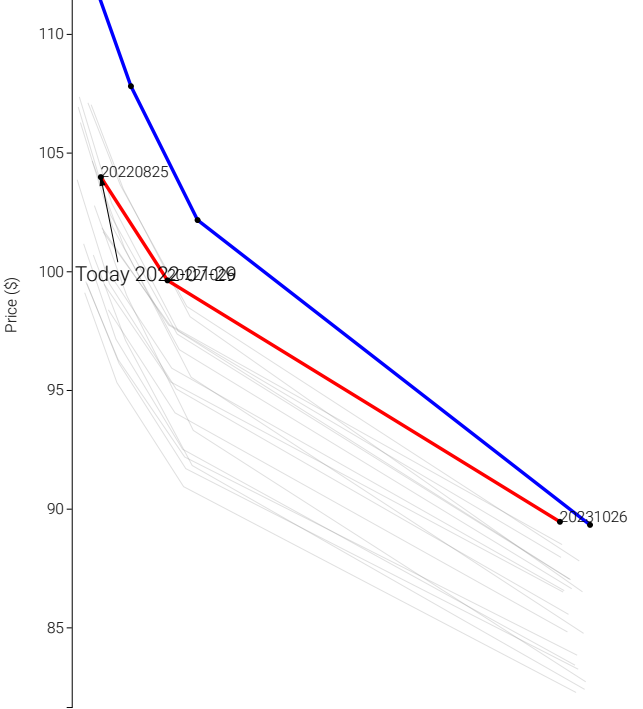
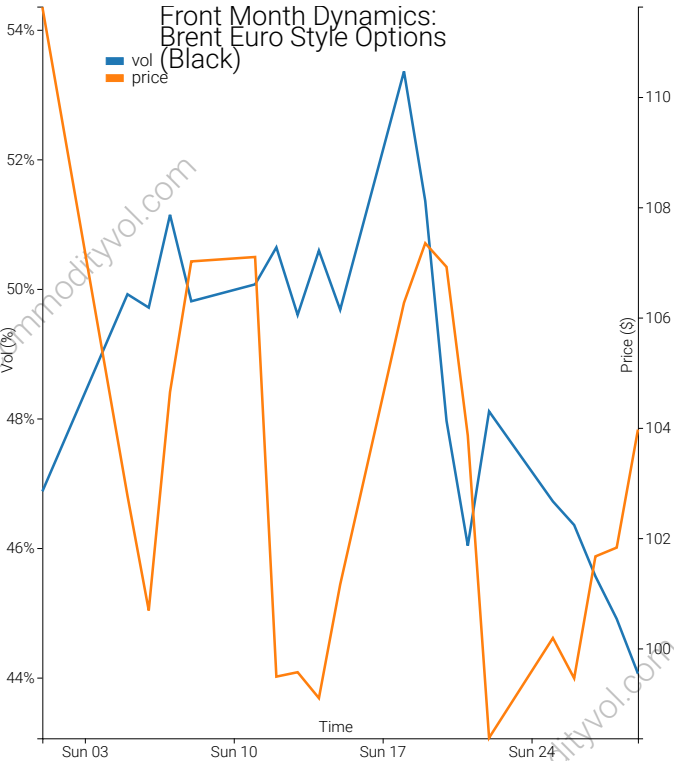
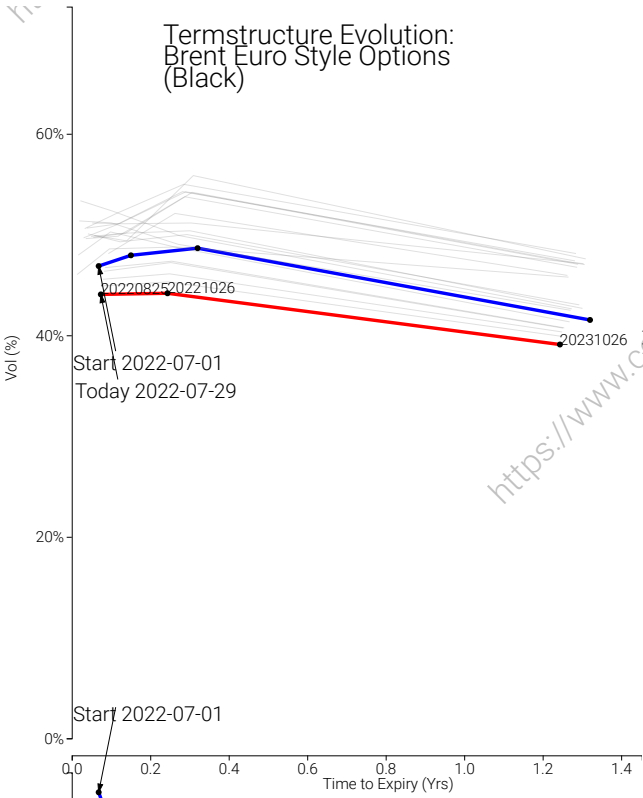


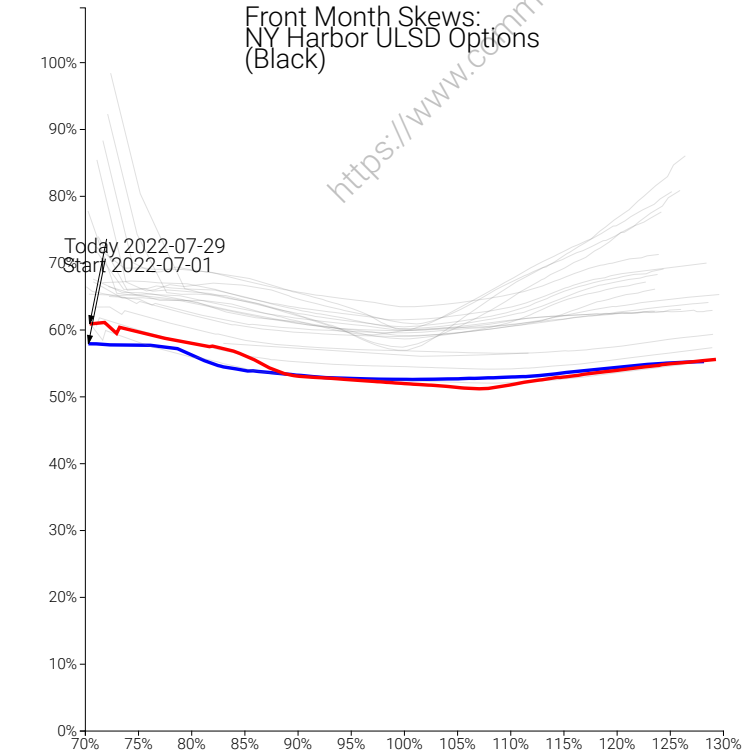
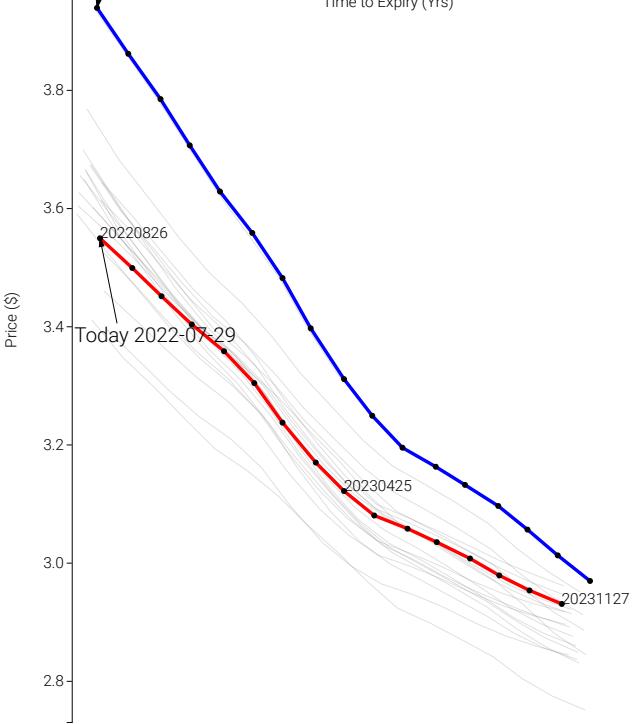
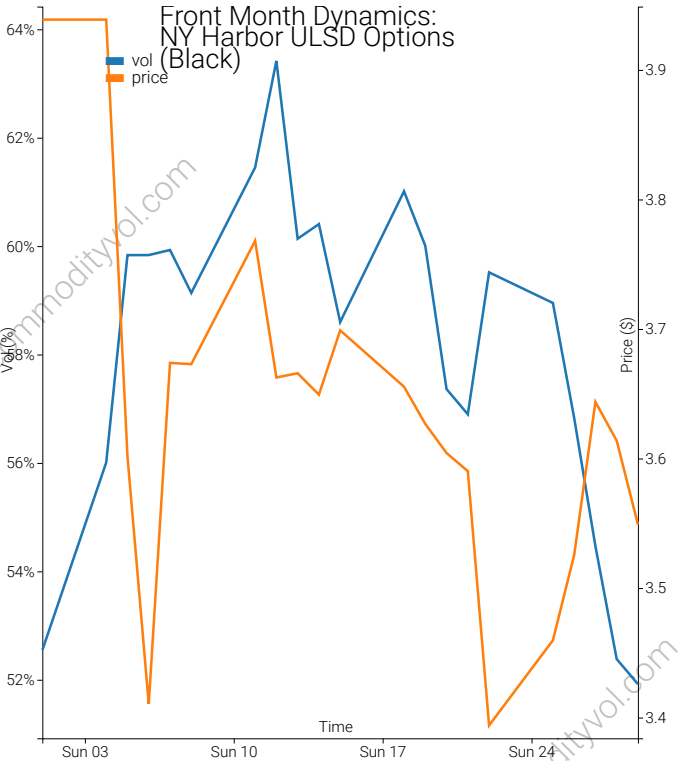
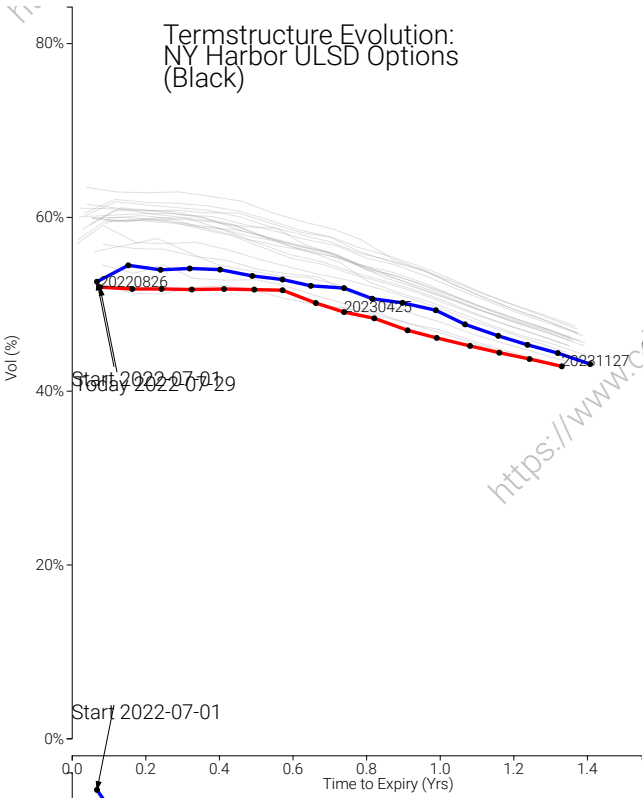


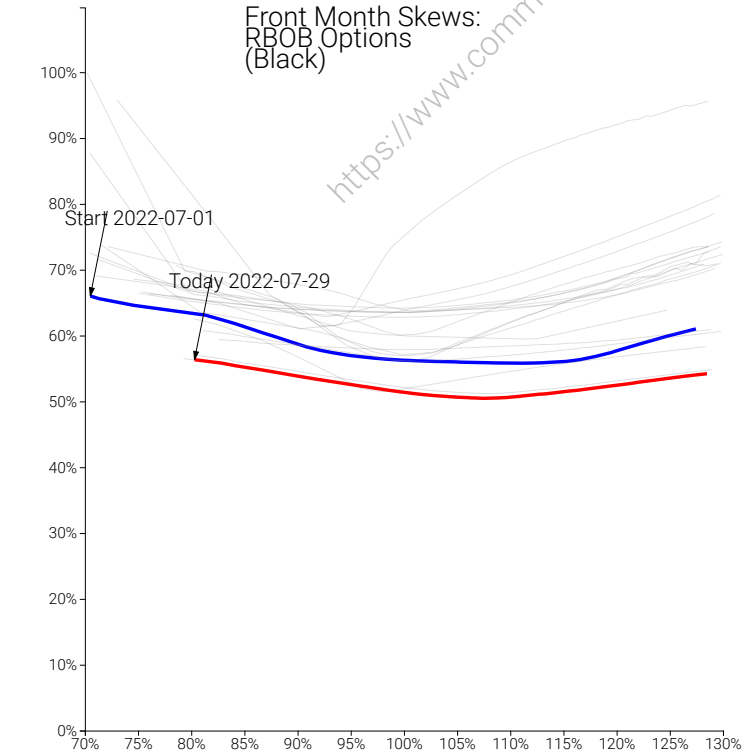
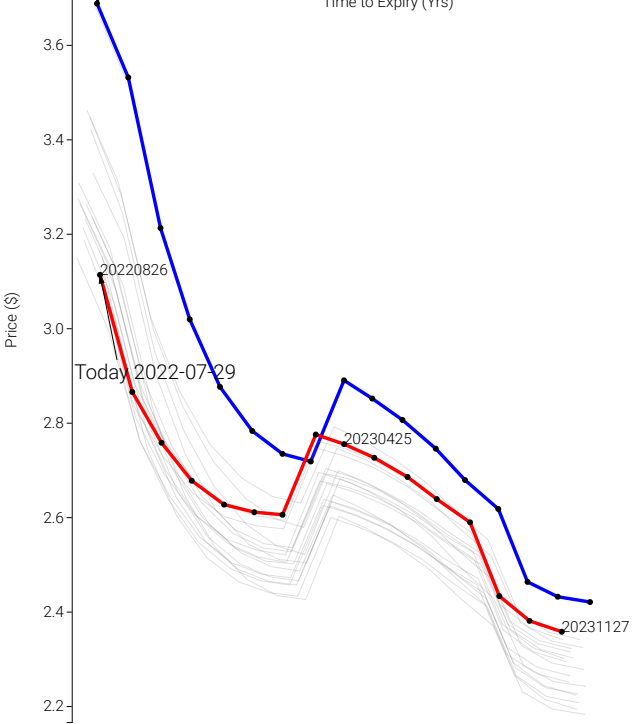
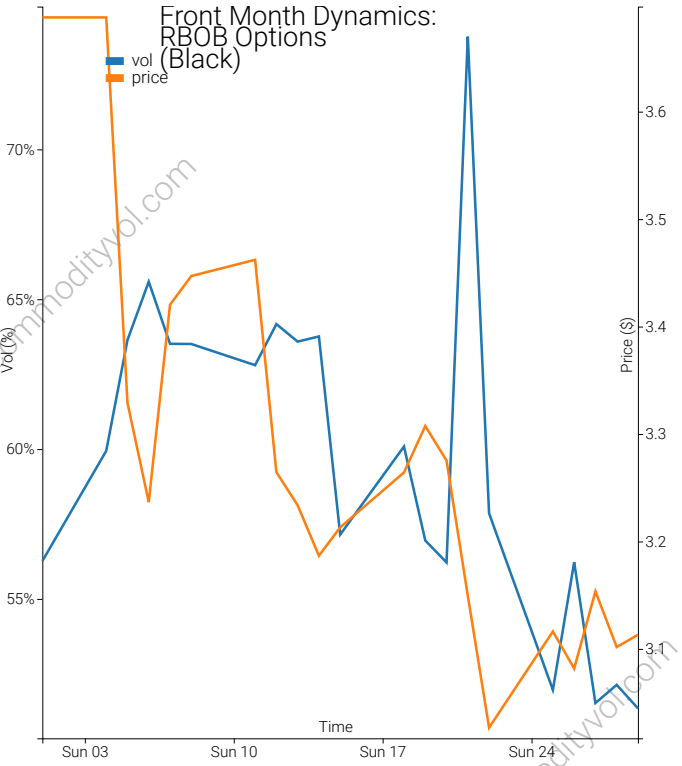
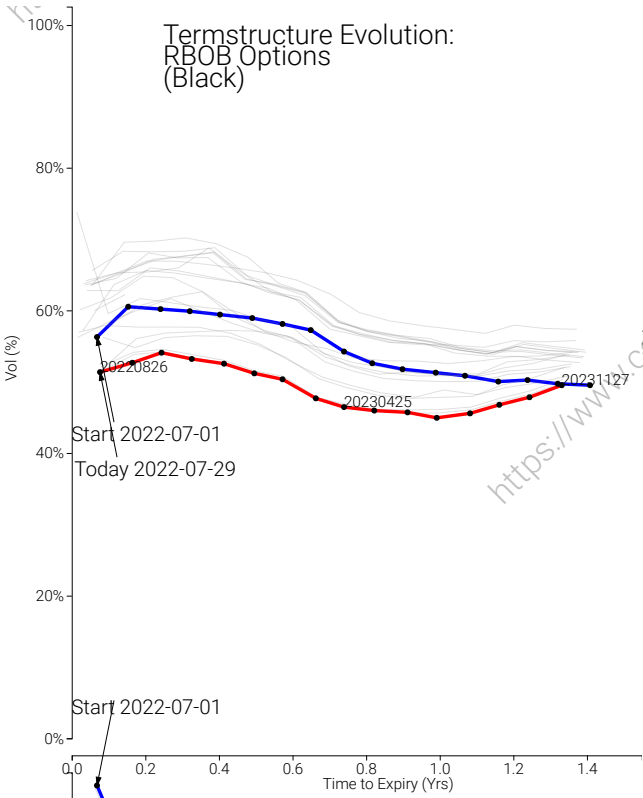
Energy: Crude and Derivatives

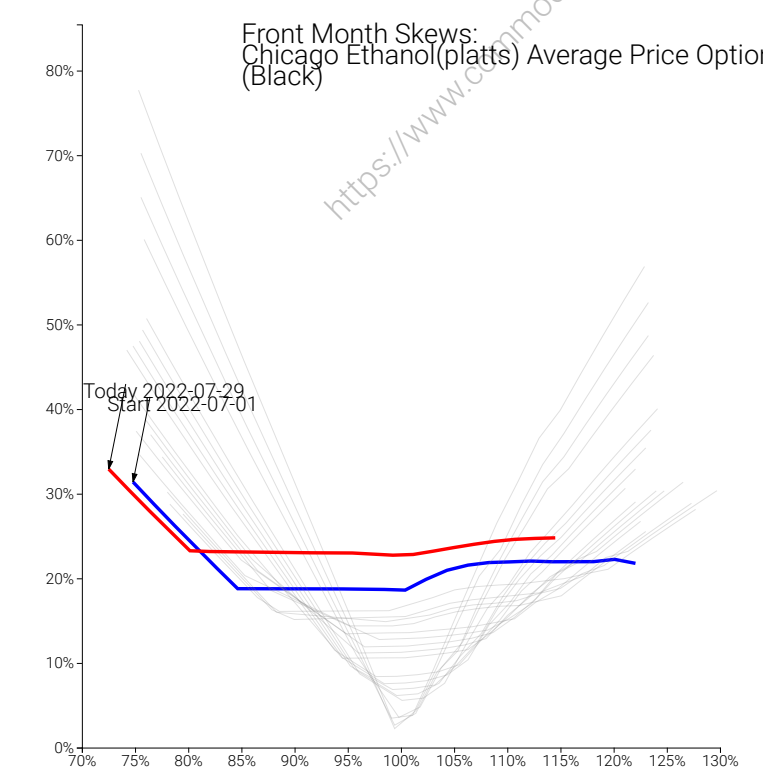
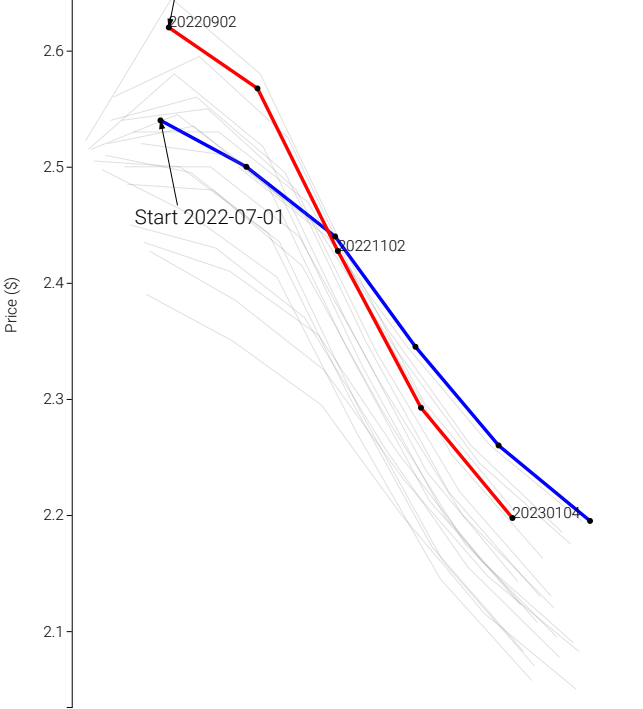
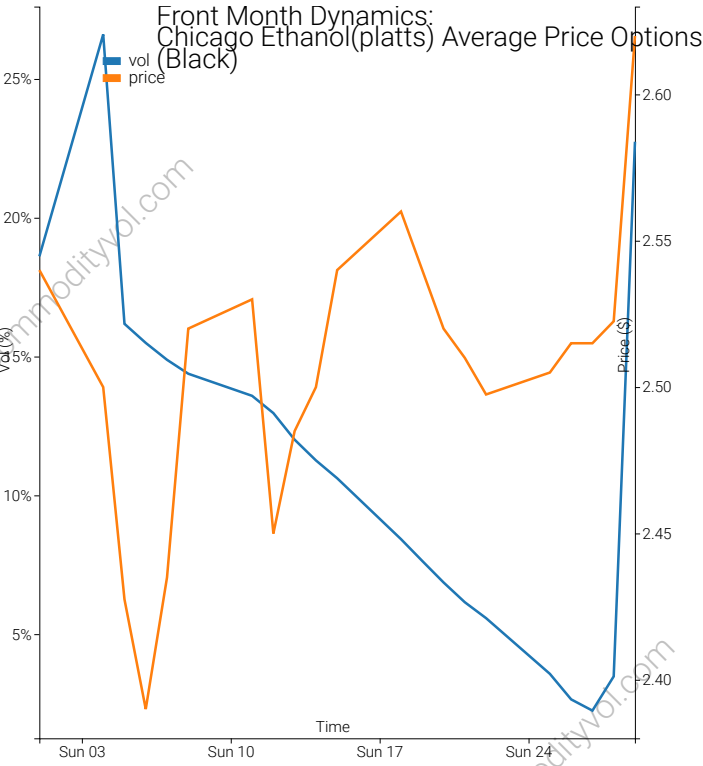
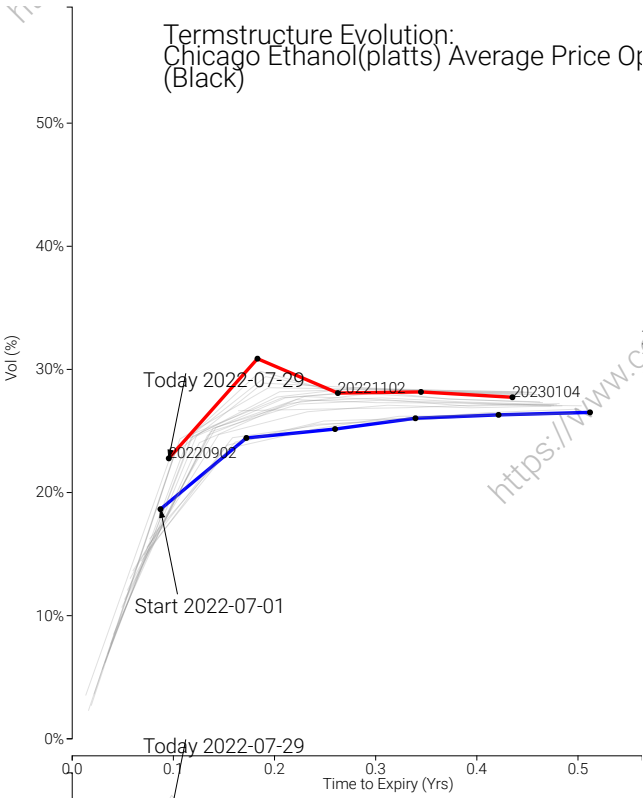




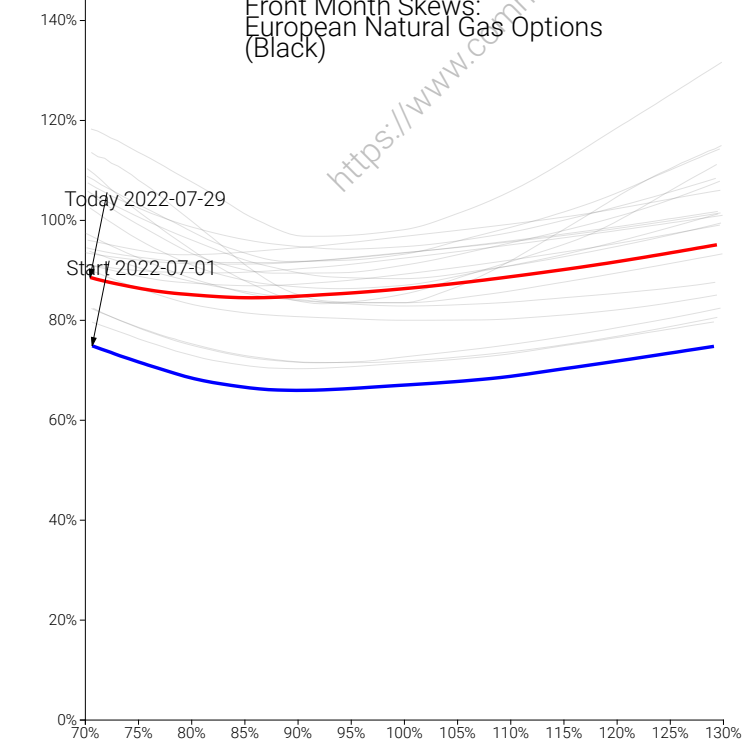
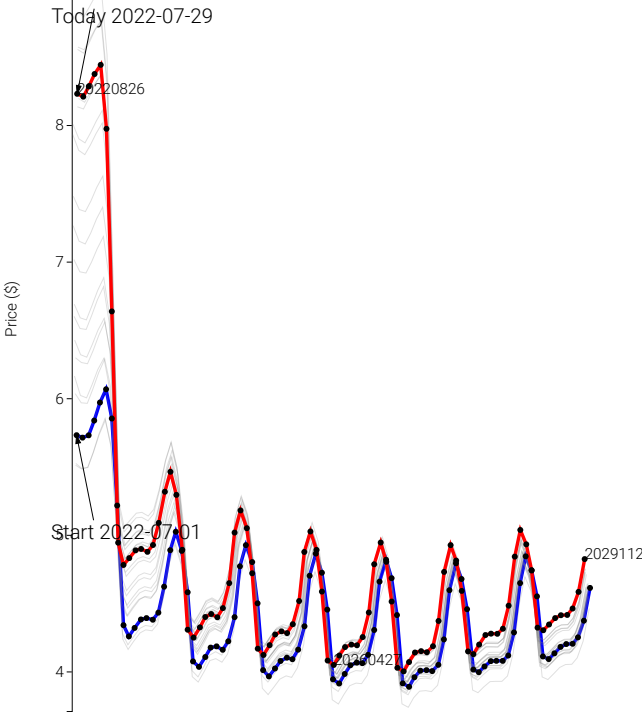
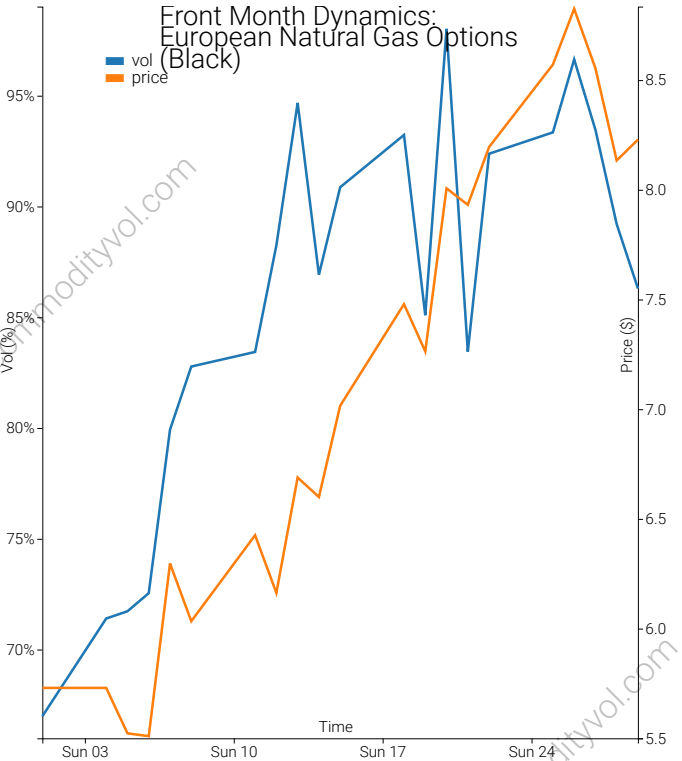
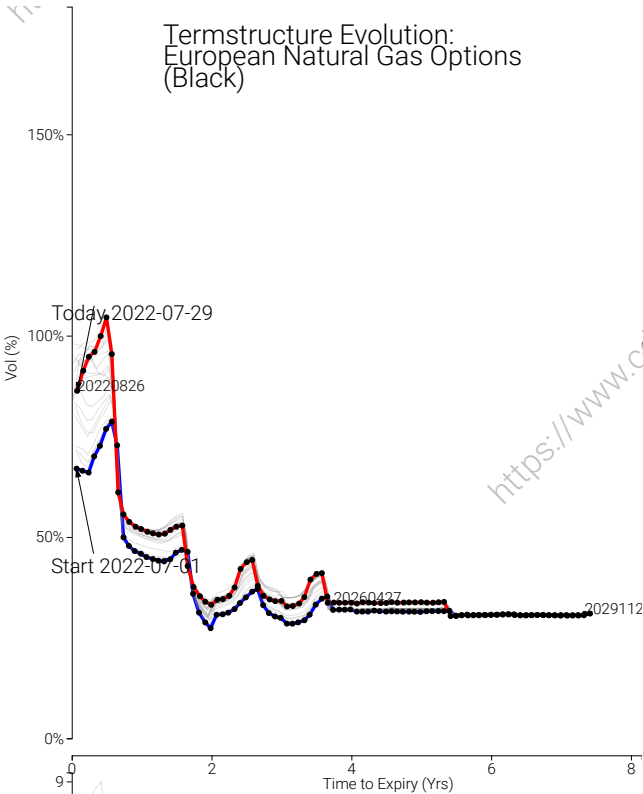


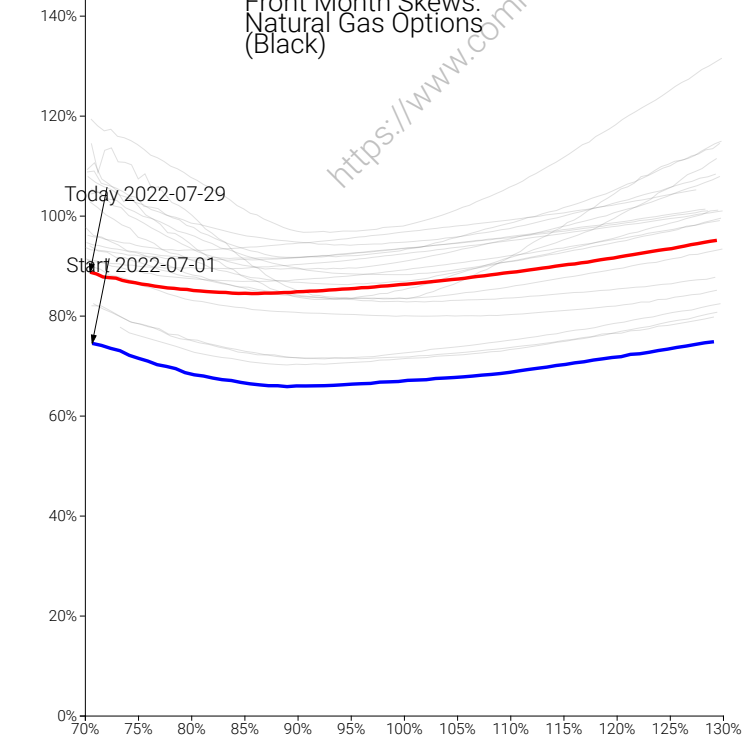
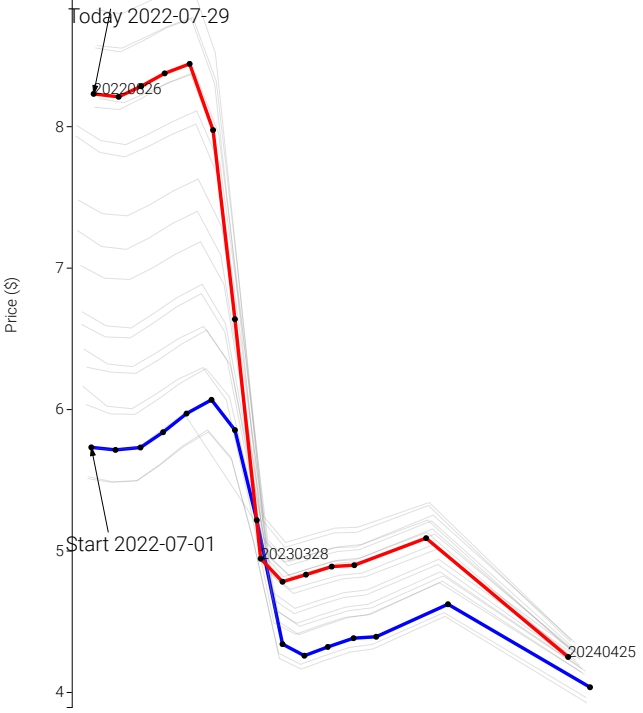
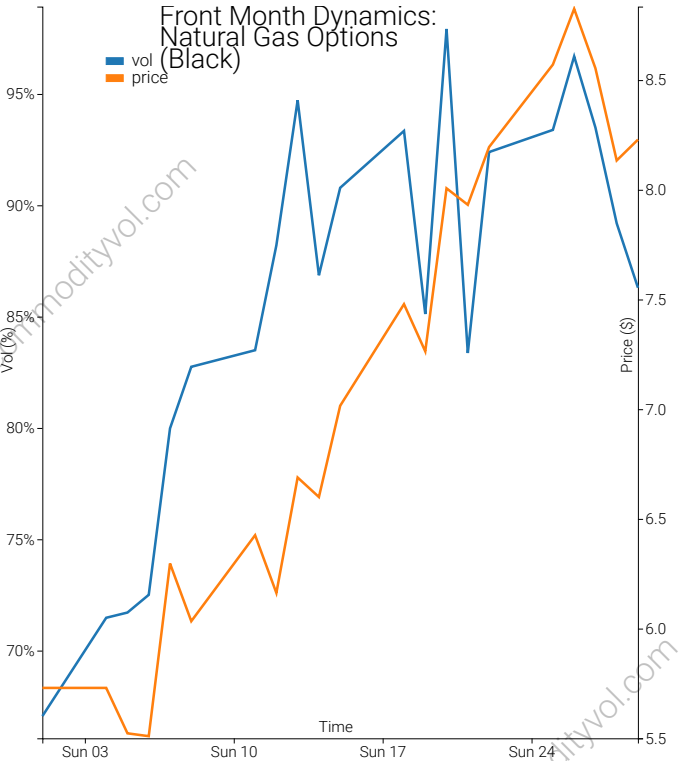
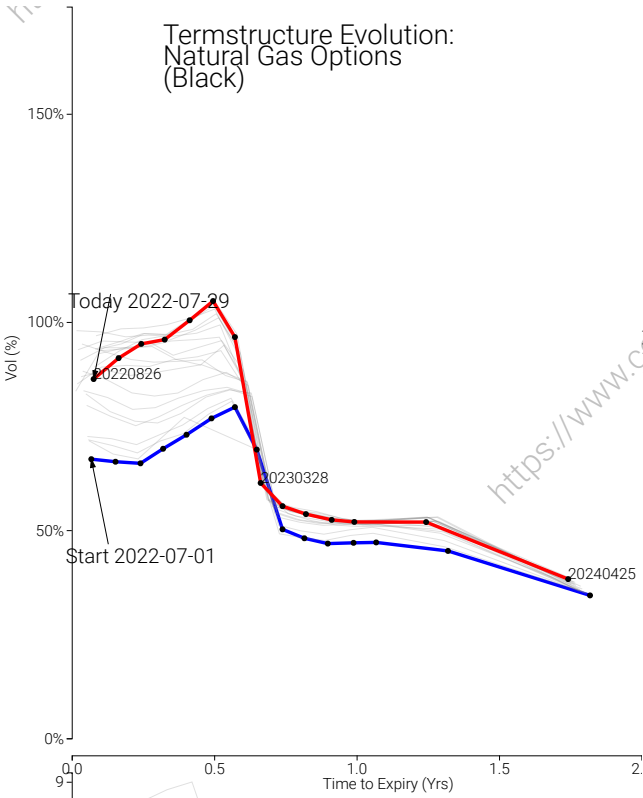


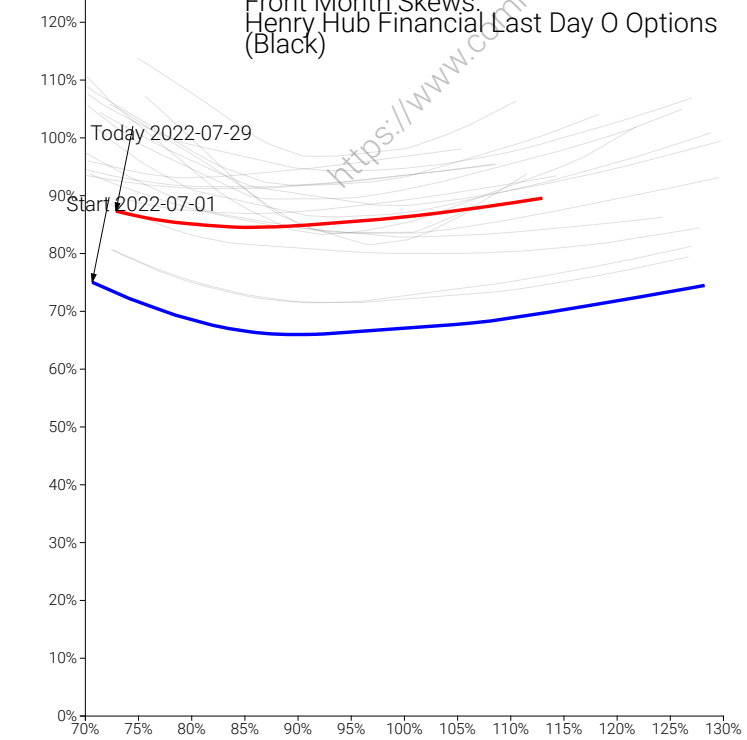
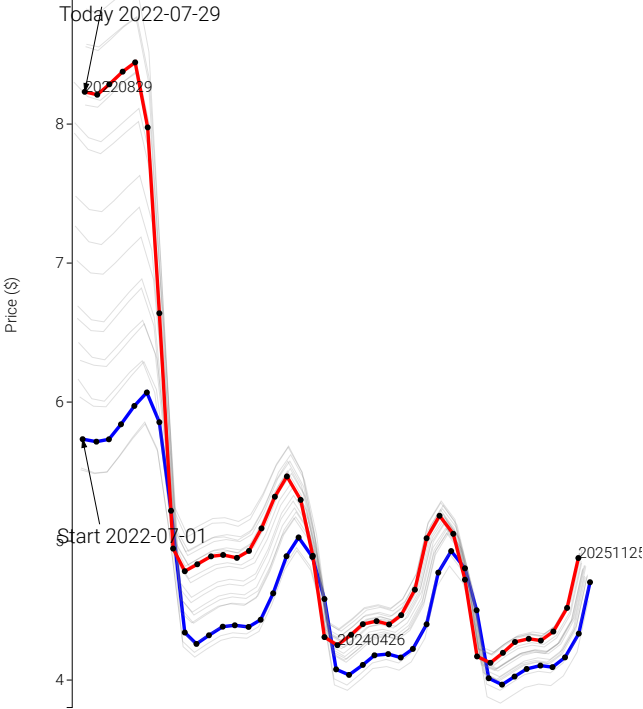
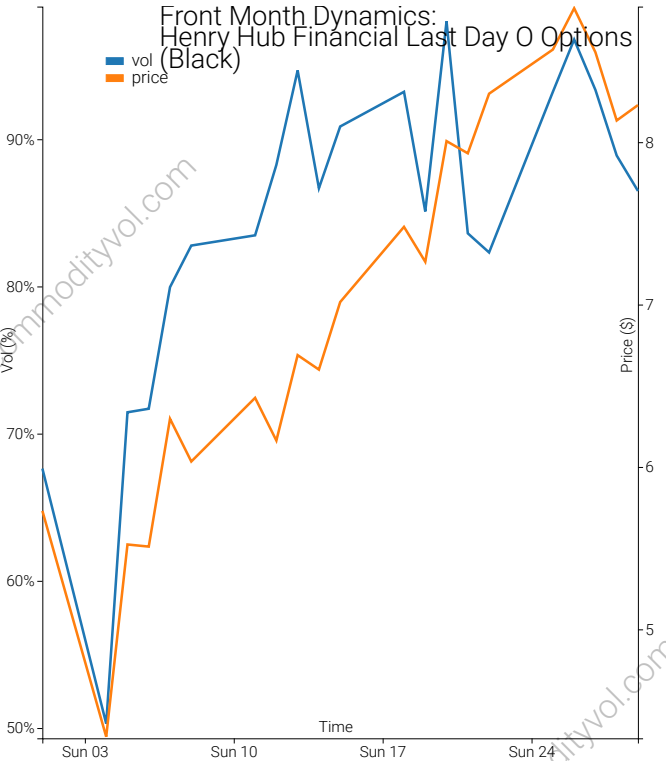
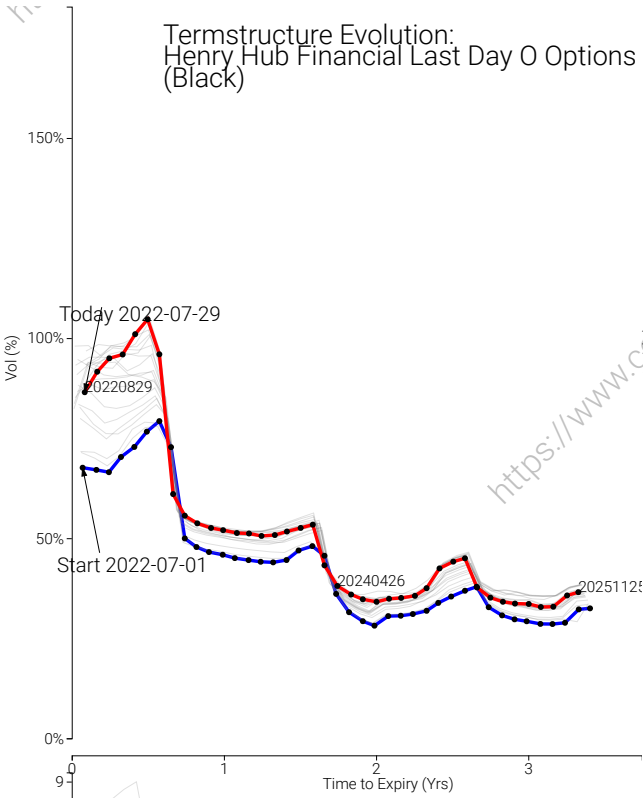


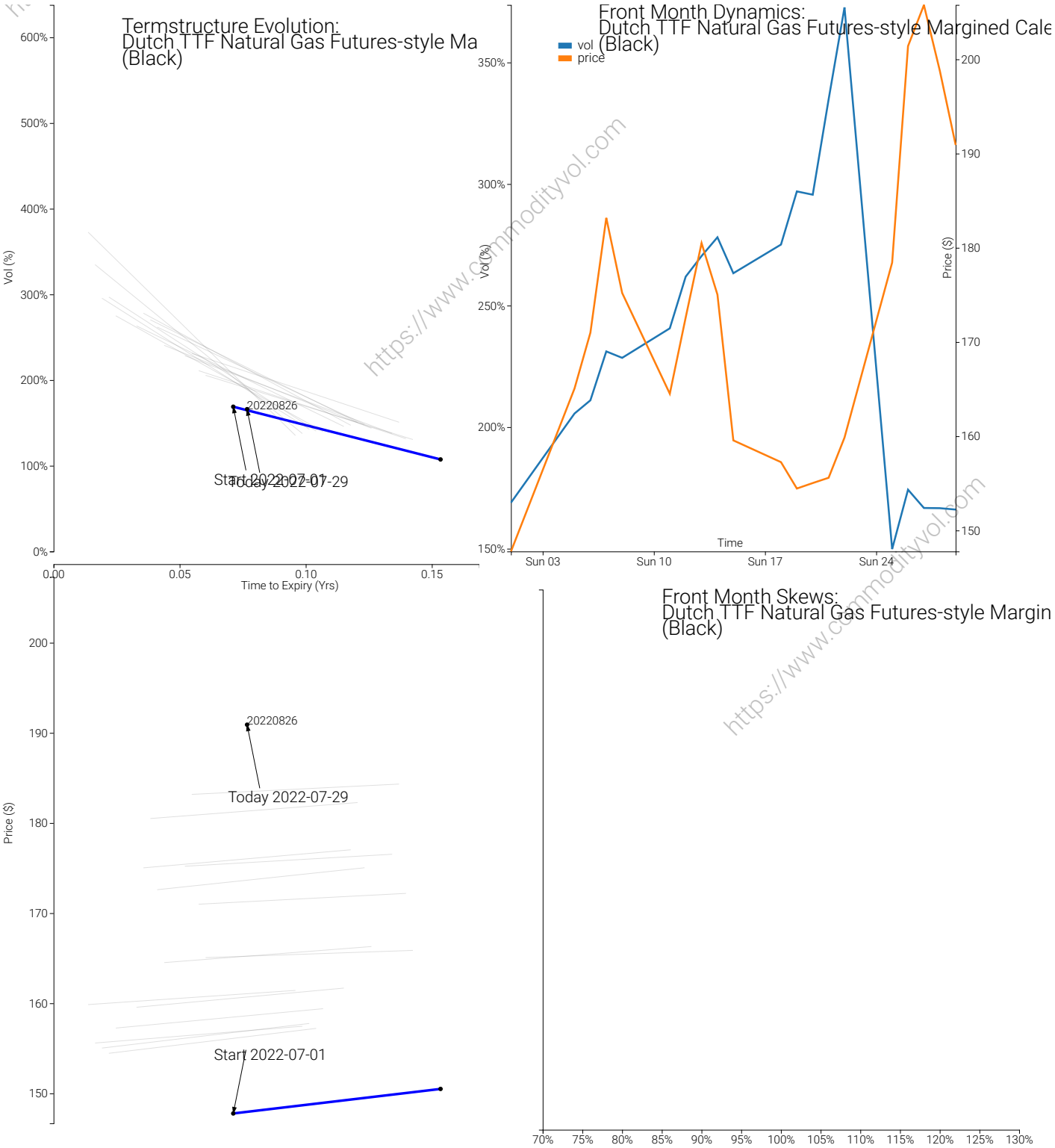


Energy: Natural Gas

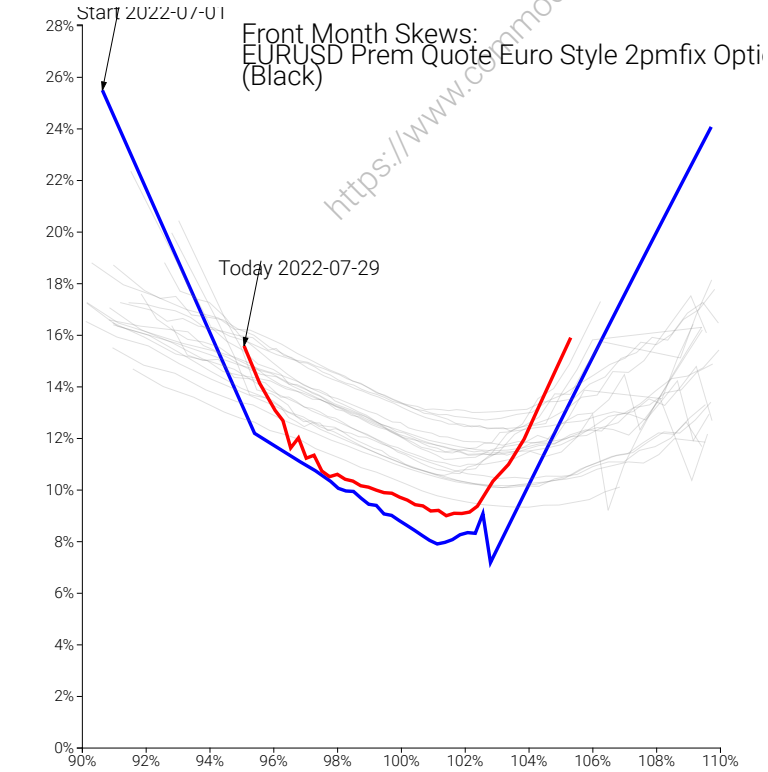
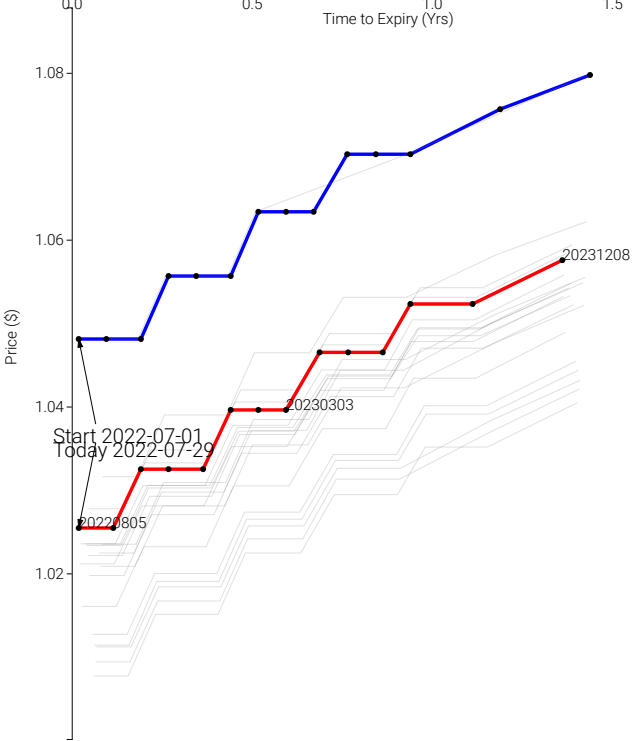
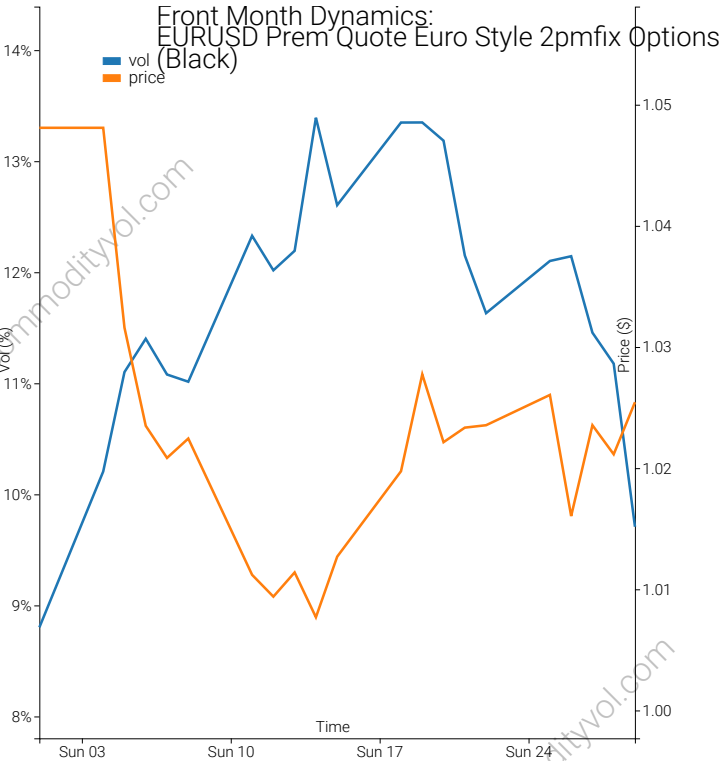
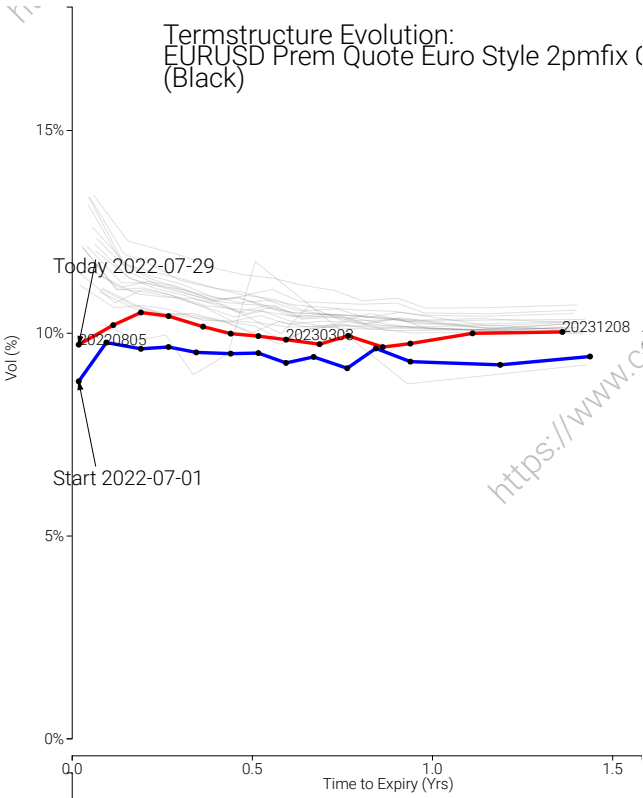


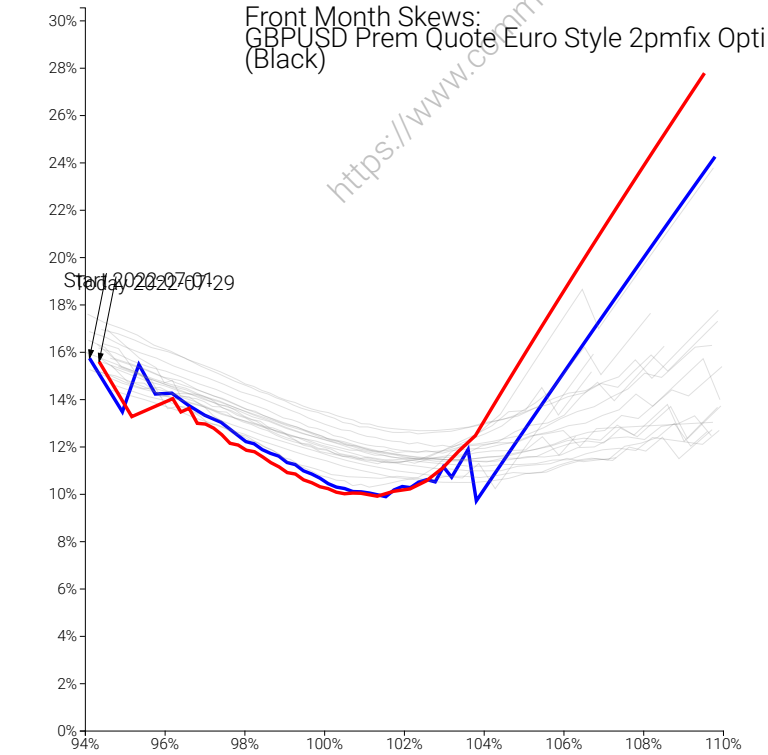
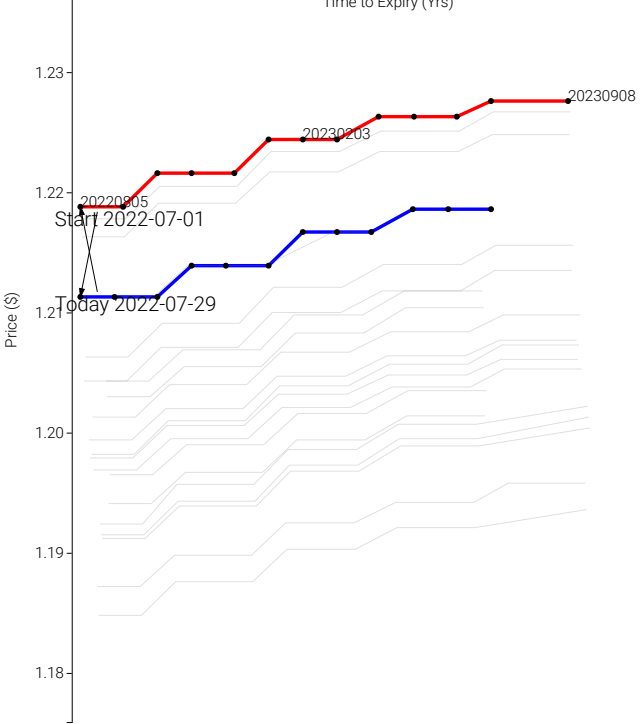
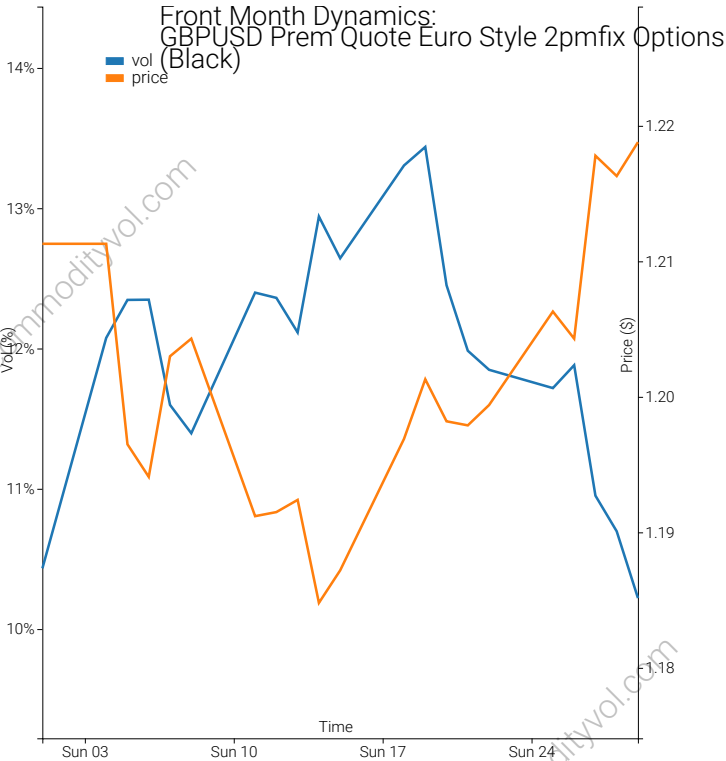
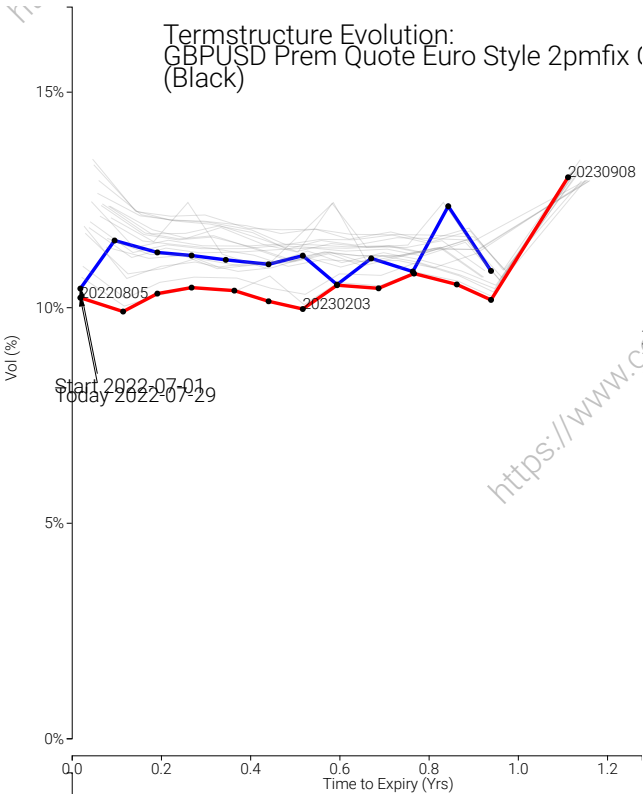


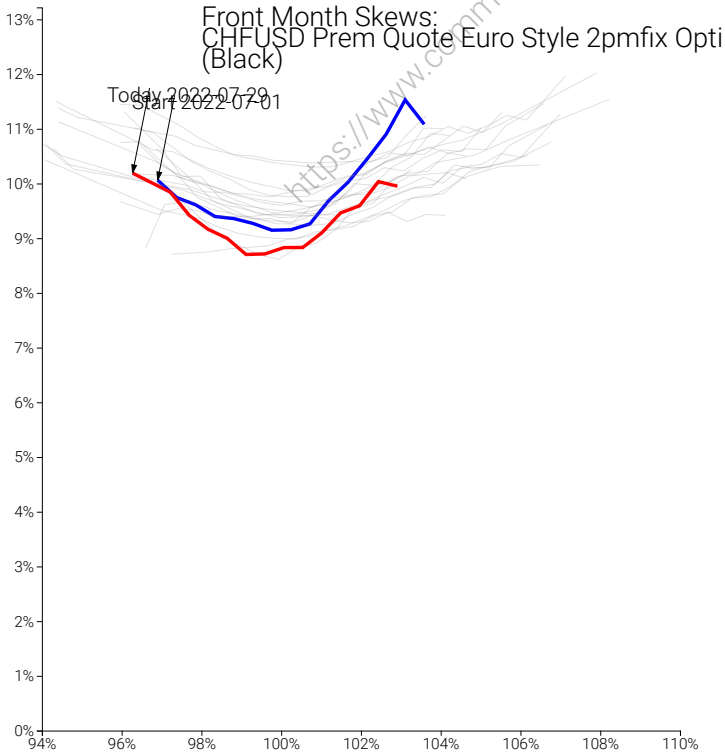
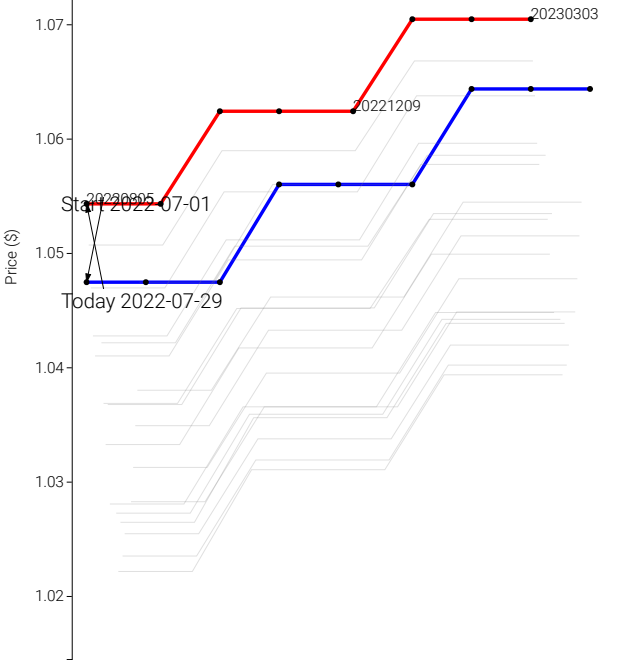
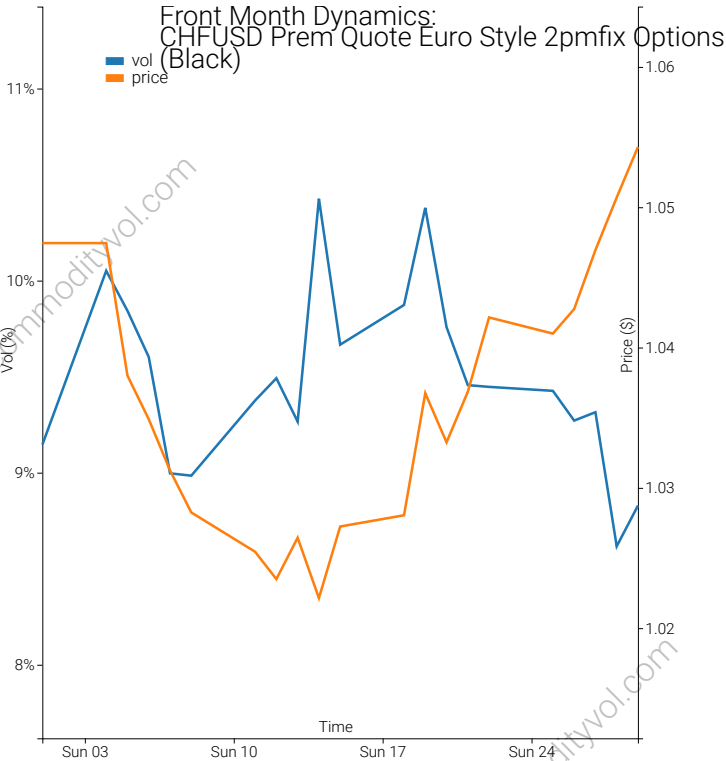
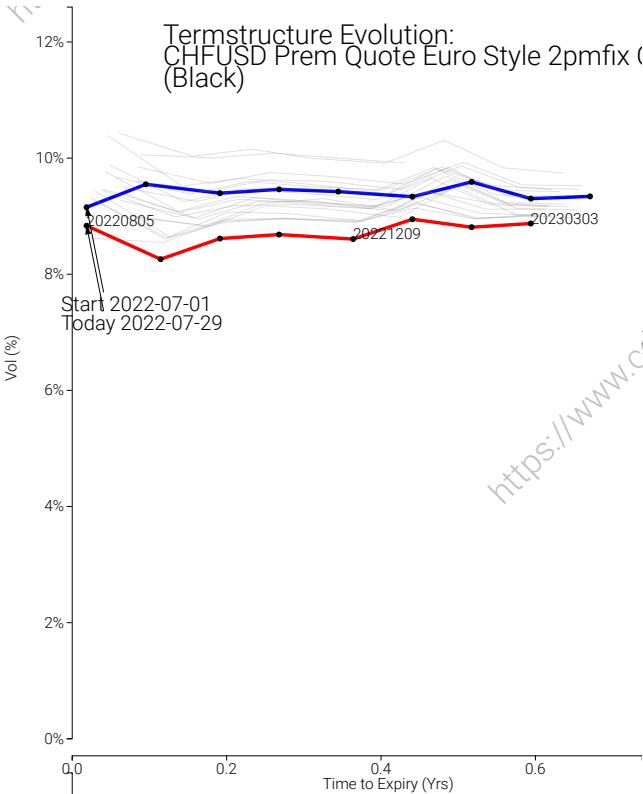


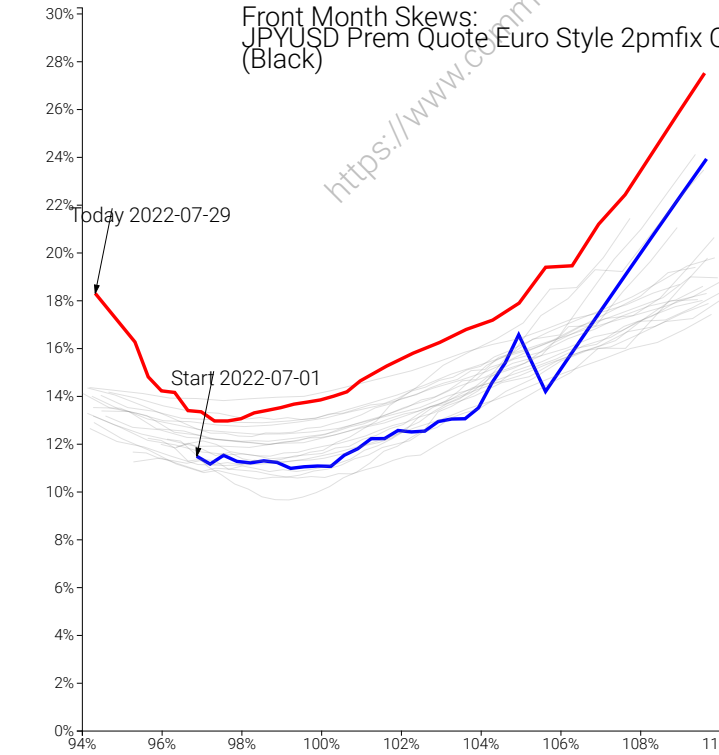
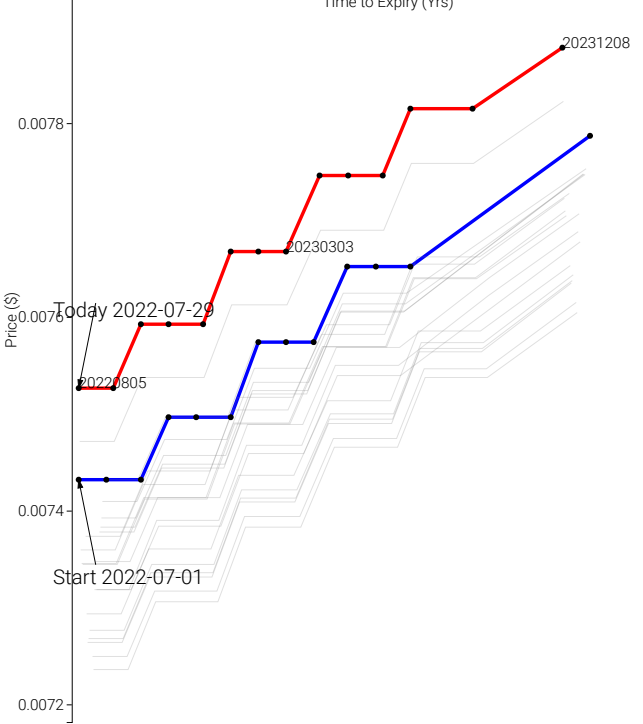
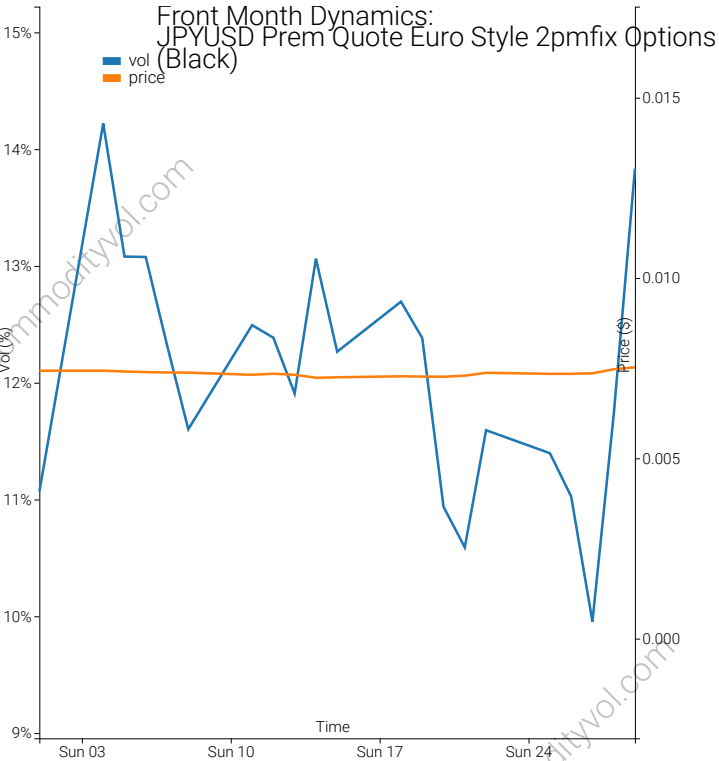
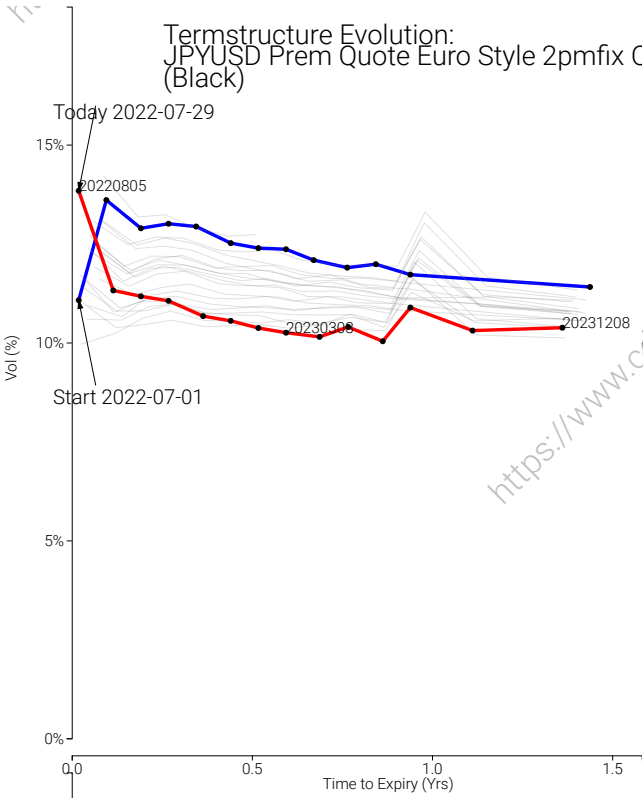


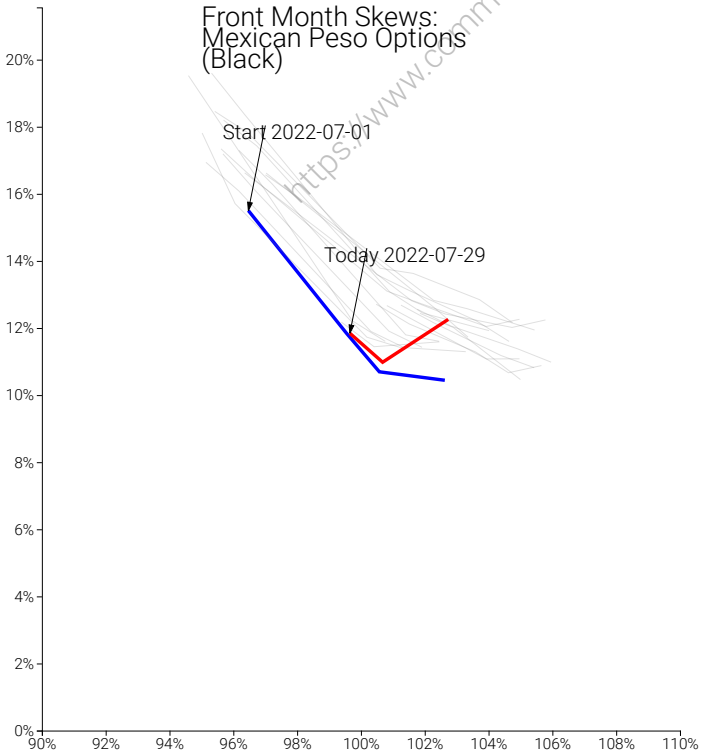
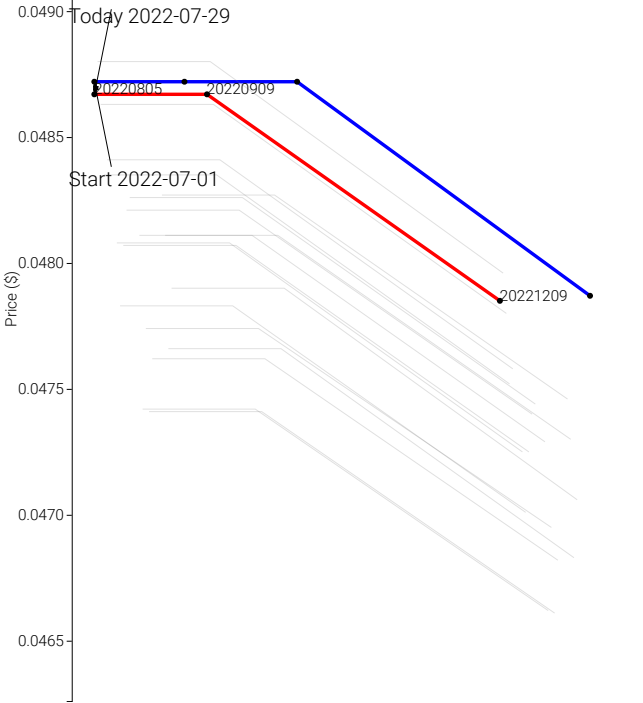
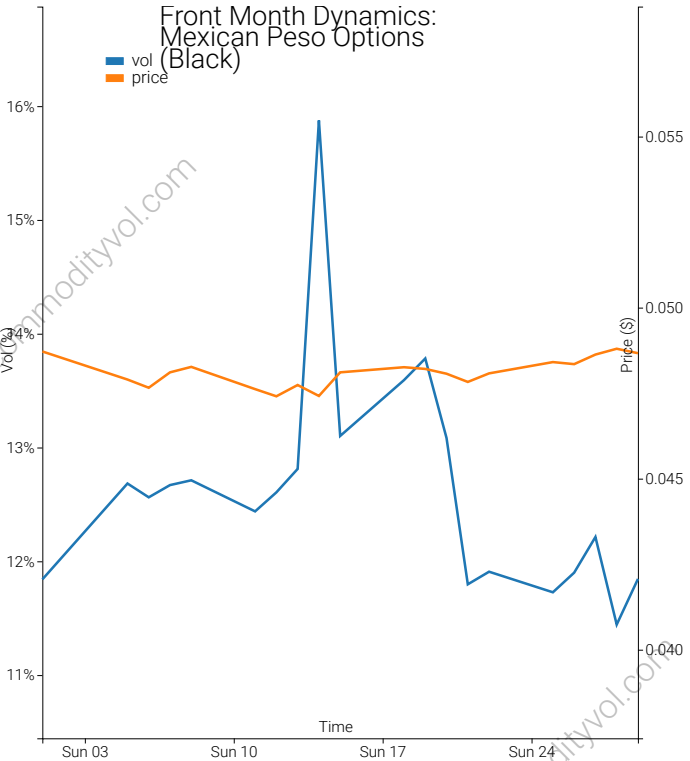
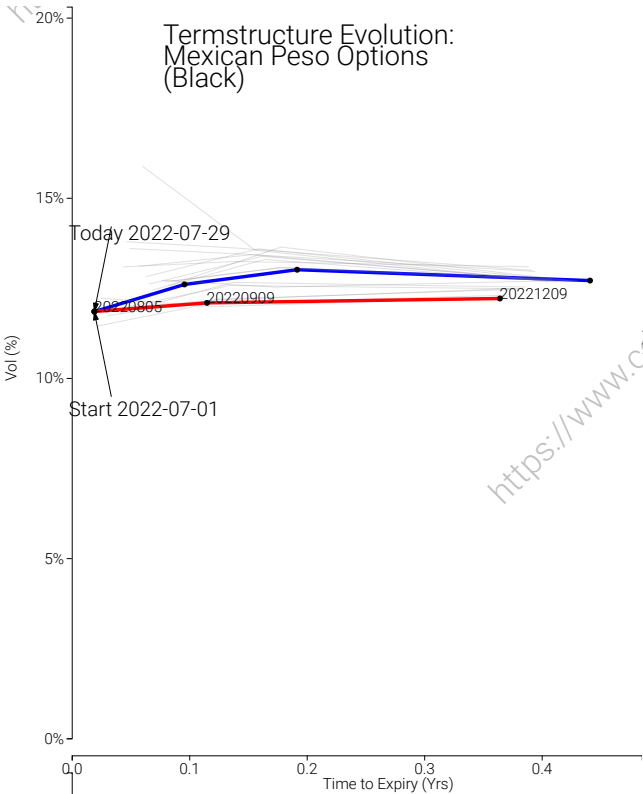
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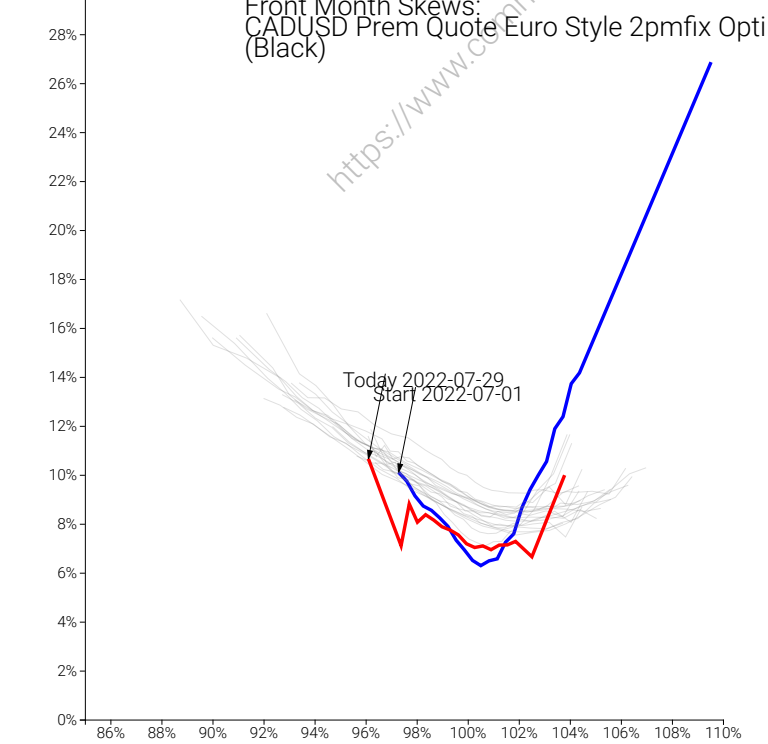
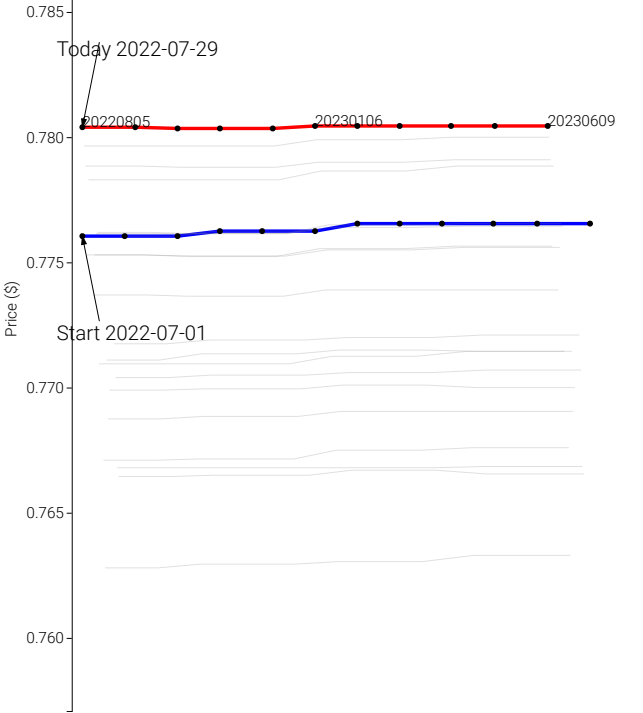
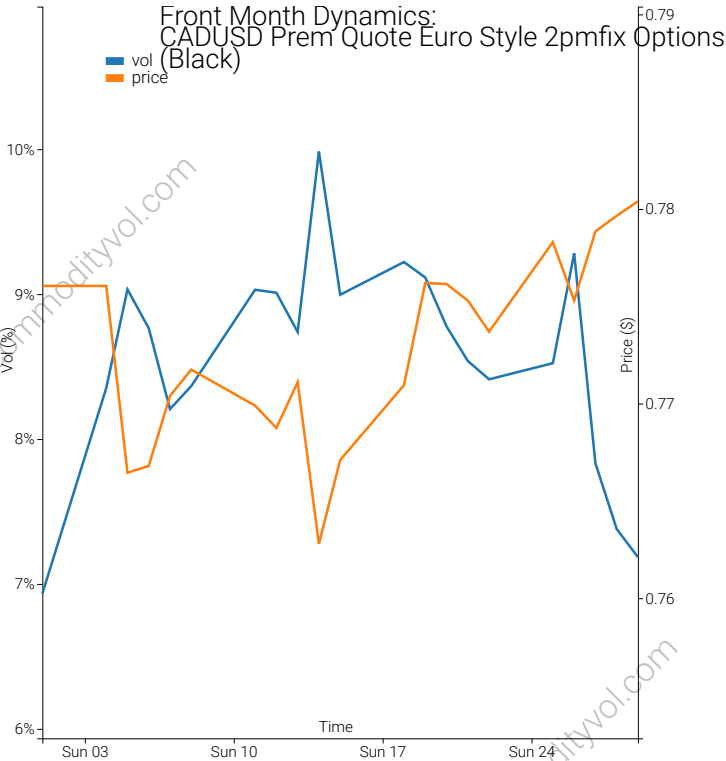
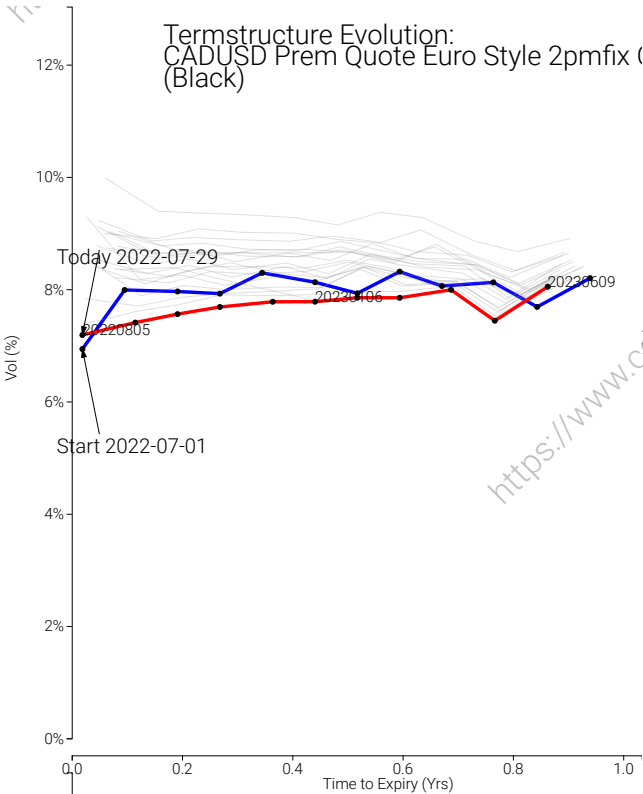


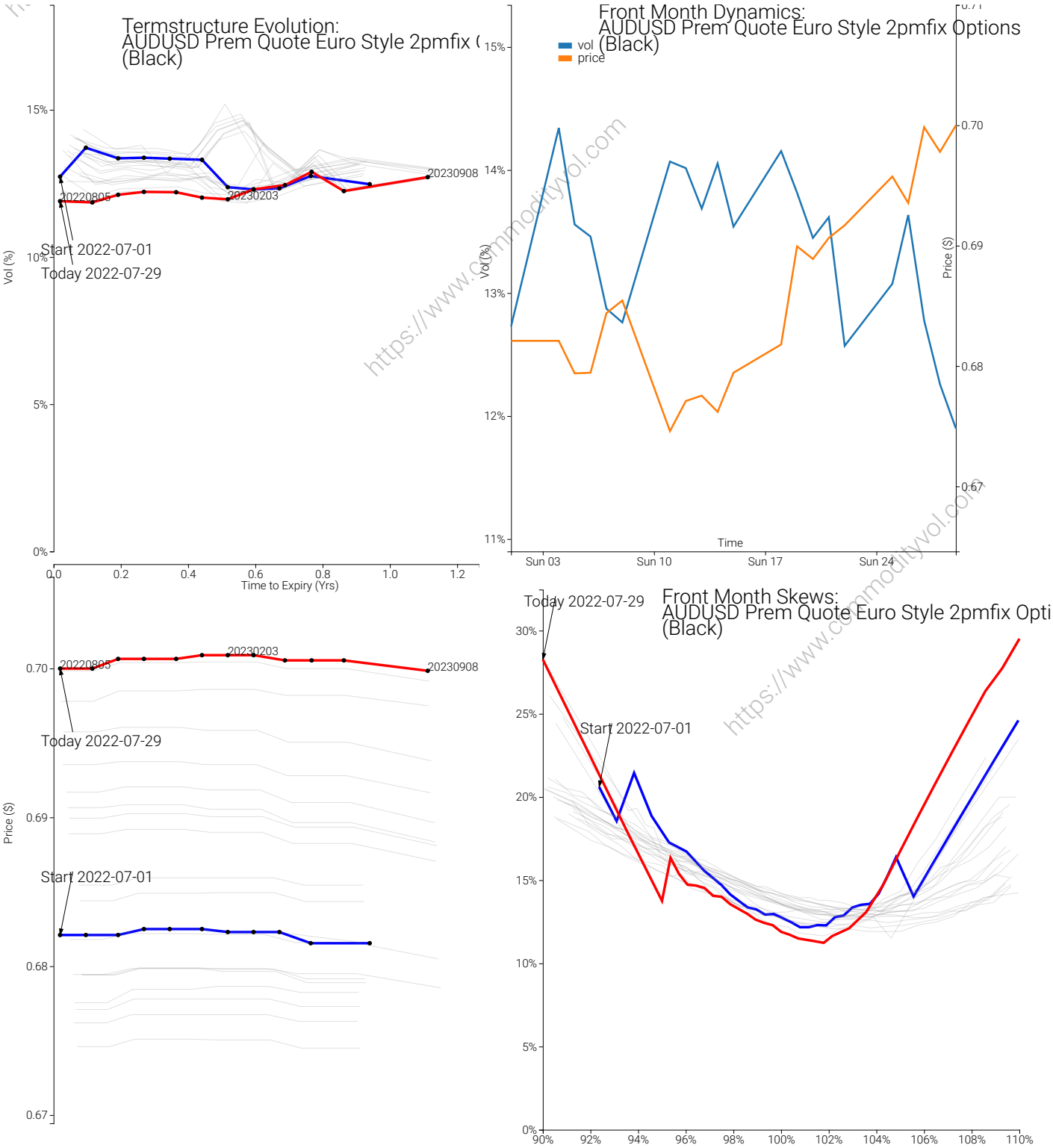


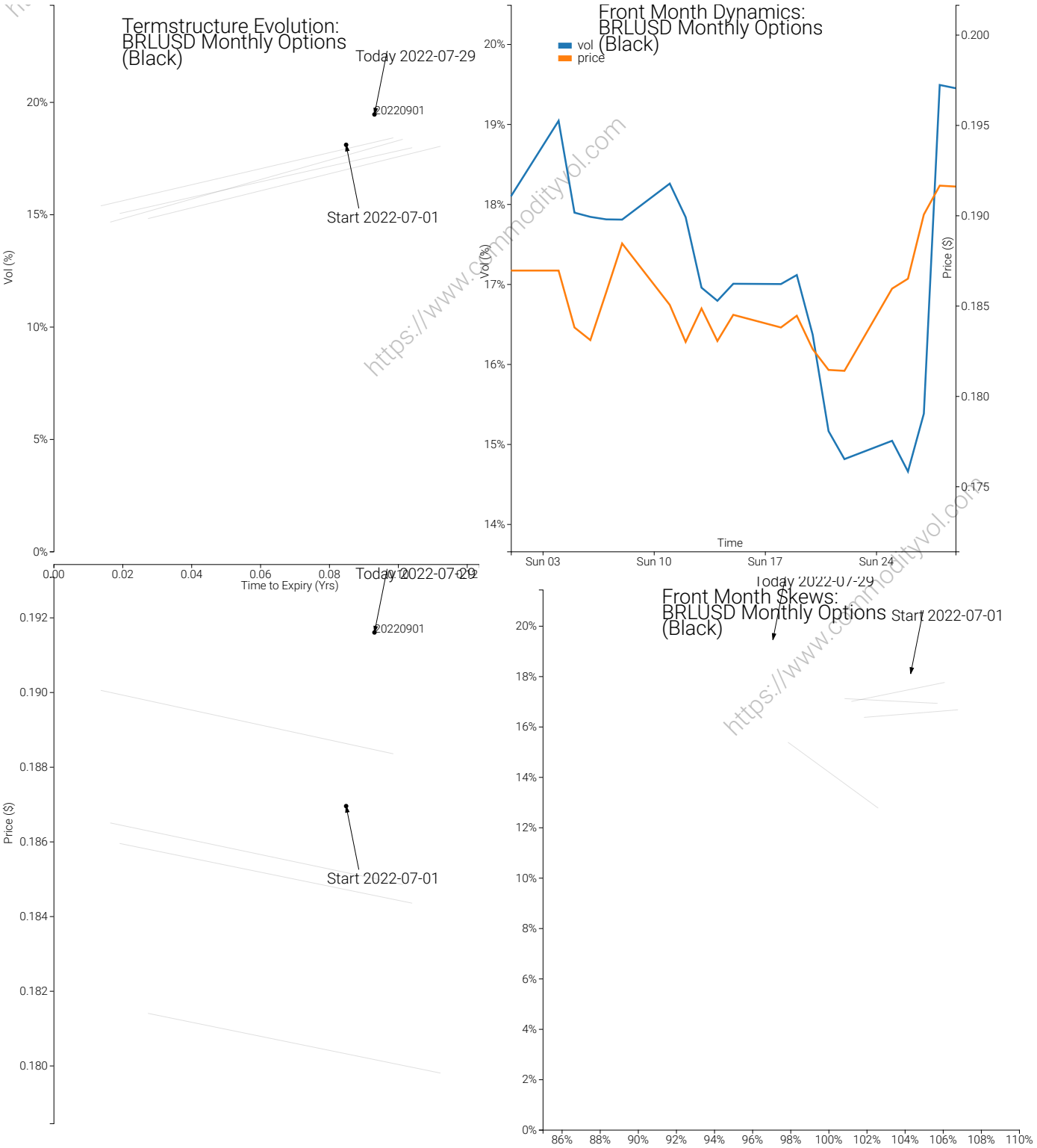


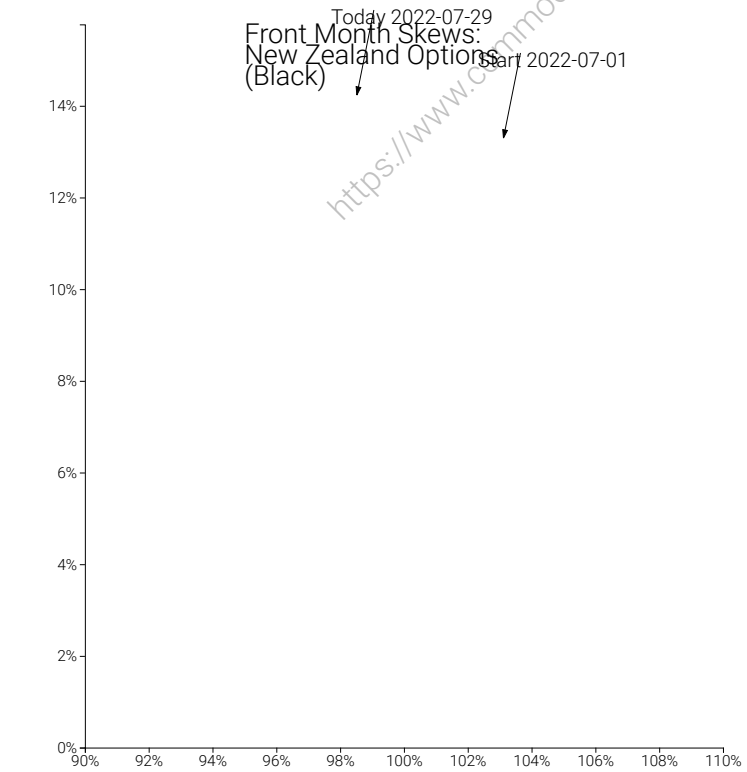
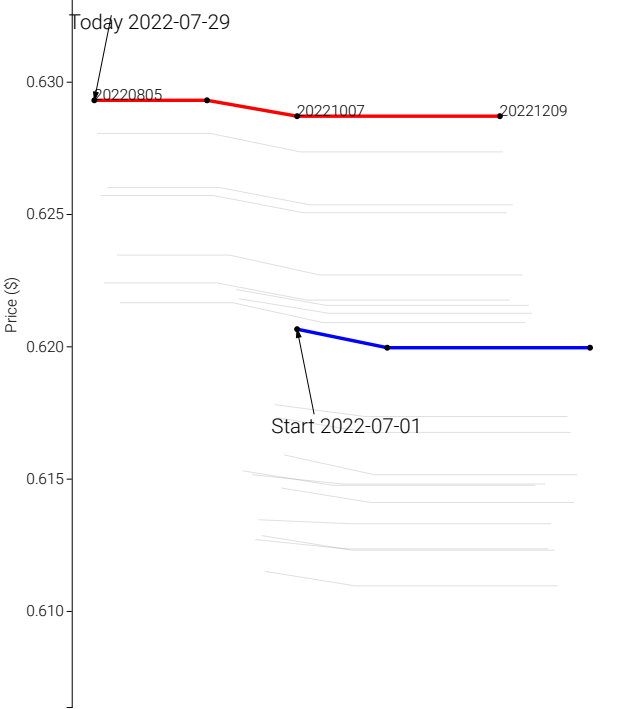
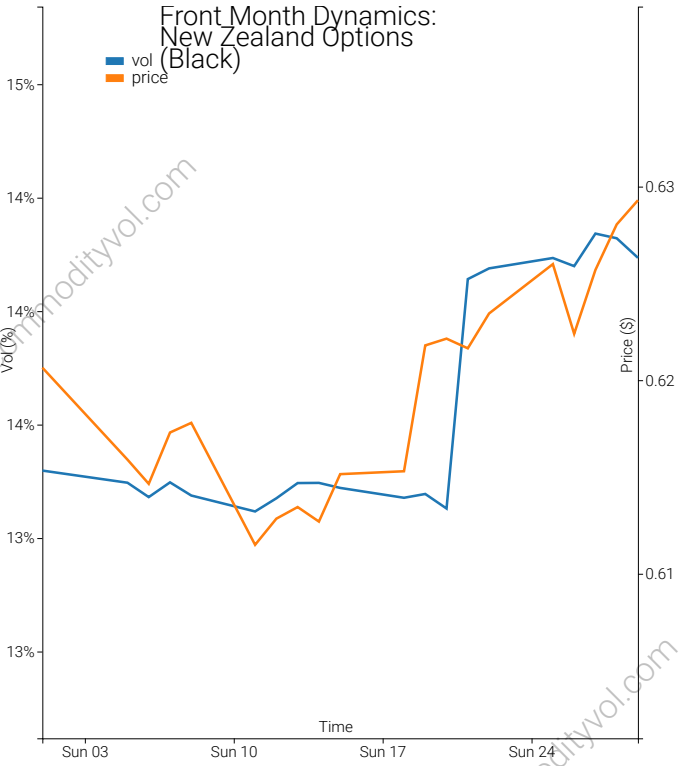
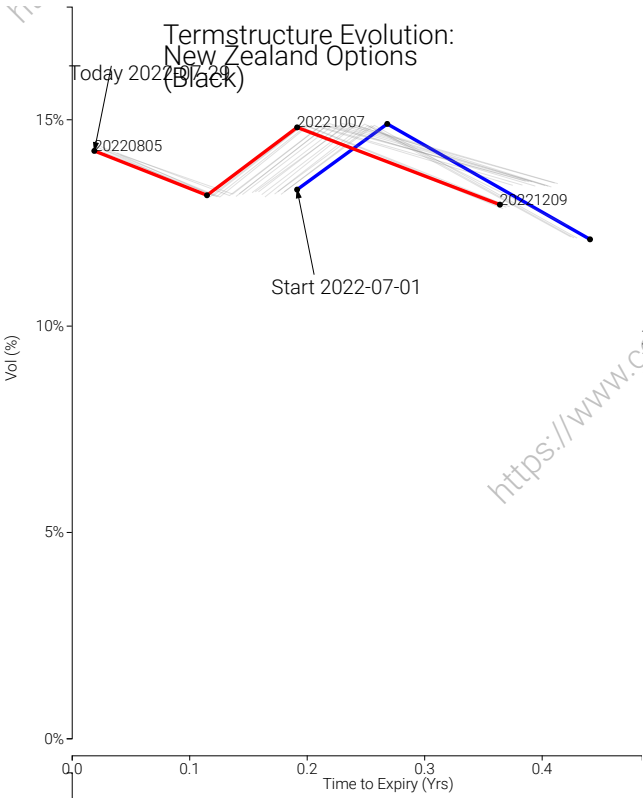


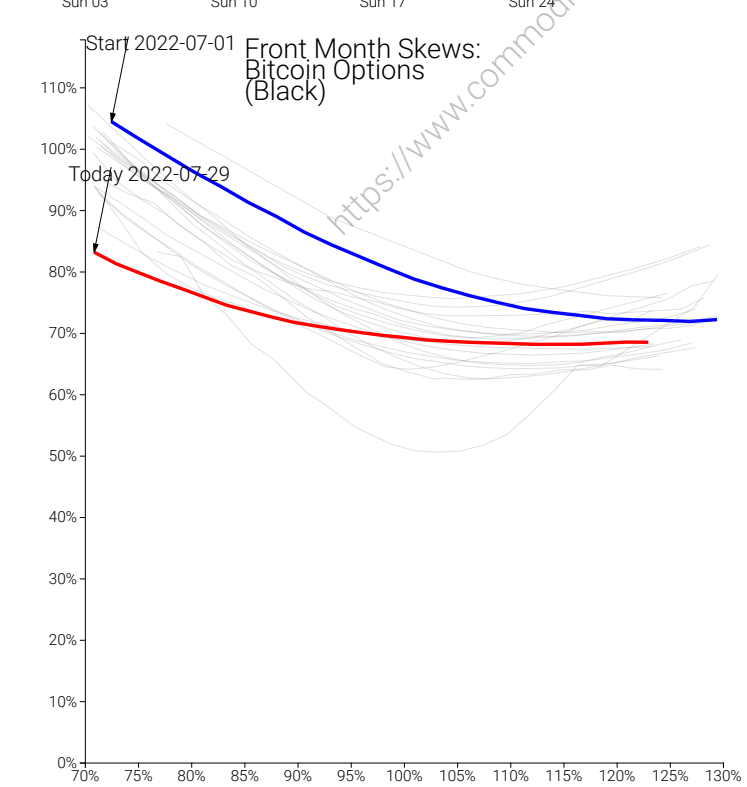
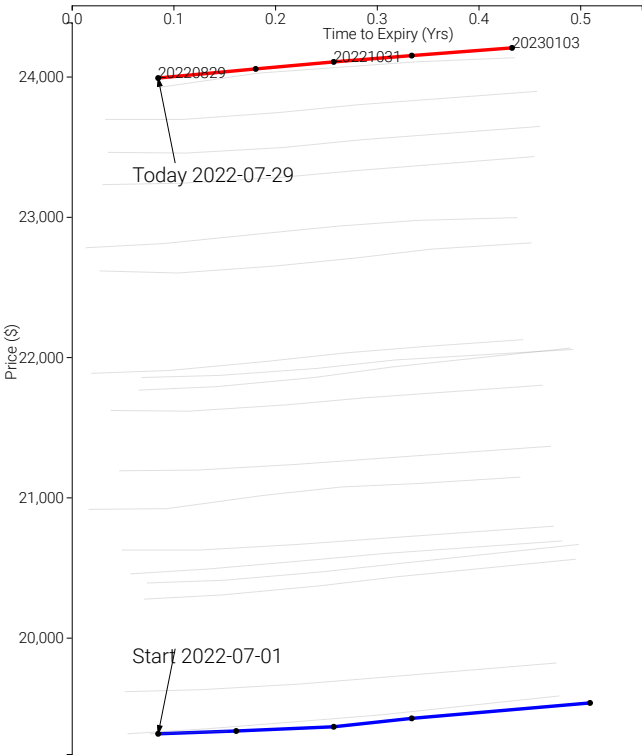
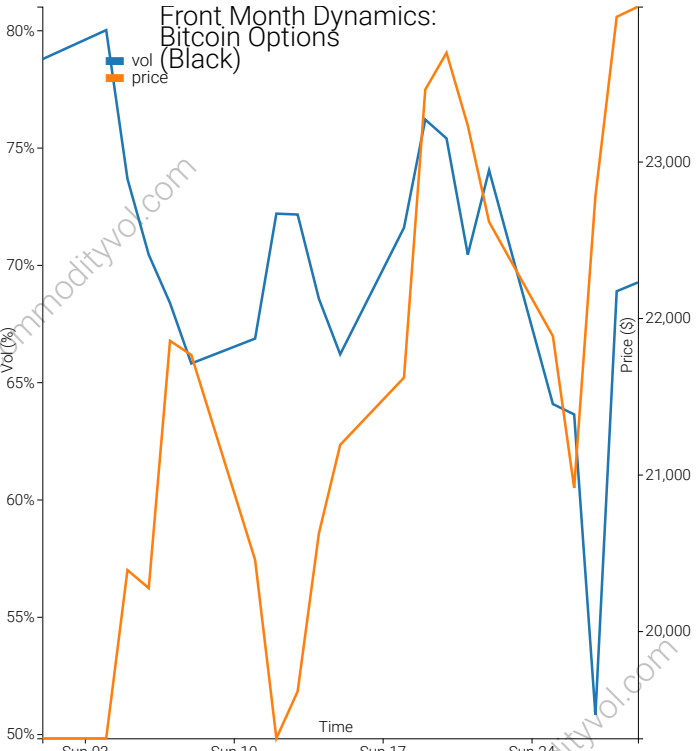
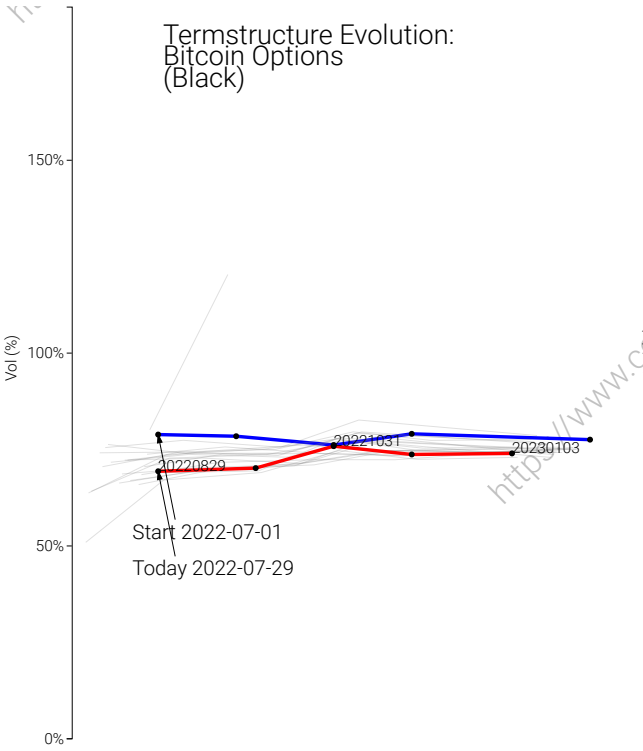










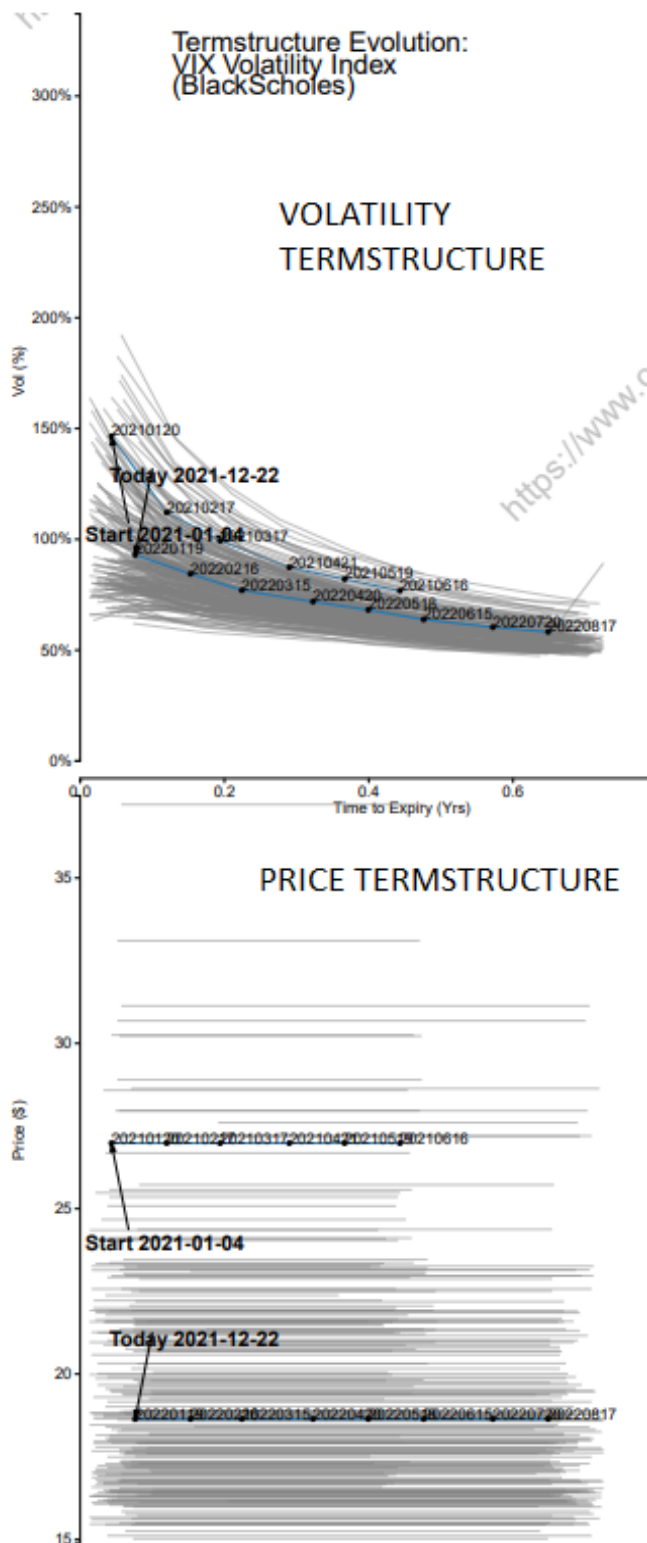


Explanation:

The document is composed of two parts. There is a tabular portion which summarizes the changes in front month futures prices and the changes in the at the money front month implied volatility. The results are presented as raw differences and percentage changes. The plots in this document try to give a feel for the evolution of the futures and options for each product type. The skew/termstructure/xyplots are broken out by major asset classes: Indexes, Fixed Income and so on.

At the Money Volatility and Price Term Structures:

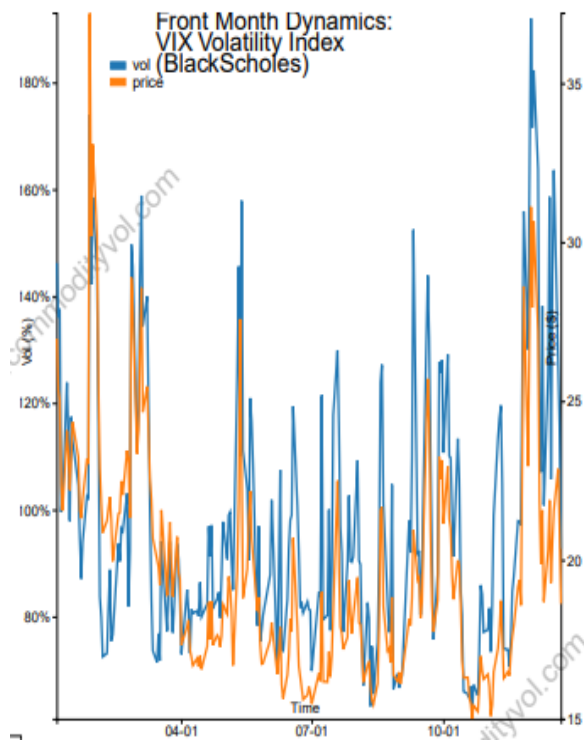
Stacked on top of the other on the left hand side, see the termstructures of vol and the (underlying) futures contract price.



The starting curve is the termstructure at the beginning of the period. This curve is labelled start and is typically colored blue. The ending curve is typically colored red and denoted by the text: Today. The greyed out lines are the termstructures for each day of the period. The hope is that the range of movements becomes apparent.

Front Month At the Money Volatility and Front Month Price Over the Year:

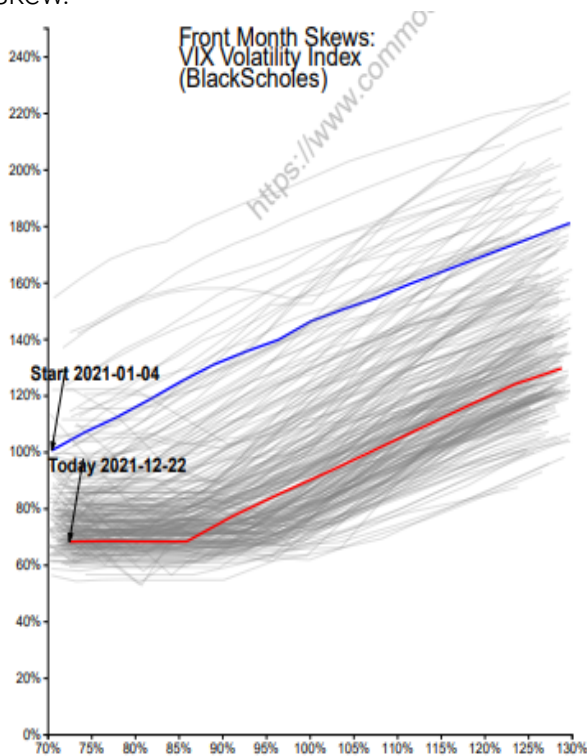
On the right hand panel we have the price and implied volatility of the front month contract.



At the money implied volatility is shown in blue and the axis on the left should be used to read off the values. The front month futures price is in orange and the right hand axis is where its value can be read.

Front Month Skew:

On the right hand in the bottom panel we have the starting front month skew and the ending front month skew.



The front month skew is shown for the starting date. The starting curve is labelled as 'Start' and captioned with the date. The starting curve is blue. Conversely, the ending curve is shown in red and labeled Today. The y-axis shows the implied volatility and the x-axis shows the moneyness. The moneyness is a way to normalize the skew so that it is comparable across time.

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