



Month End Summary of Commodity Options
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Intro:

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

April exhibited a bit more steady increase prices of Agricultural commodities. Metals were much more sedated, but Energy, Interest Rates, FX and Indexes show massive moves.

In the agriculture segment Soybean Oil futures rallied 18% with a 1.5 point increase in implied vols. Corn showed an 11% increase with vol slightly down. Rice showed strength in both price and implied volatility. Wheat and Soybean prices rallied but volatility declined. Lumber came tumbling down. Soymeal and Feeder Cattle also saw declines.

Hot Rolled Steel, Platinum and the other precious metals fell in price. Except for Platinum, vol rallied in these commodities. Palladium was the lone standout. The Russian-Ukrainian conflict has put some pressure on the metal that is sourced from Russia.

Coal and Crack Spread futures were the big winners in the energy patch. Crude rallied 5% with vol coming off a bit. On a percentage basis Natural Gas was a big winner-up 26% with vol up dramatically. The only sector down was the TTF Dutch Natural Gas contract and the Korea/Japan LNG contract.

Interest rates were a bloodbath! The drop in prices was clearly proportional to duration. Vol was up across the board

FX was a similar. The US Dollar rallied against all other currencies. Vol was up. The Bitcoin Futures contract fell dramatically.

Indexes were all down, with the exception of the VIX. In general, the Dow Jones futures were down the least with the Nasdaq 100 down the most. The VIX was up 13 vol points. The implied volatility for all of the contracts was up dramatically. This bid in equity index vol is the strongest we have witnessed since the 2020 drawdown.

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

CommodityVol.com is here to serve your needs around modeling, forecasting and understanding the market. If you have needs for commodity skews, parameterized surfaces (including stochastic volatility models), please do not hesitate to contact us! info@commodityvol.com

At The Money Roundup of Products

Energy

exch/prod	desc	futures chng [%]	vol chng [%]
NYMEX/BZO	Brent Crude Oil Margin	+2.750 [+2.6%]	-0.015 [-2.7%]
NYMEX/BE	Brent Euro Style	+2.750 [+2.6%]	-0.020 [-3.6%]
NYMEX/CVR	Chicago Ethanol(platts) Average Price	+0.365 [+15.4%]	+0.002 [+1.0%]
NYMEX/LO	Crude Oil	+5.420 [+5.5%]	-0.054 [-9.7%]
NYMEX/TFO	Dutch TTF Natural Gas	-12.700 [-11.3%]	-0.181 [-9.5%]
NYMEX/LN	European Natural Gas	+1.524 [+26.6%]	+0.173 [+31.0%]
NYMEX/E7	Henry Hub Financial Last Day	+1.524 [+26.6%]	+0.159 [+27.6%]
NYMEX/ON	Natural Gas	+1.524 [+26.6%]	+0.173 [+30.9%]
NYMEX/OH	NY Harbor ULSD	+0.593 [+17.3%]	-0.119 [-16.4%]
NYMEX/OB	RBOB	+0.289 [+9.2%]	-0.098 [-15.0%]

exch/prod	desc	futures chng [%]	vol chng [%]
CME/DK	Class IV Milk	+0.200 [+0.8%]	-0.045 [-65.1%]
CBT/C	Corn	+0.785 [+10.7%]	-0.010 [-3.4%]
CME/62	Feeder Cattle	-5.225 [-3.2%]	-0.007 [-4.1%]
CBT/KW	KC HRW Wheat	+0.927 [+9.2%]	-0.043 [-10.6%]
CME/LN	Lean Hog	-0.400 [-0.4%]	+0.048 [+29.0%]
CME/48	Live Cattle	-3.200 [-2.4%]	+0.036 [+28.3%]
CME/LB	Lumber110	-49.900 [-5.2%]	-0.055 [-9.0%]
CME/NF	Nonfat Dry Milk	+0.625 [+0.3%]	-0.022 [-45.0%]
CBT/O	Oats	-0.897 [-12.1%]	-0.008 [-2.0%]
CBT/14	Rough Rice	+1.470 [+9.2%]	+0.021 [+15.4%]
CBT/S	Soybean	+1.020 [+6.4%]	-0.013 [-6.5%]
CBT/06	Soybean Meal	-17.700 [-3.9%]	-0.036 [-14.3%]
CBT/07	Soybean Oil	+12.980 [+18.2%]	+0.015 [+4.8%]
CBT/W	Wheat	+0.712 [+7.2%]	-0.048 [-11.3%]

InterestRates

exch/prod	desc	futures chng [%]	vol chng [%]
CBT/26	2 YR US Treasury Note	-0.277 [-0.3%]	+0.005 [+23.4%]
CBT/25	5 YR US Treasury Note	-1.352 [-1.2%]	+0.008 [+15.9%]
CBT/21	10 YR US Treasury Note	-3.078 [-2.5%]	+0.013 [+18.8%]
CBT/17	30 YR US Treasury Bond	-9.125 [-6.1%]	+0.030 [+25.1%]
CME/ED	Eurodollar	-0.355 [-0.4%]	+0.002 [+25.0%]
CBT/UBE	Long Term US Treasury Bond	-17.594 [-9.9%]	+0.032 [+17.6%]

Forex

exch/prod	desc	futures chng [%]	vol chng [%]
CME/ADU	AUDUSD 2pmfix	-0.042 [-5.6%]	+0.047 [+45.9%]
CME/BTC	Bitcoin	-8265.000 [-17.8%]	-0.011 [-2.1%]
CME/BR	BRLUSD Monthly	-0.012 [-5.8%]	+0.037 [+21.8%]
CME/CAU	CADUSD 2pmfix	-0.020 [-2.5%]	+0.025 [+37.3%]
CME/CHU	CHFUSD 2pmfix	-0.052 [-4.8%]	+0.044 [+65.5%]
CME/EUU	EURUSD 2pmfix	-0.048 [-4.3%]	+0.030 [+42.0%]
CME/GBU	GBPUSD 2pmfix	-0.050 [-3.8%]	+0.038 [+49.8%]
CME/JPU	JPYUSD 2pmfix	-0.000 [-5.3%]	+0.027 [+26.7%]
CME/MP	Mexican Peso	-0.001 [-2.0%]	+0.044 [+45.2%]
CME/NE	New Zealand	-0.044 [-6.4%]	-0.010 [-9.5%]

EquityIndex

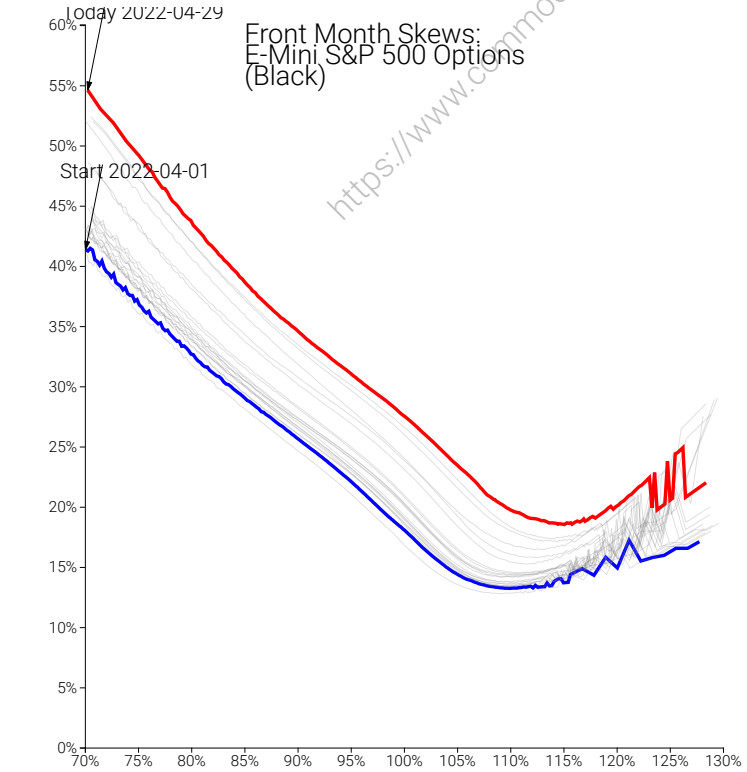
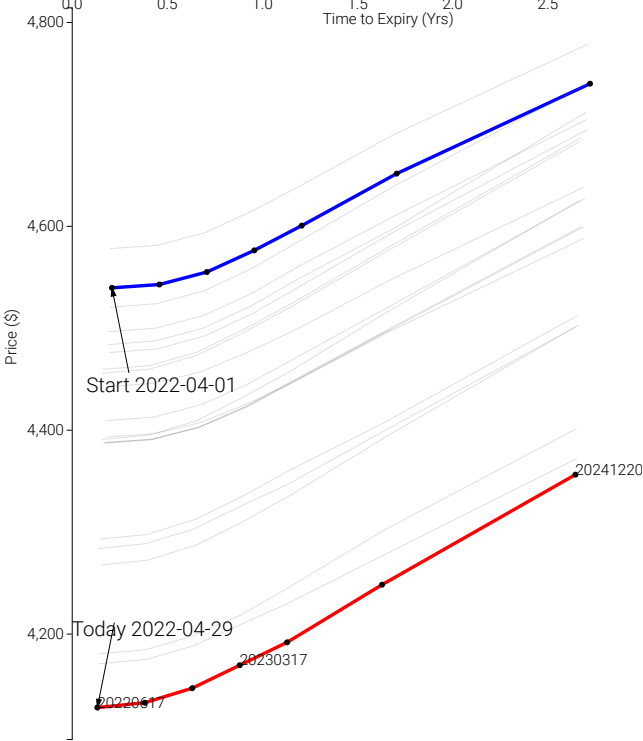
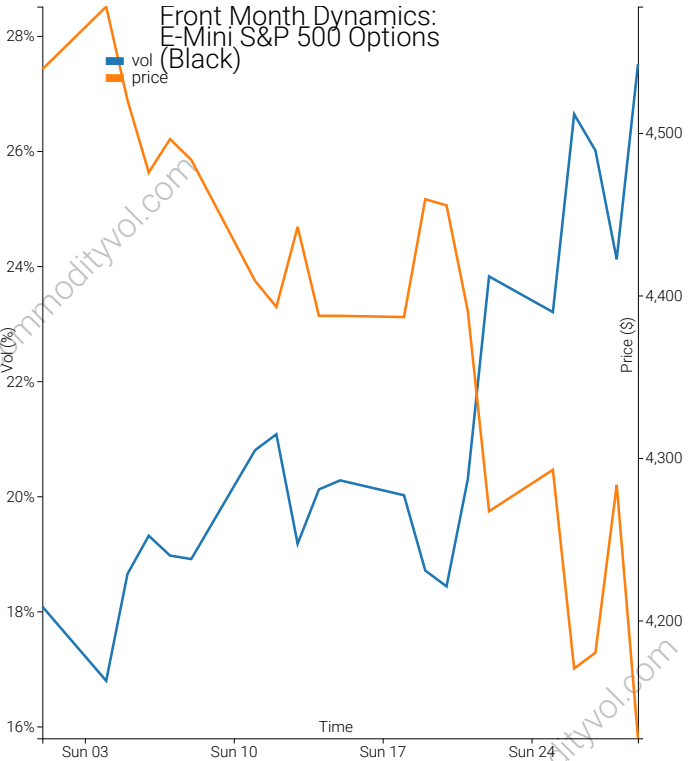
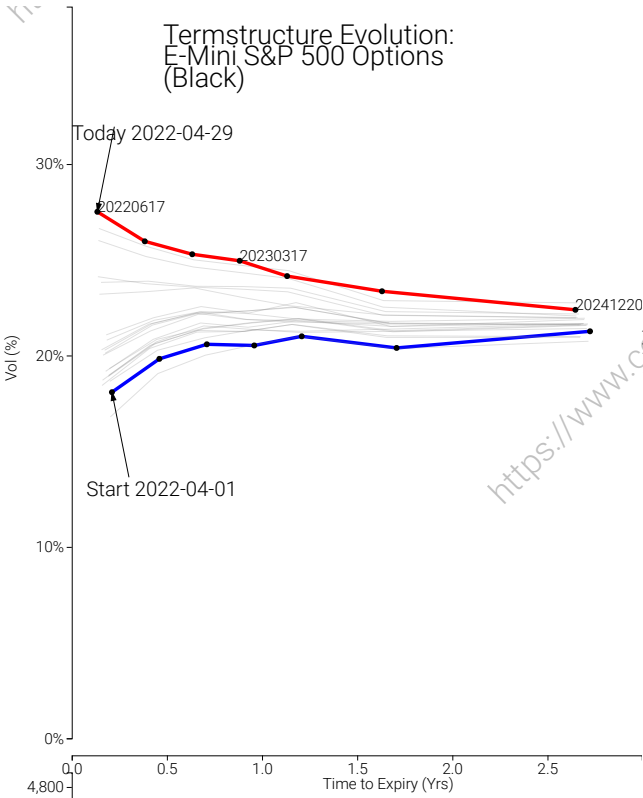
exch/prod	desc	futures chng [%]	vol chng [%]
CBT/YM	E-Mini Dow	-1836.000 [-5.3%]	+0.064 [+39.8%]
CME/NQ	E-Mini Nasdaq	-2011.750 [-13.5%]	+0.111 [+46.1%]
CME/RTO	E-Mini Russell 2000	-227.000 [-10.9%]	+0.093 [+39.5%]
CME/RTM	E-Mini Russell EOM	-227.000 [-10.9%]	+0.113 [+50.9%]
CME/ES	E-Mini S&P 500	-411.750 [-9.1%]	+0.094 [+52.1%]
CBOE/VIX	VIX Volatility Index	+13.770 [+70.1%]	+0.492 [+52.3%]

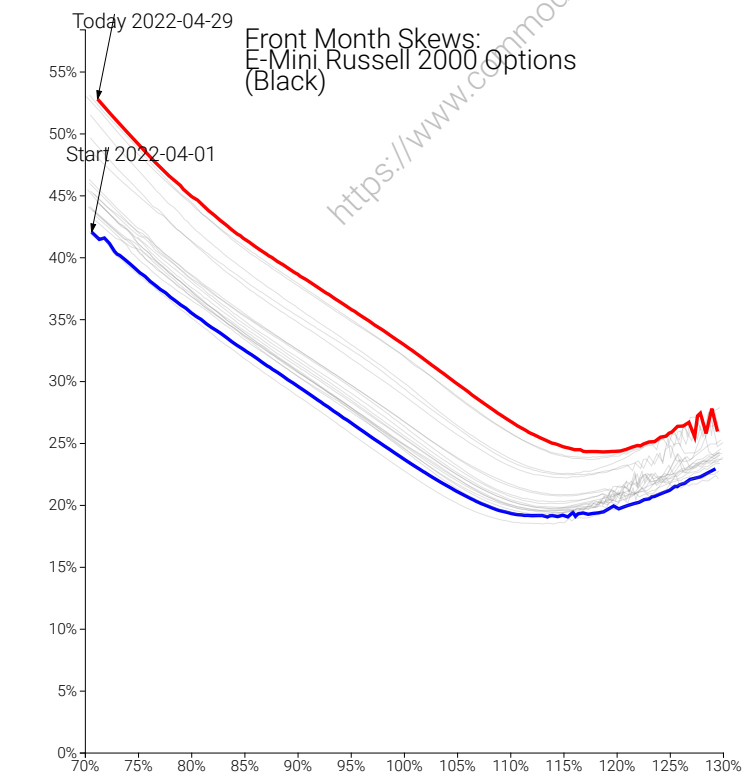
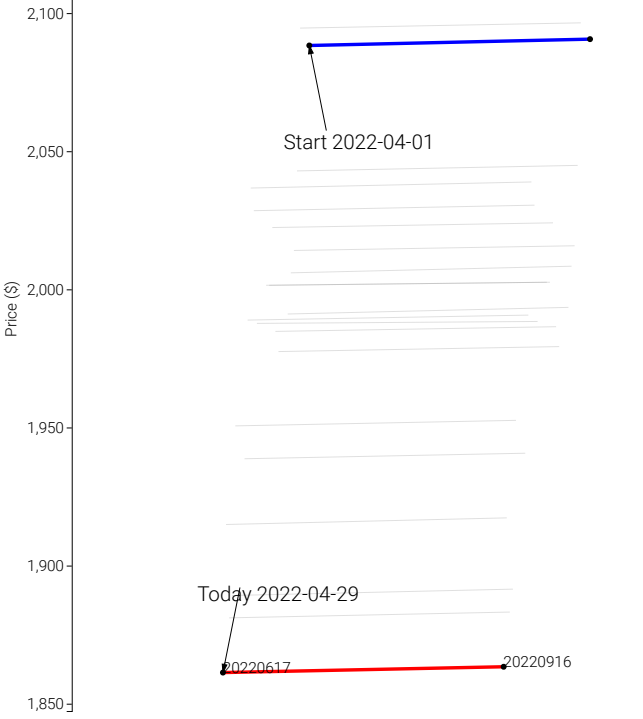
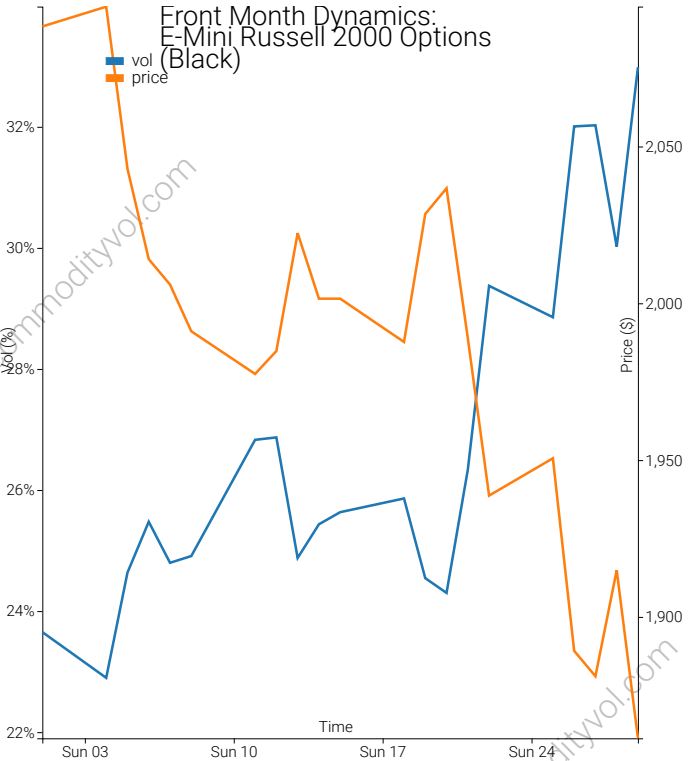
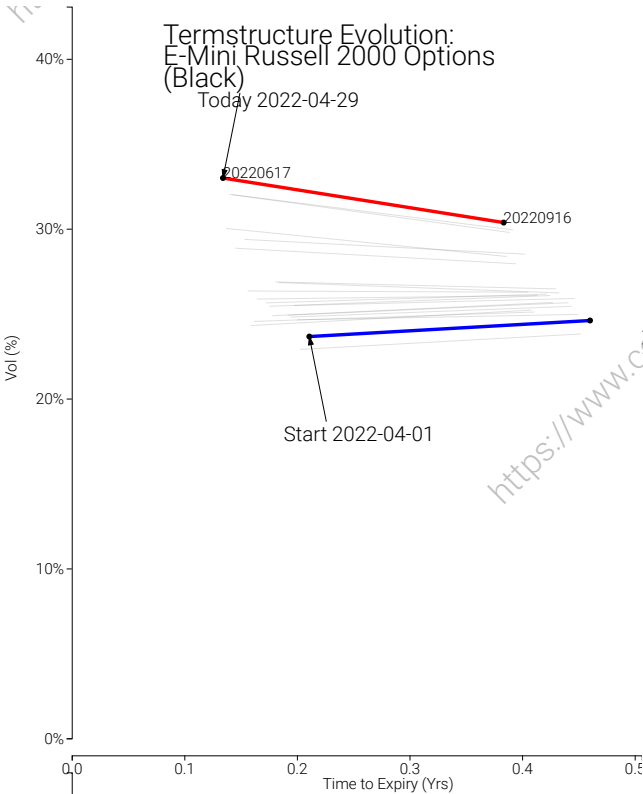
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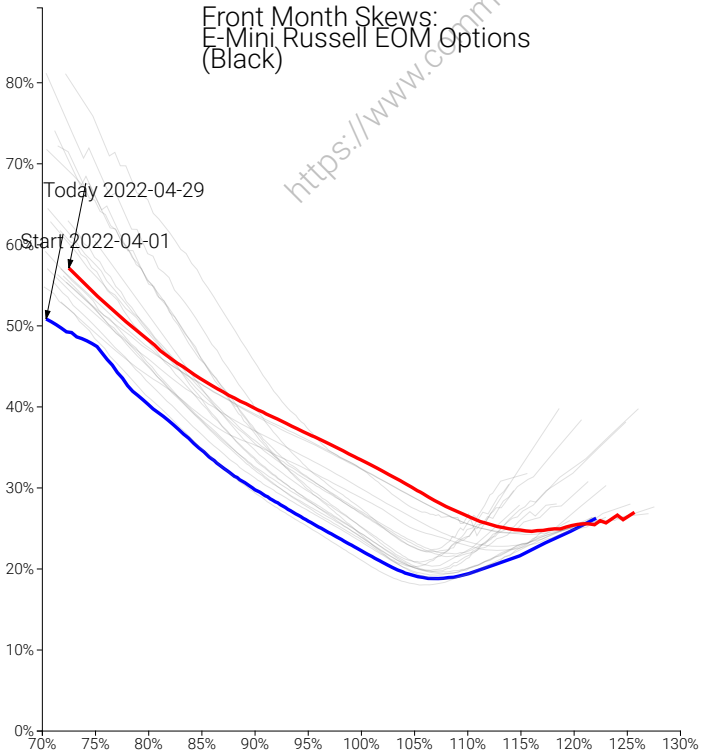
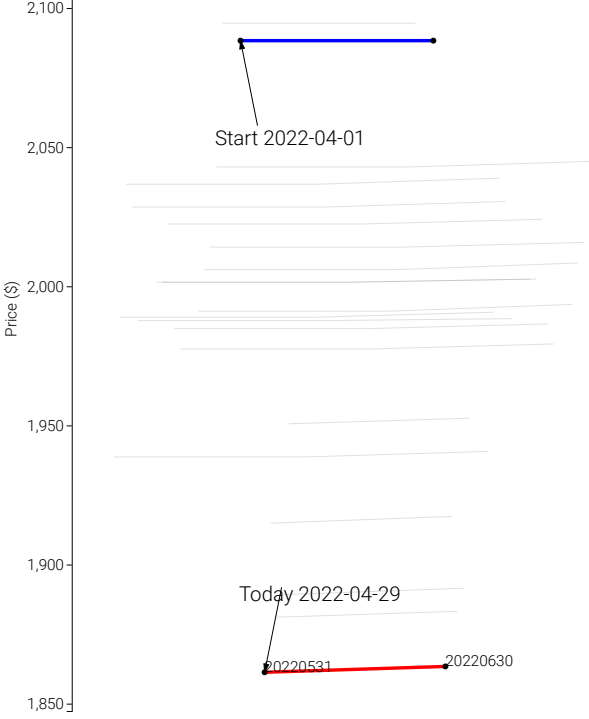
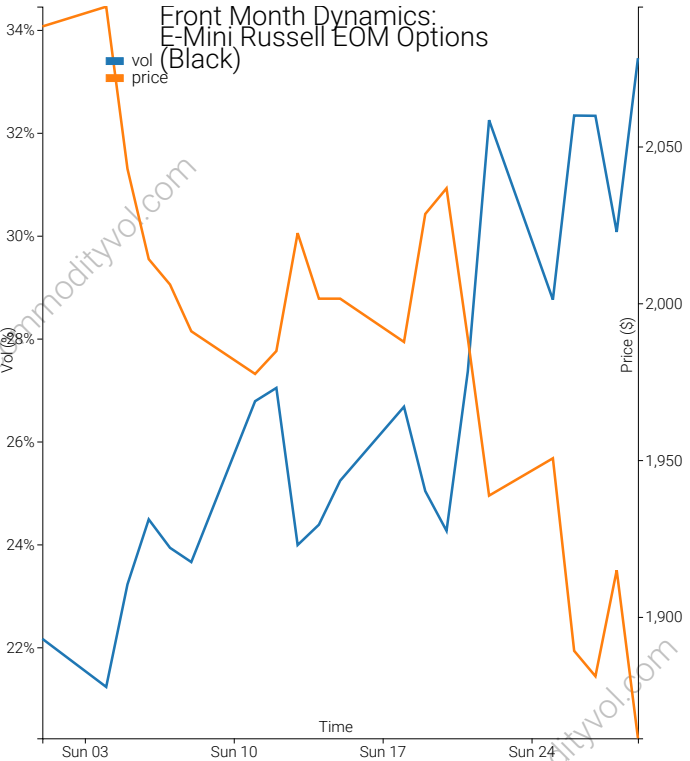
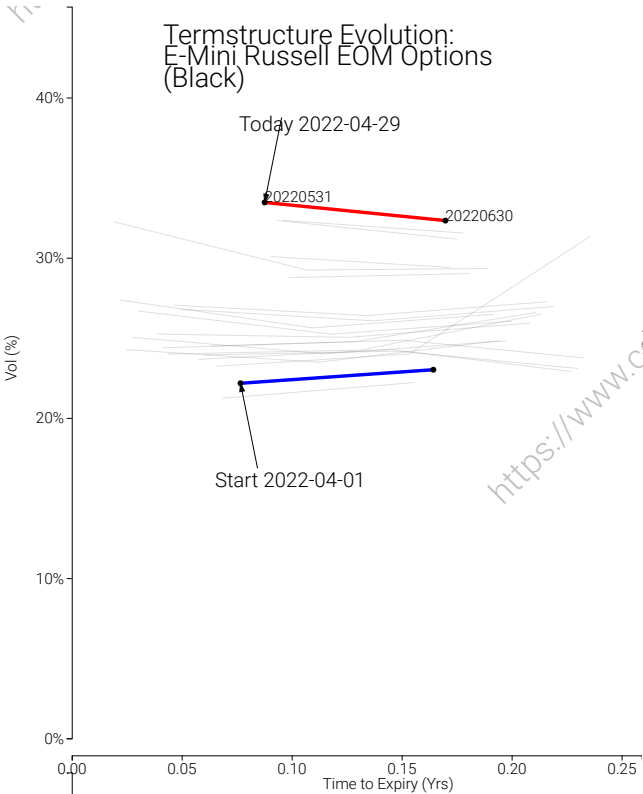
exch/prod	desc	futures chng [%]	vol chng [%]
COMEX/HX	Copper	-0.280 [-6.0%]	+0.006 [+2.2%]
COMEX/OG	Gold	-12.000 [-0.6%]	+0.013 [+8.6%]
NYMEX/PAO	Palladium	+39.500 [+1.7%]	-0.029 [-5.1%]
NYMEX/PO	Platinum	-49.000 [-5.0%]	-0.030 [-9.1%]
COMEX/SO	Silver	-1.569 [-6.4%]	+0.036 [+14.7%]
COMEX/HRO	Us. Midwest Domestic Hot- rolled Coil Steel (CRU) Index Average Price	-140.000 [-9.1%]	+0.148 [+52.9%]

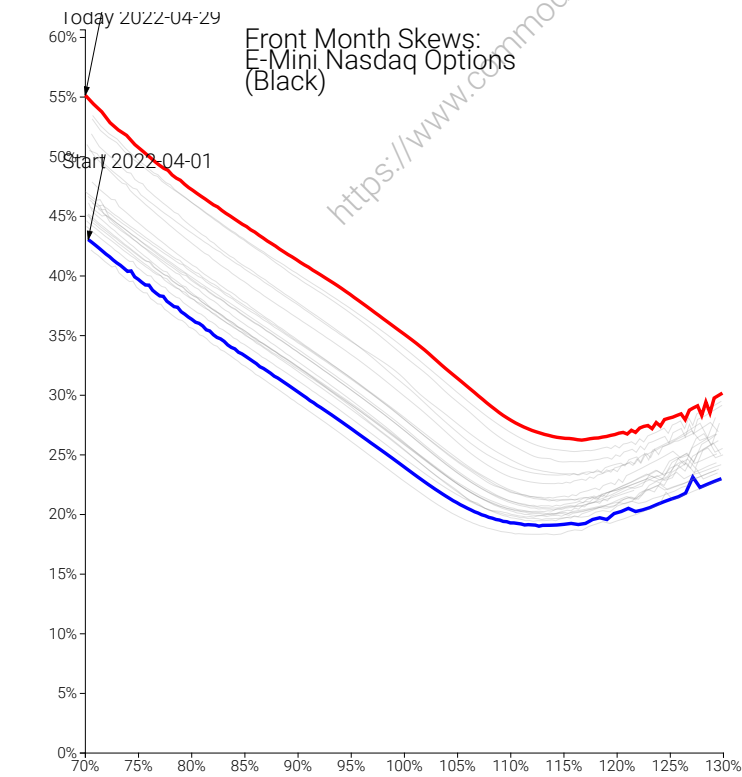
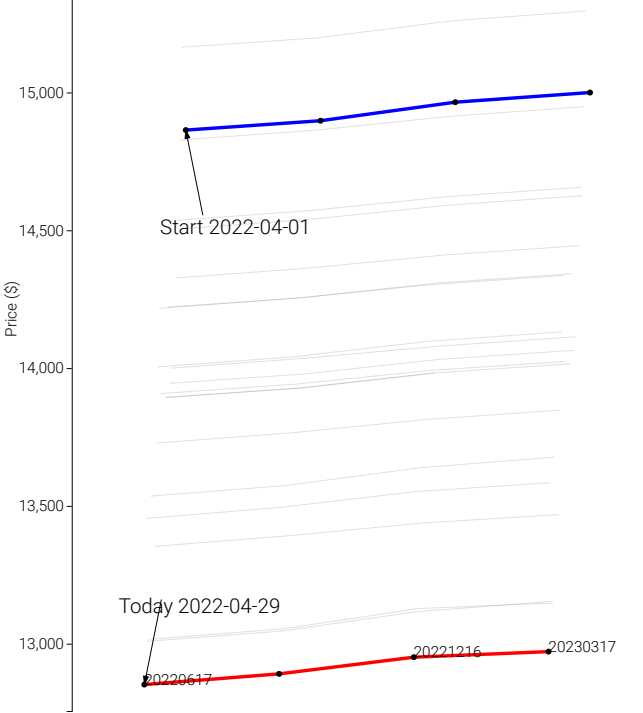
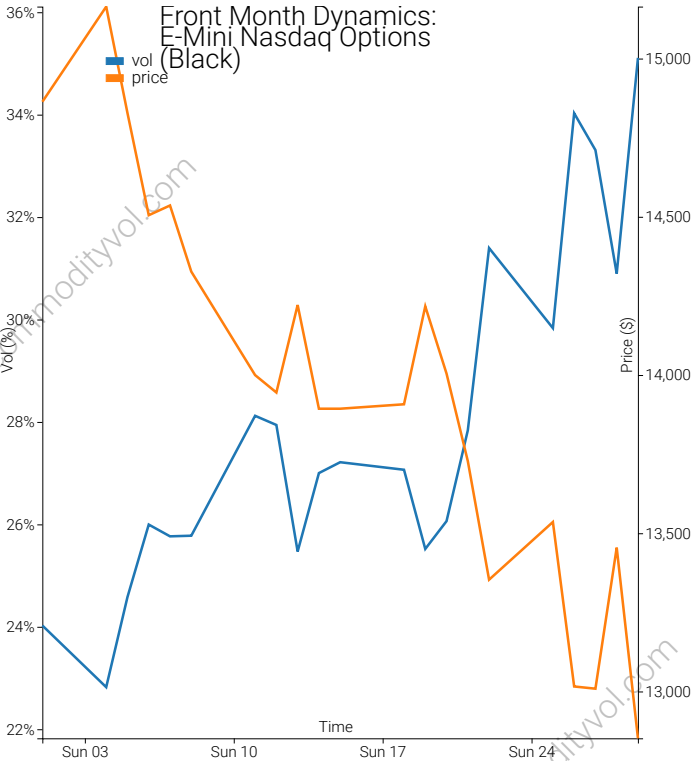
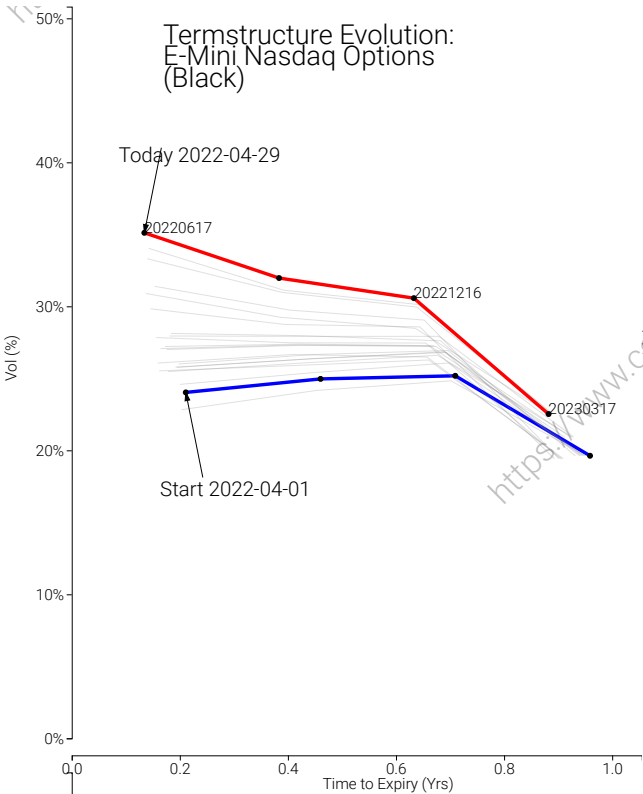
Skews, Termstructures and more

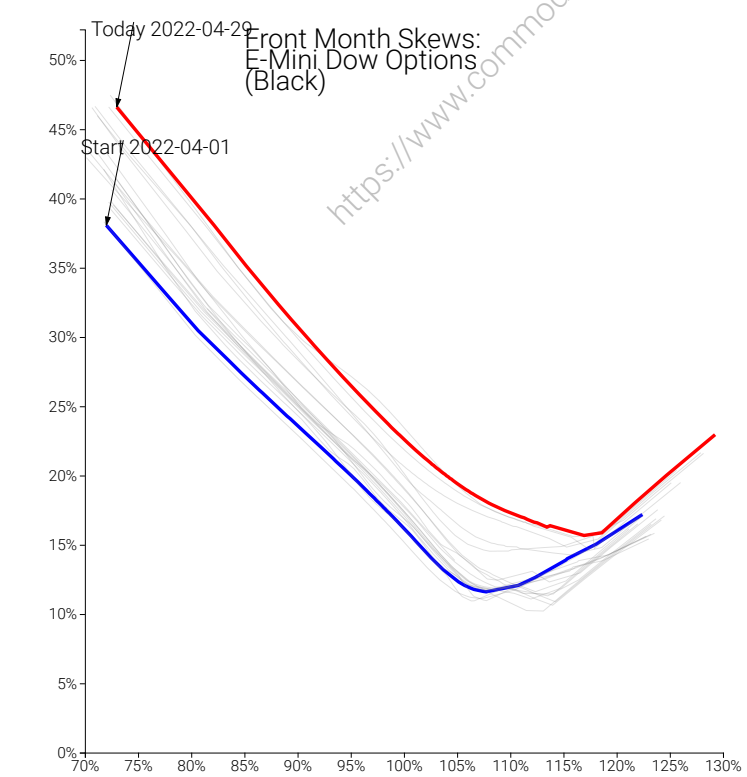
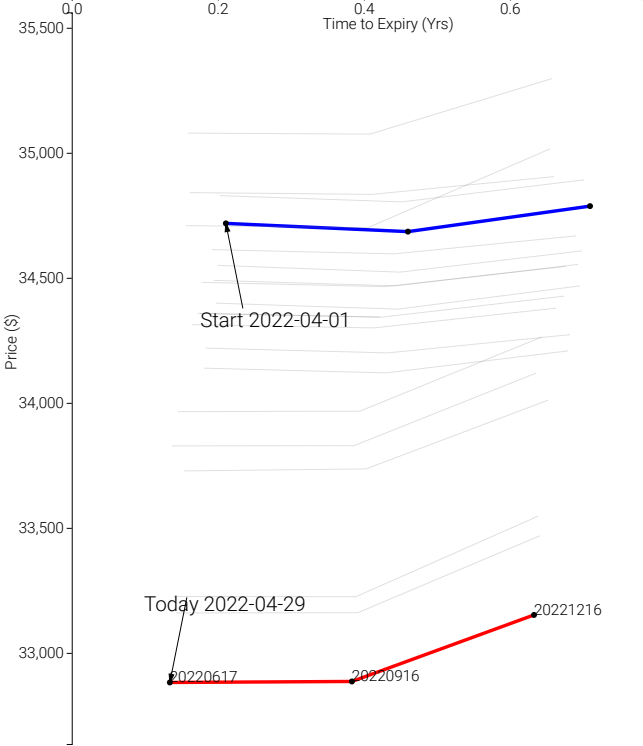
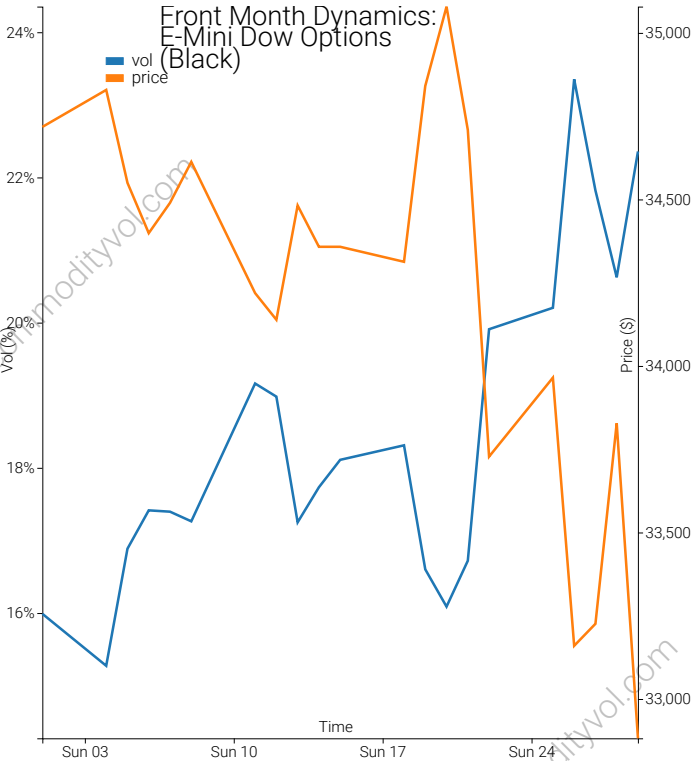
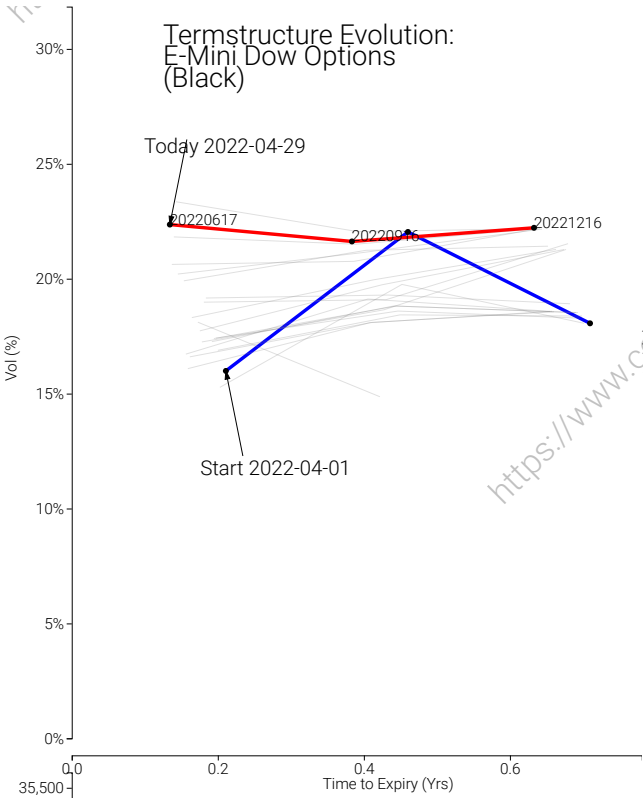
Equity Index

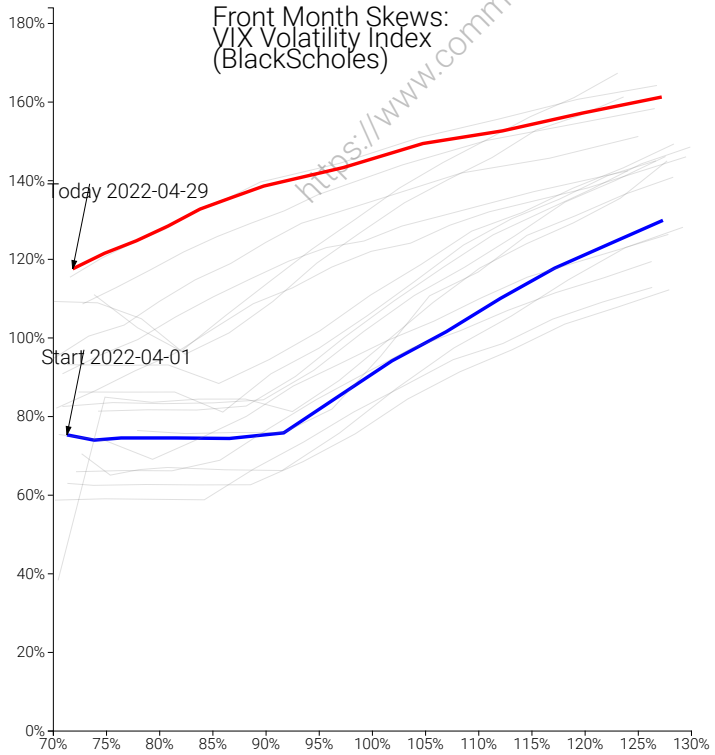
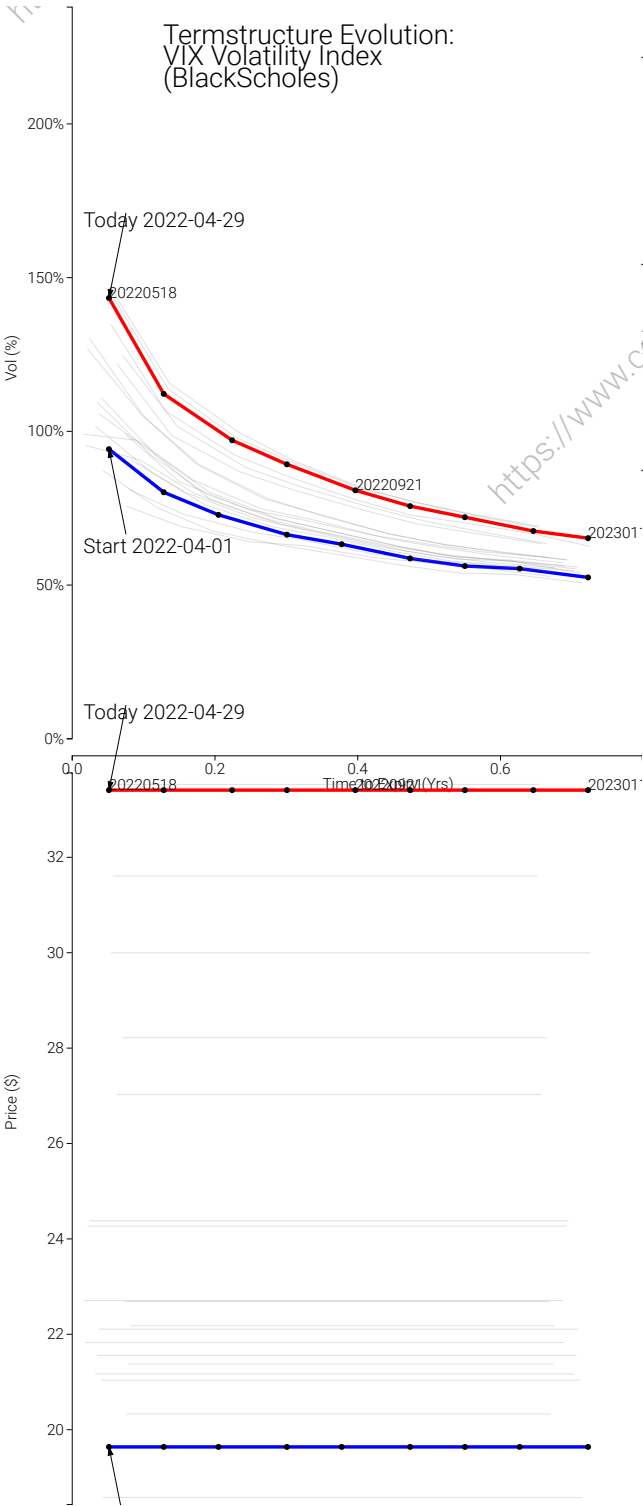




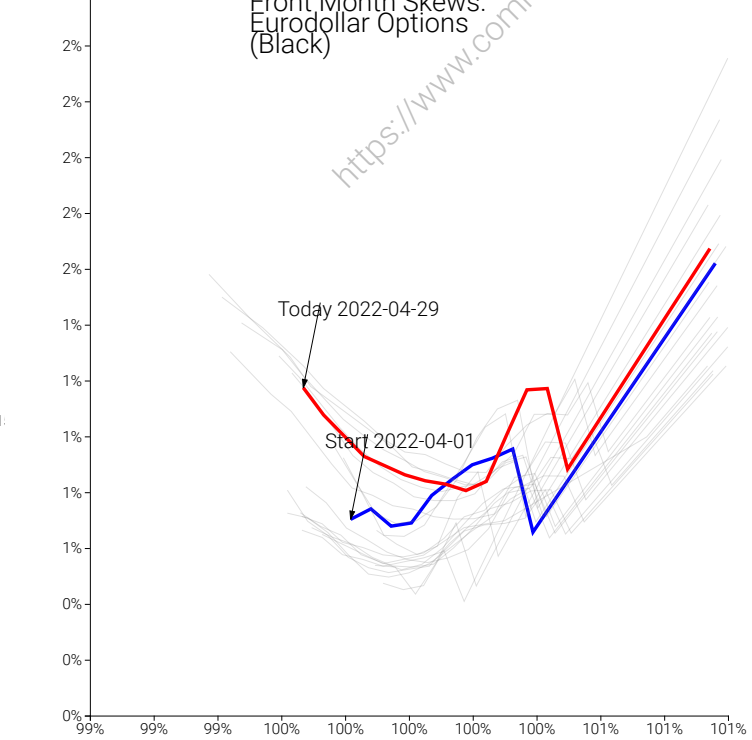
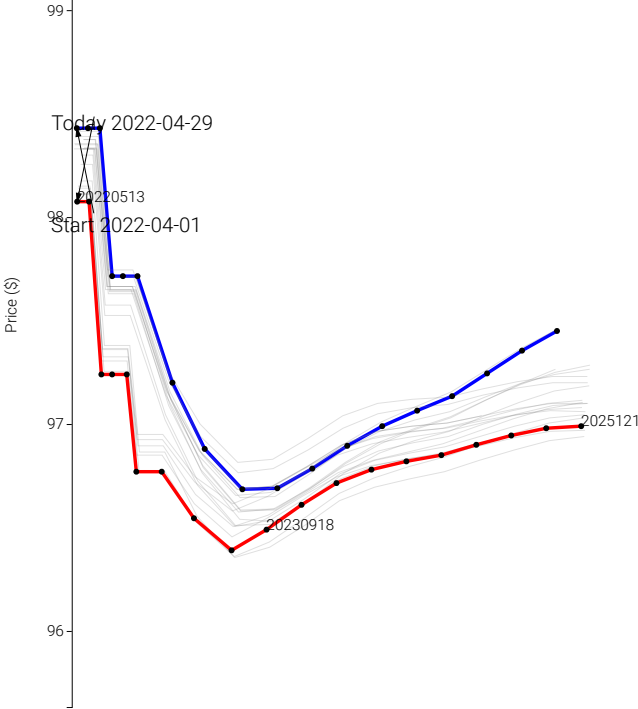
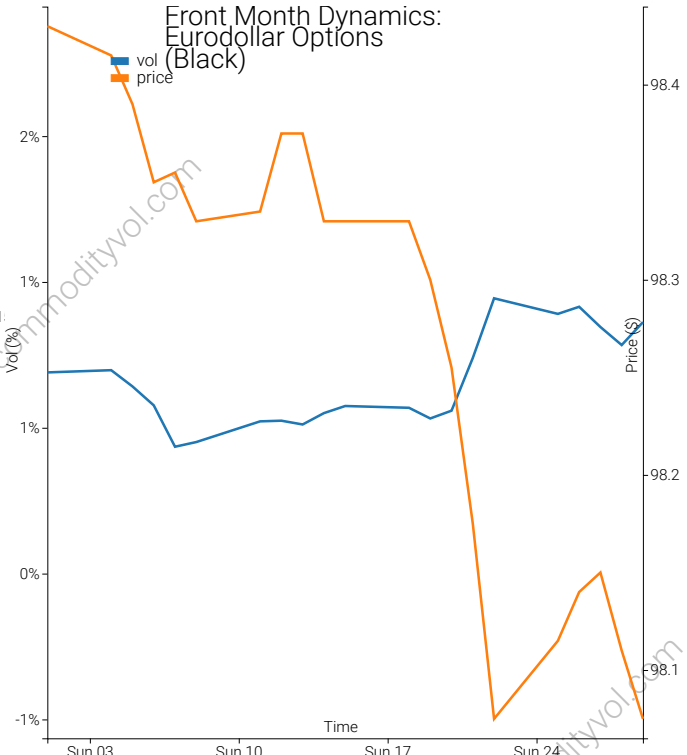
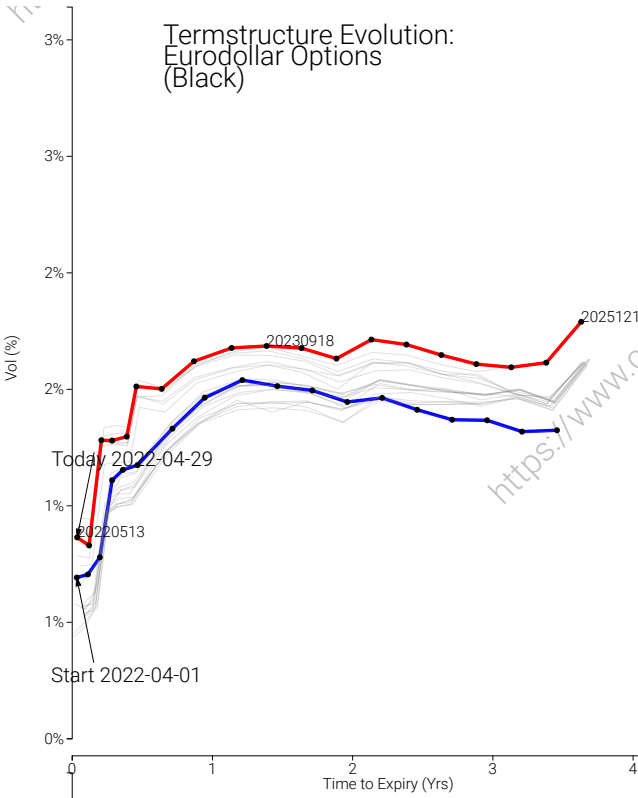


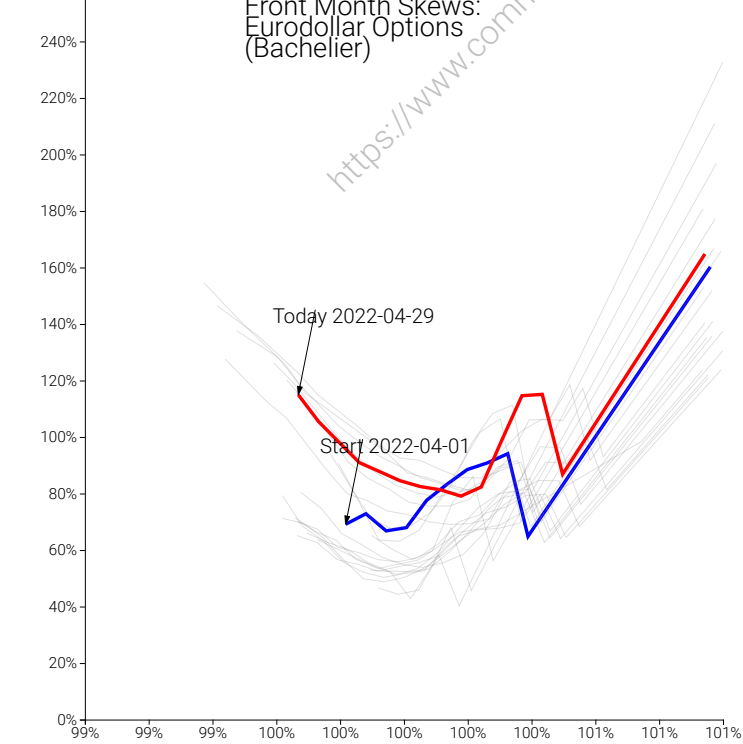
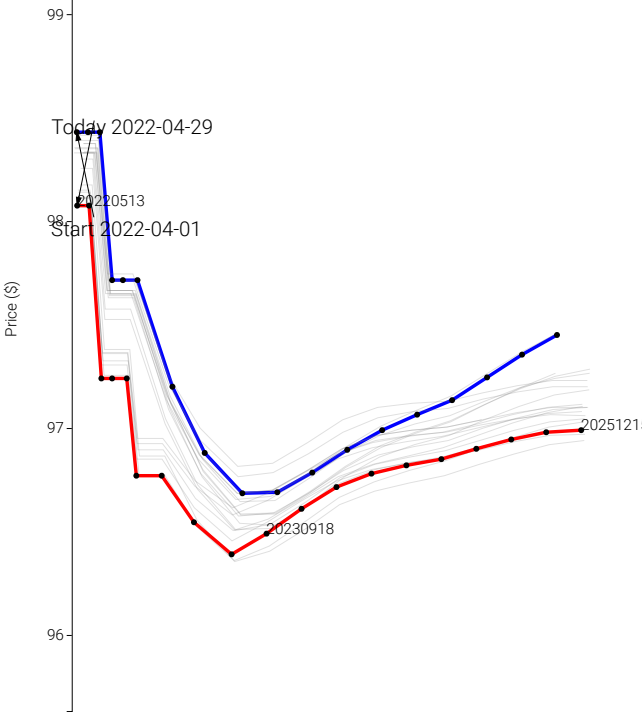
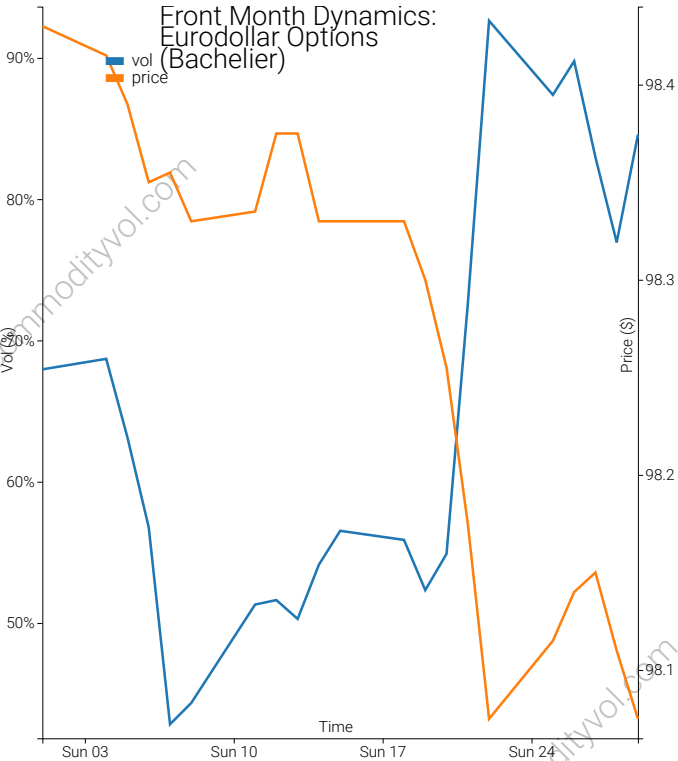
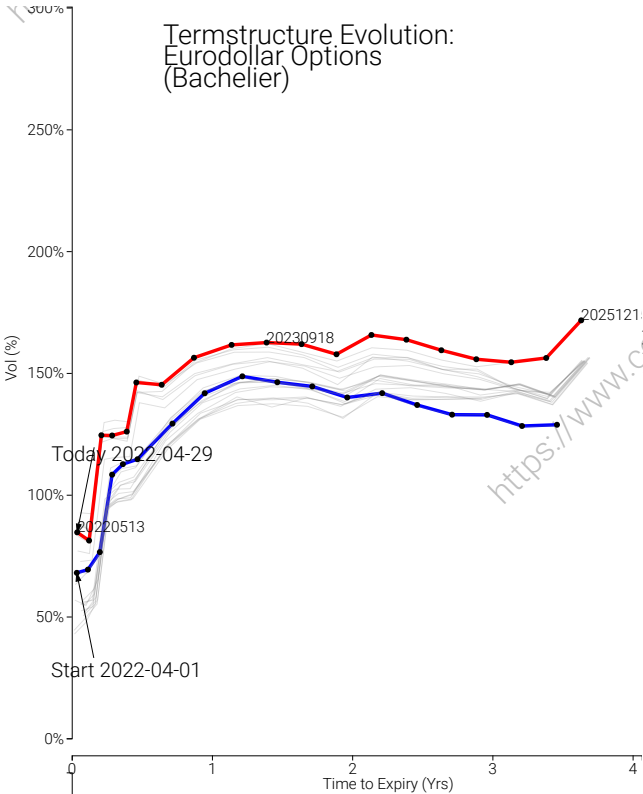


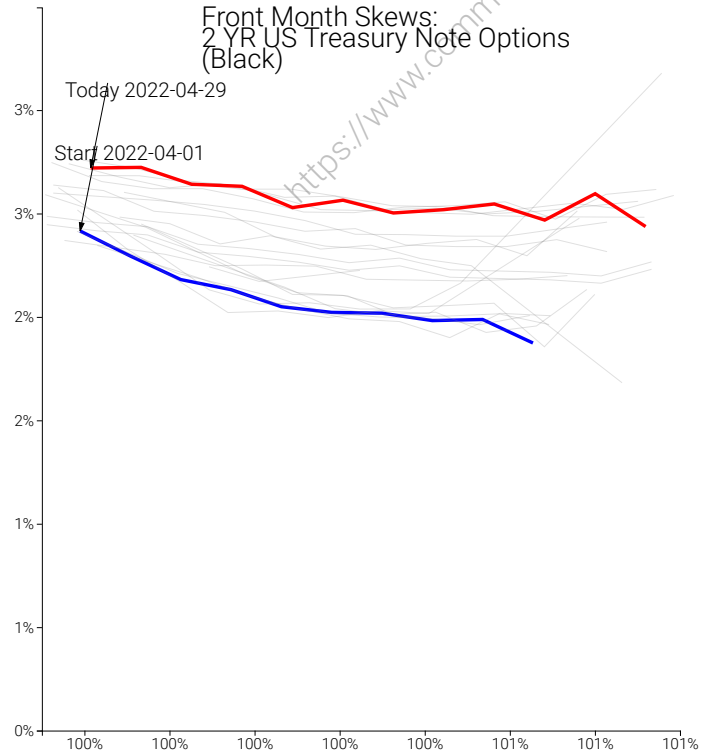
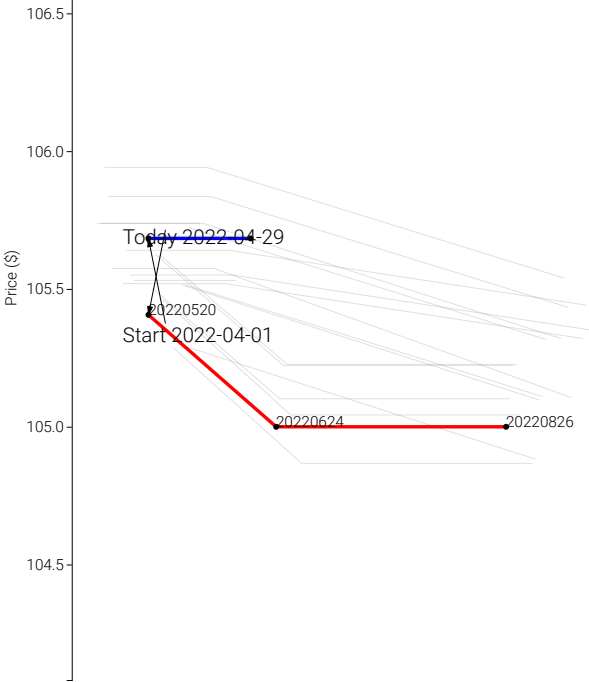
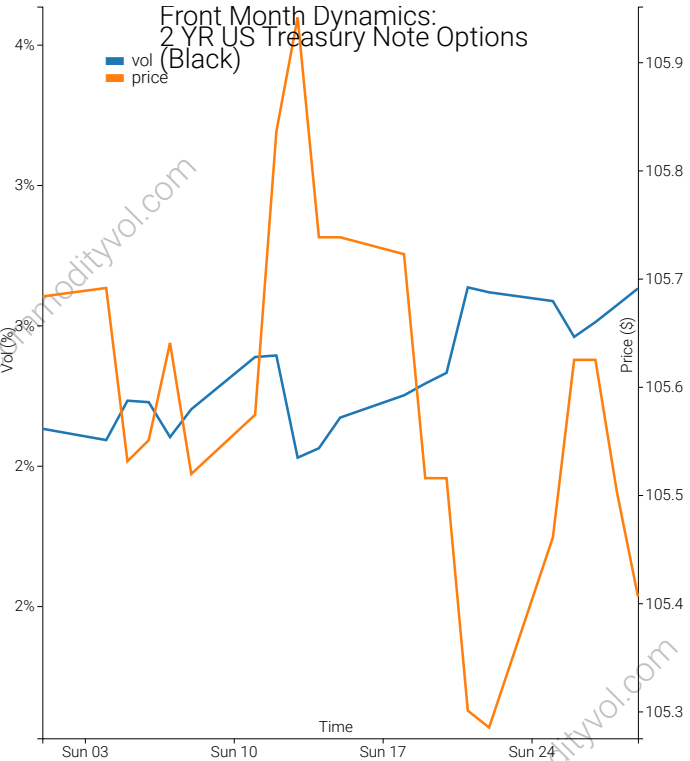
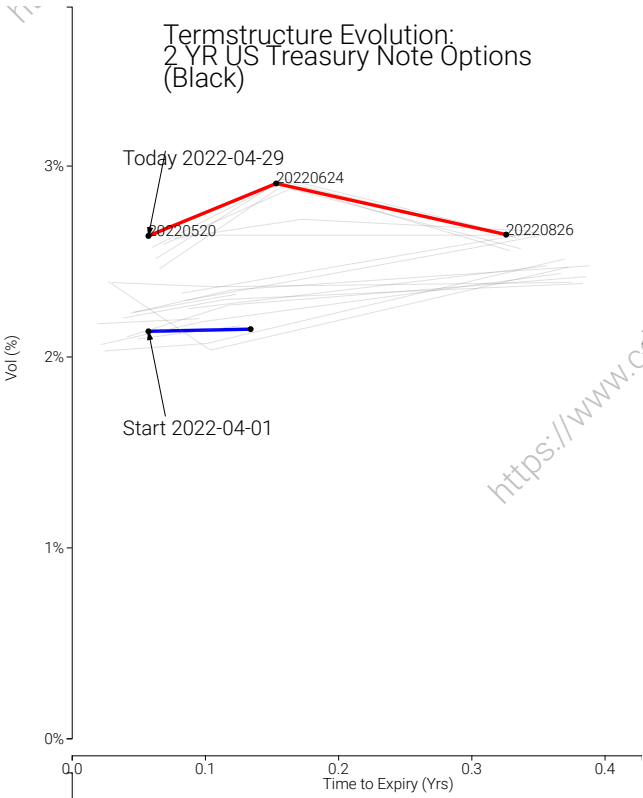


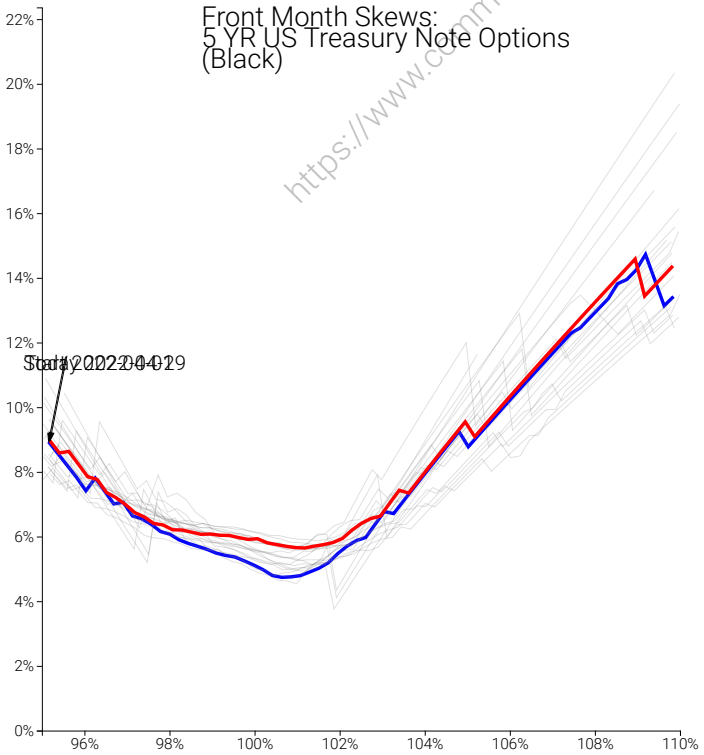
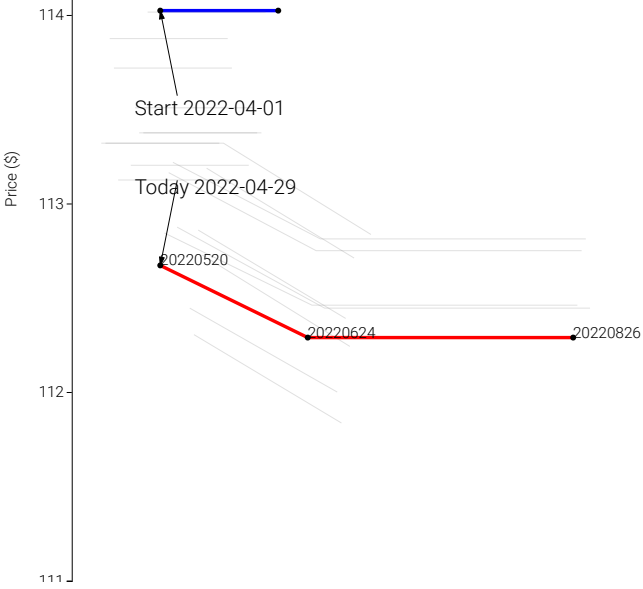
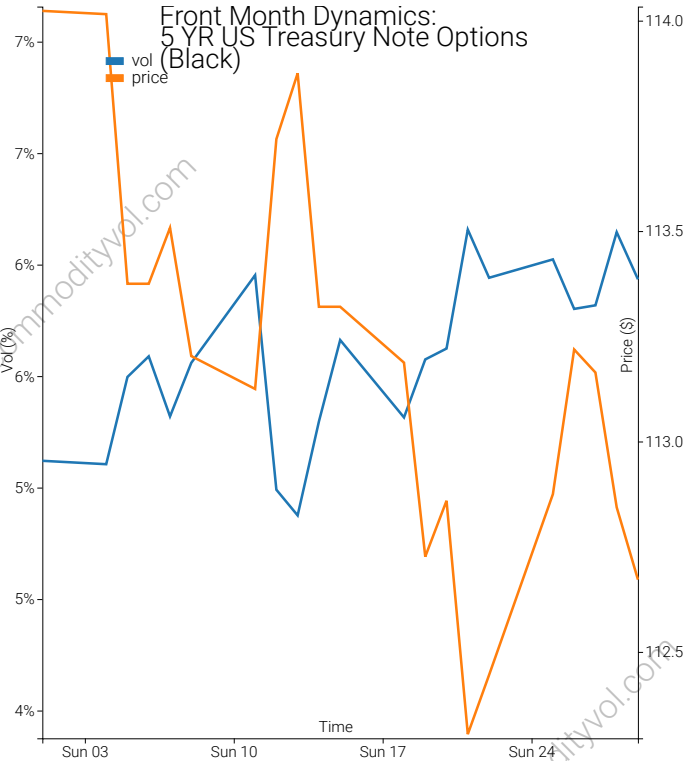
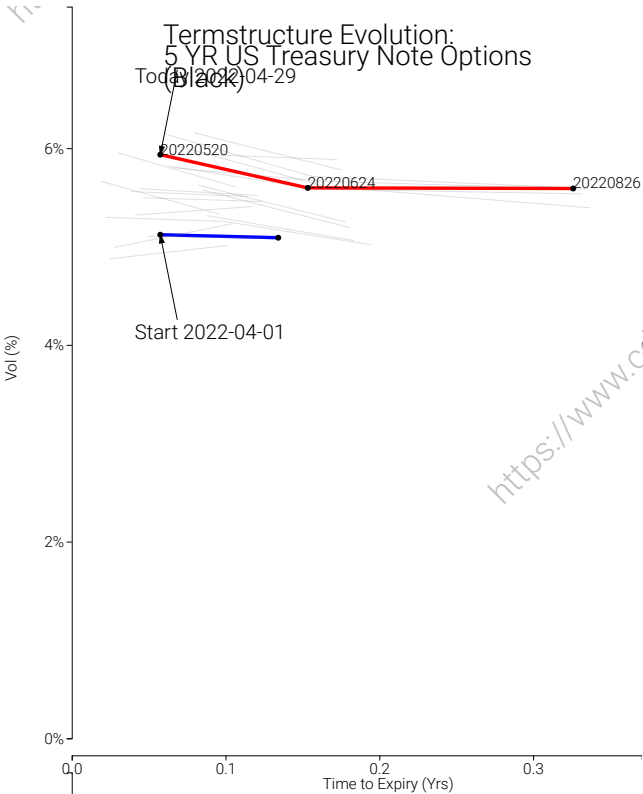


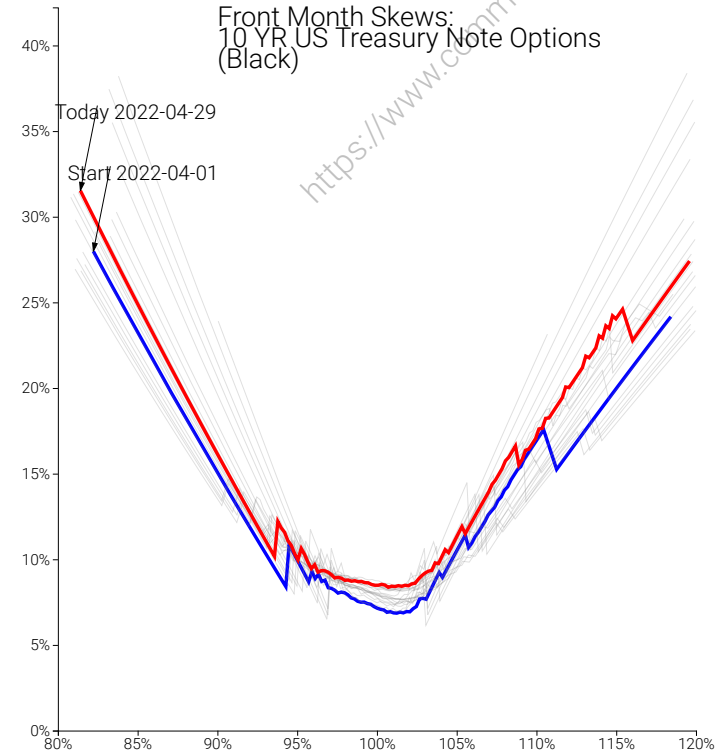
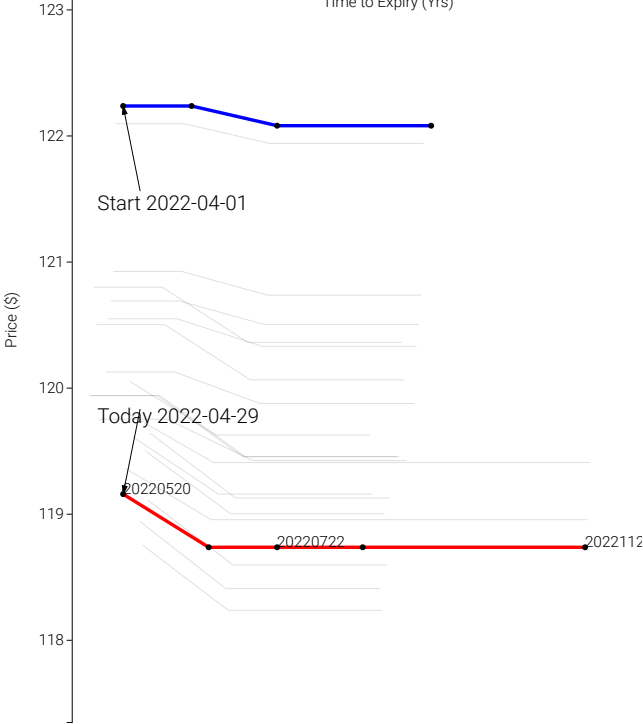
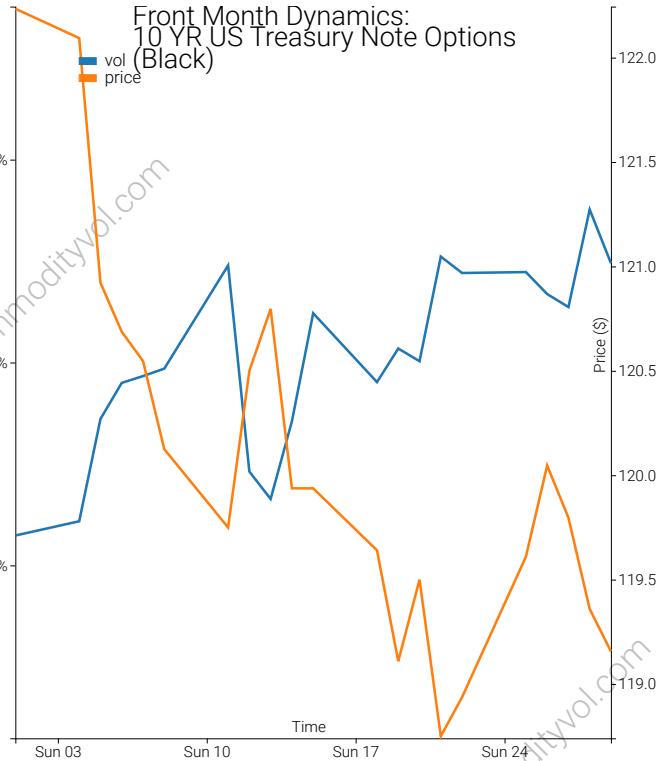
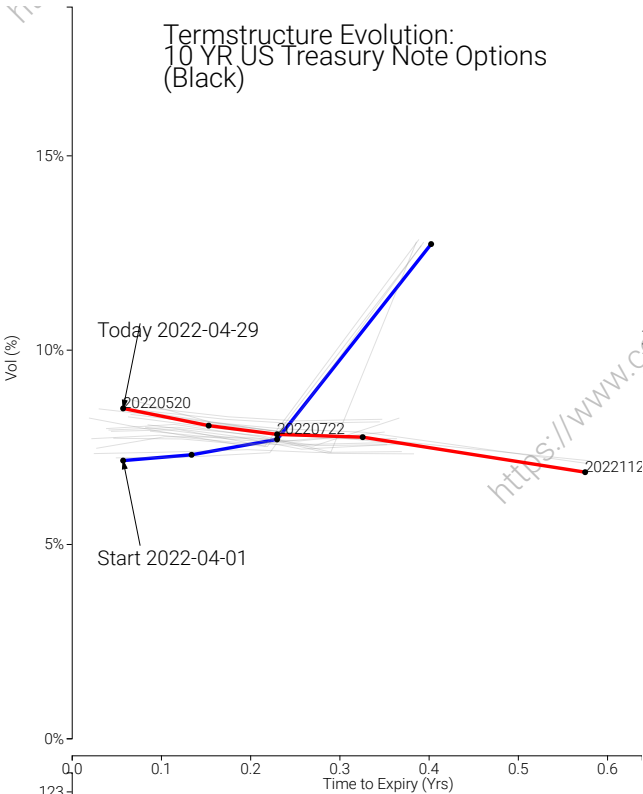
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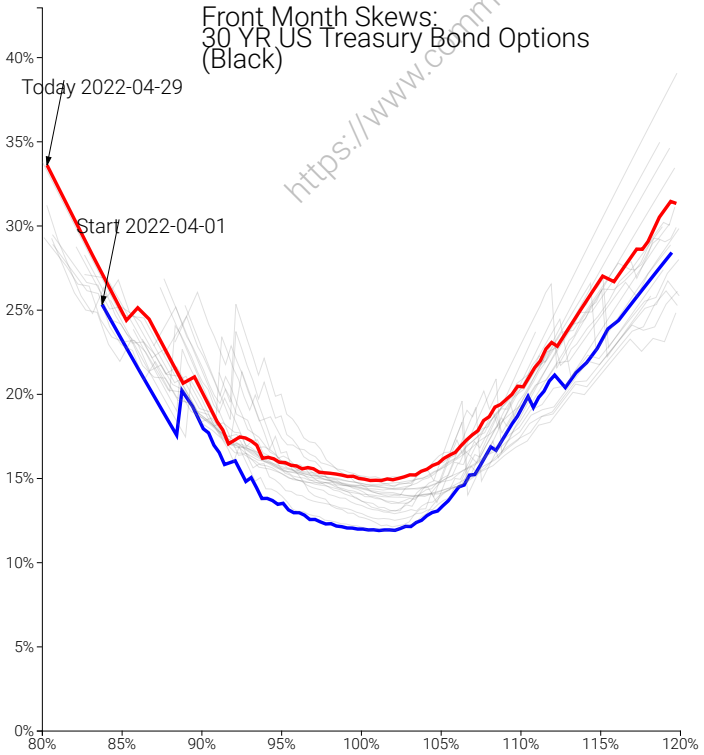
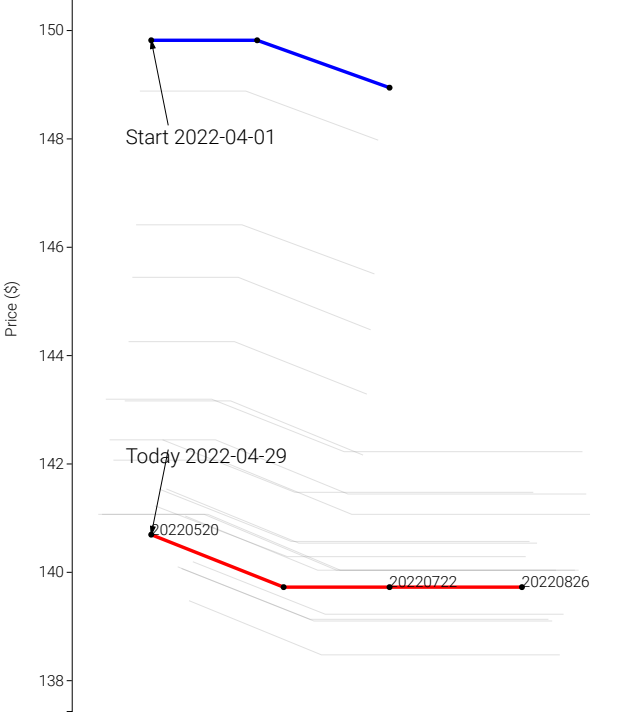
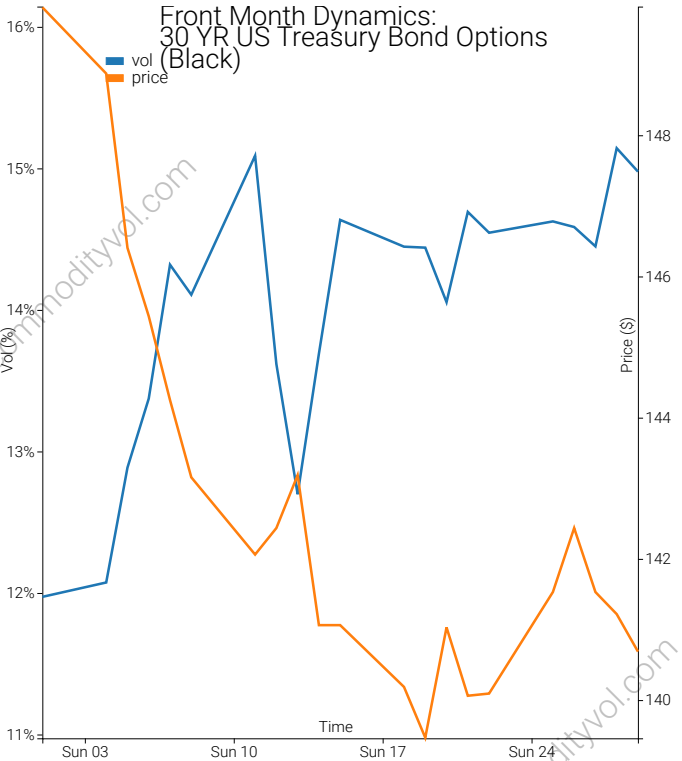
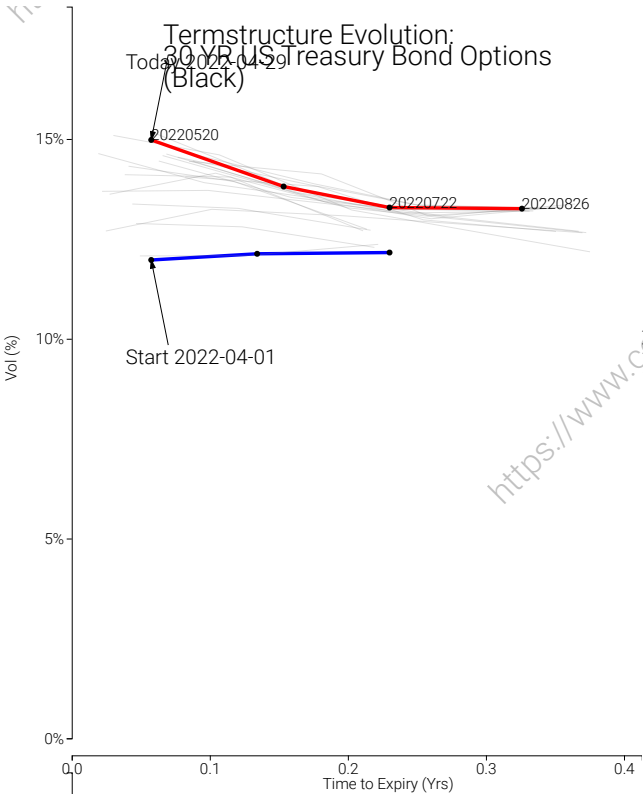


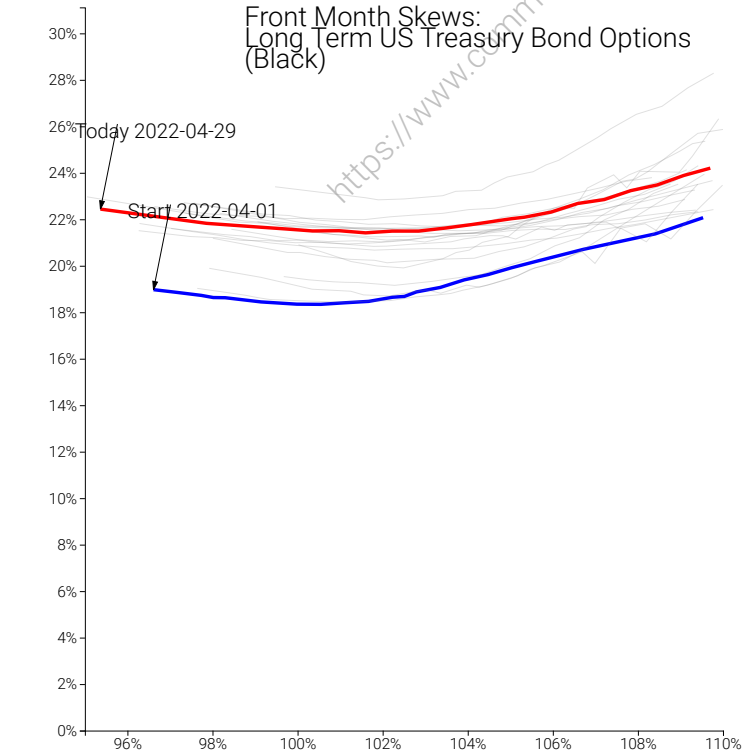
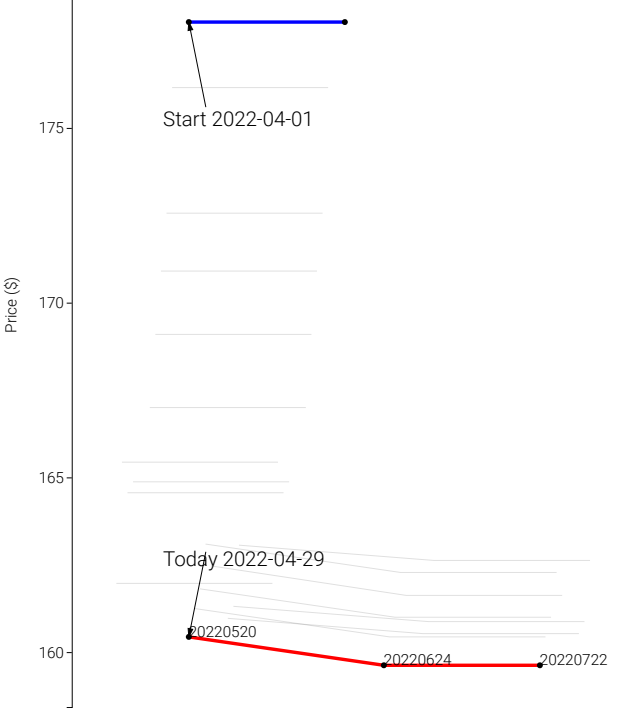
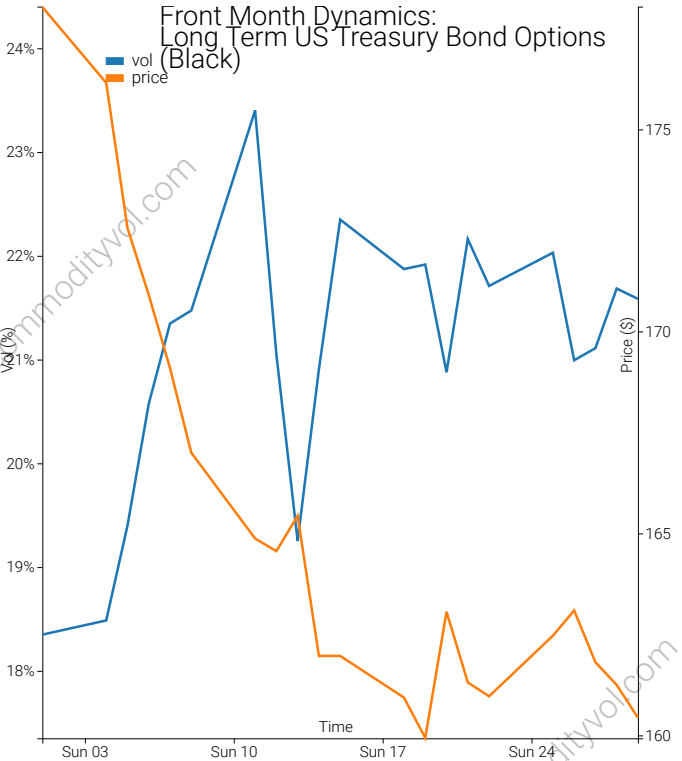
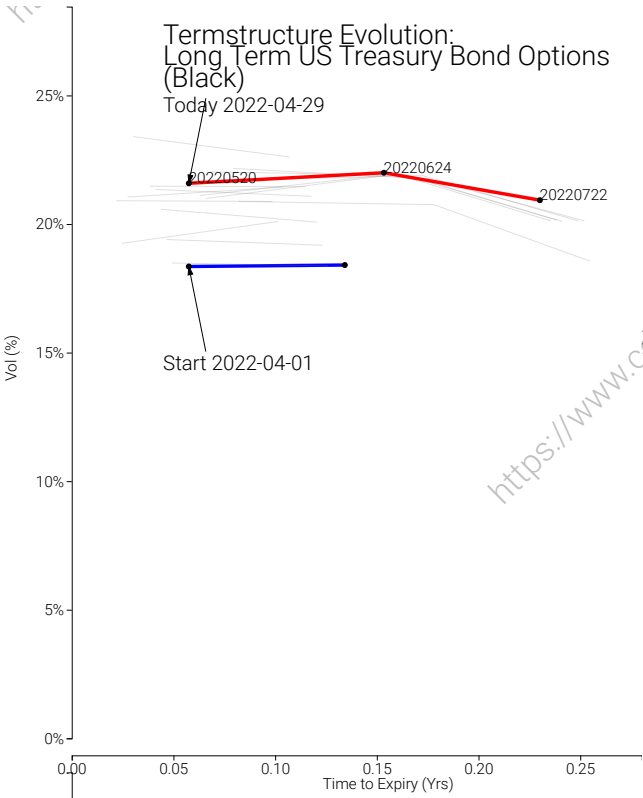




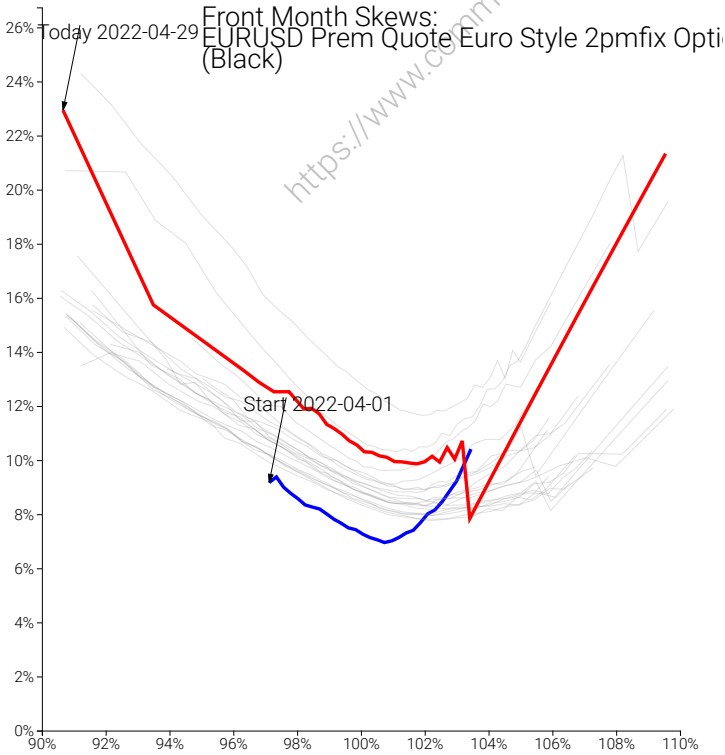
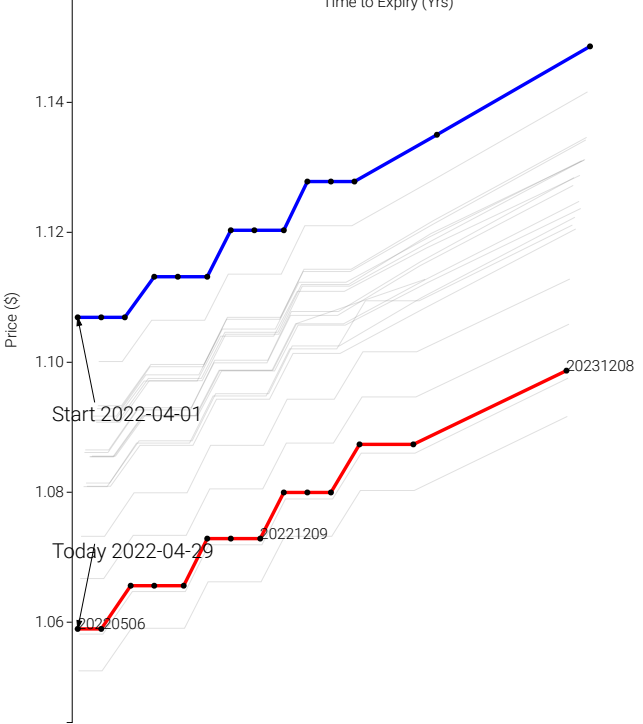
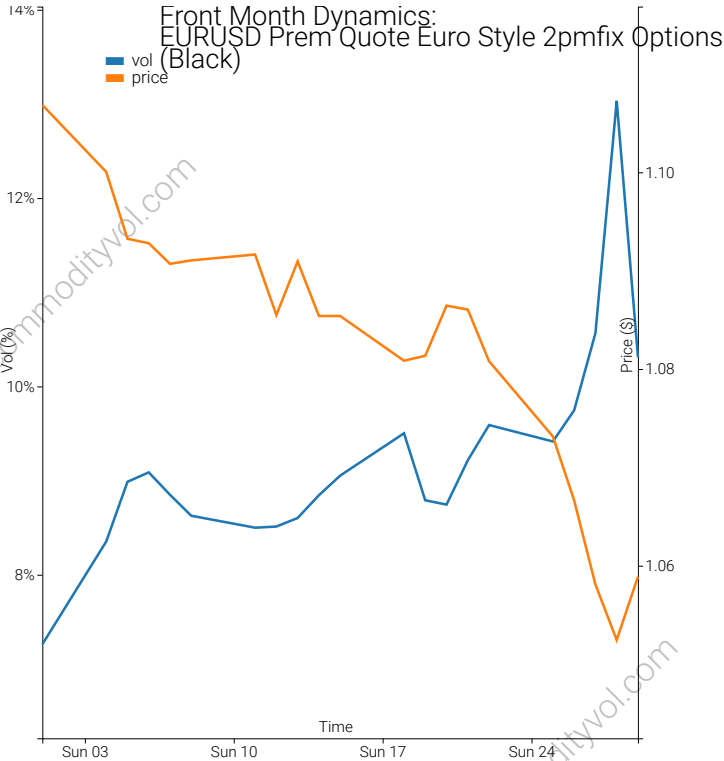
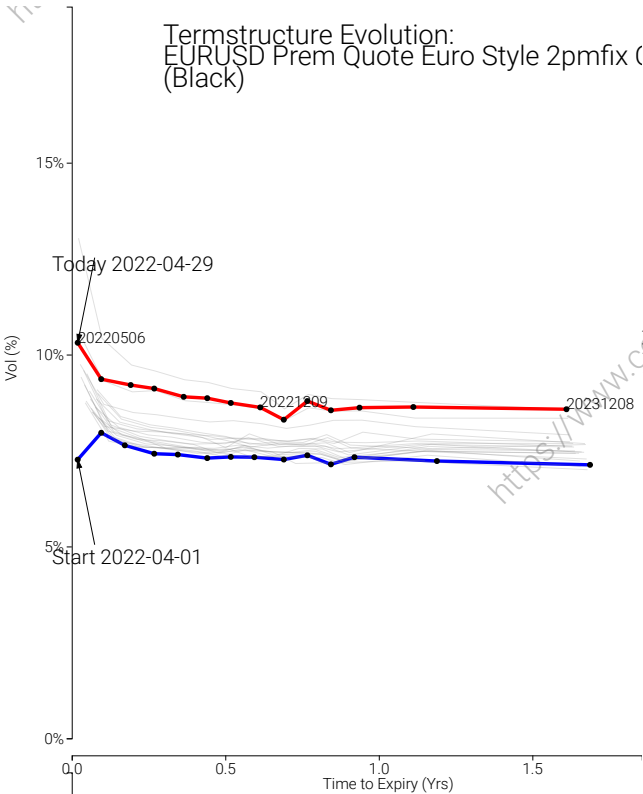


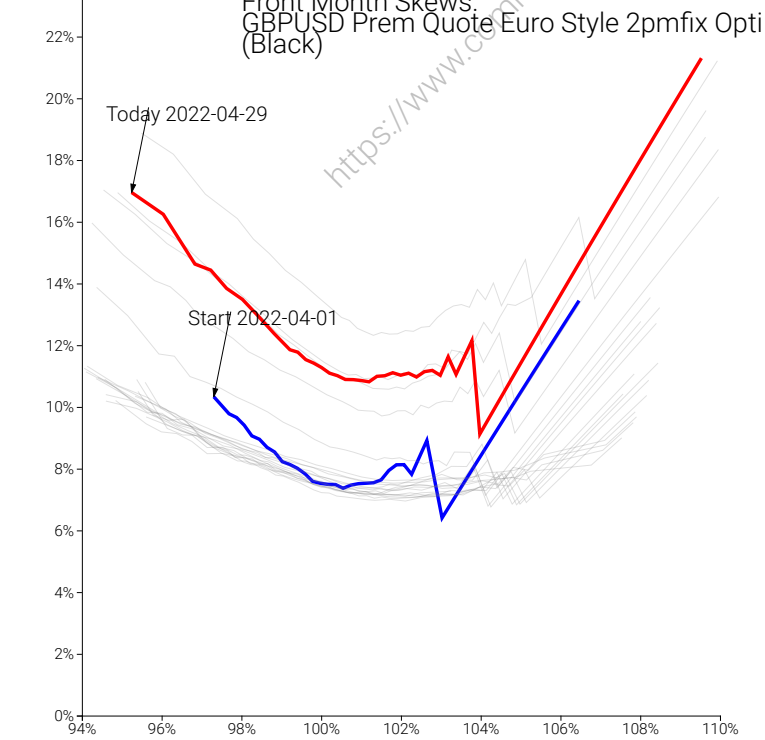
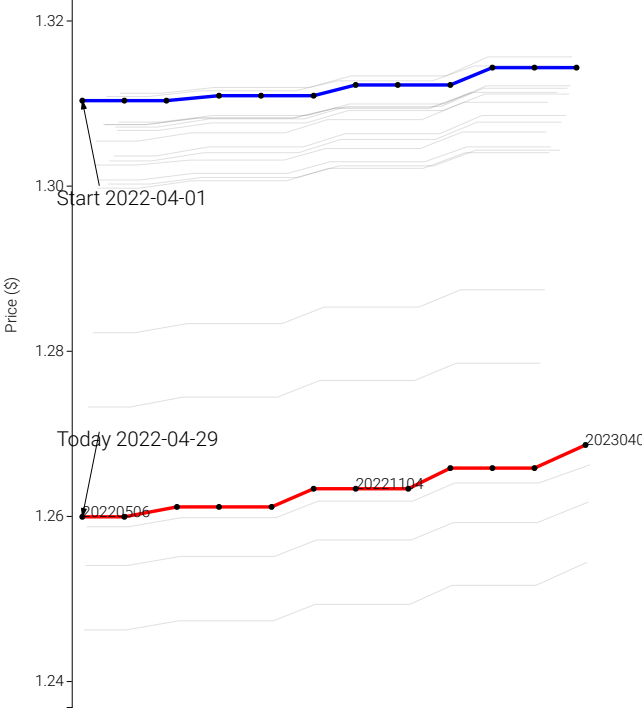
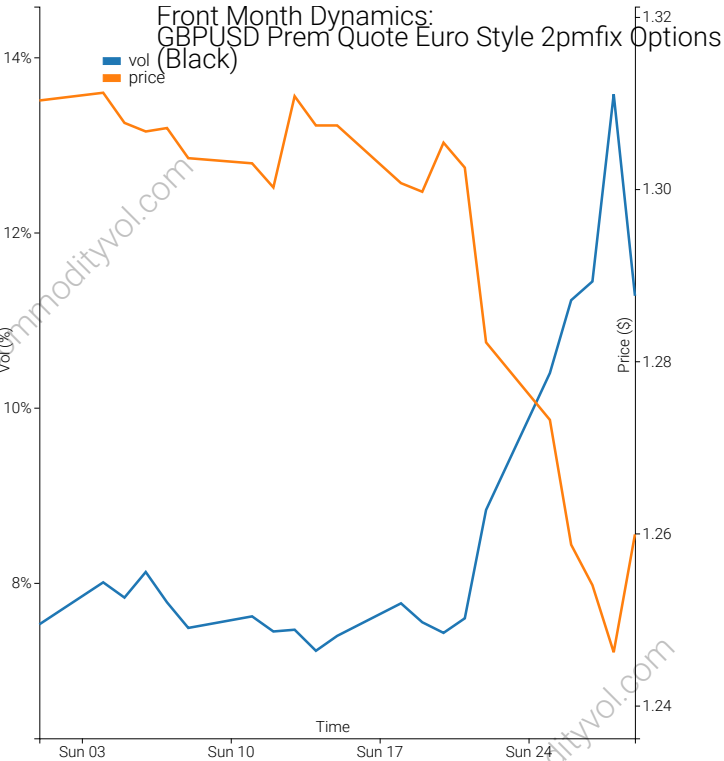
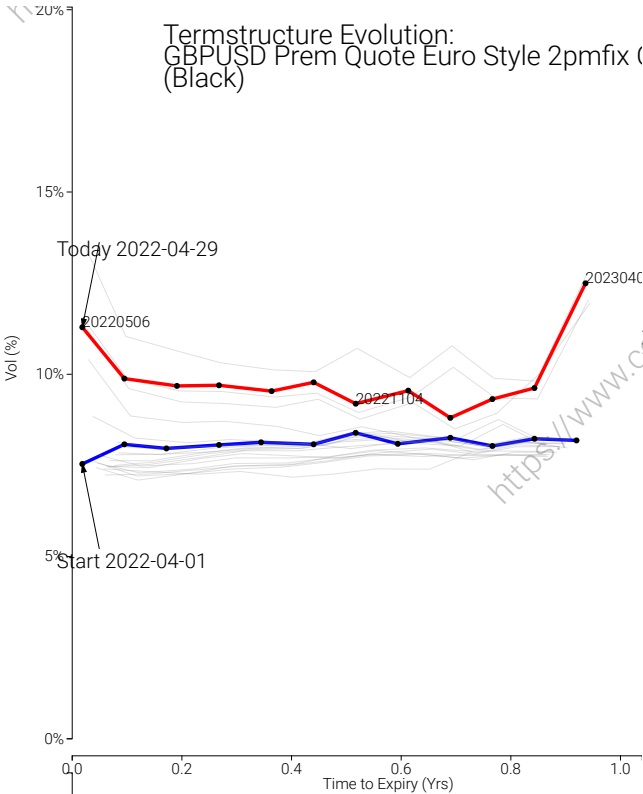


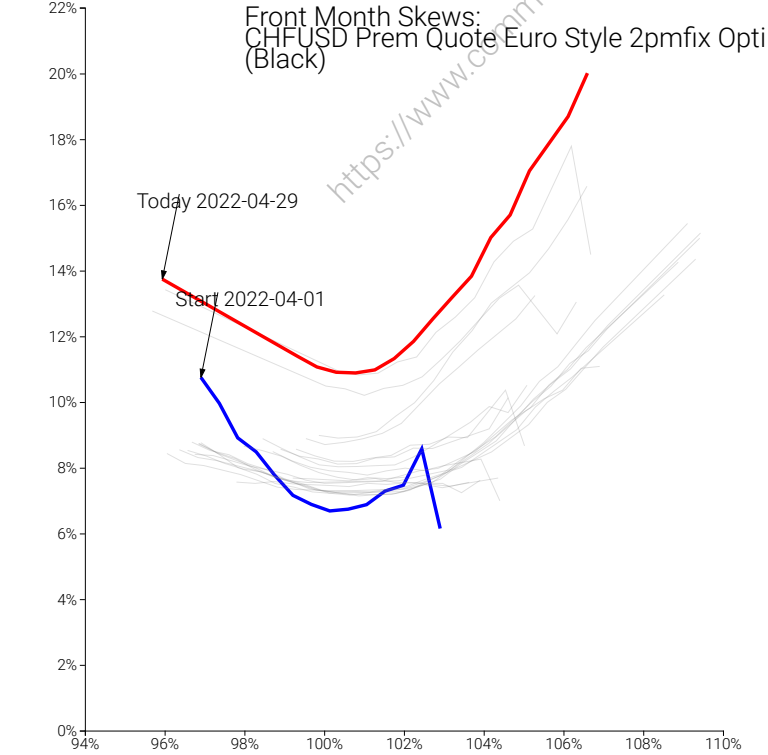
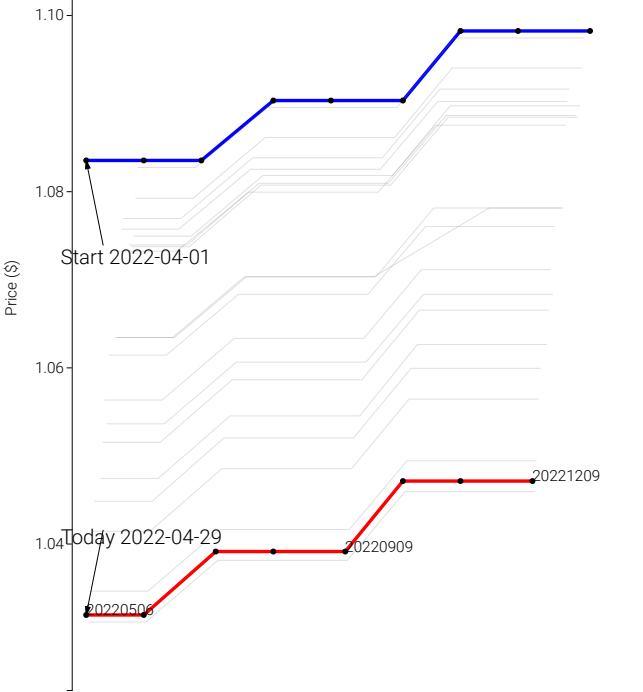
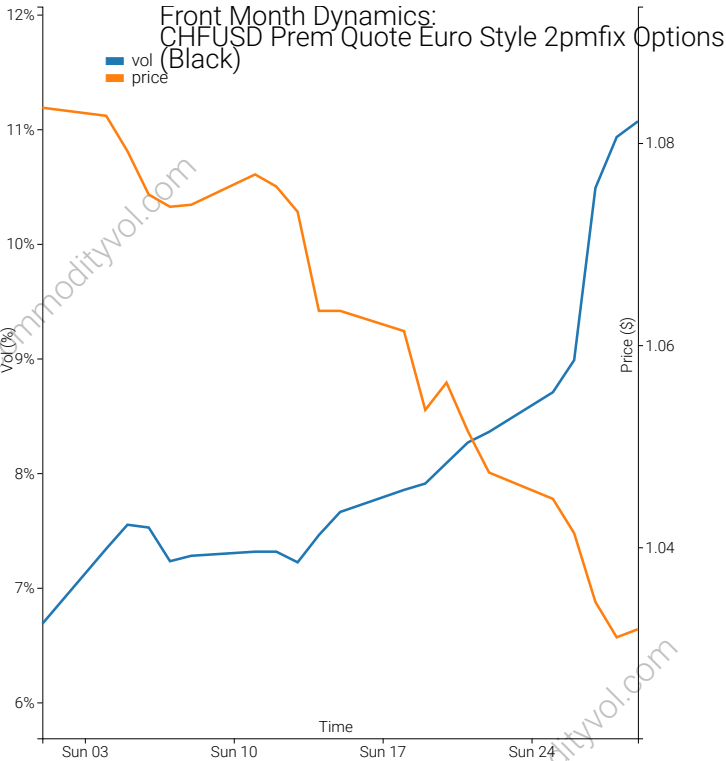
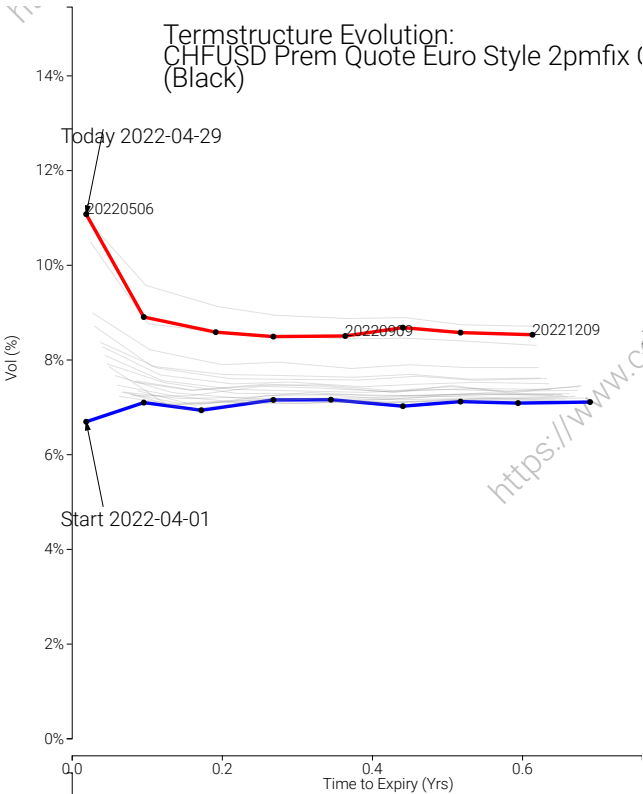


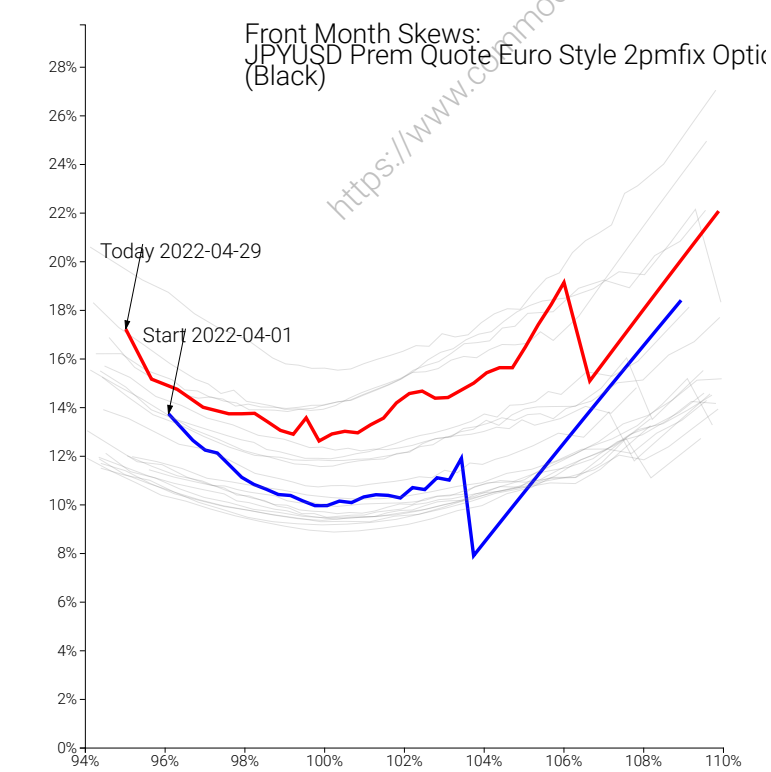
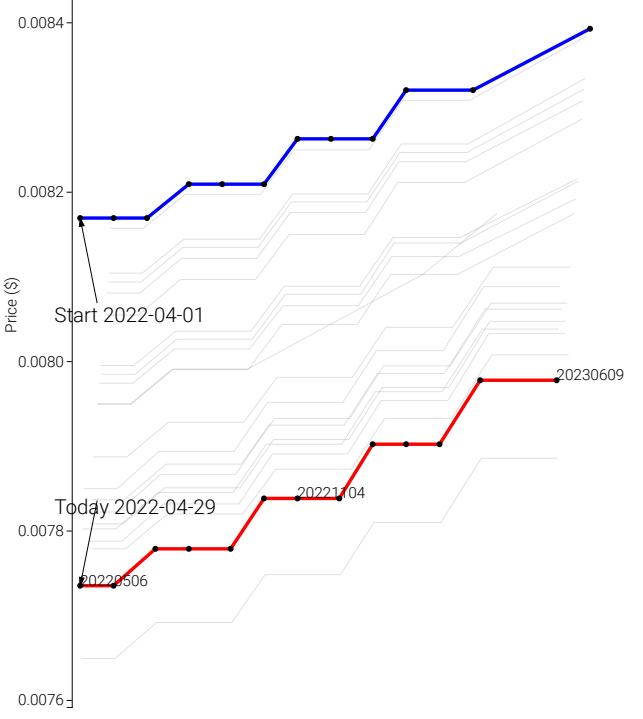
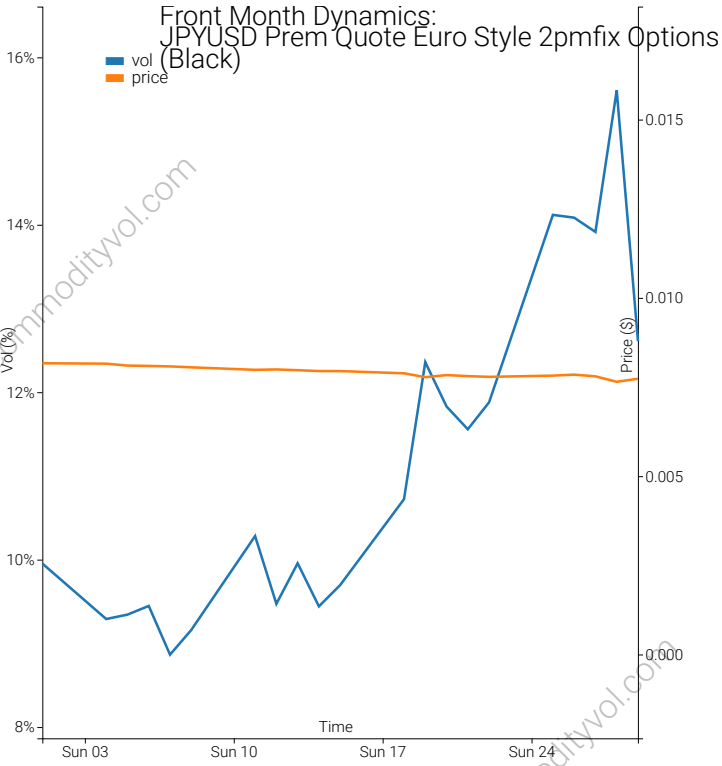
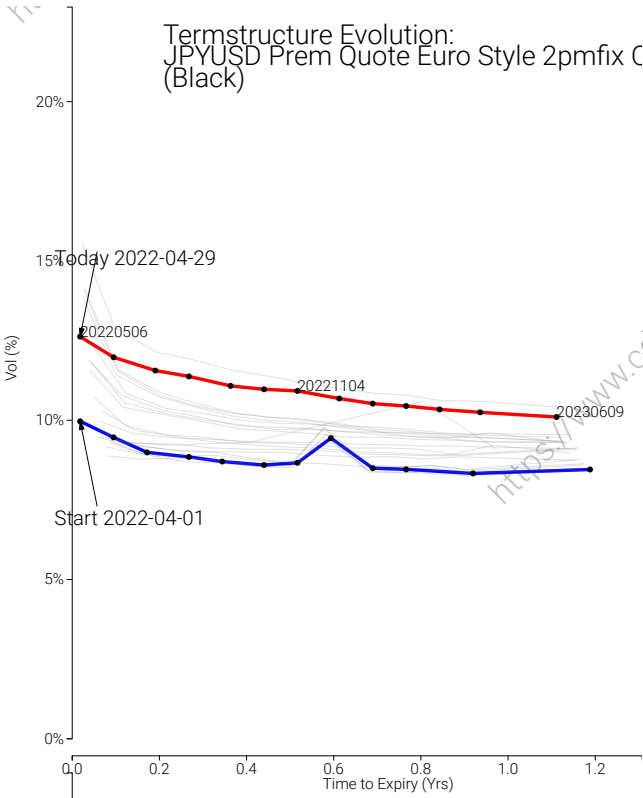


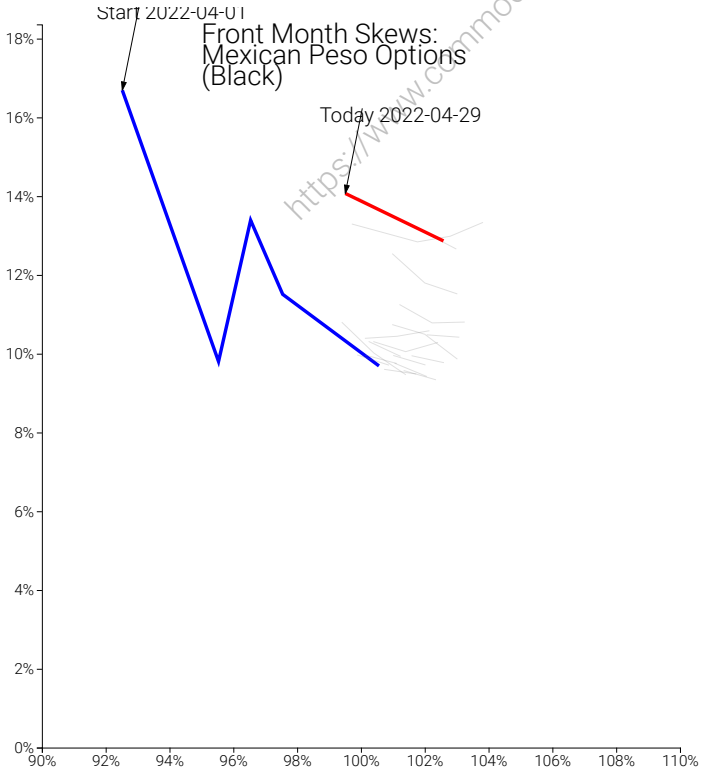
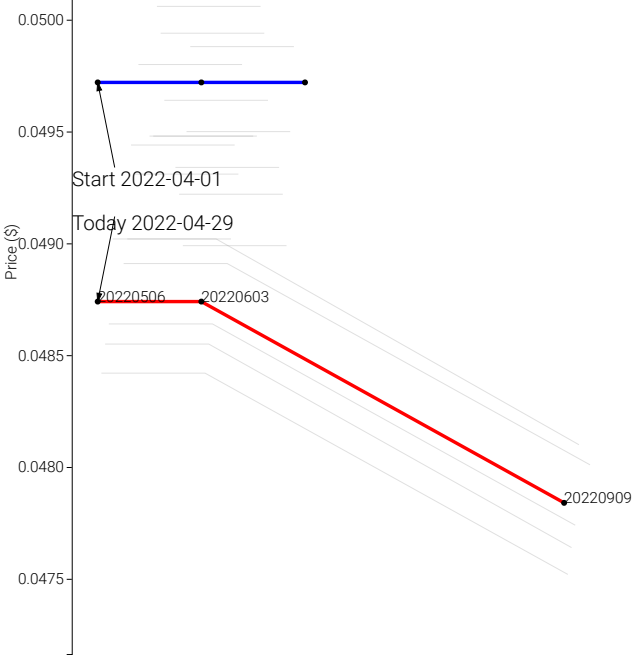
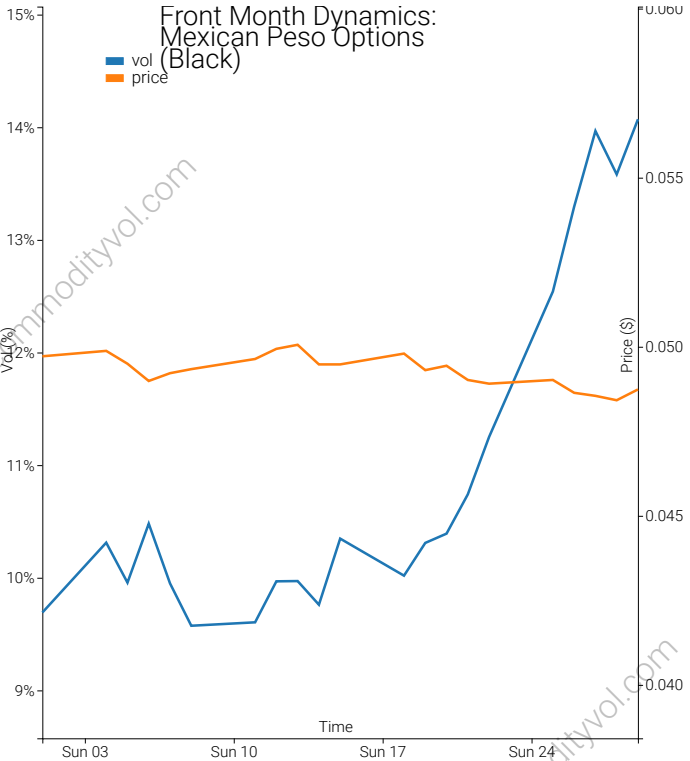
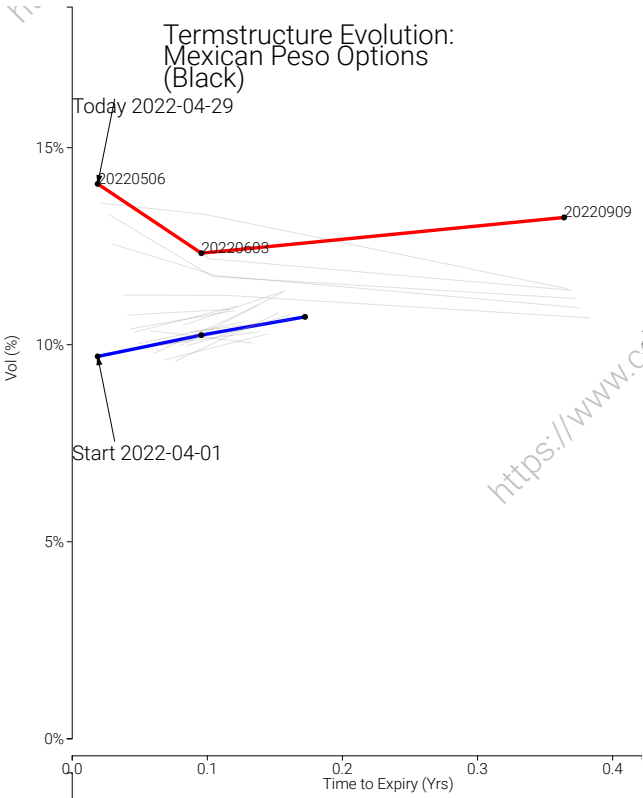
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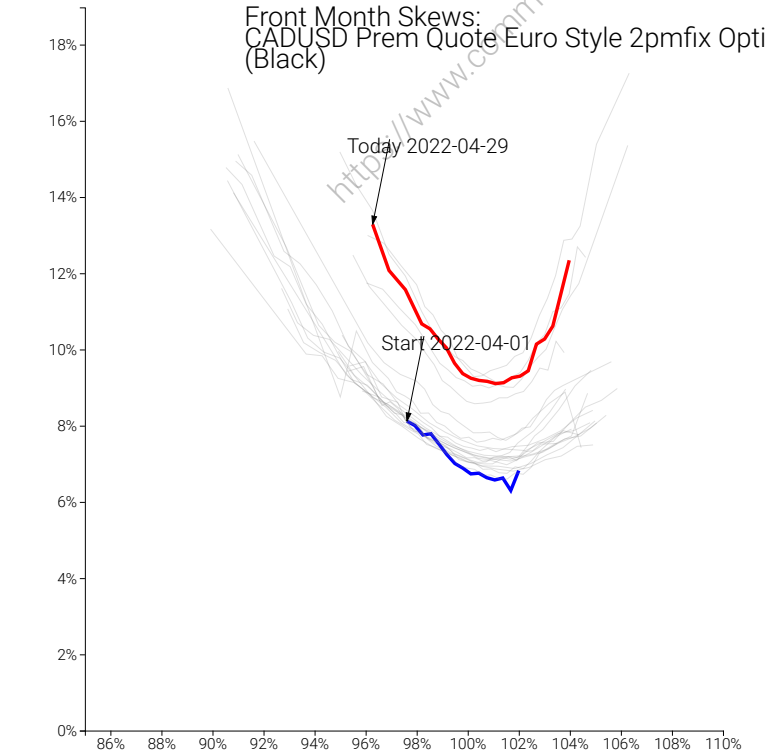
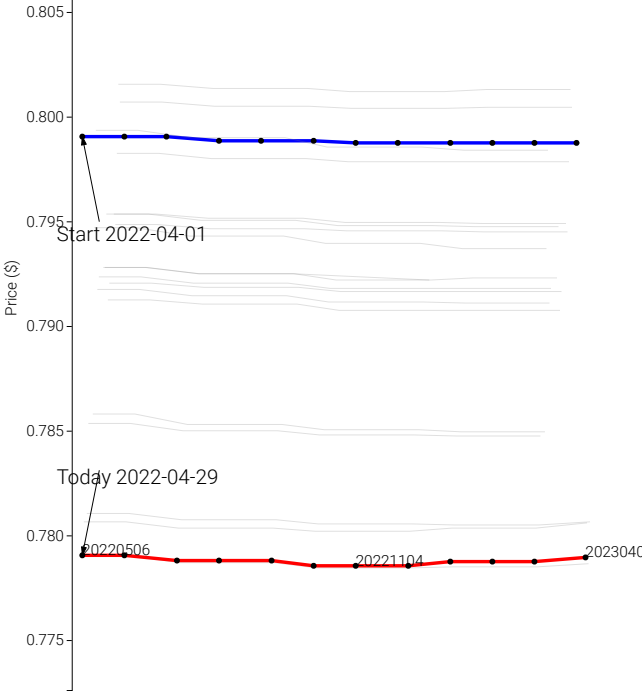
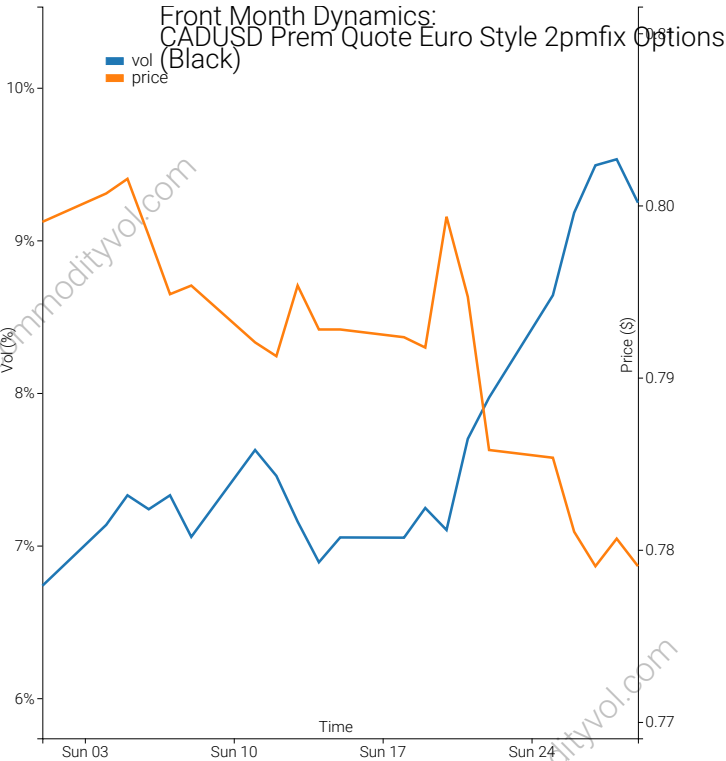
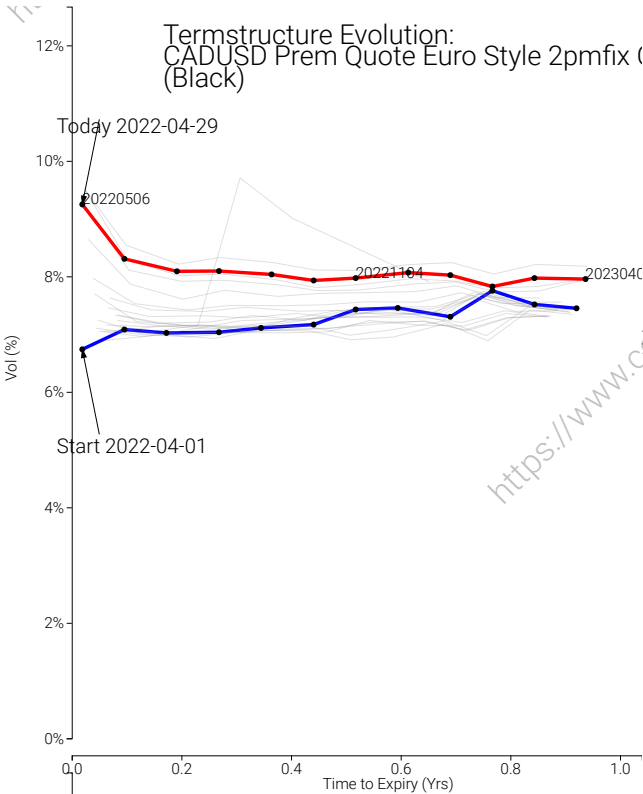


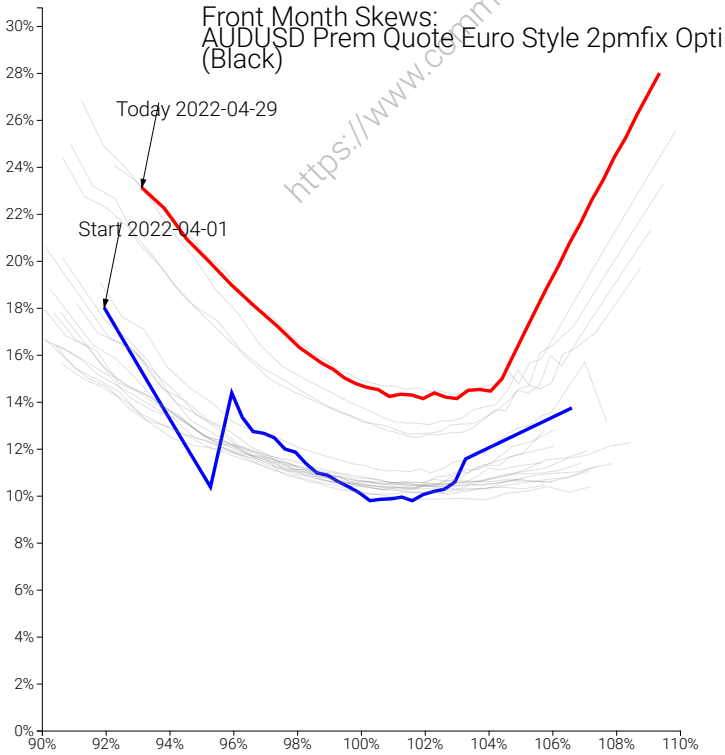
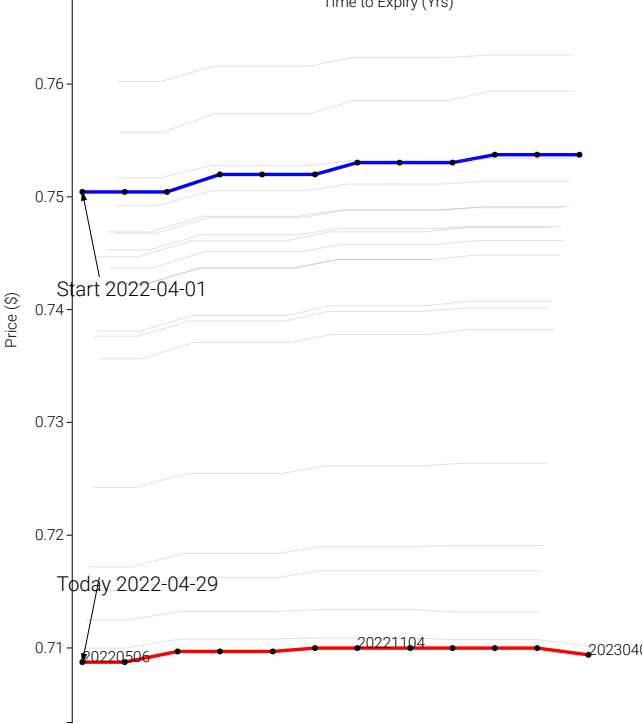
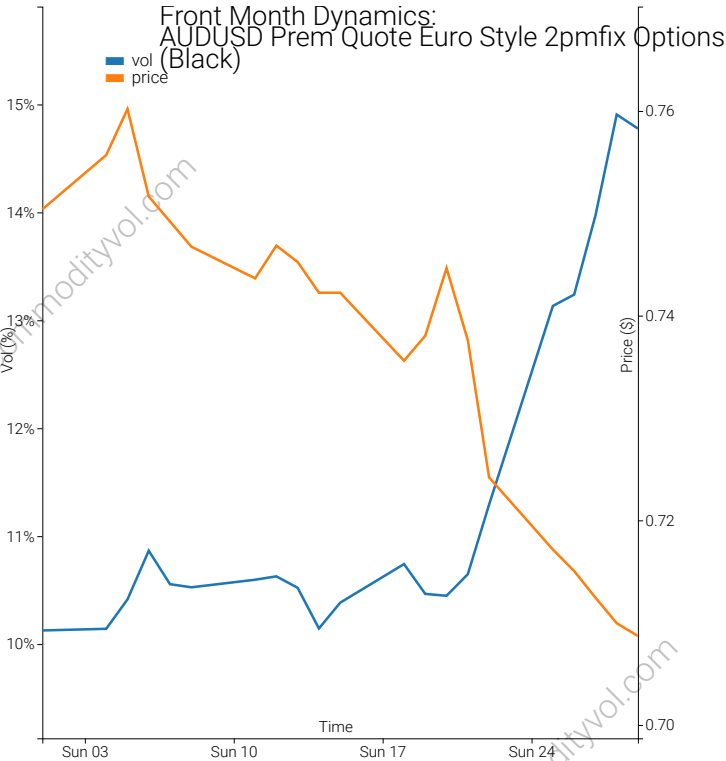
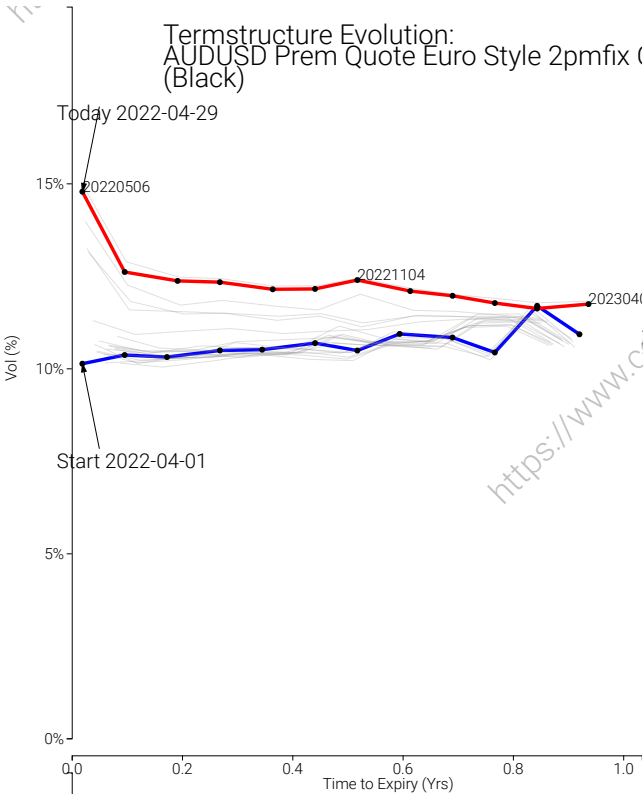


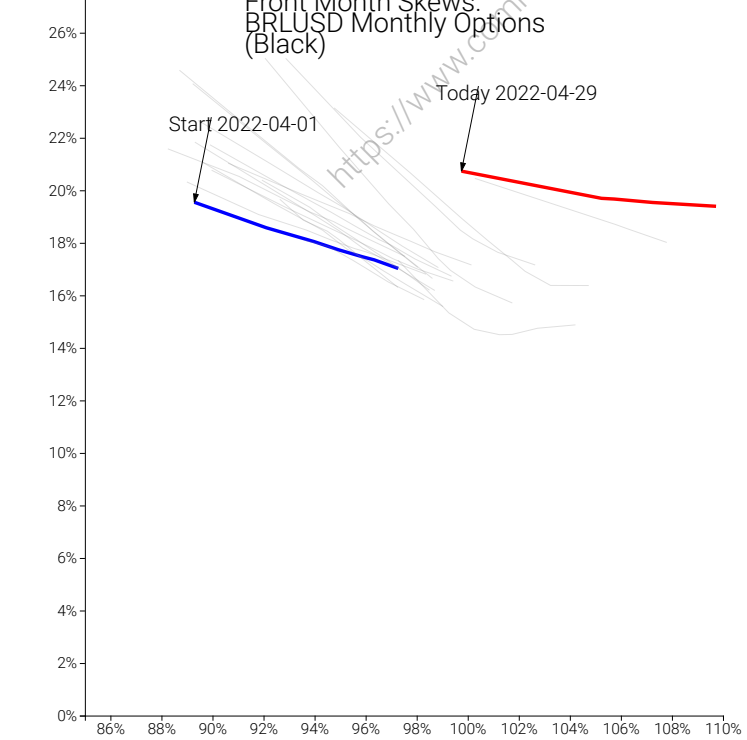
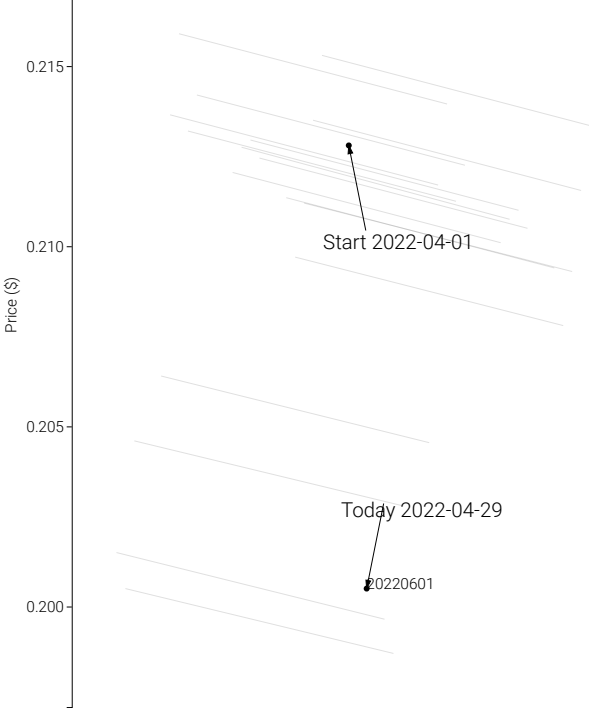
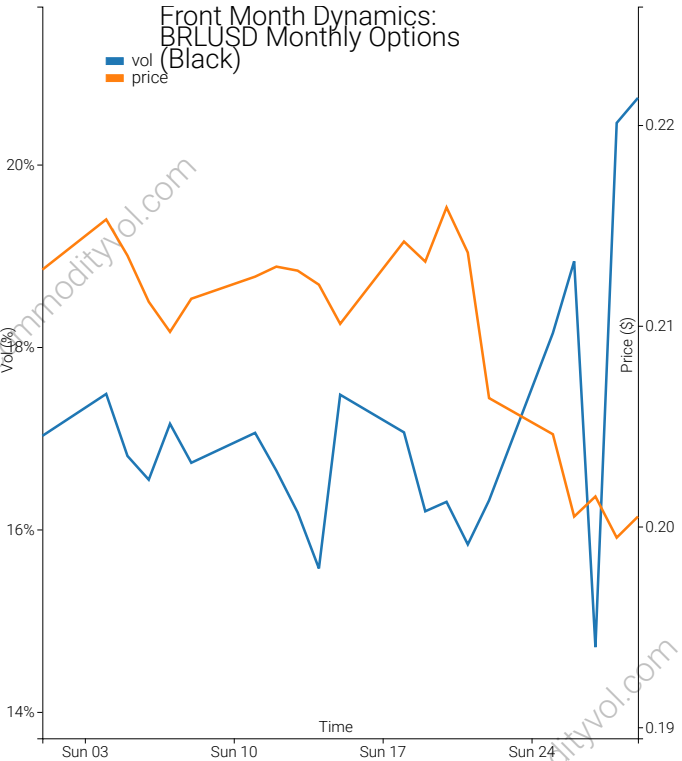
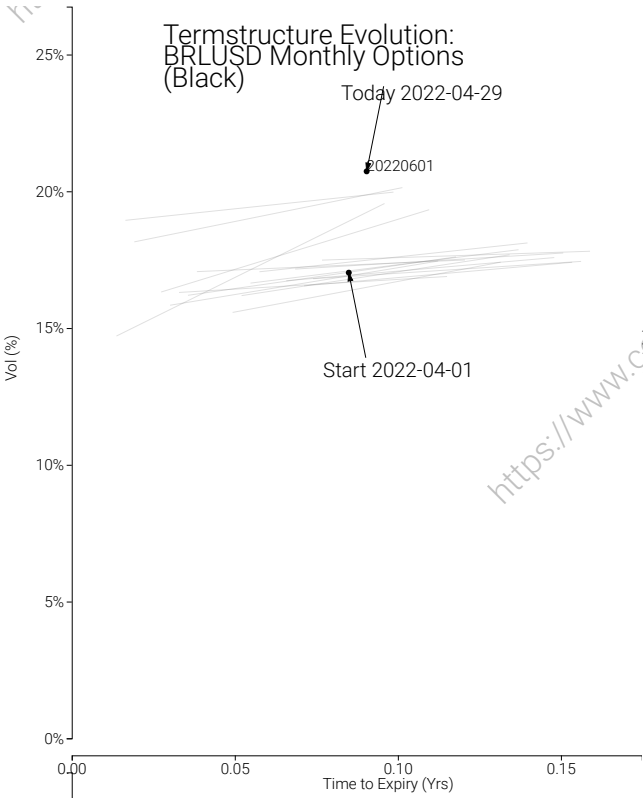


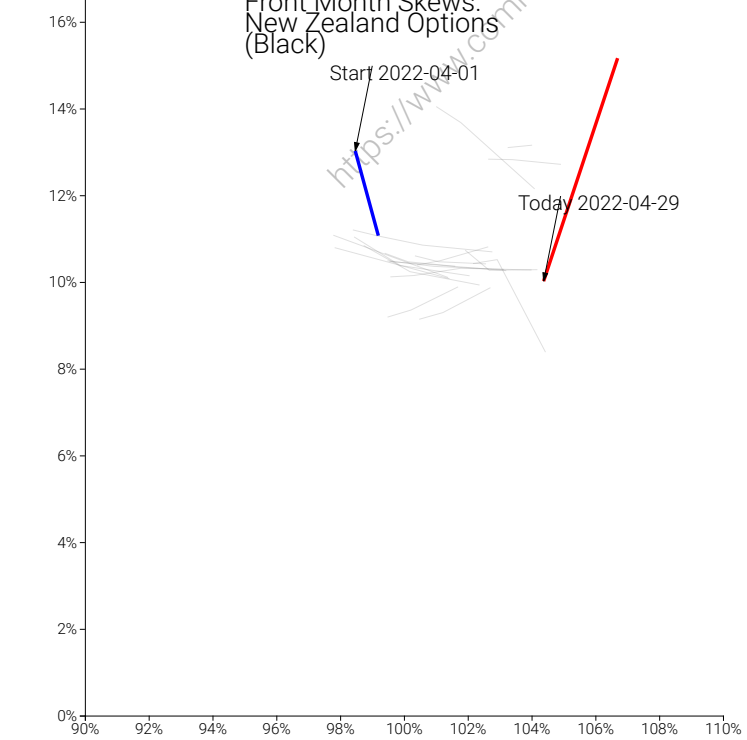
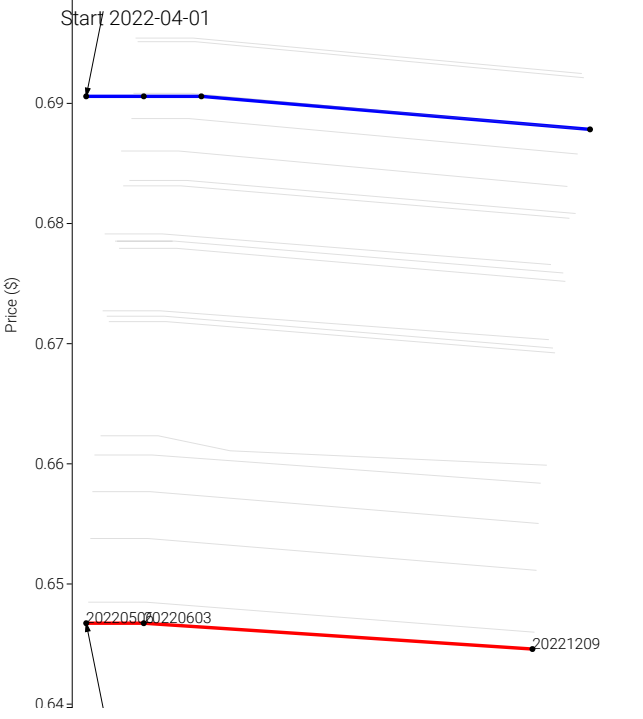
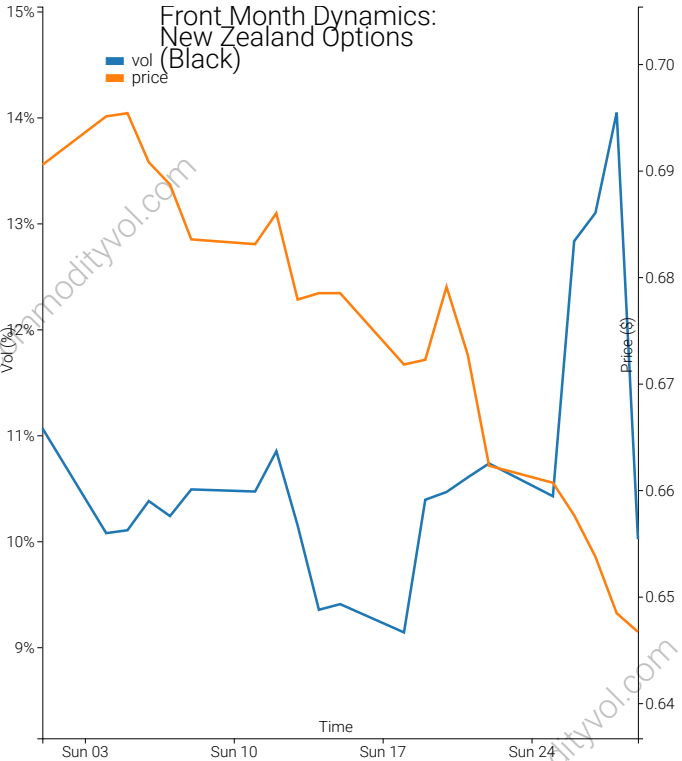
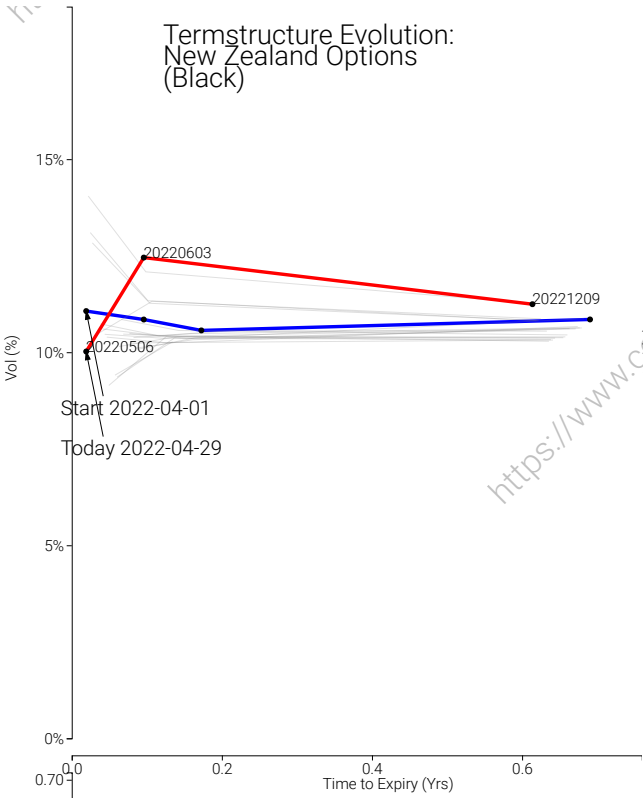


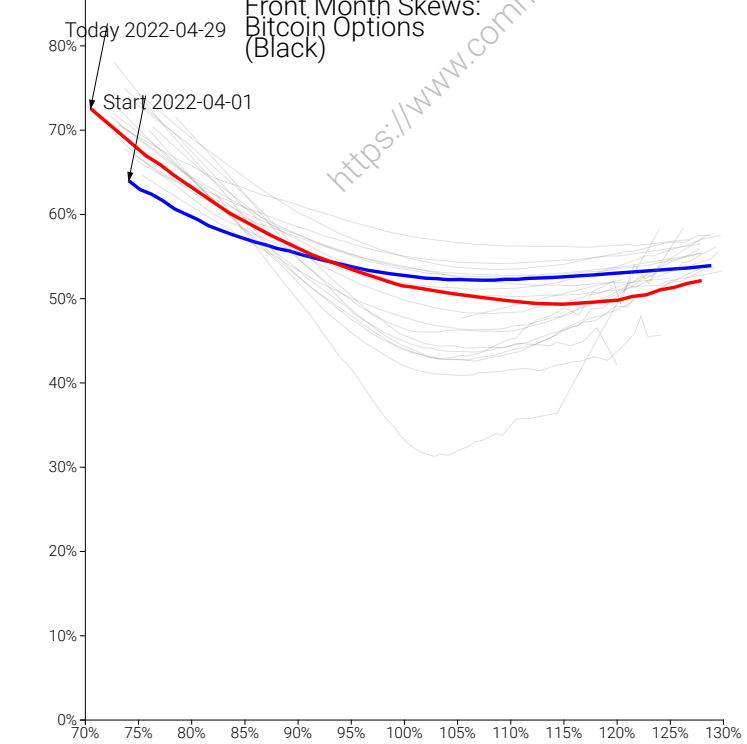
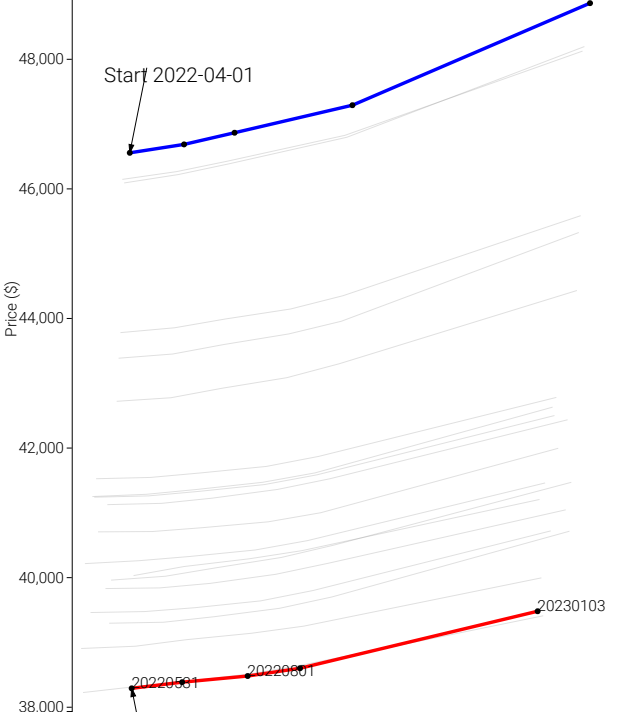
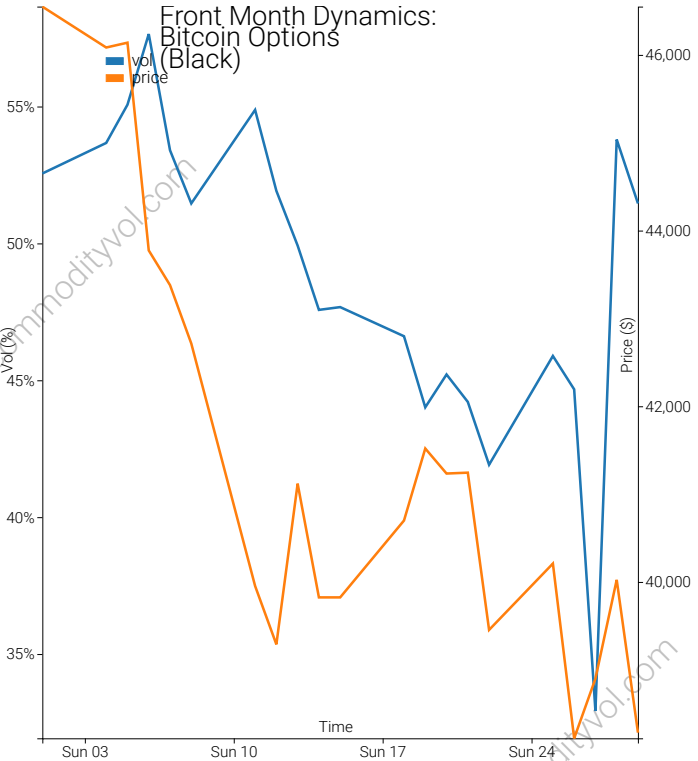
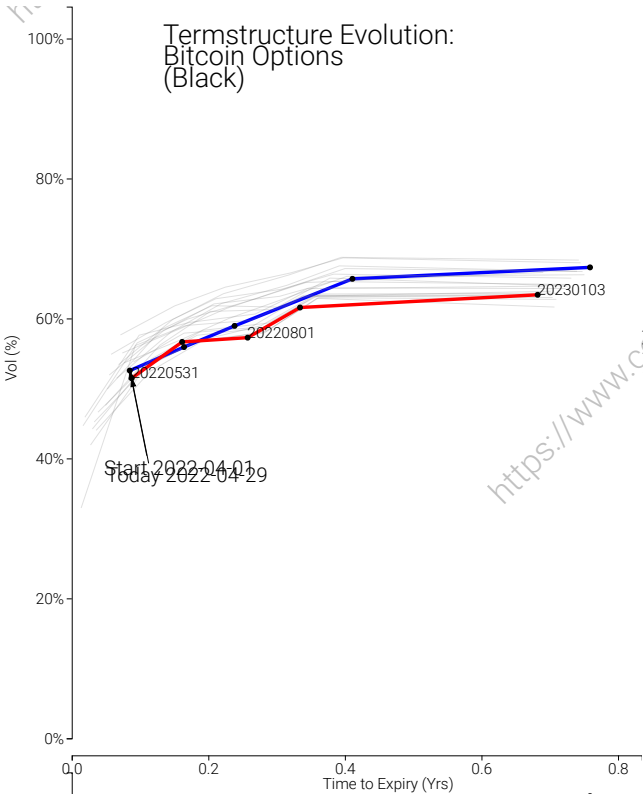




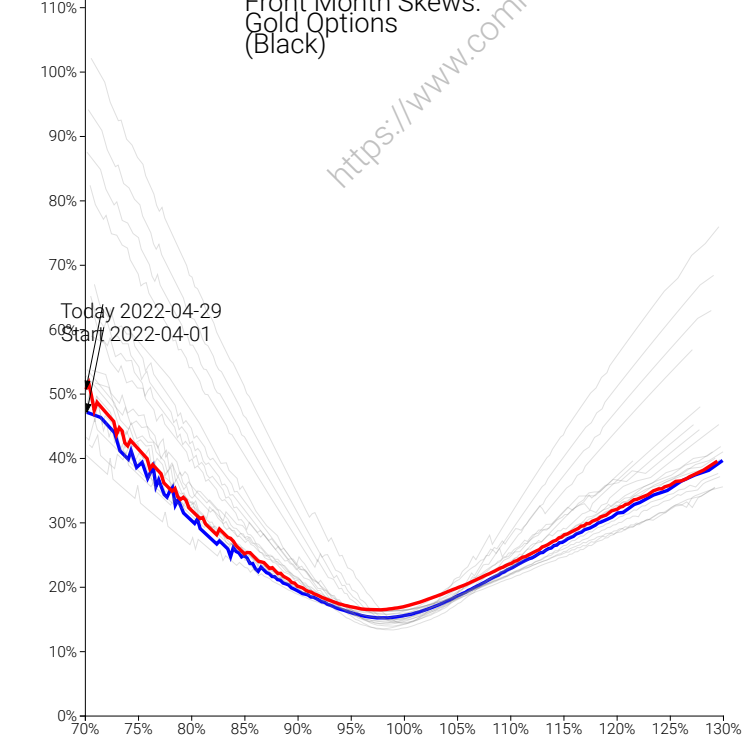
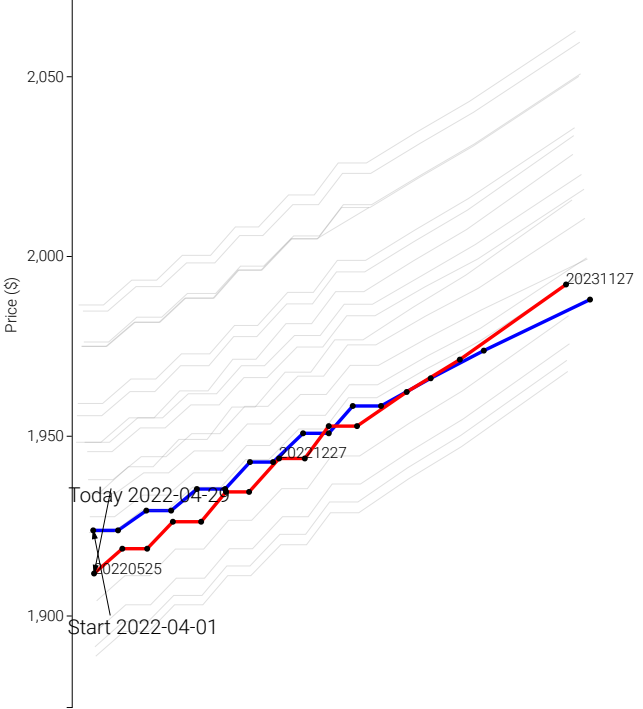
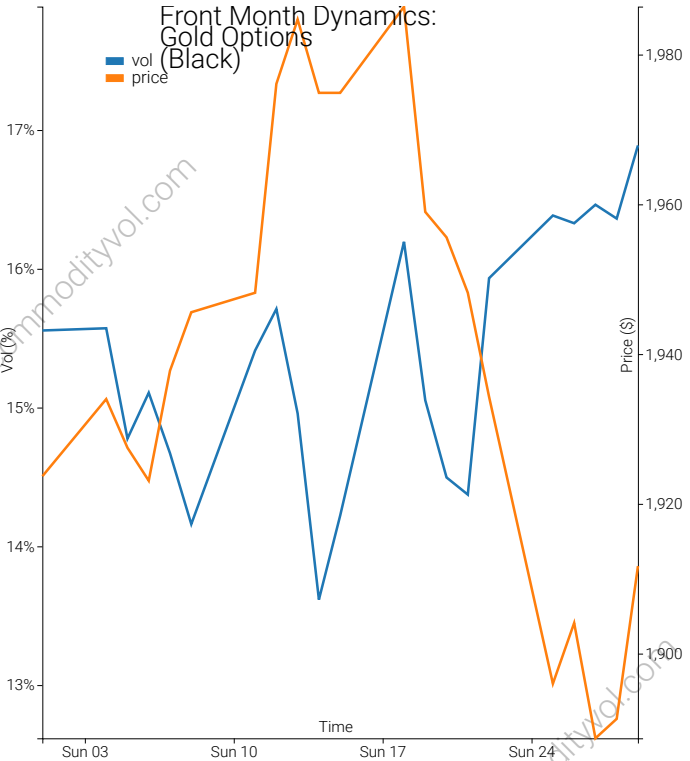
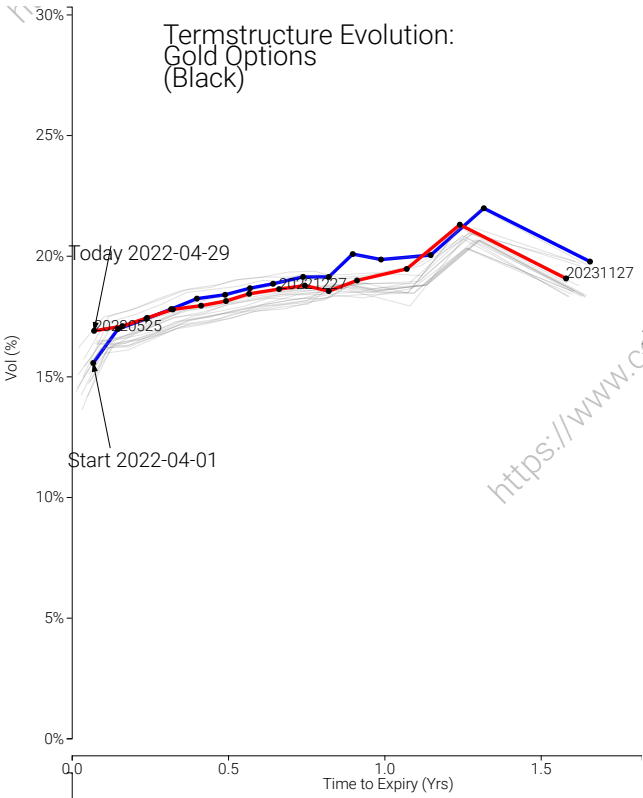


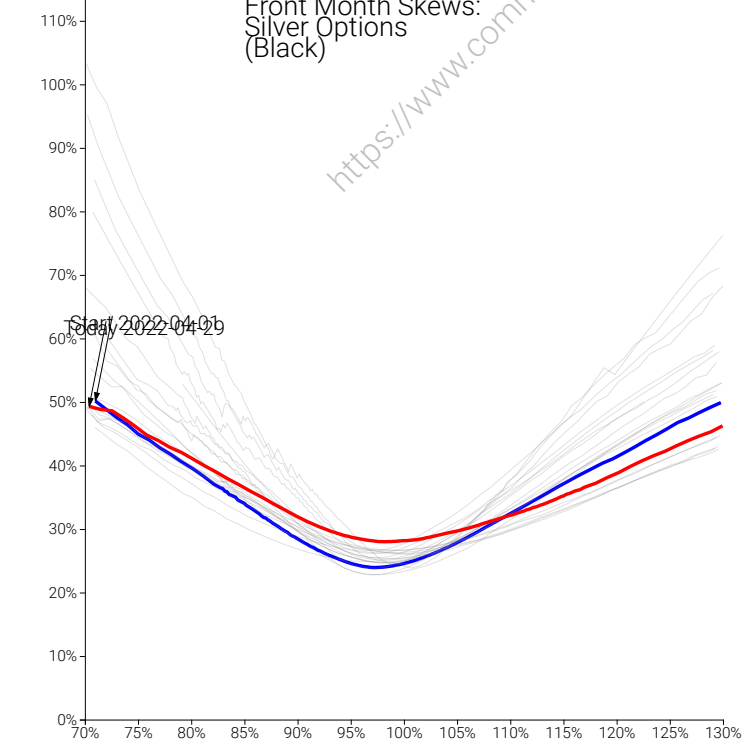
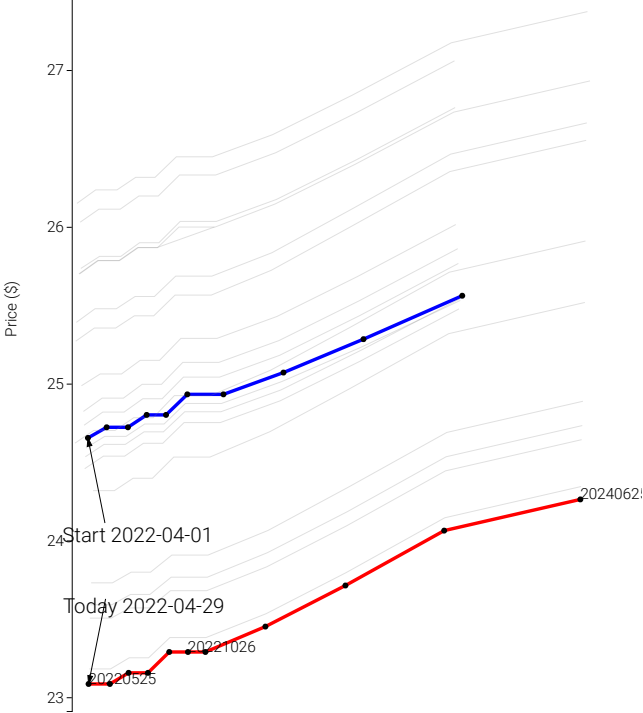
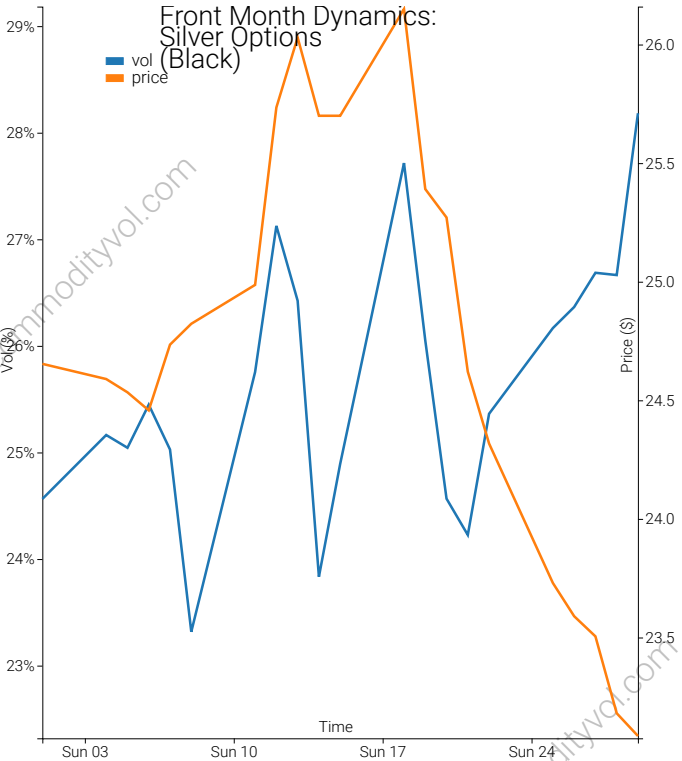
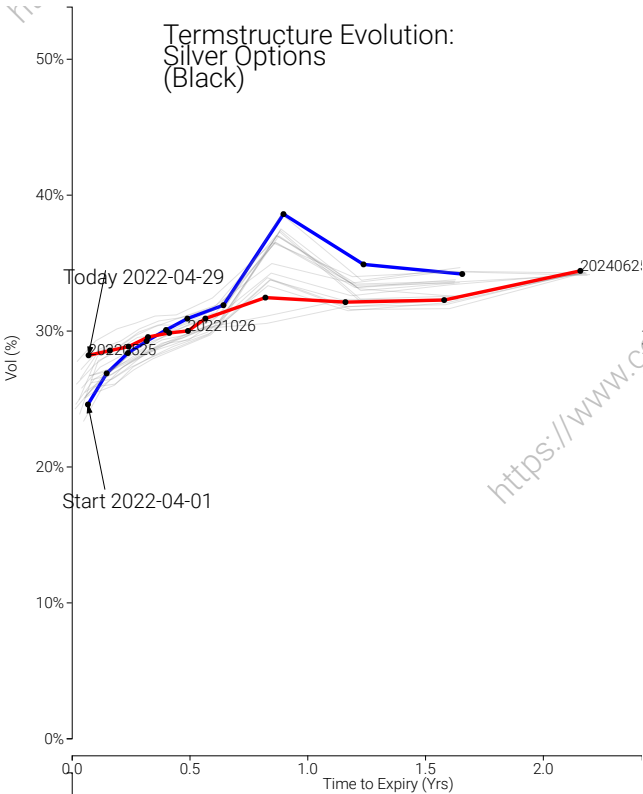


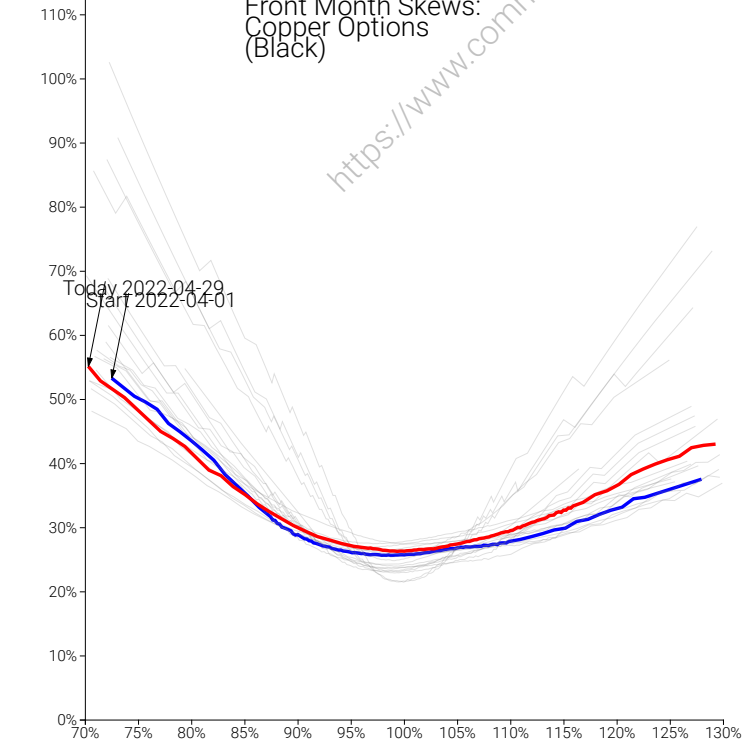
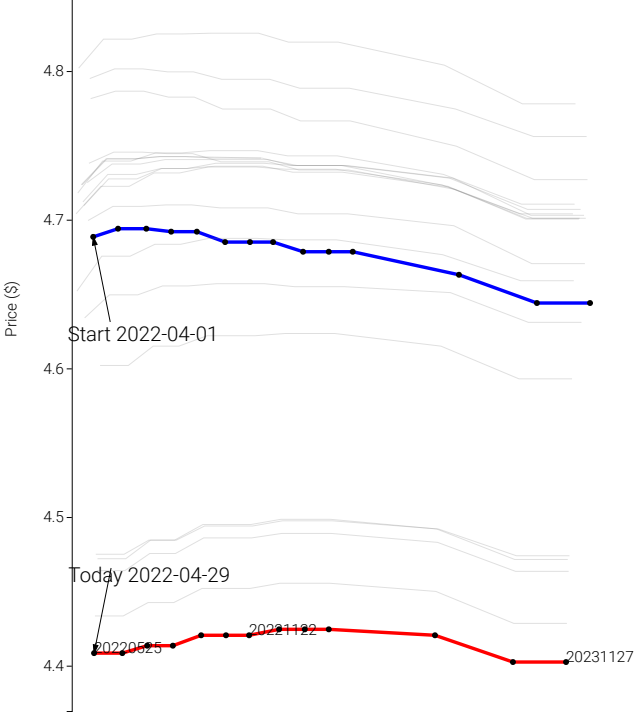
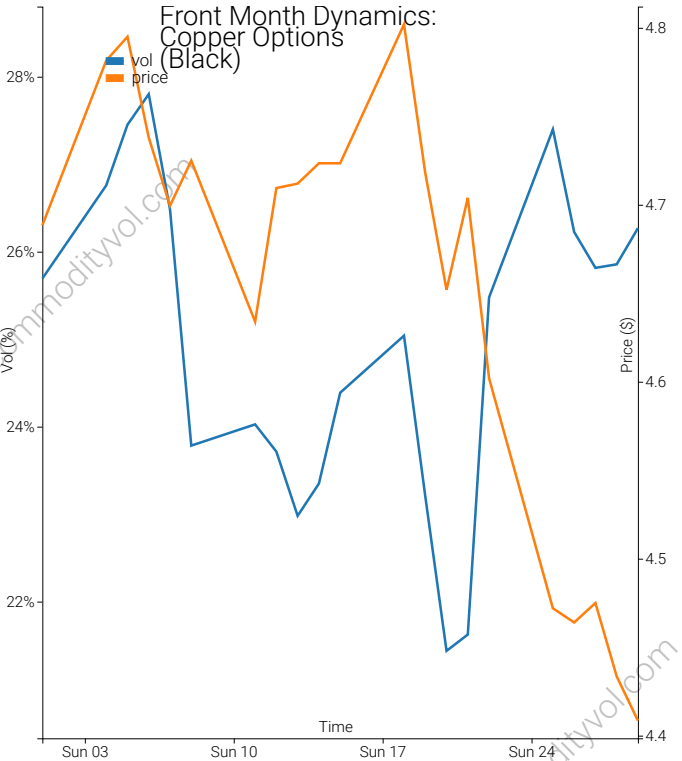
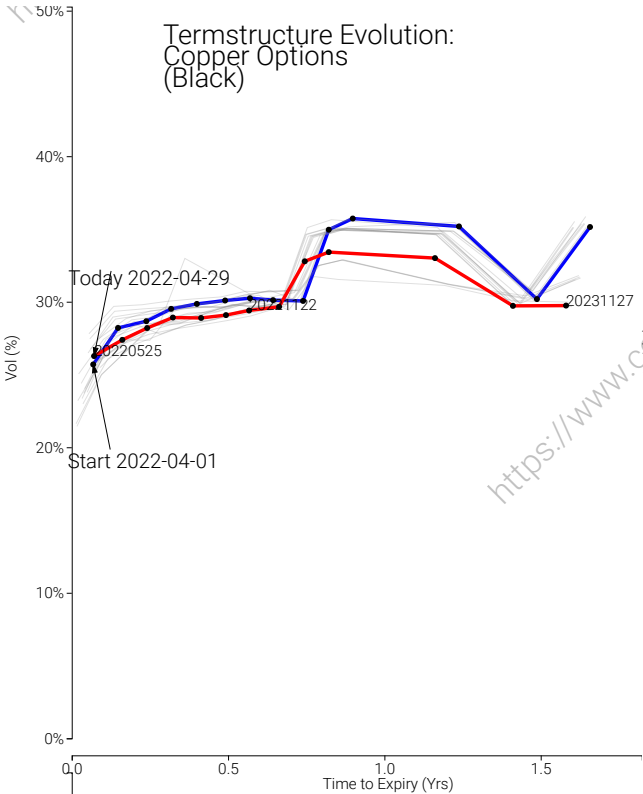


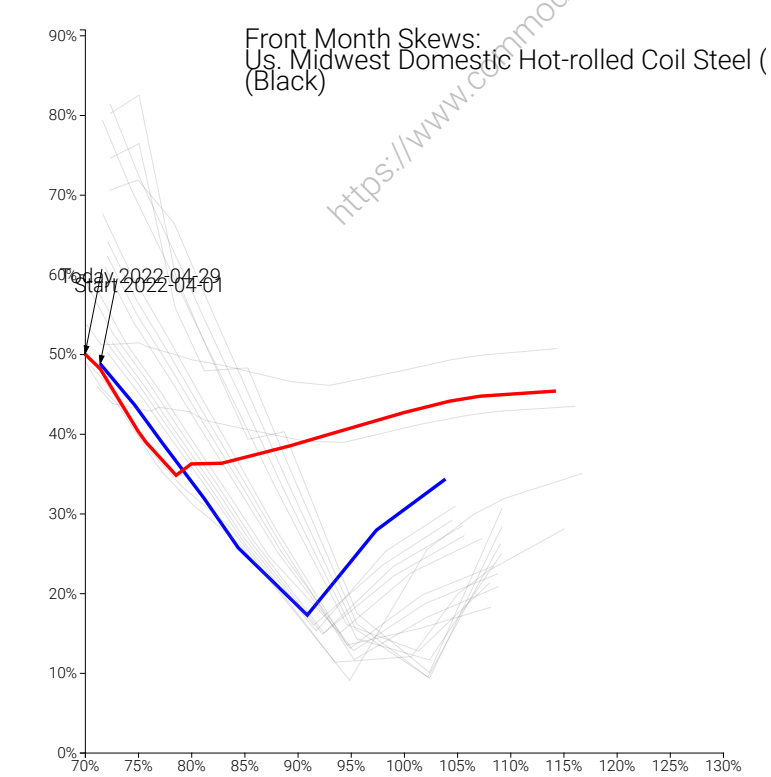
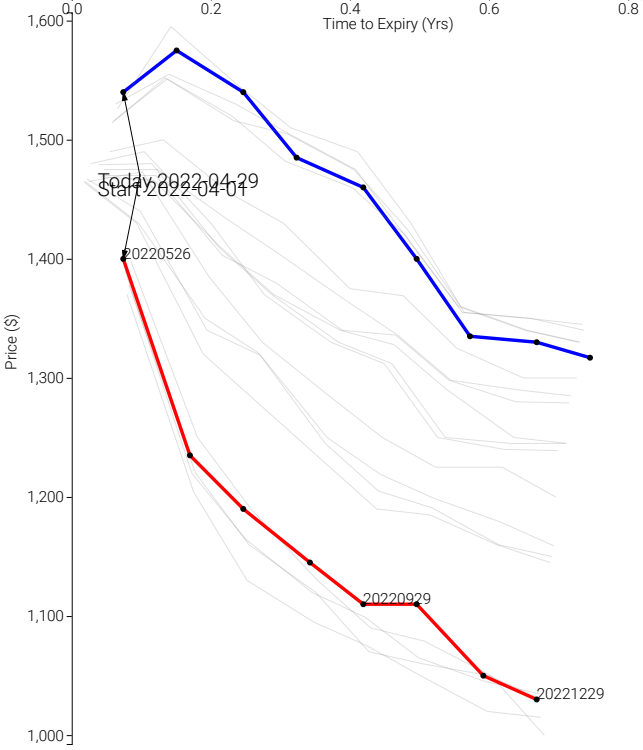
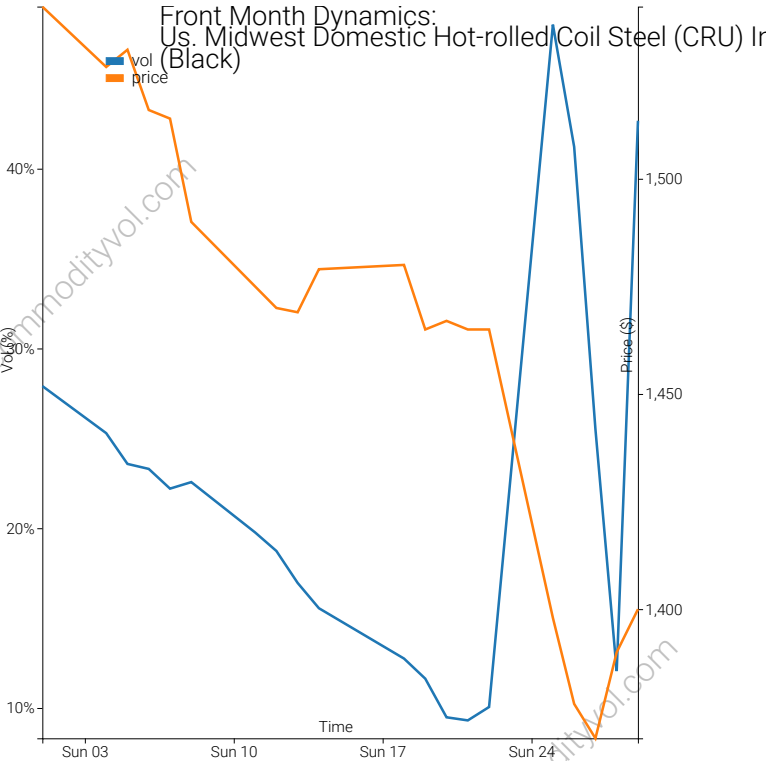
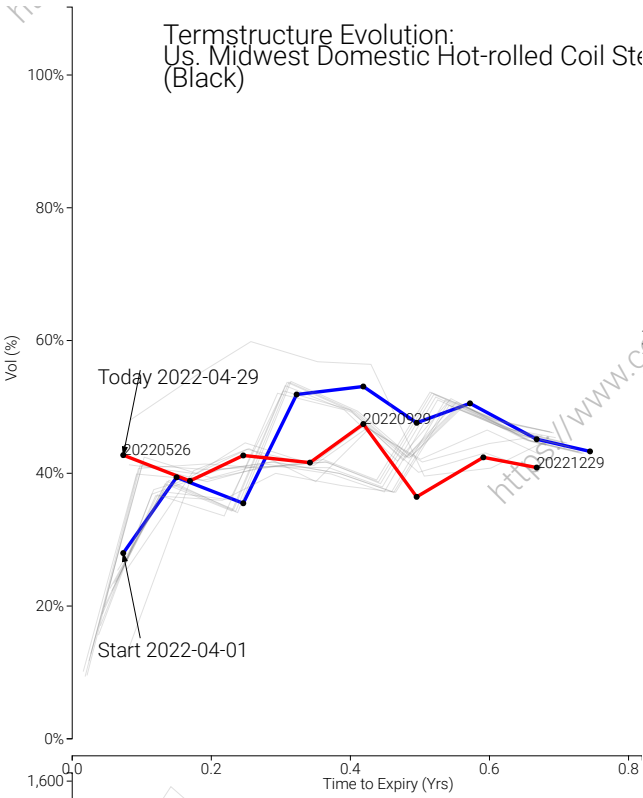


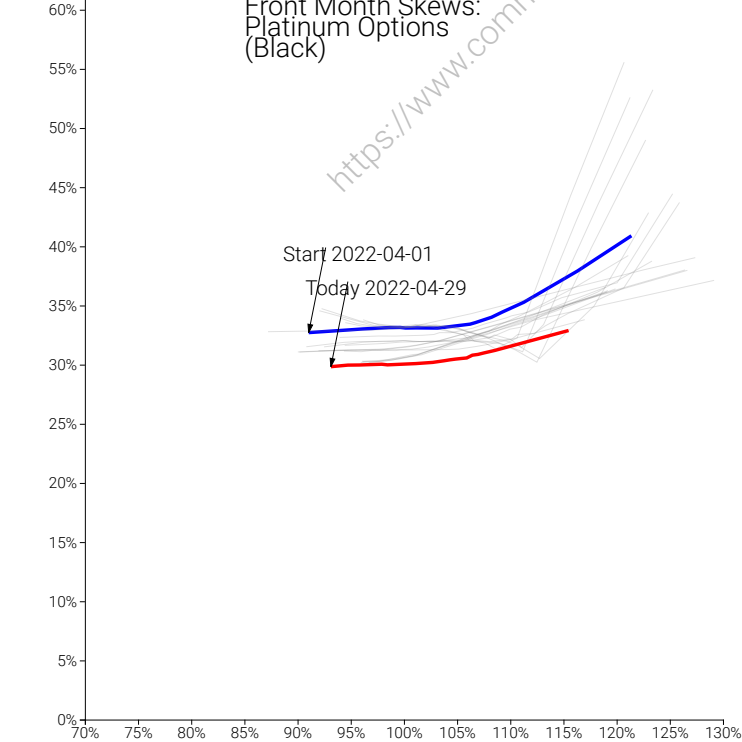
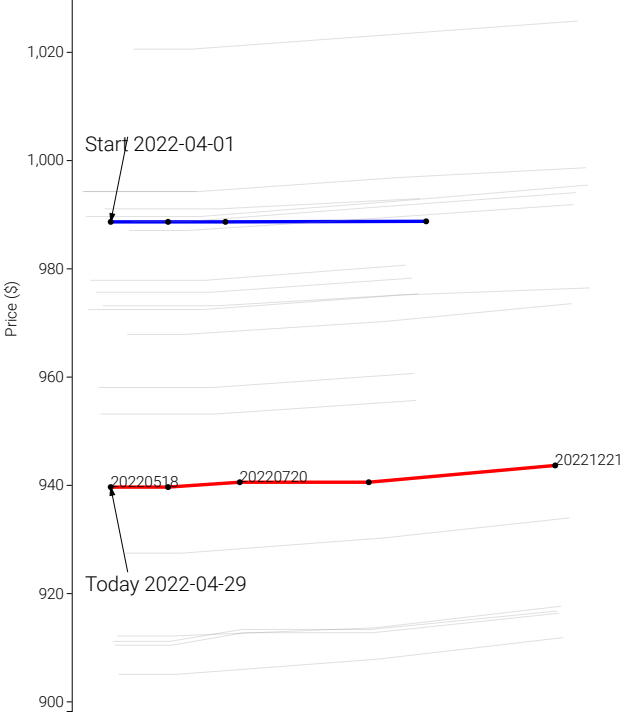
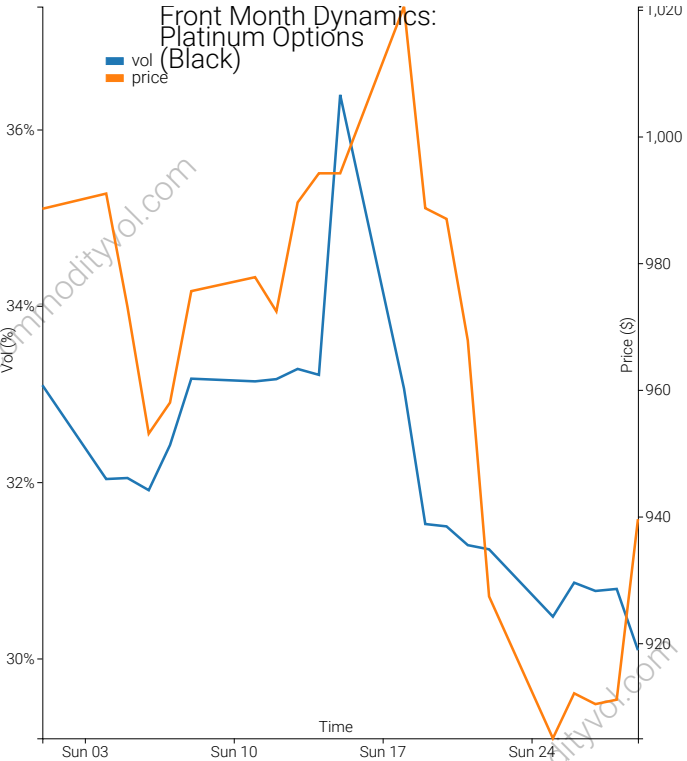
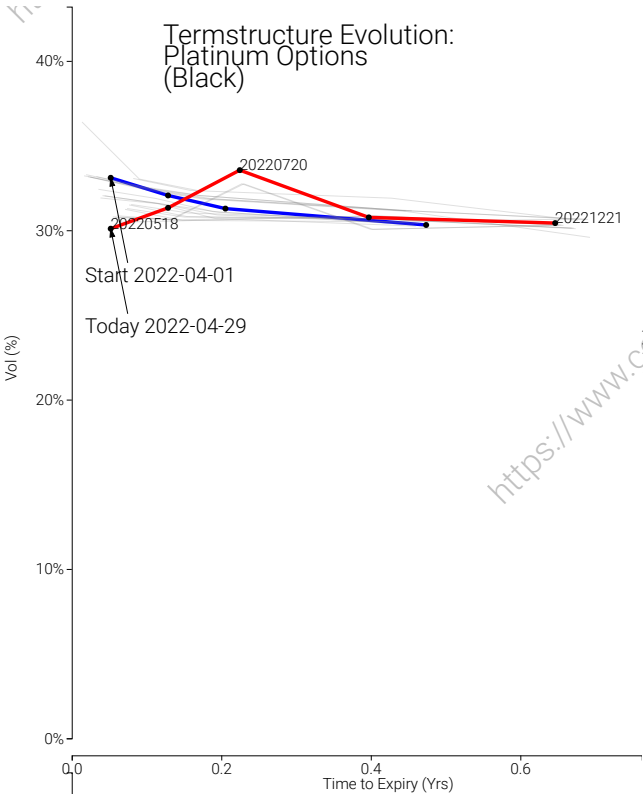
Metals, Materials and so forth

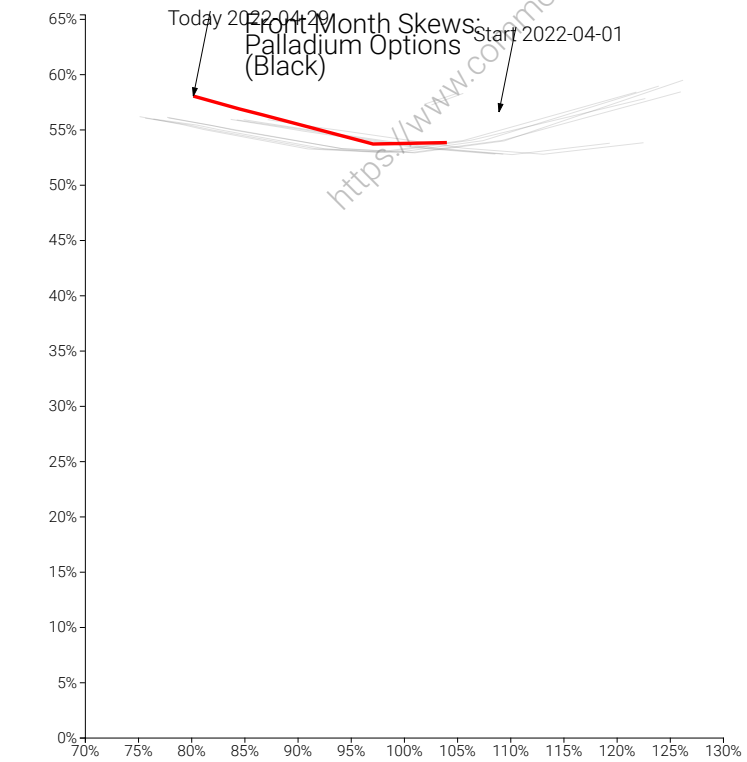
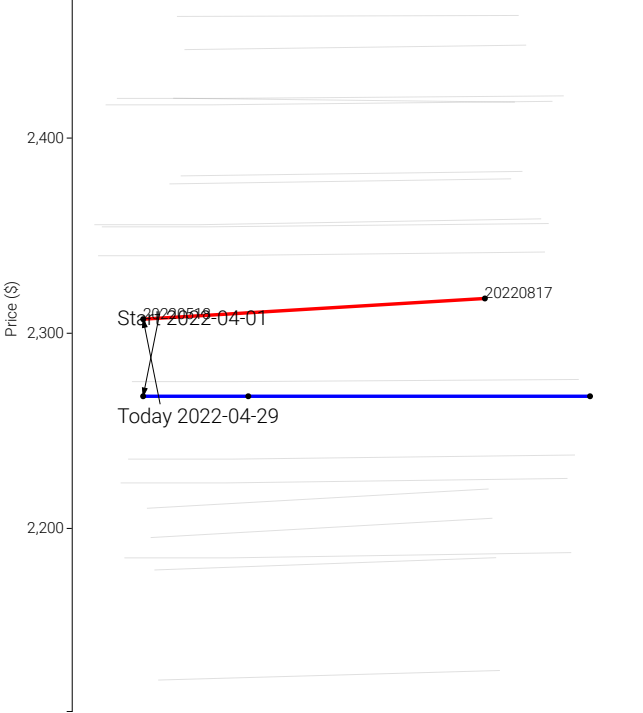
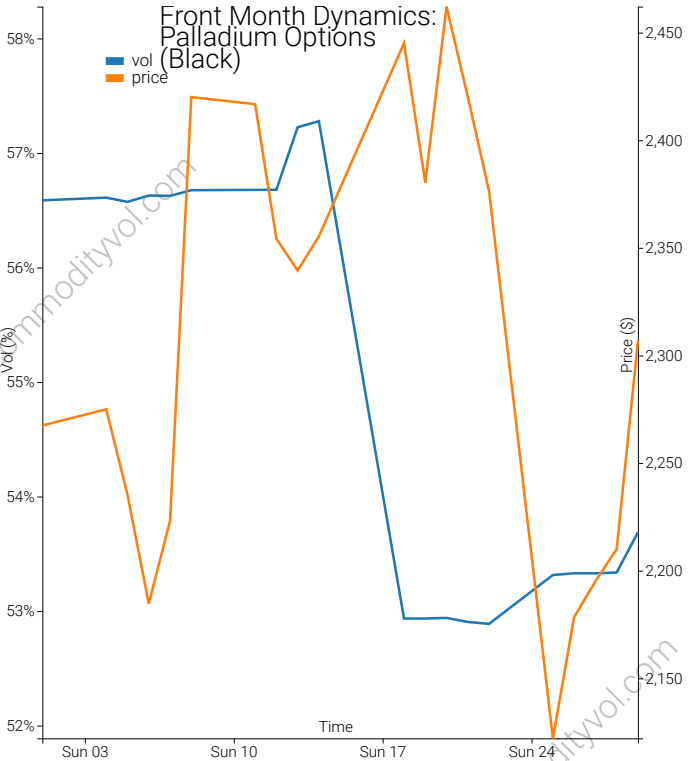
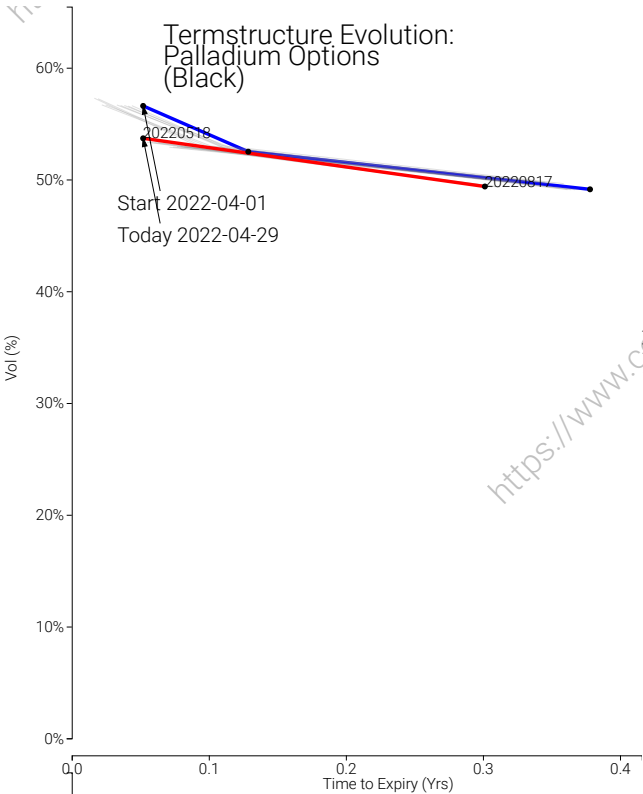


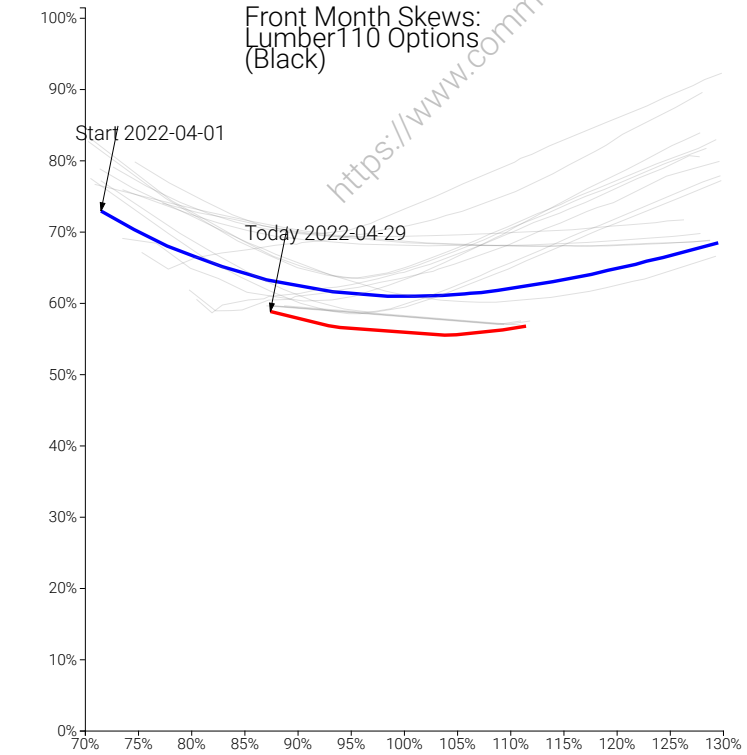
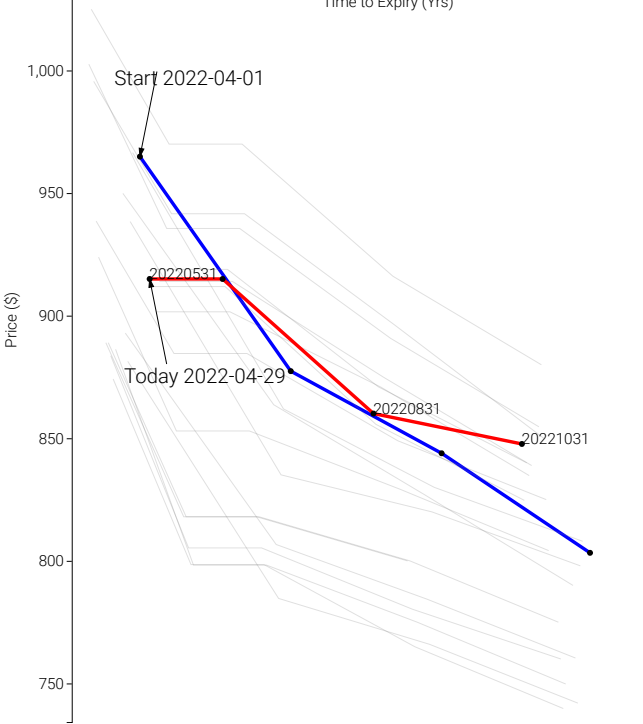
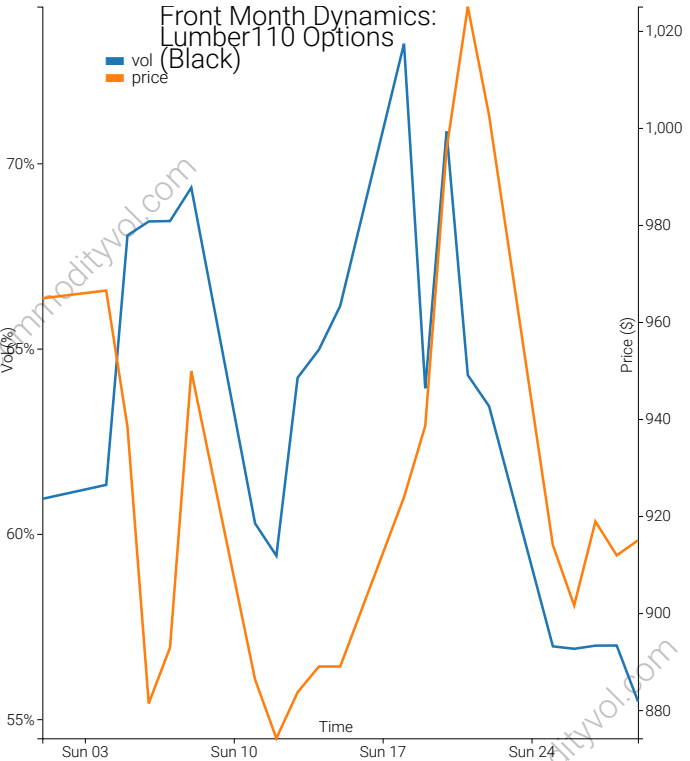
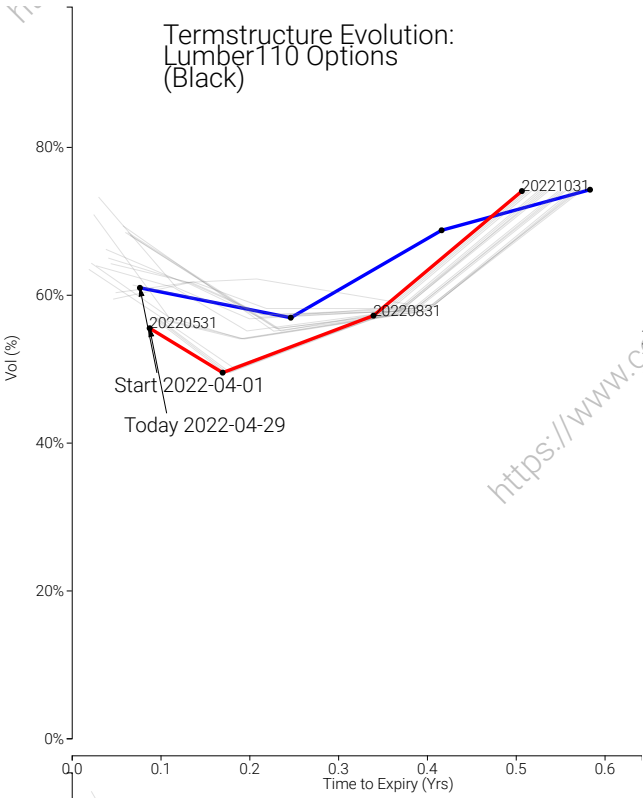




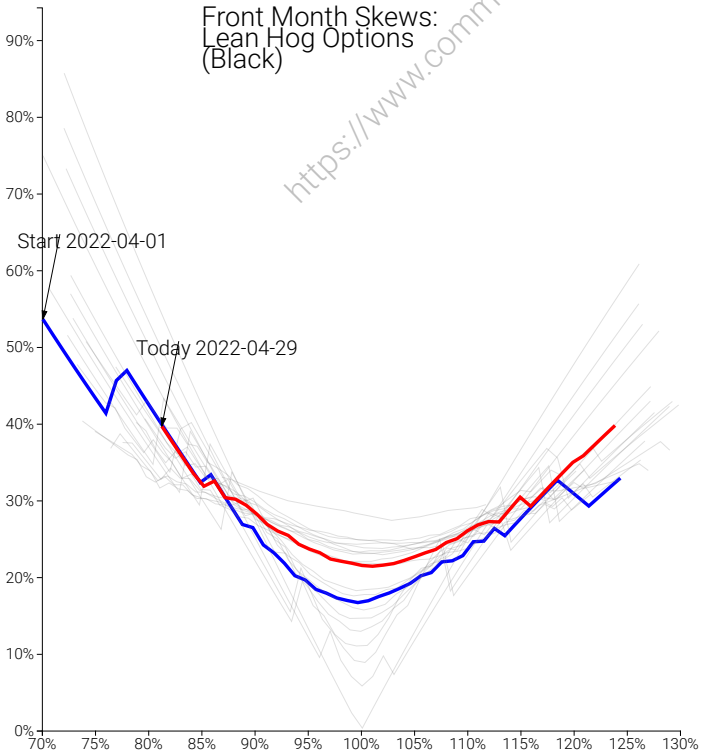
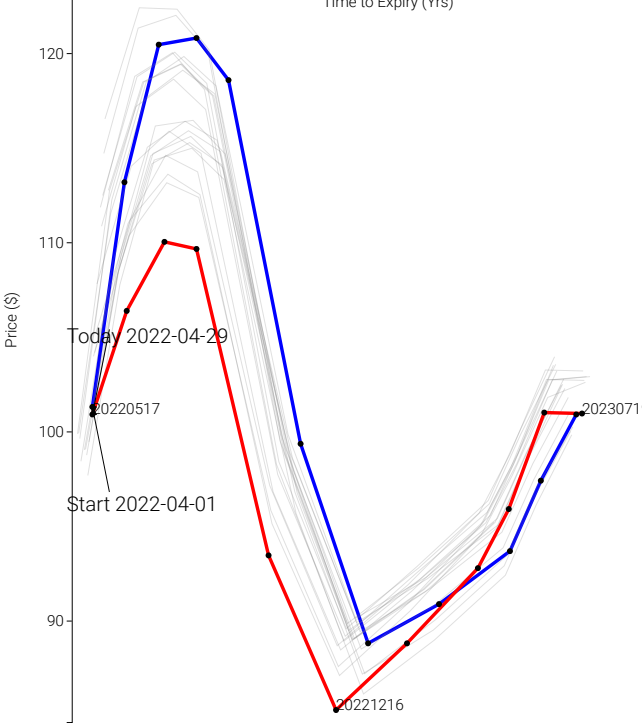
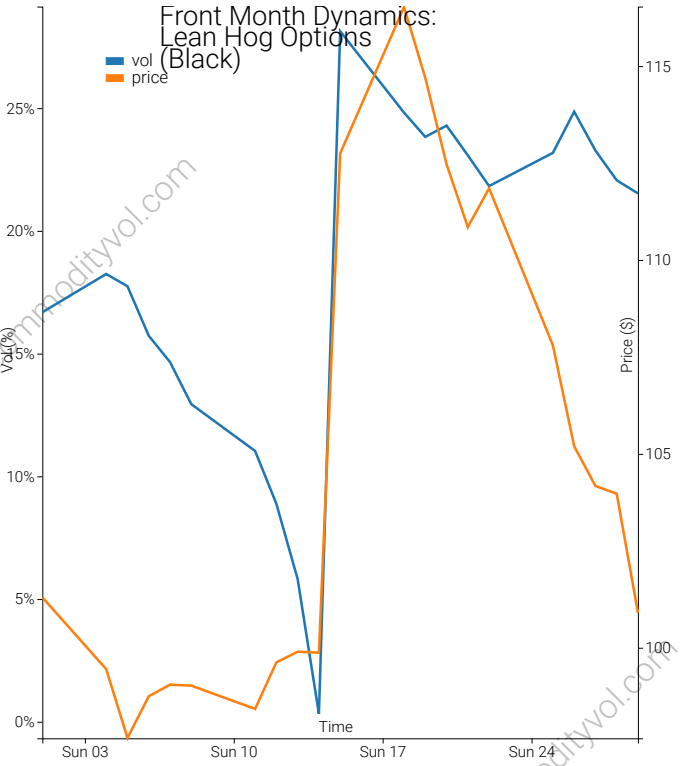
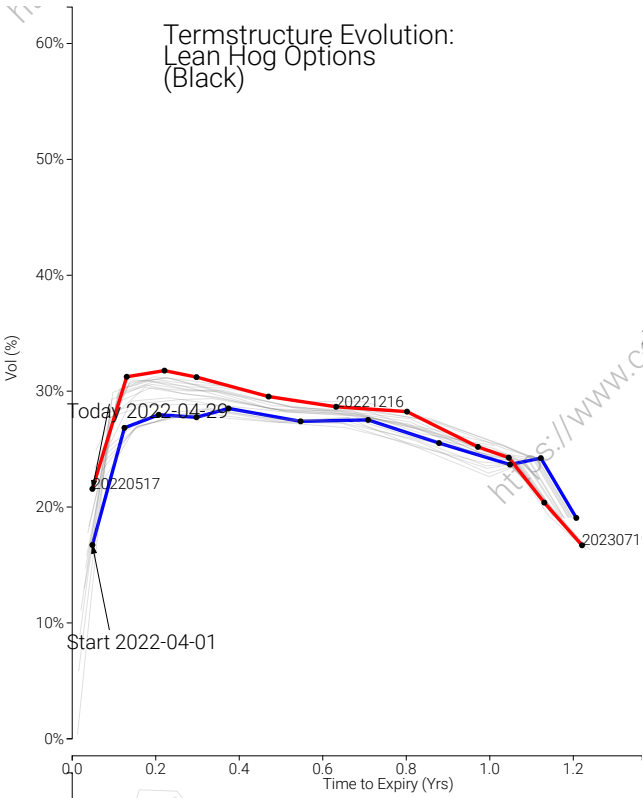


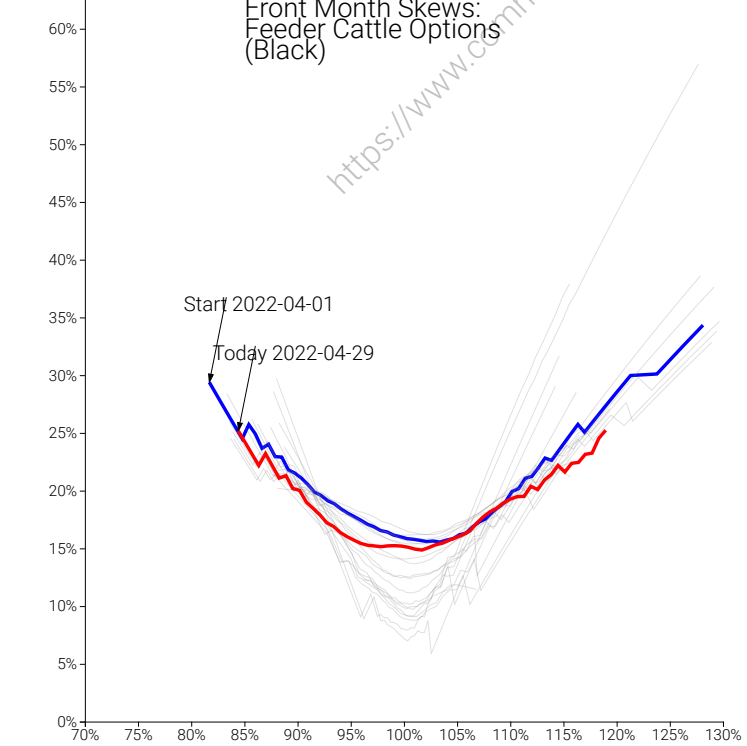
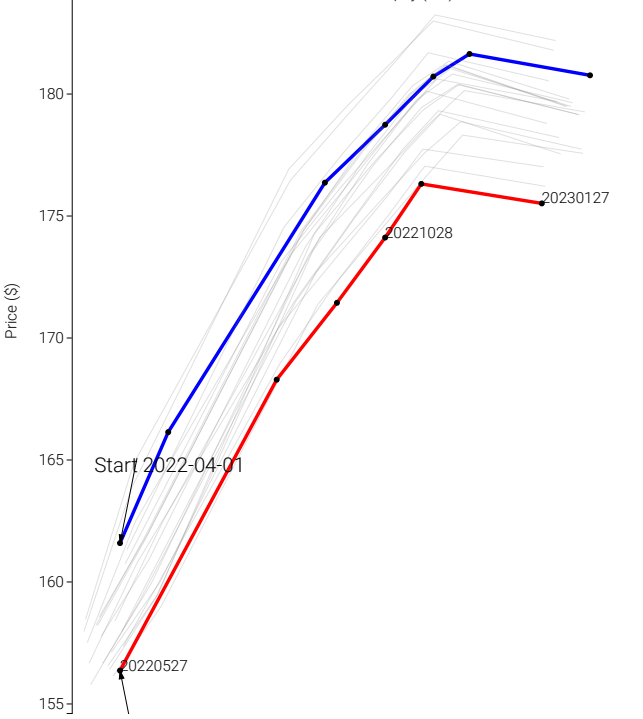
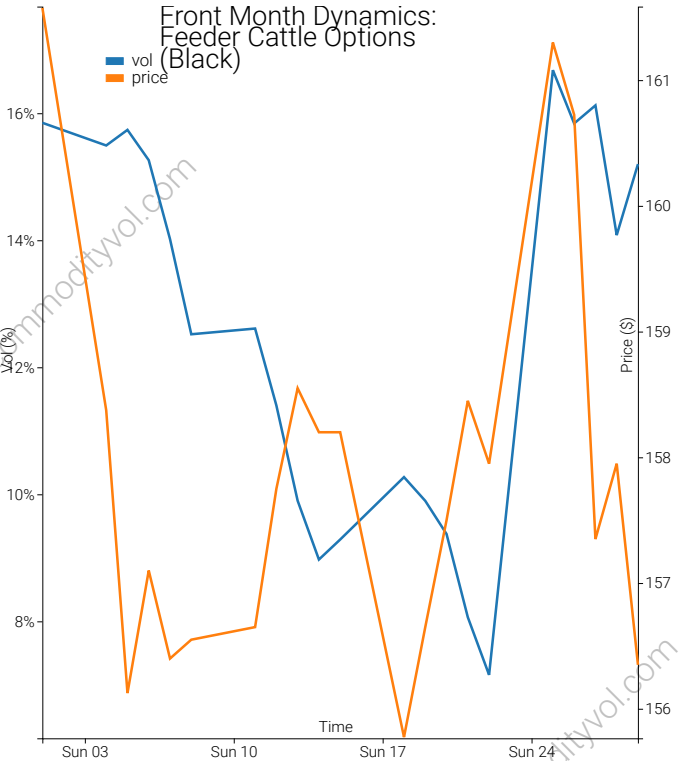
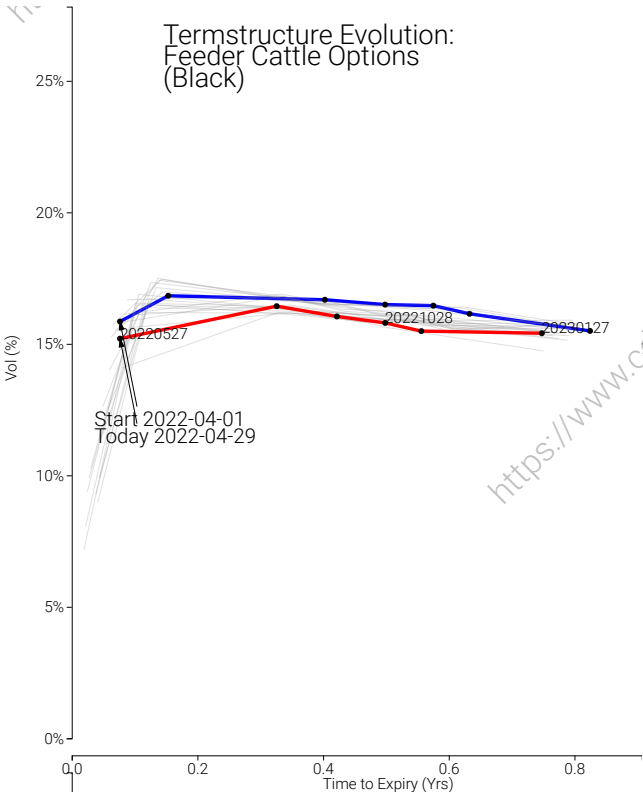


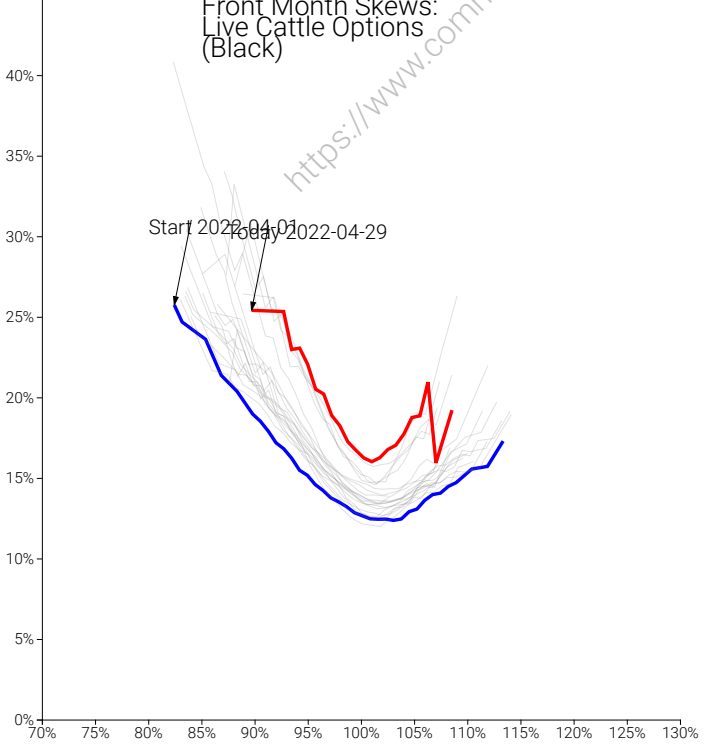
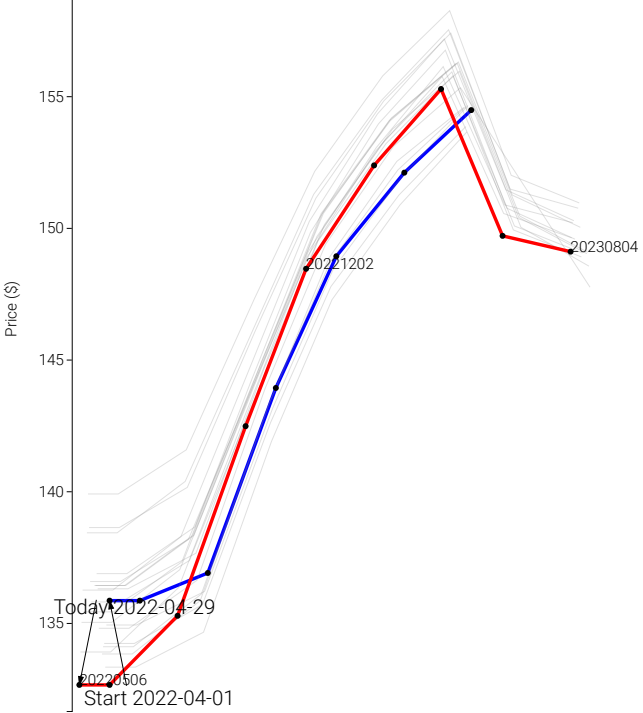
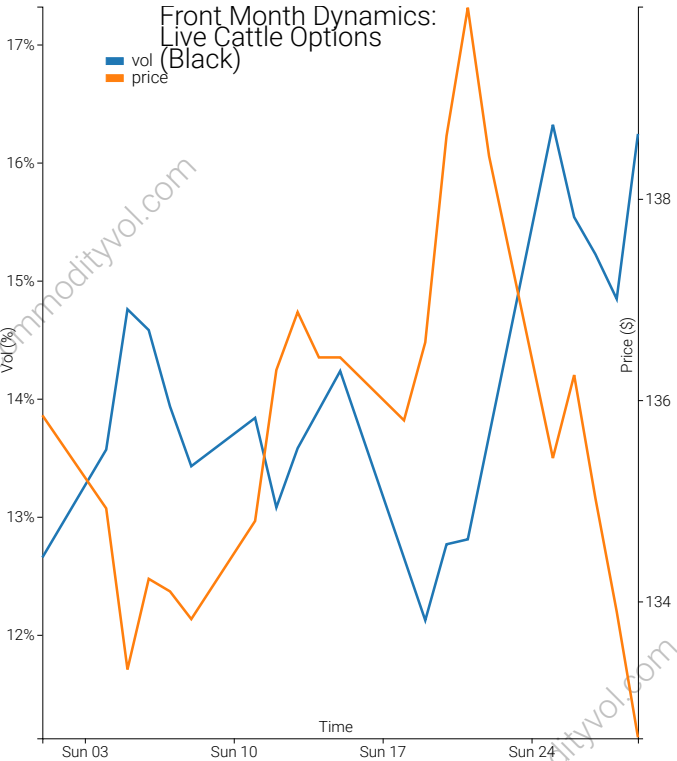
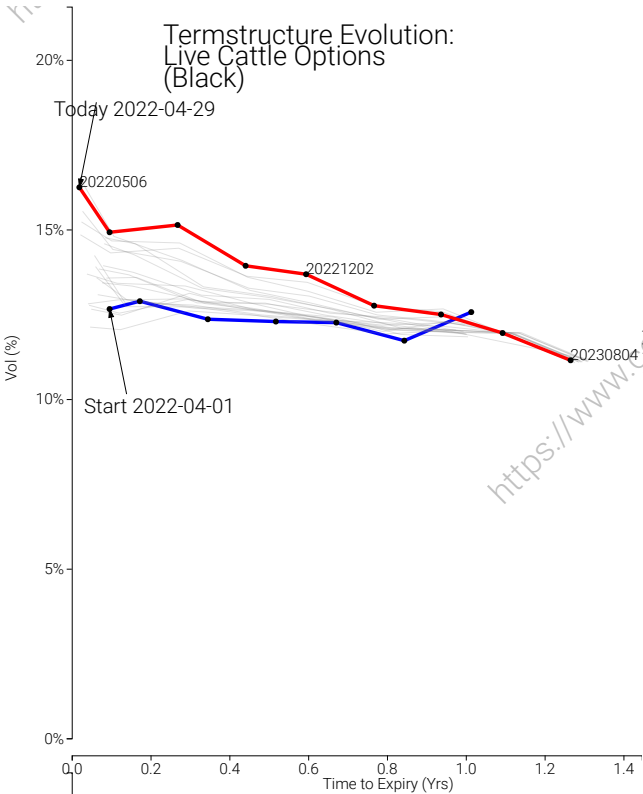


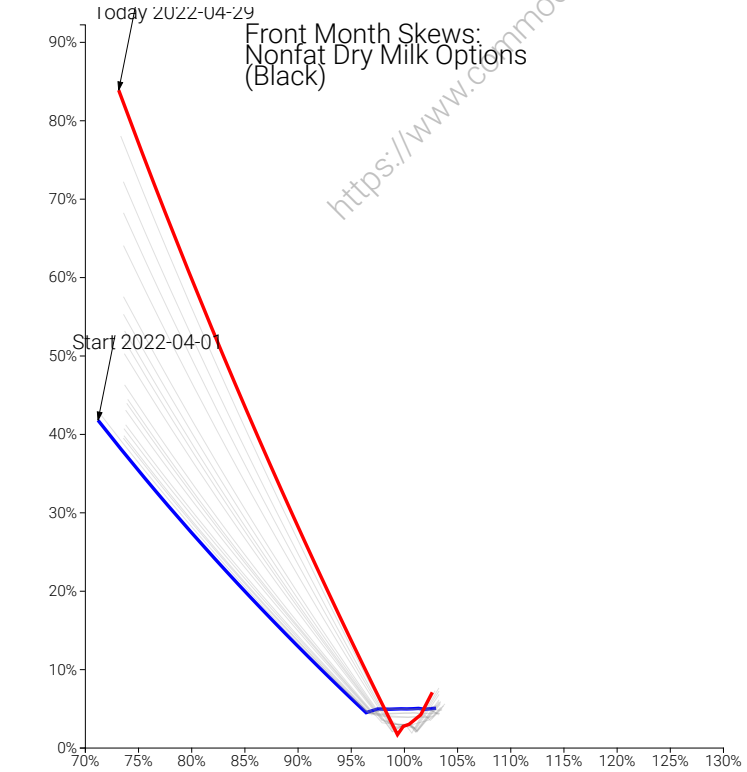
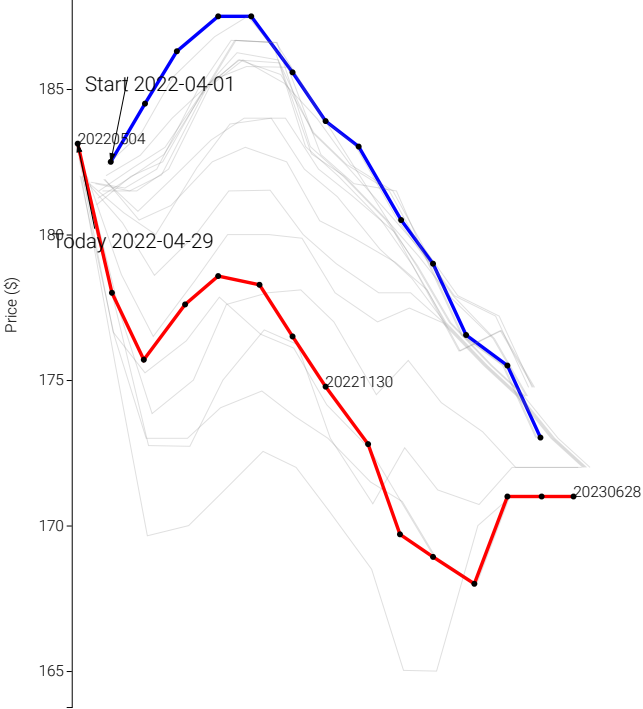
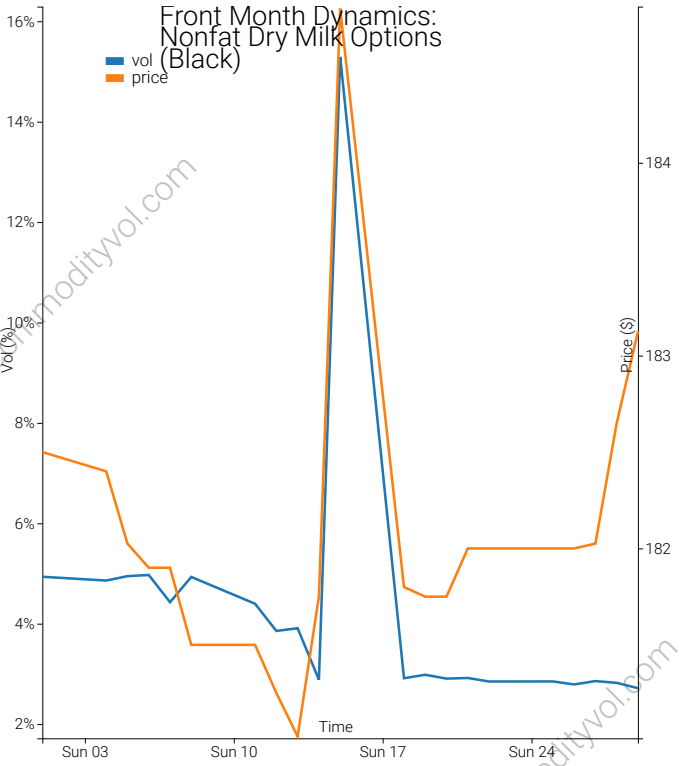
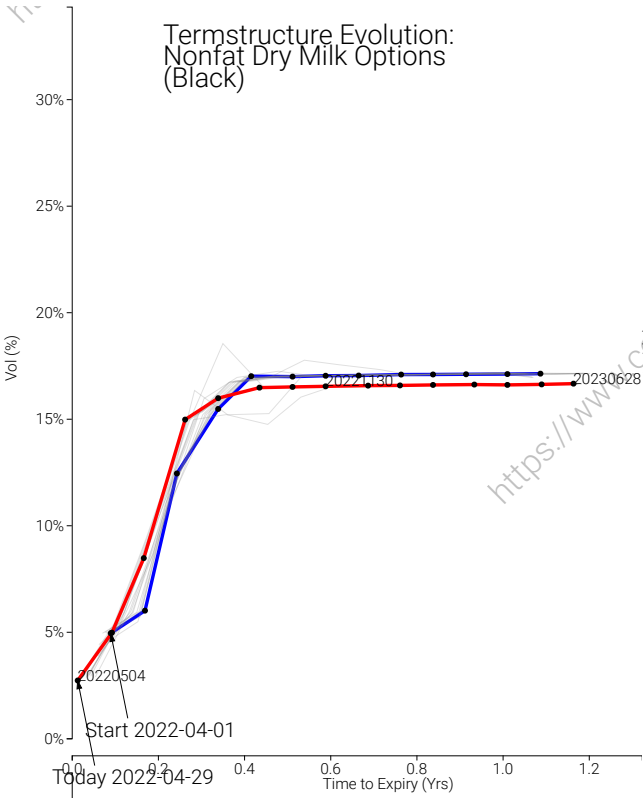


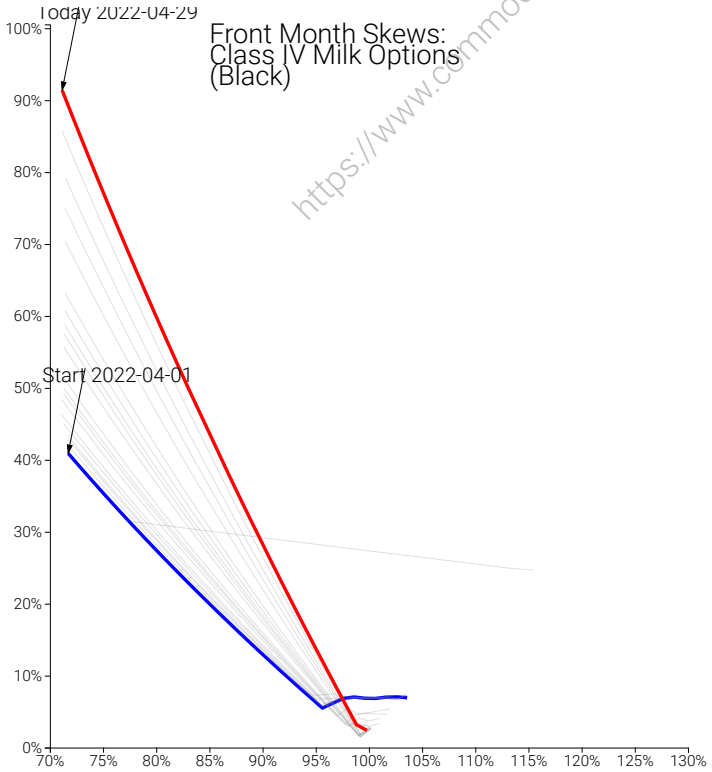
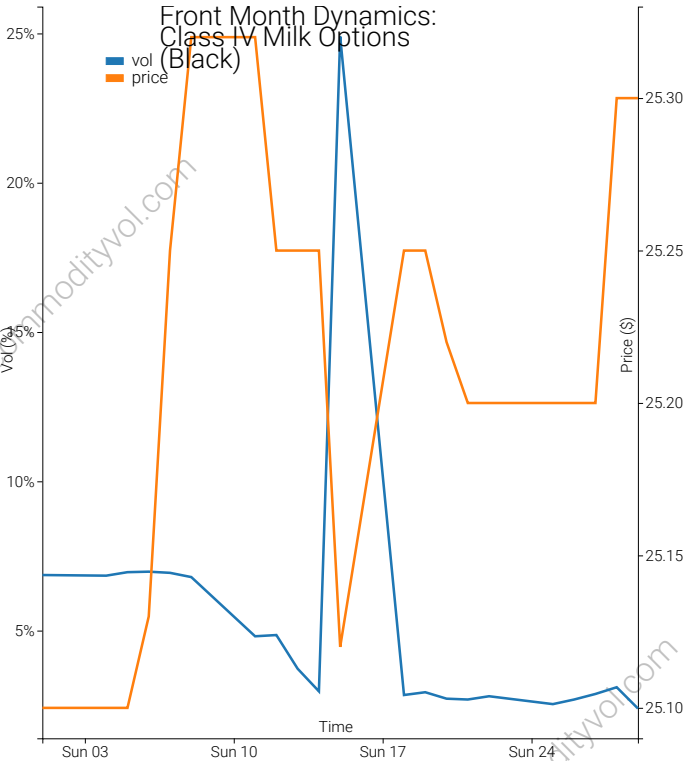
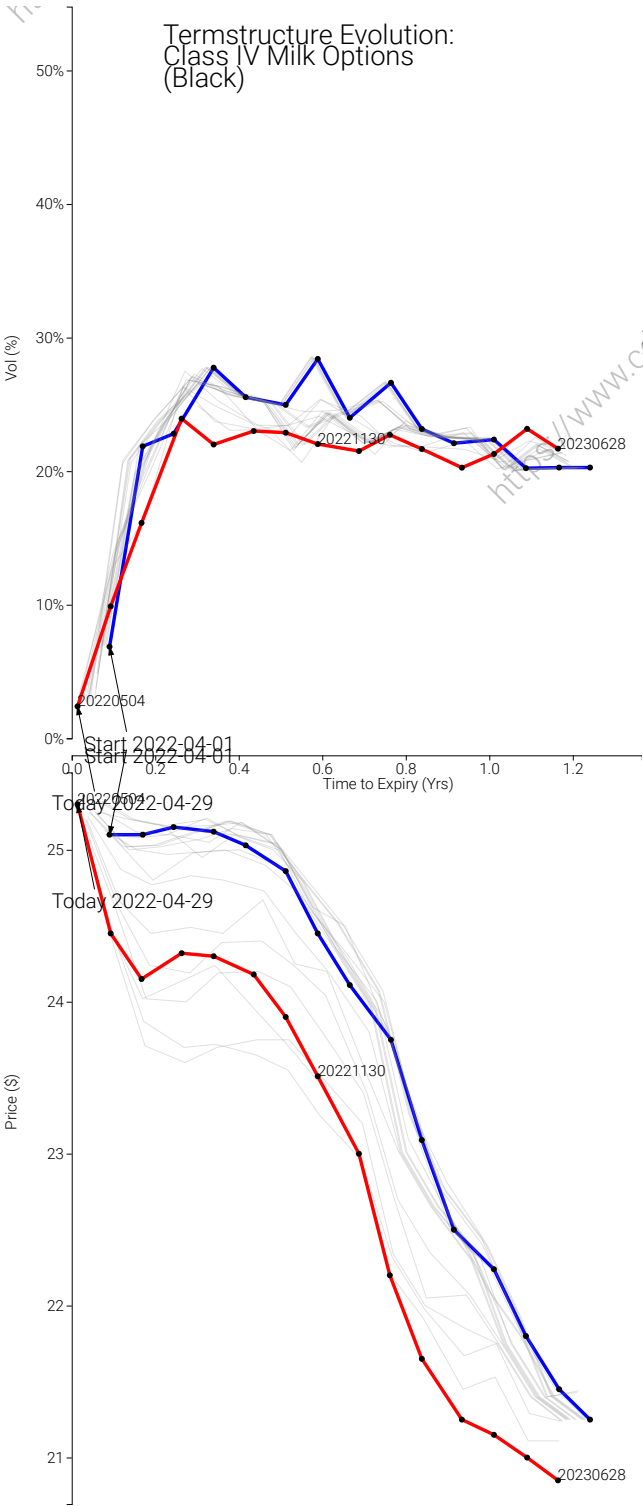
Proteins, Meats and so forth



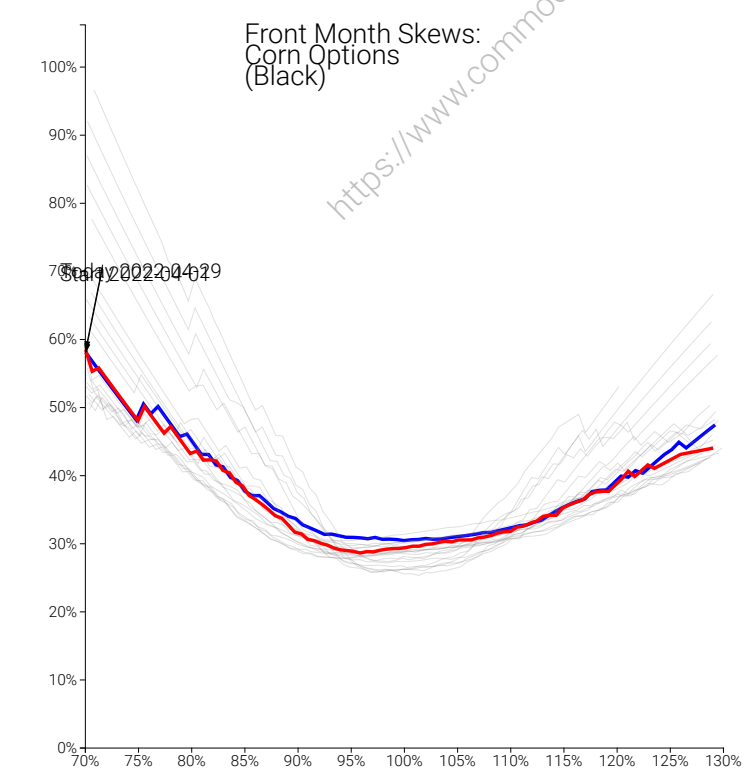
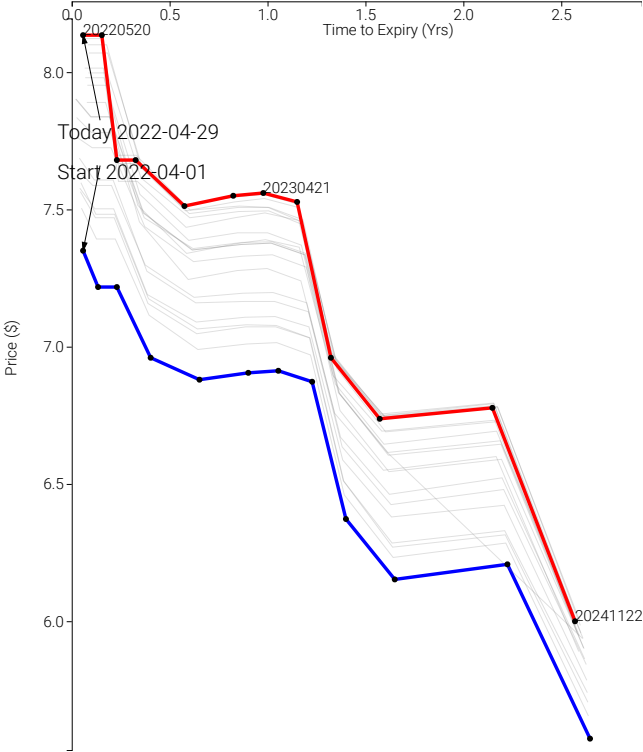
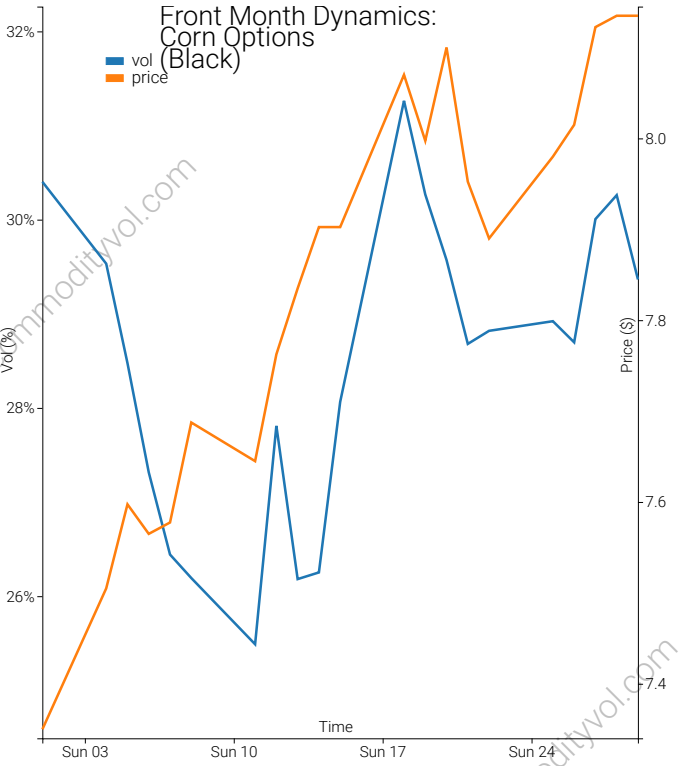
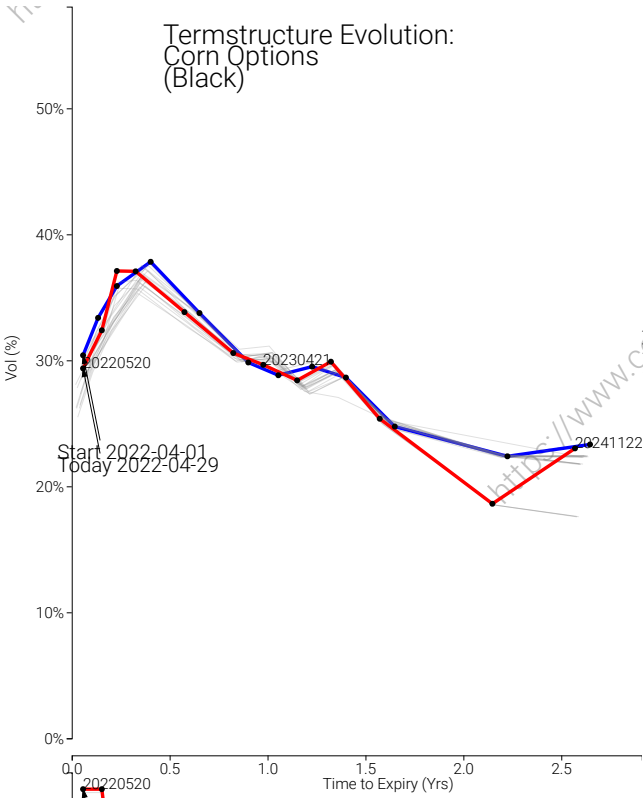


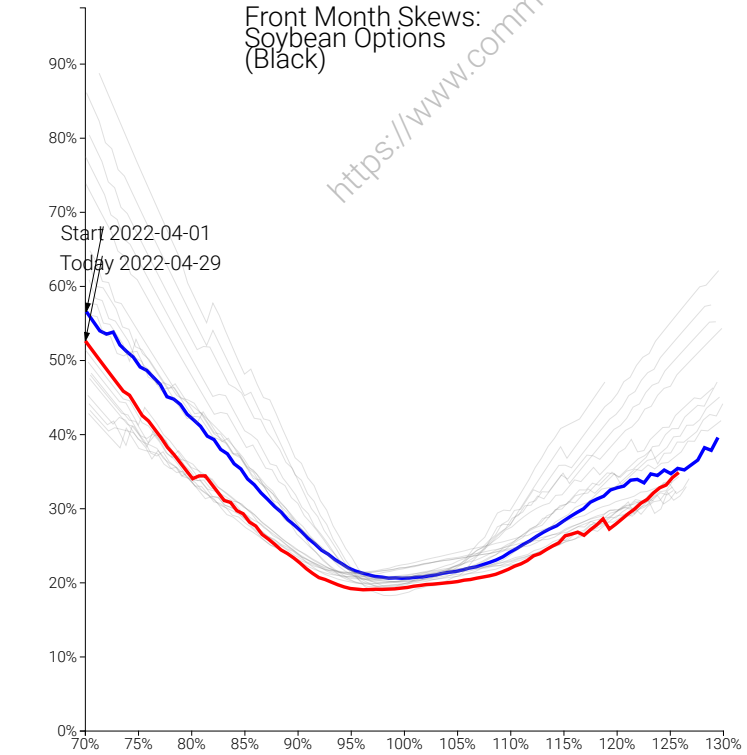
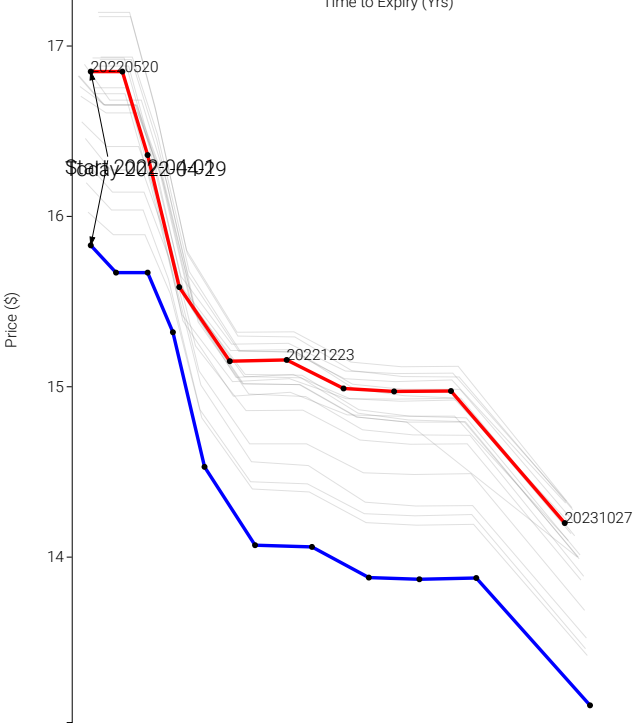
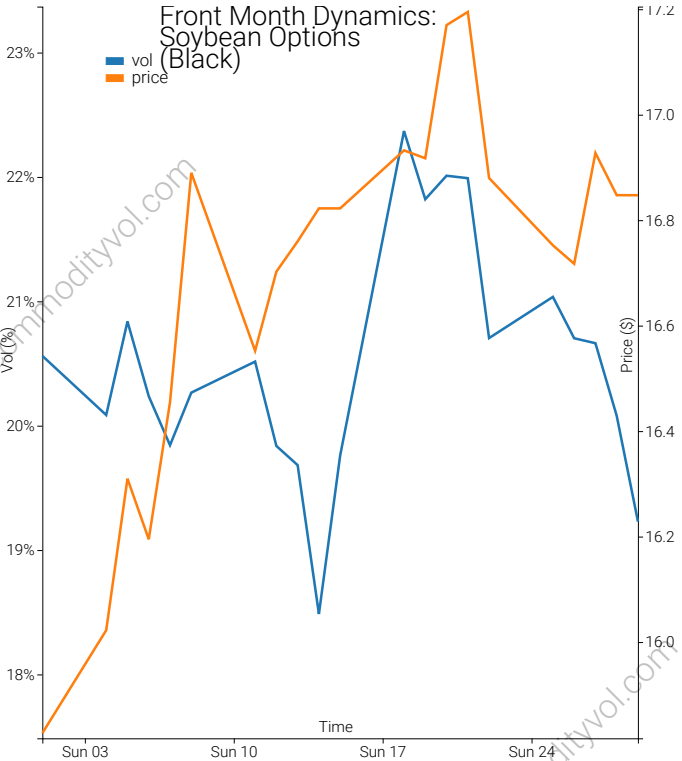
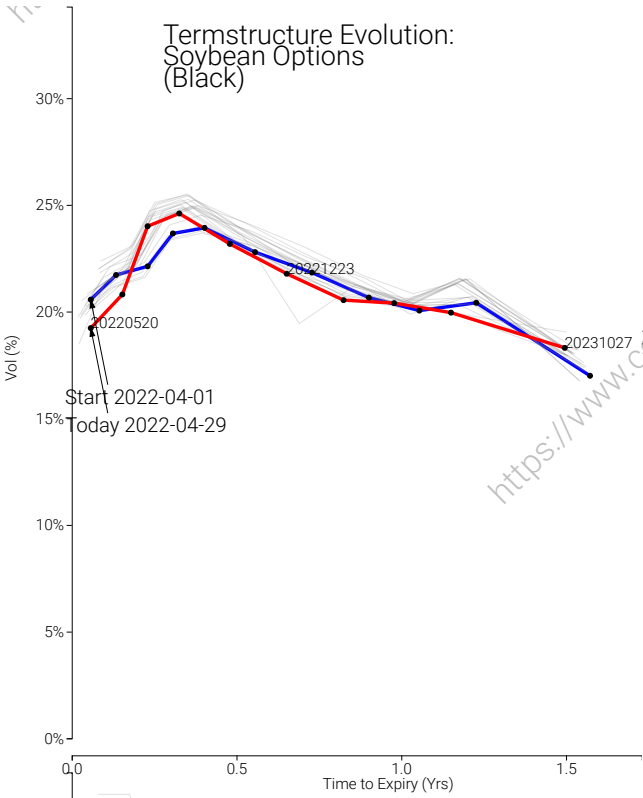


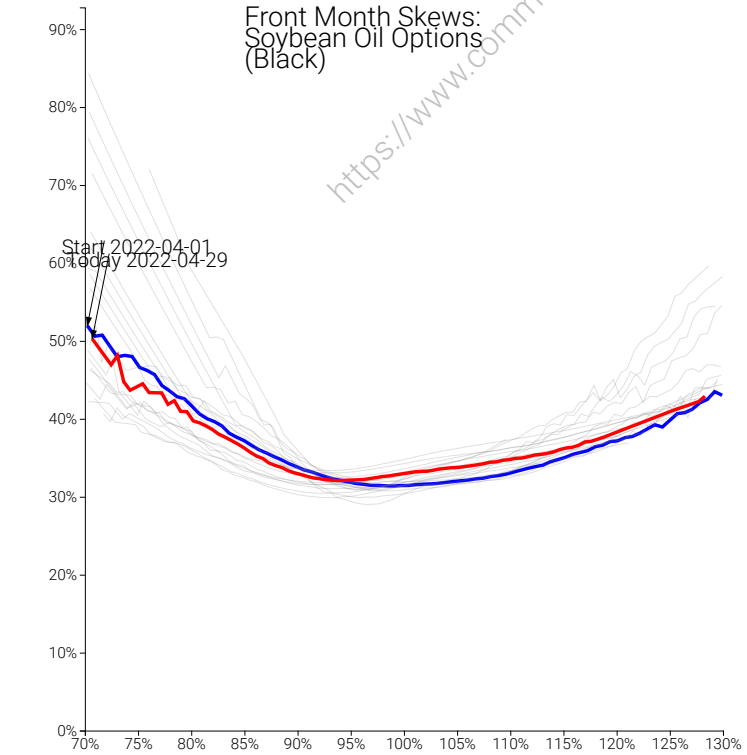
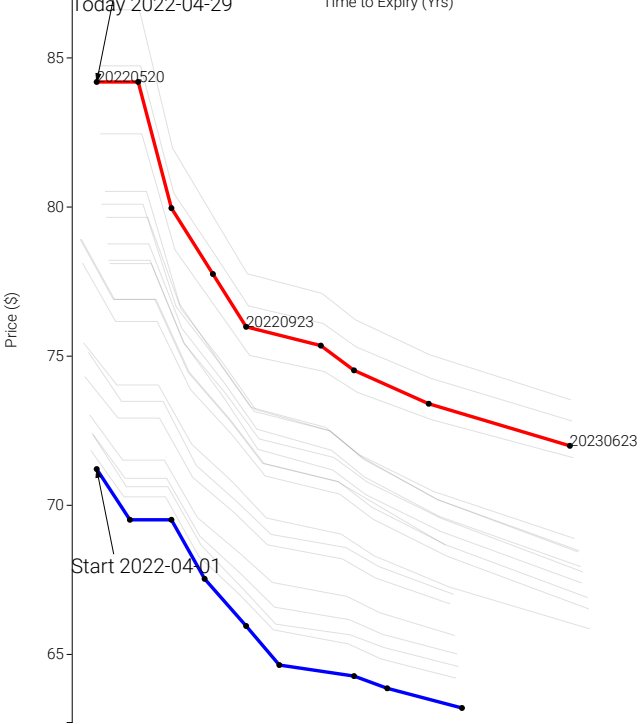
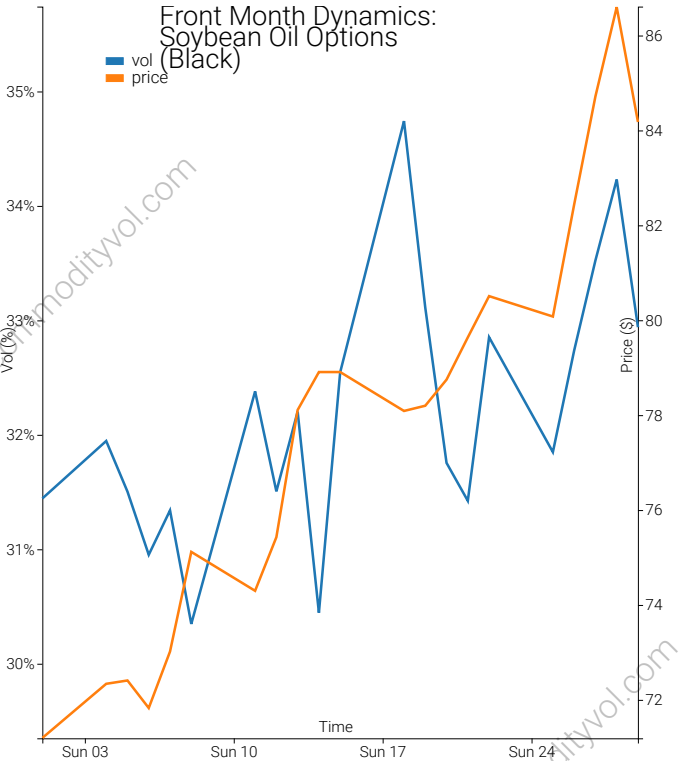
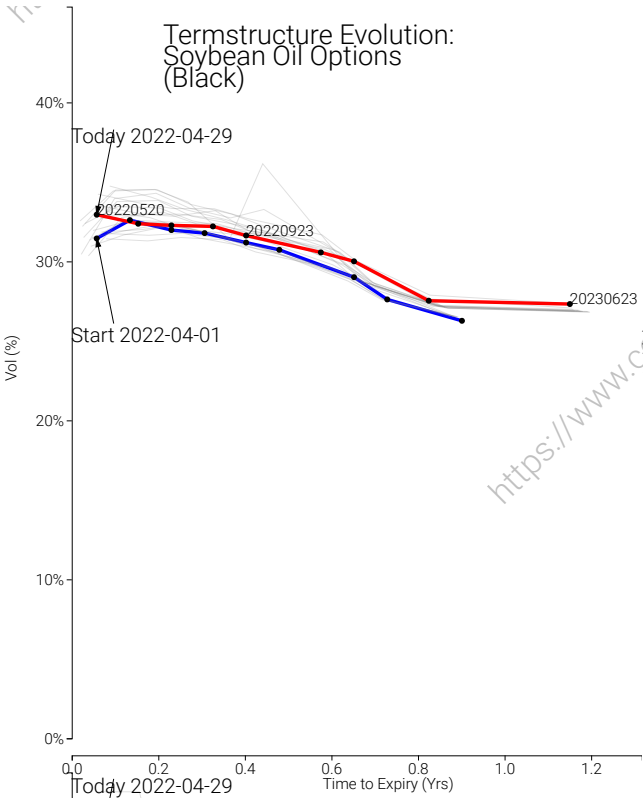


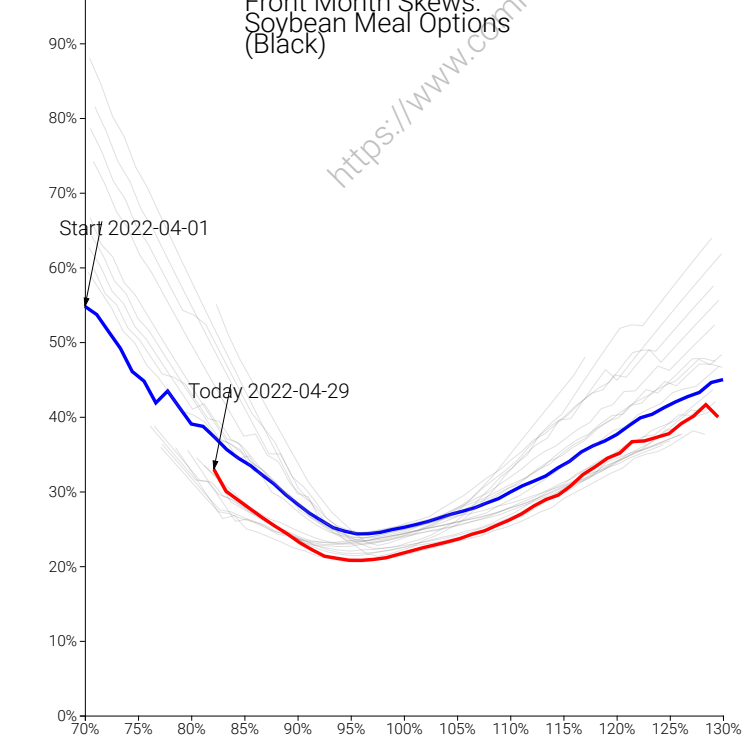
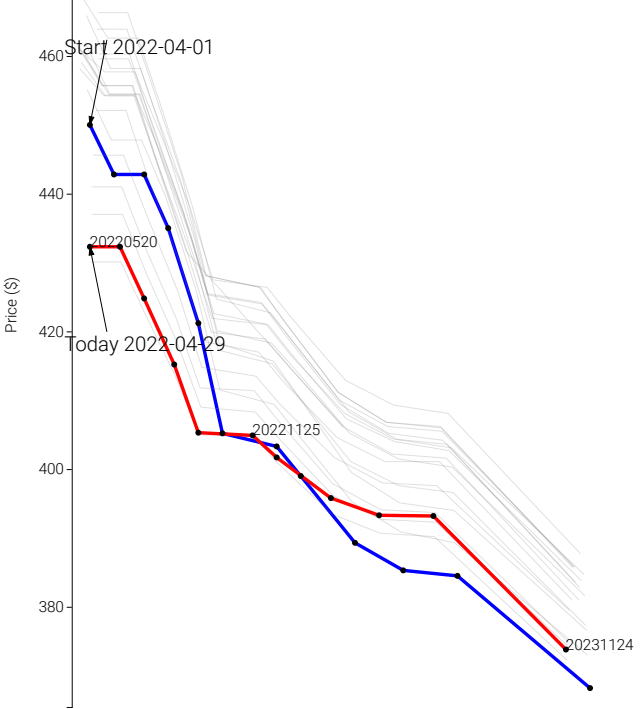
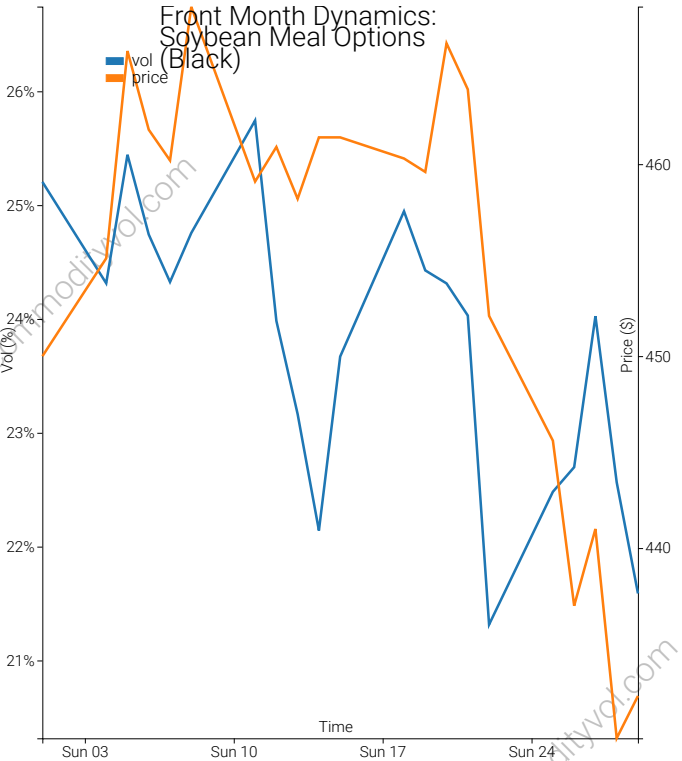
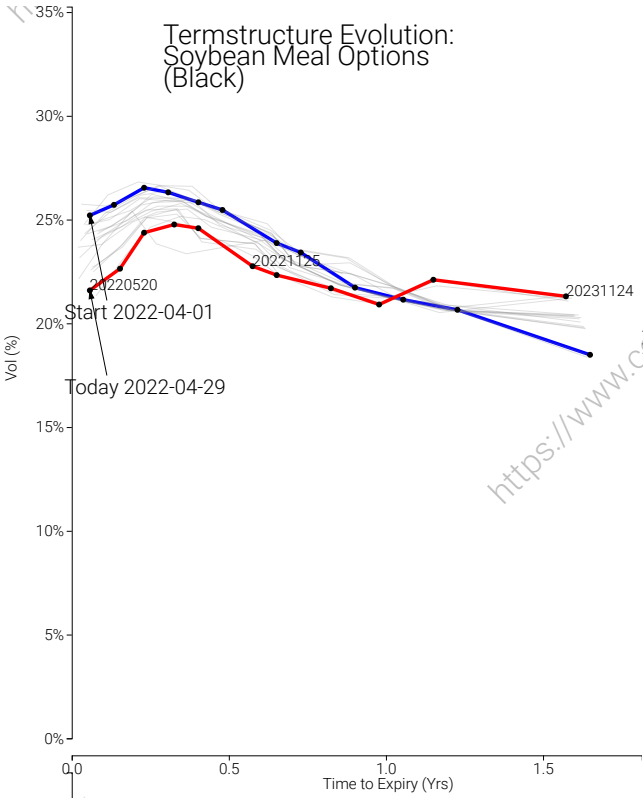


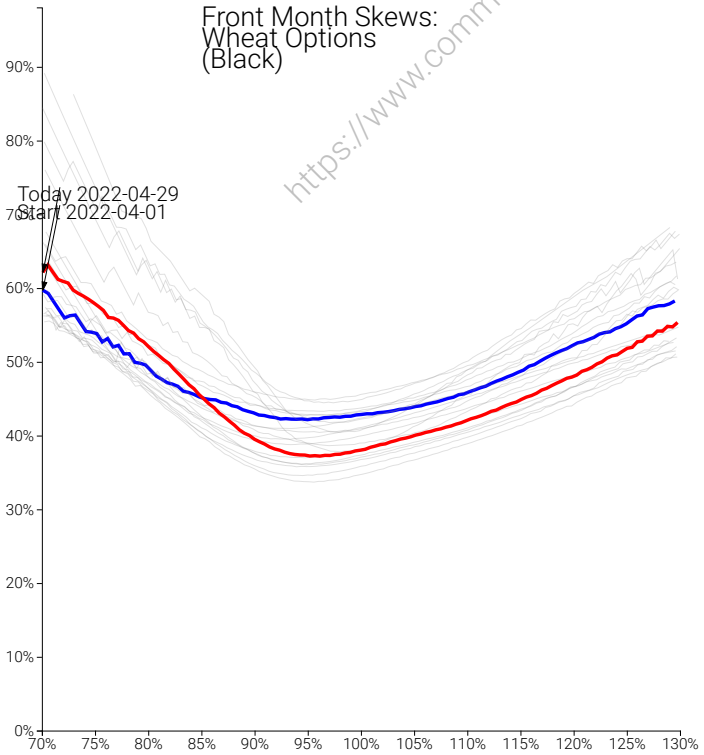
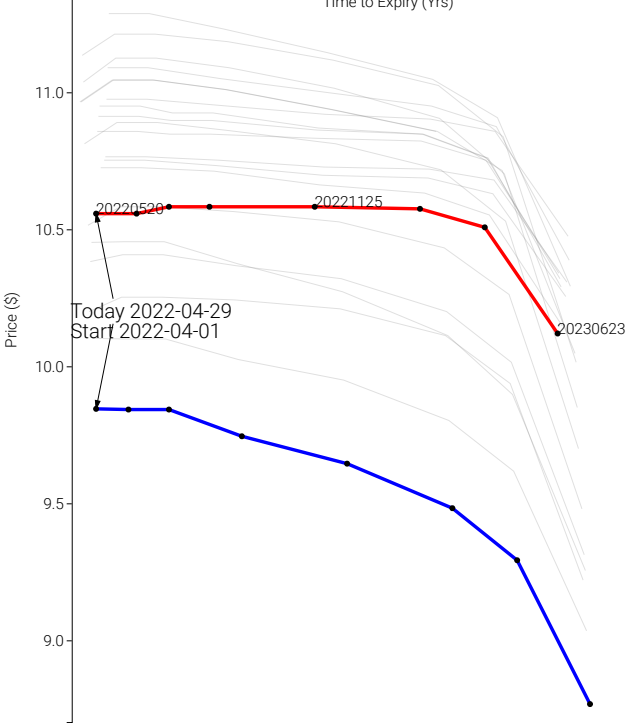
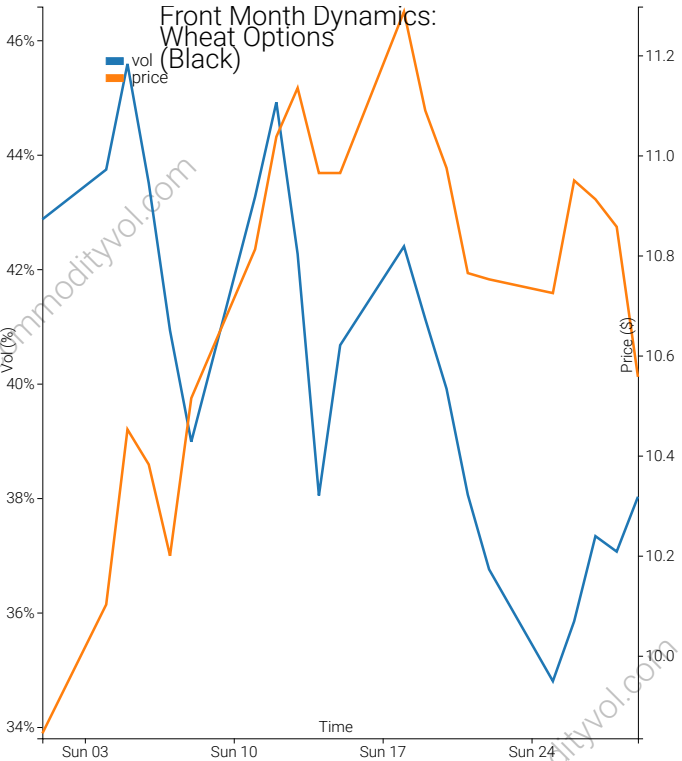
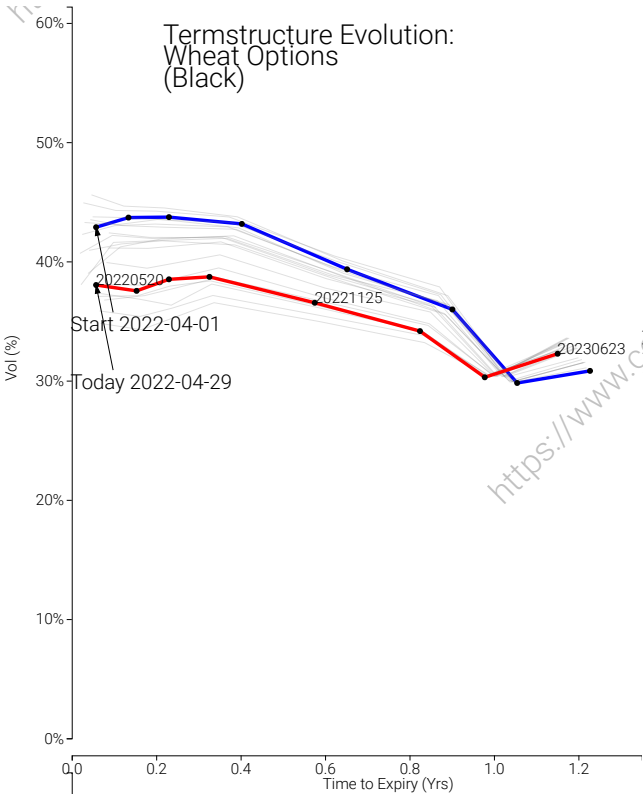
Ags, Grains, Softs and so forth

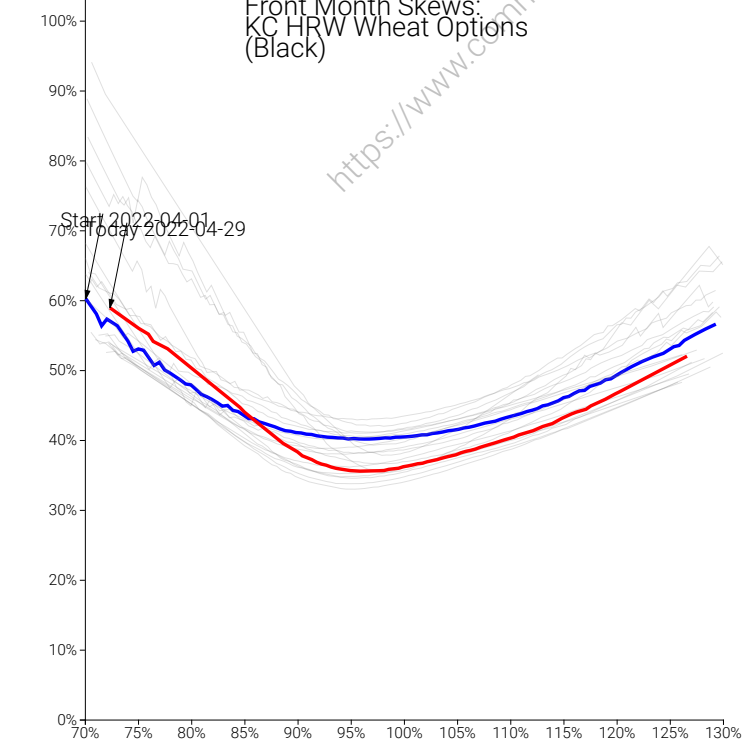
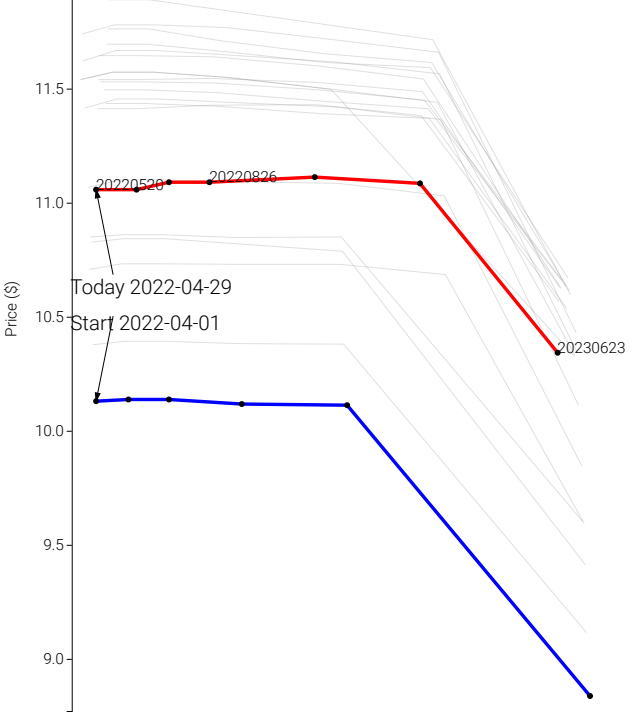
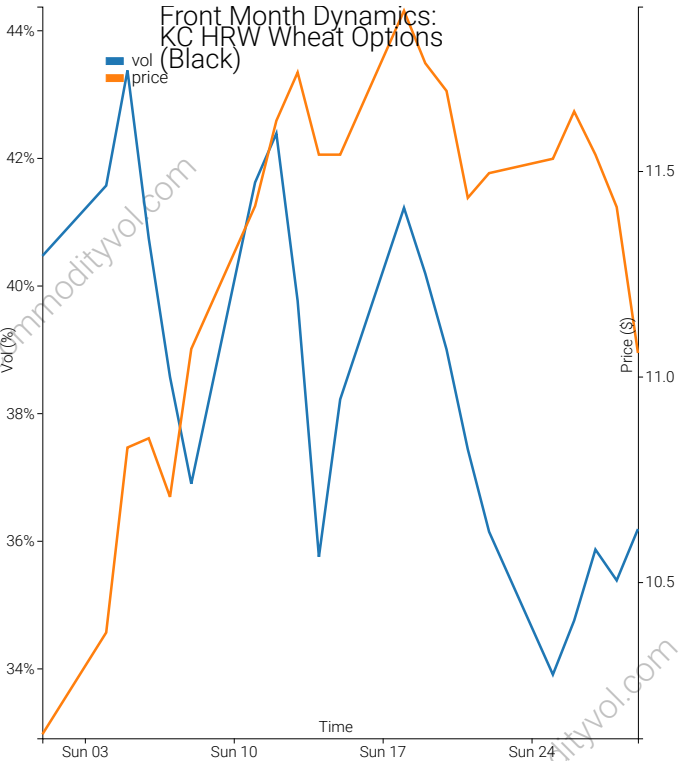
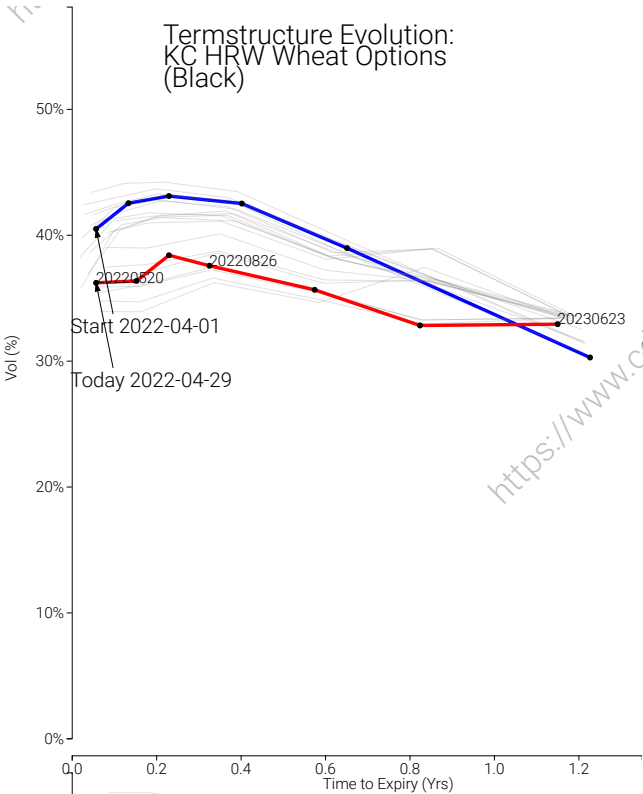


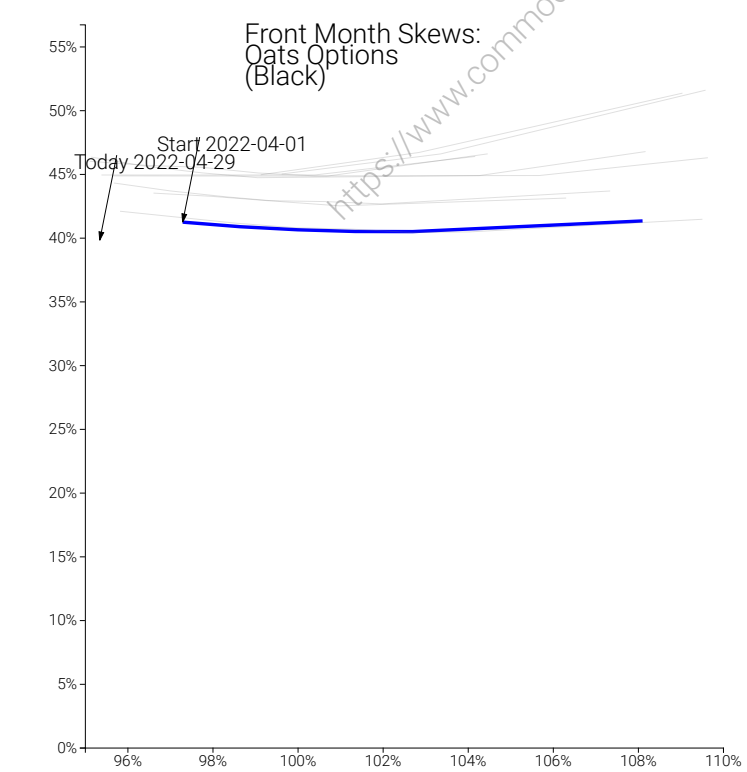
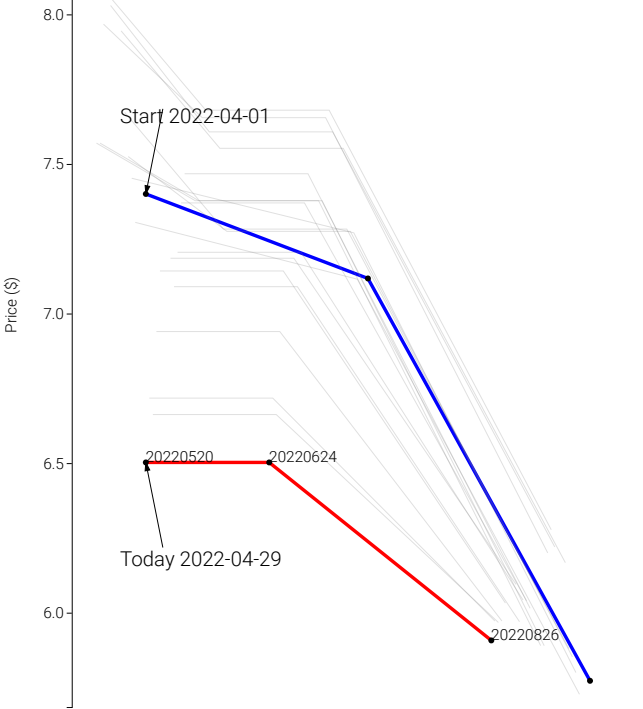
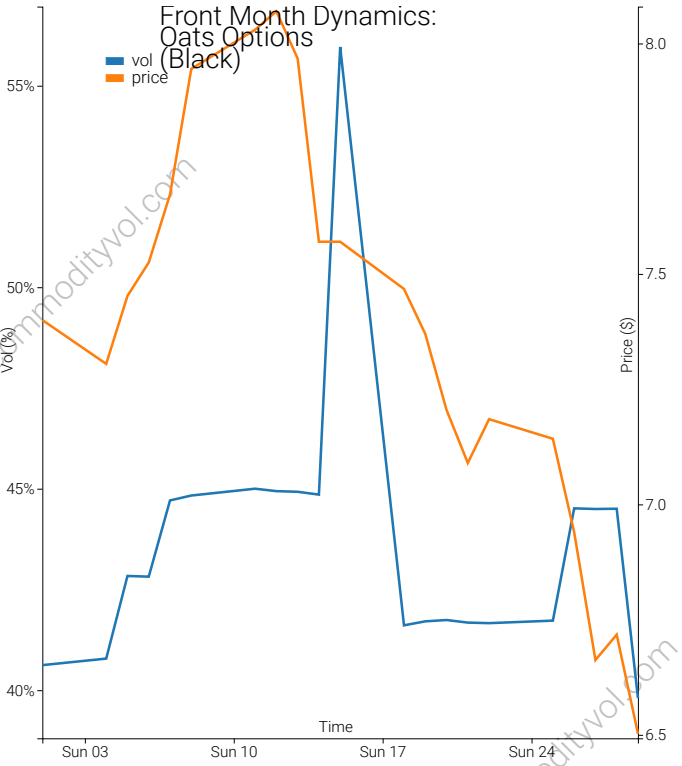
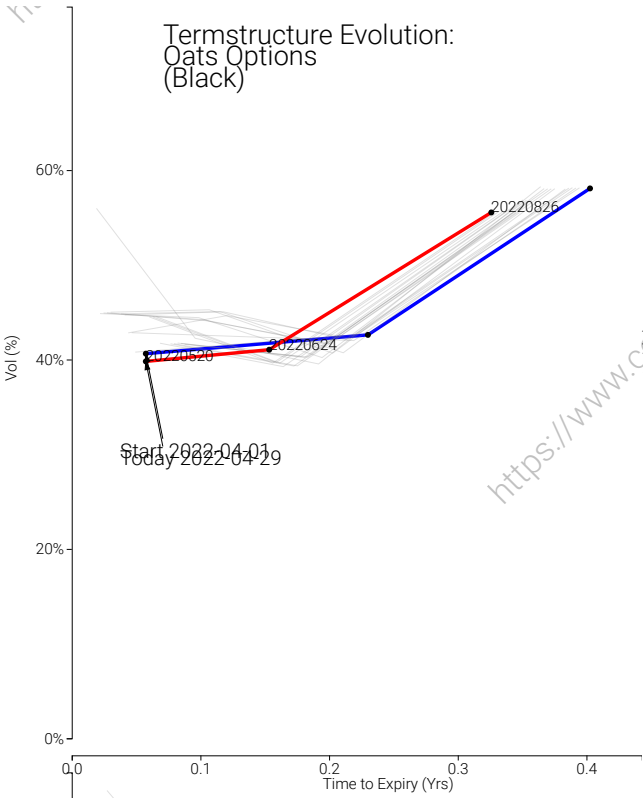


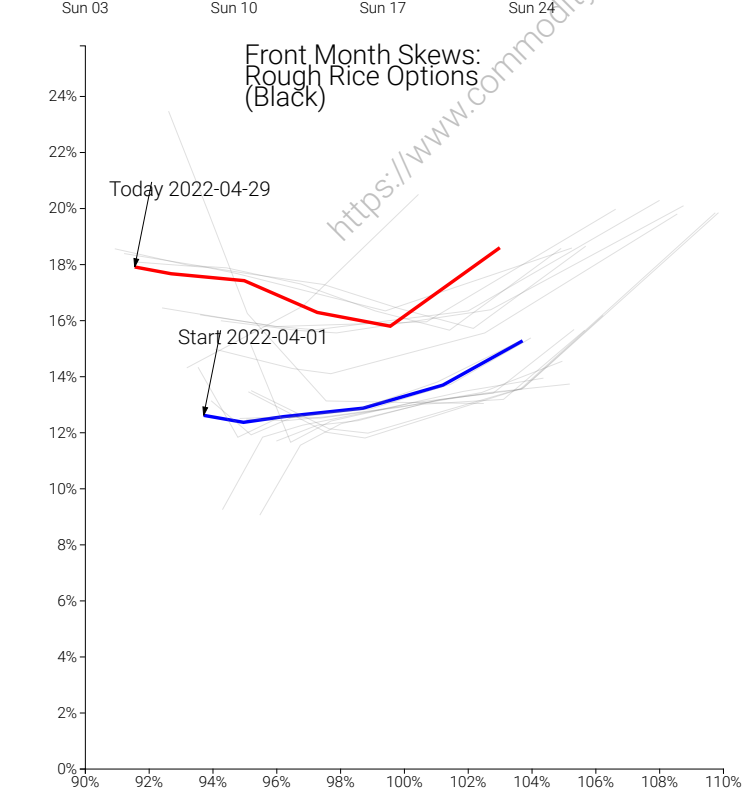
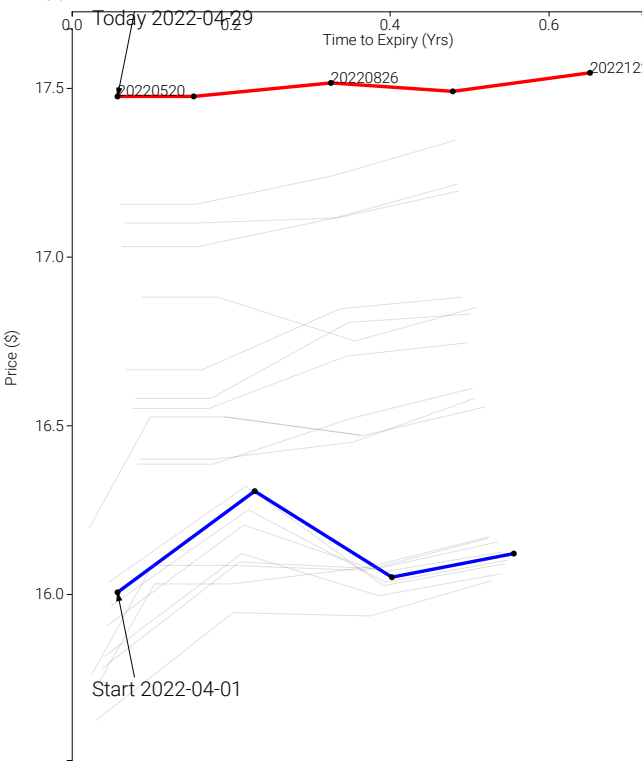
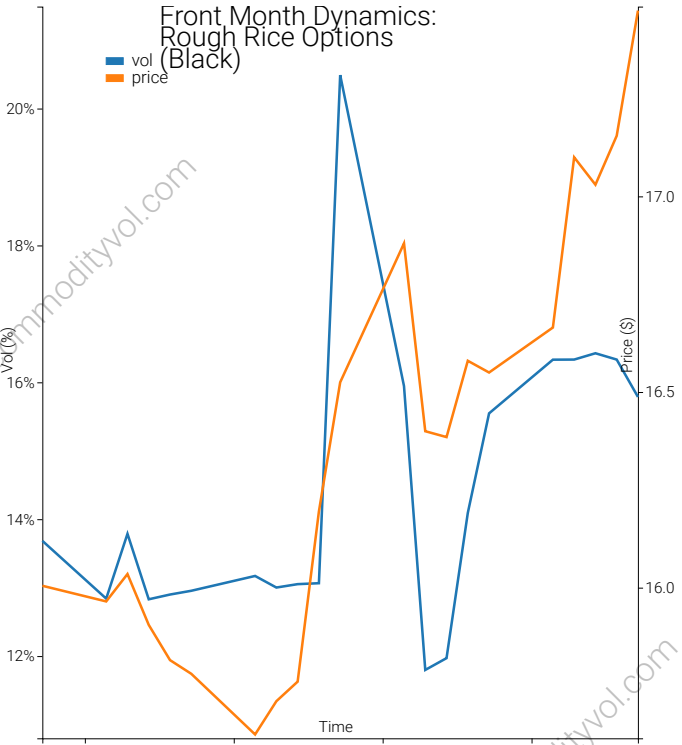
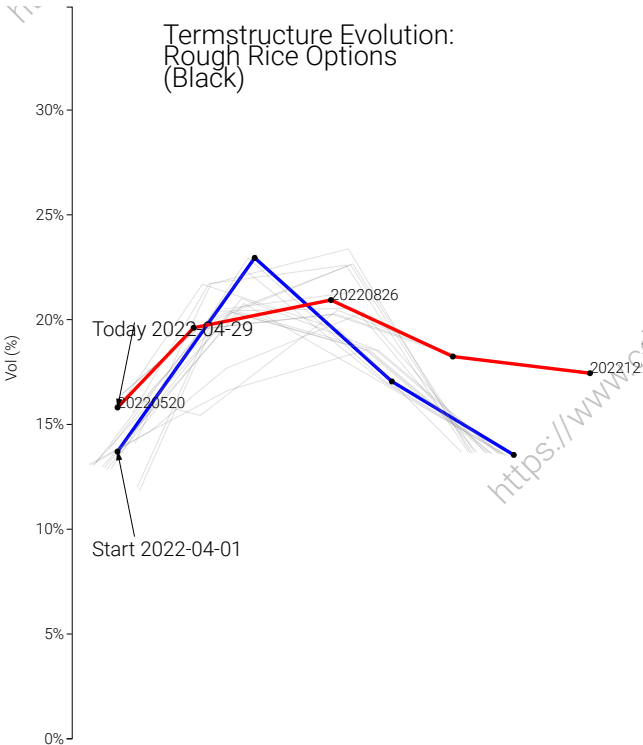


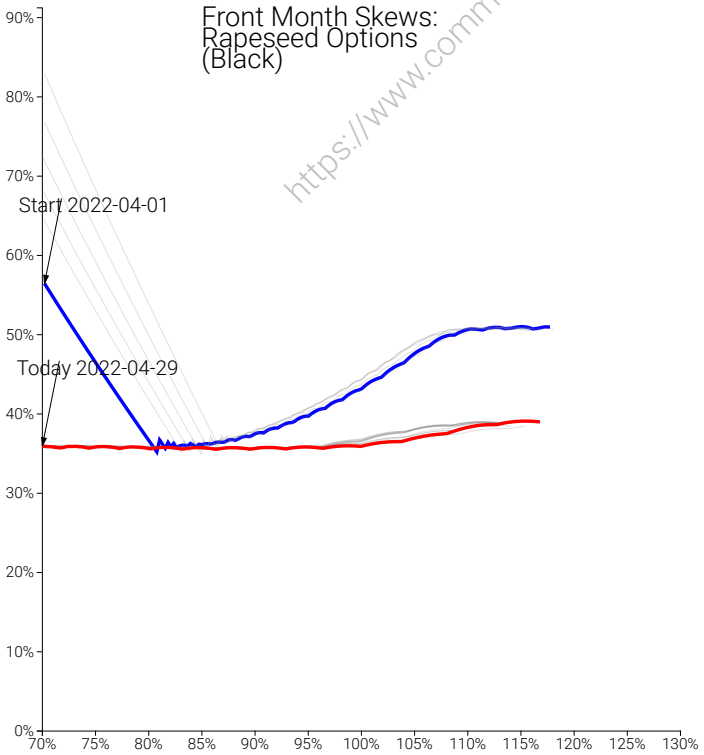
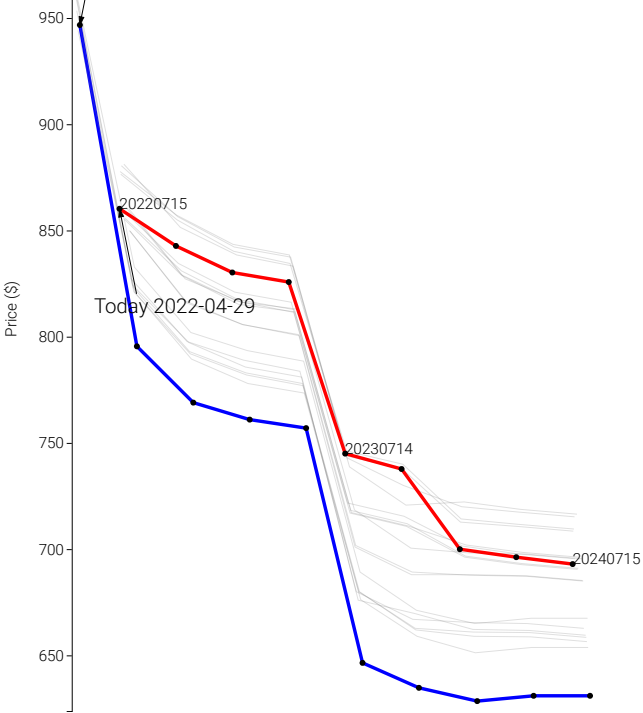
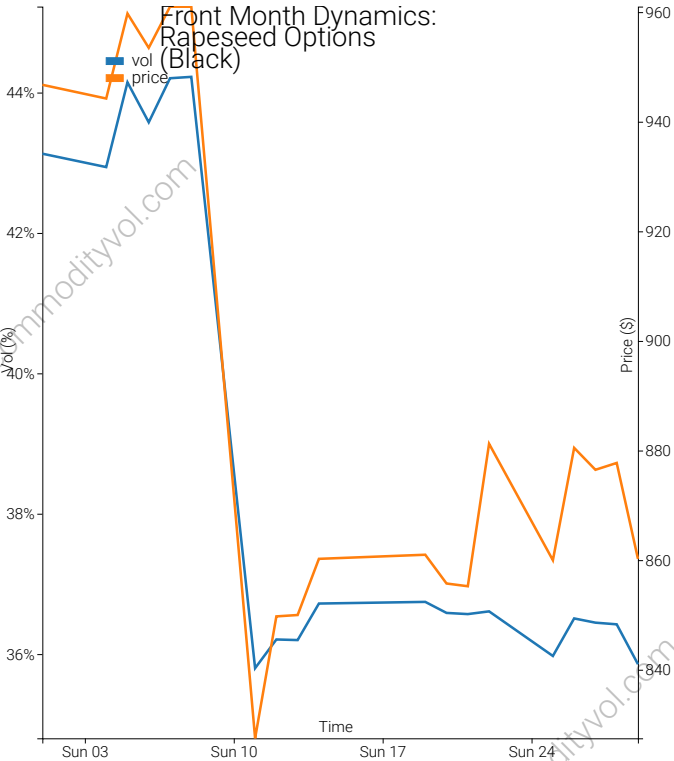
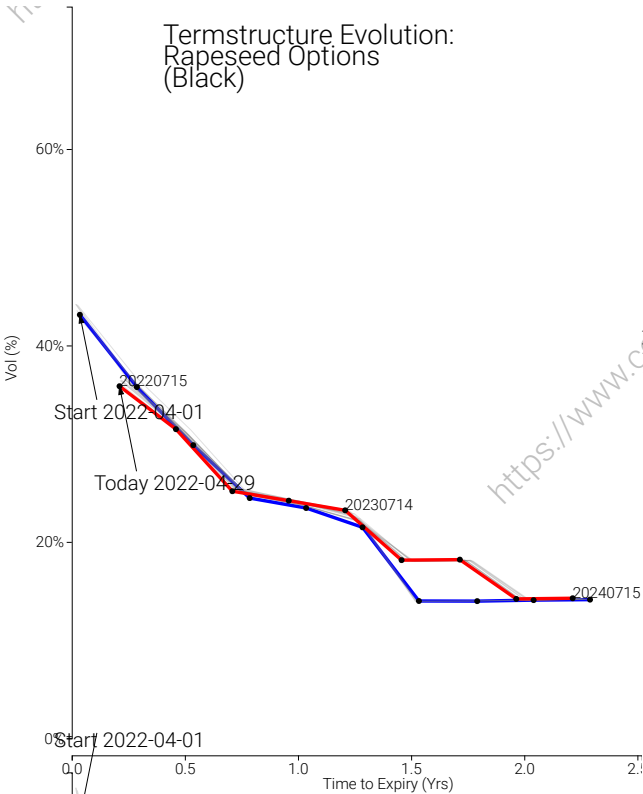




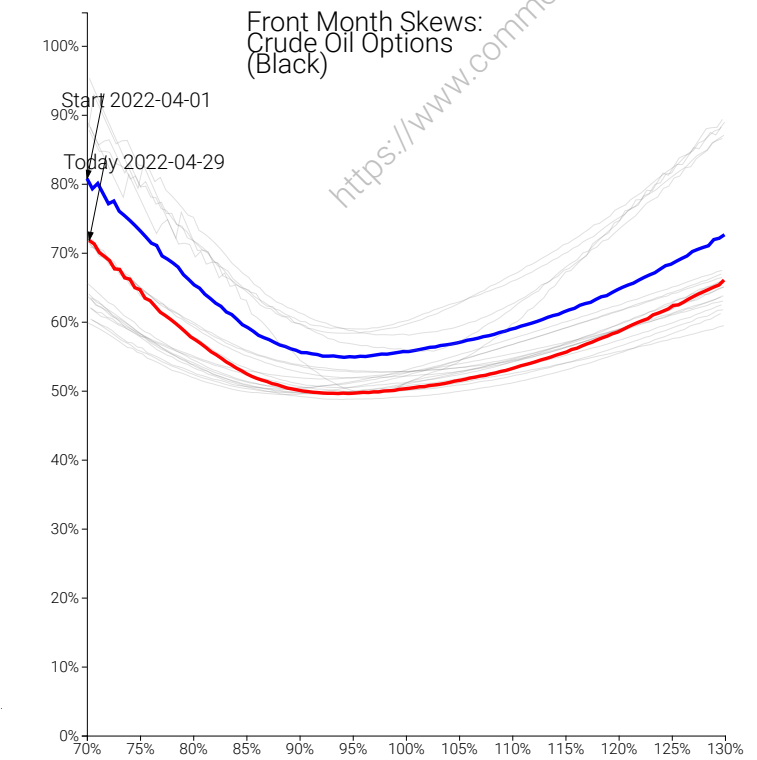


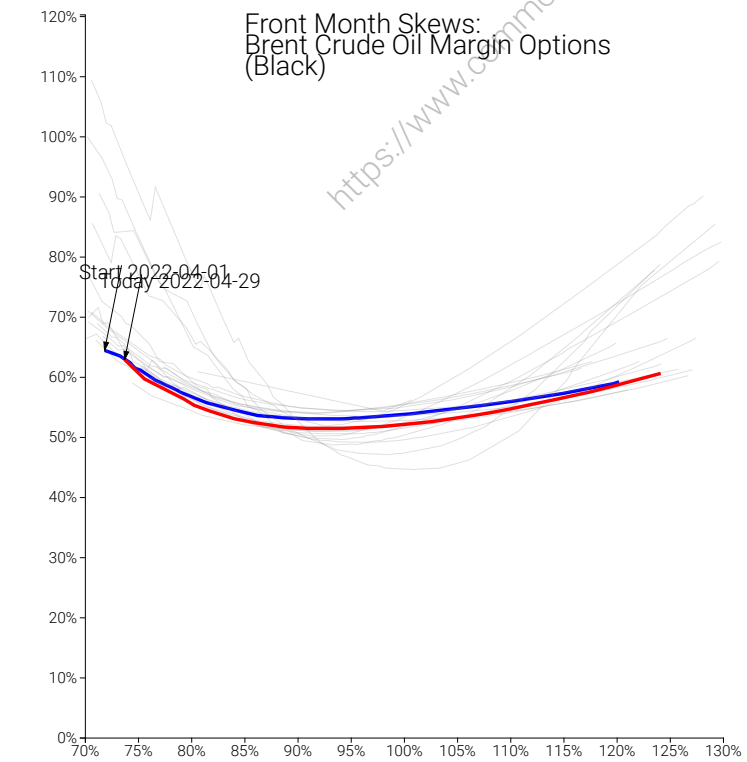
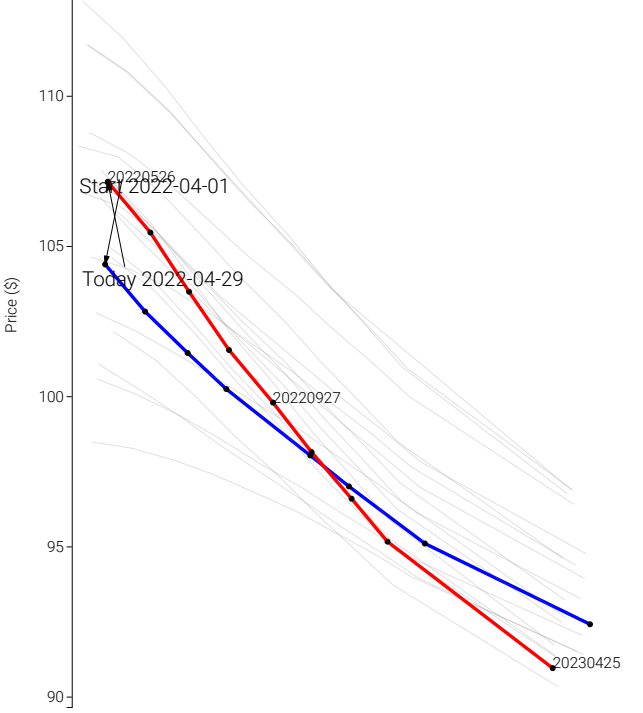
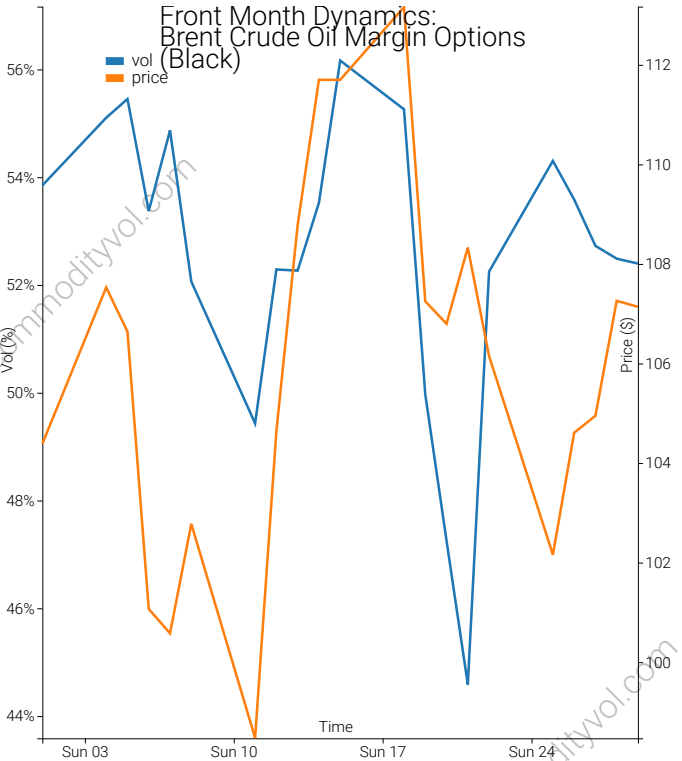
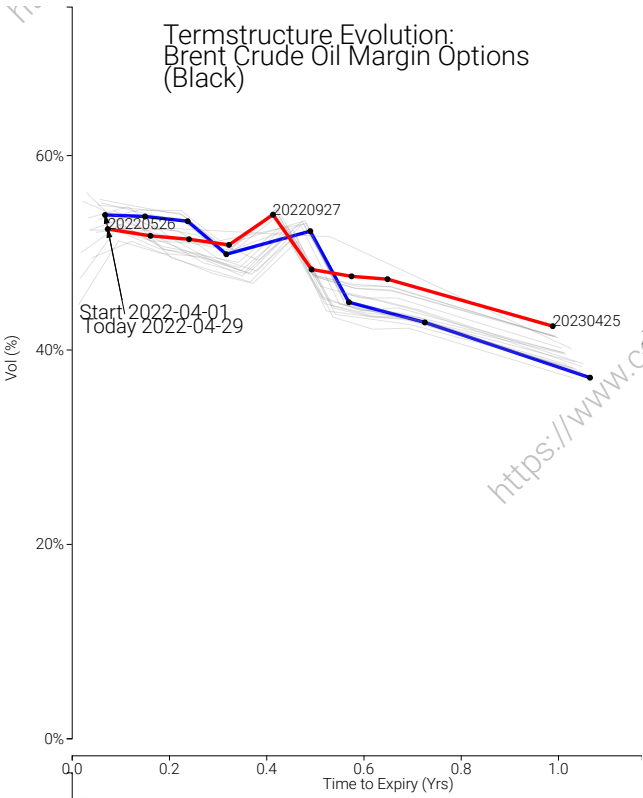


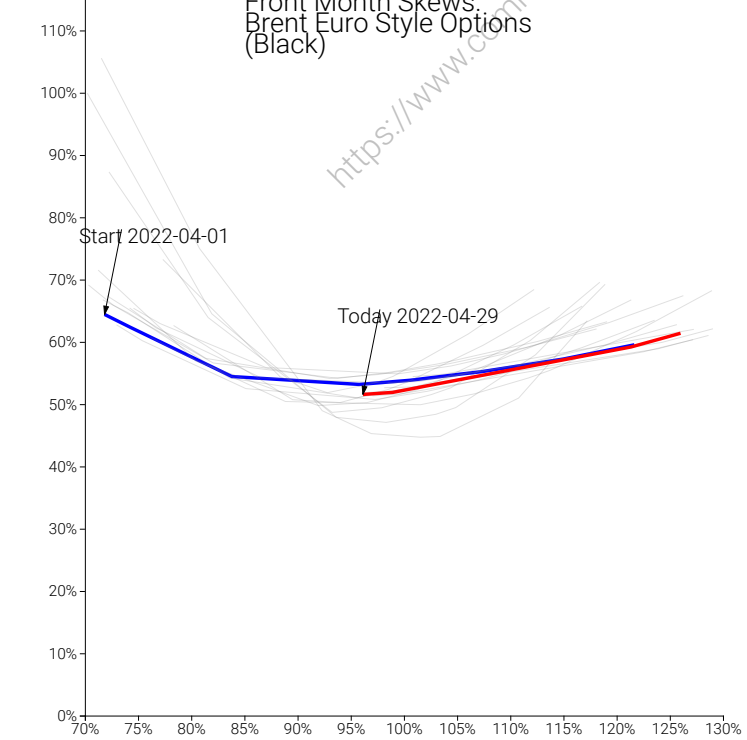
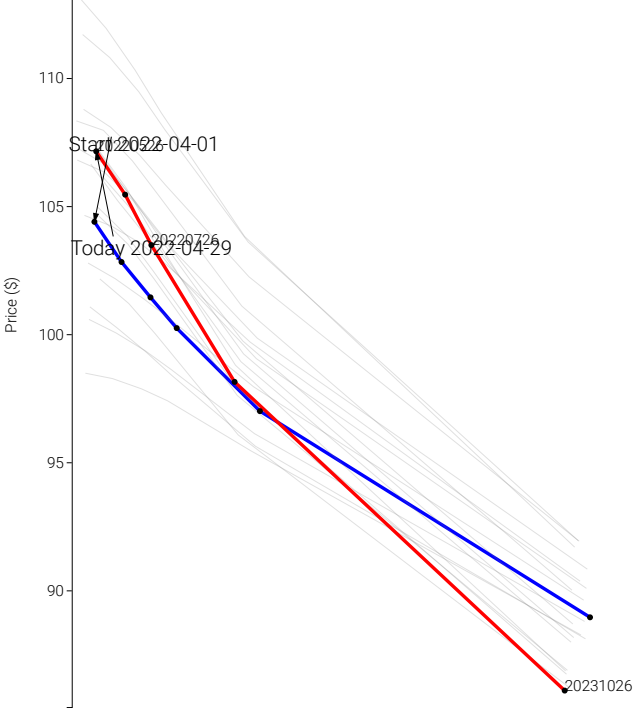
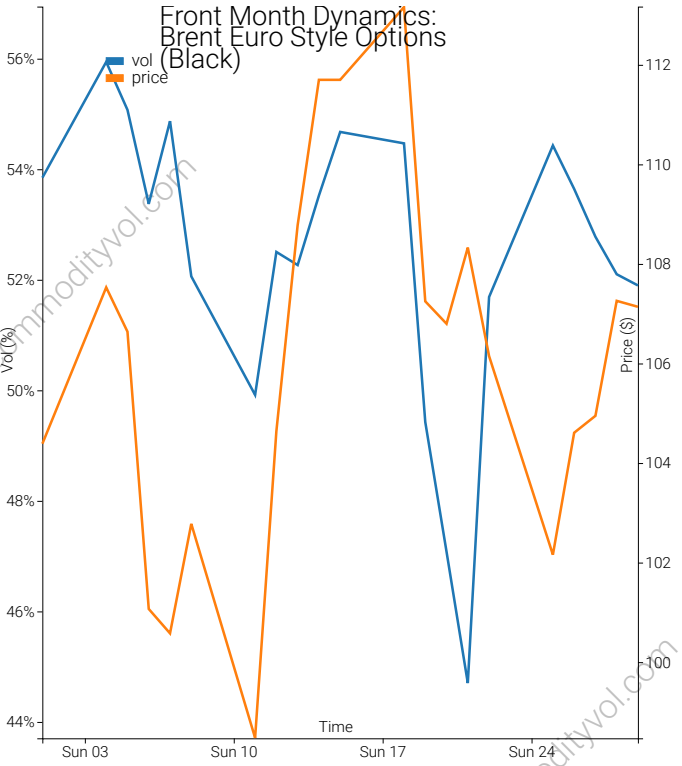
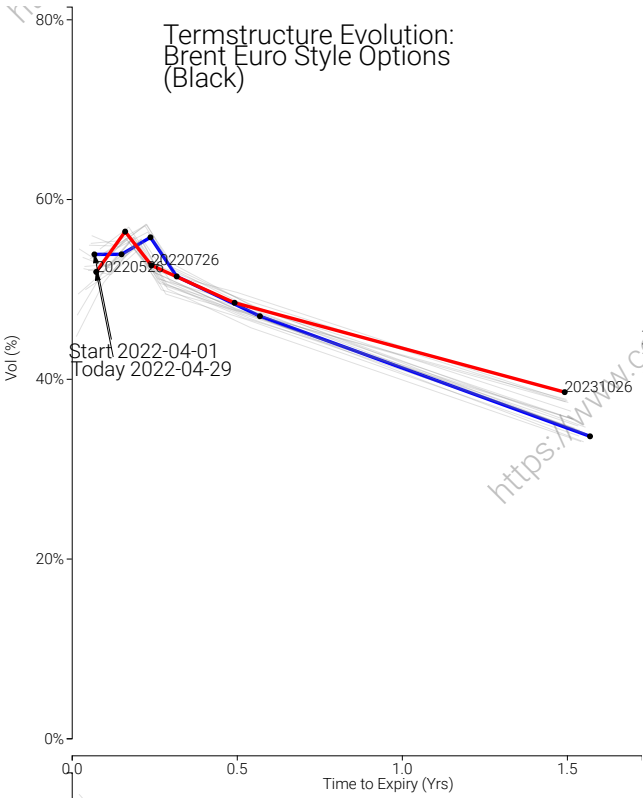


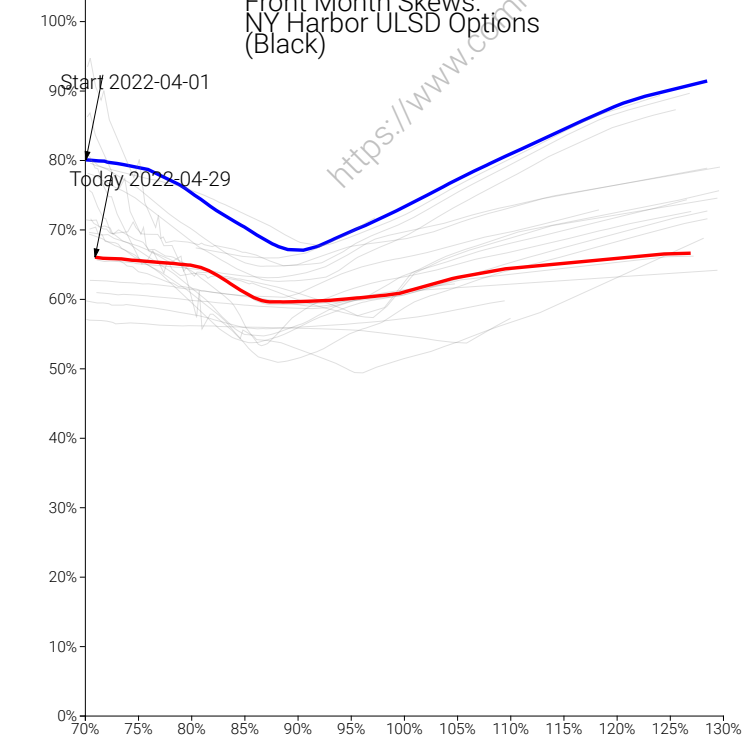
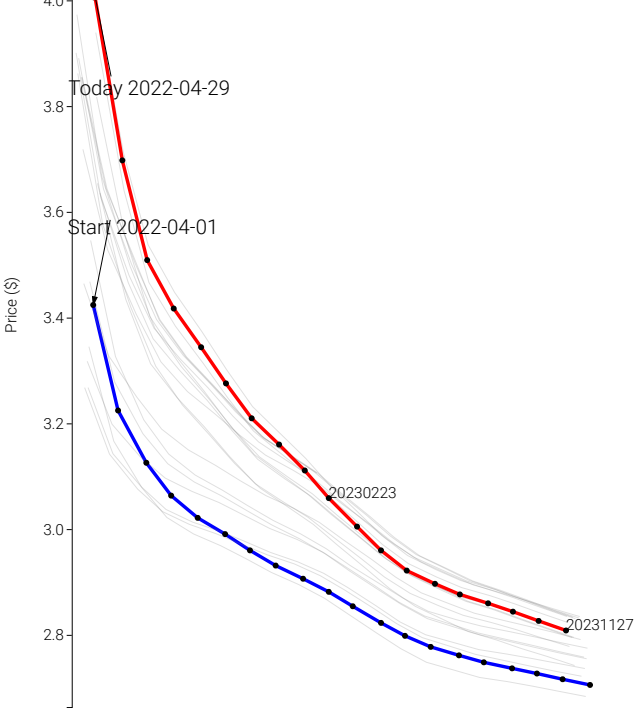
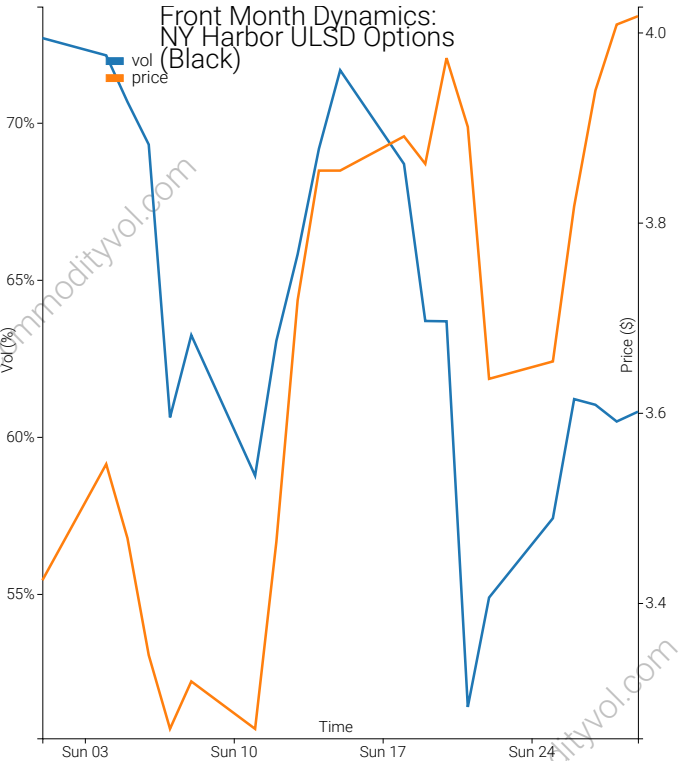
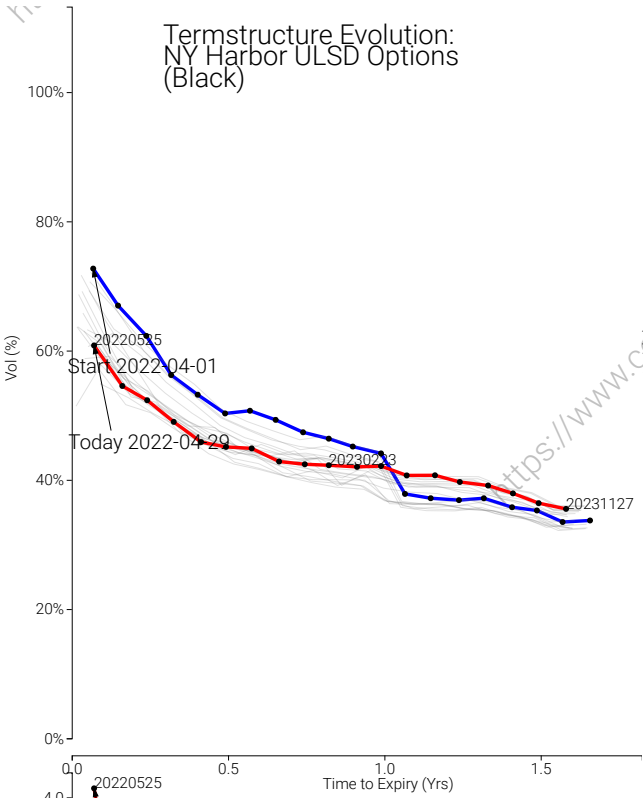


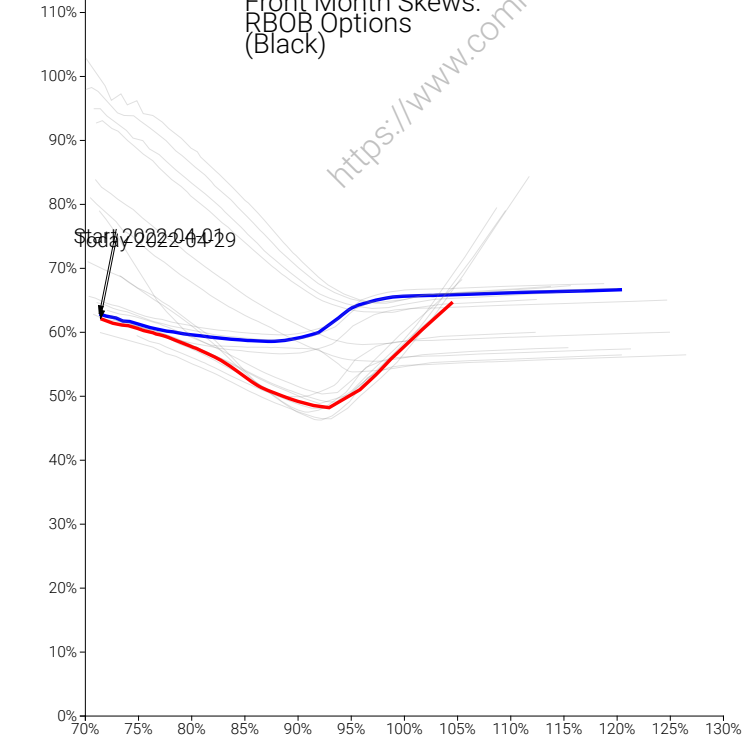
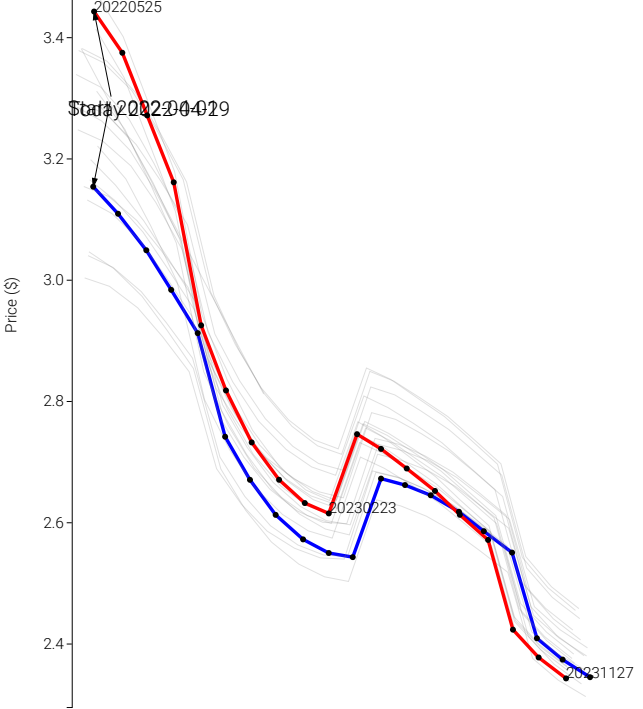
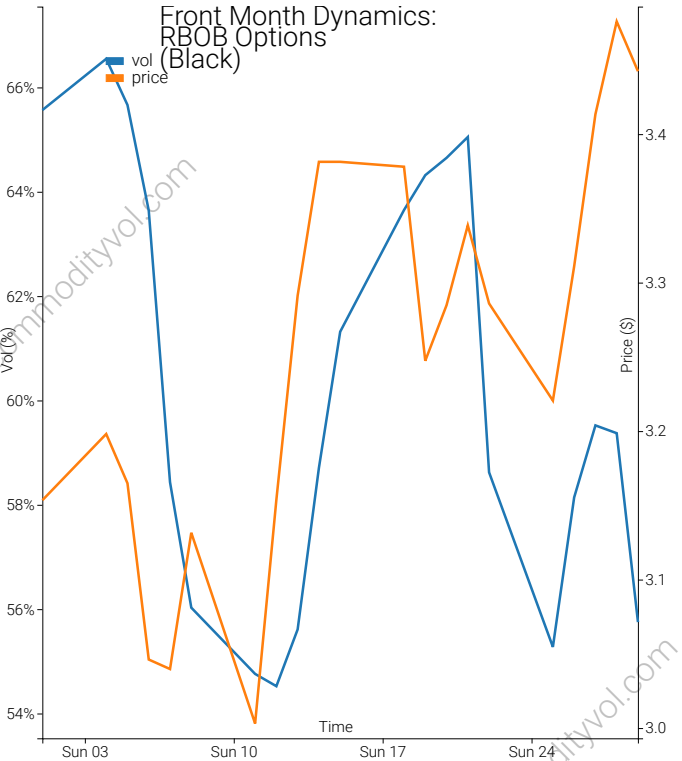
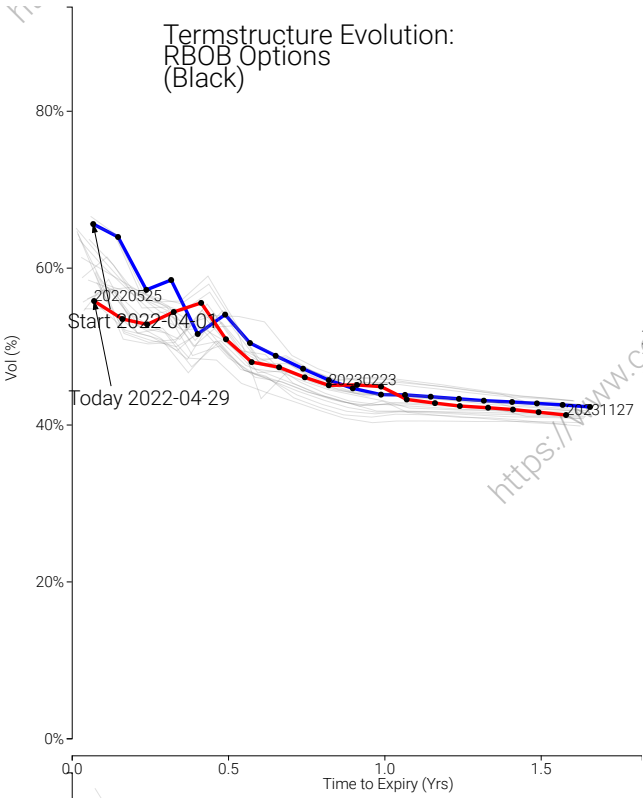
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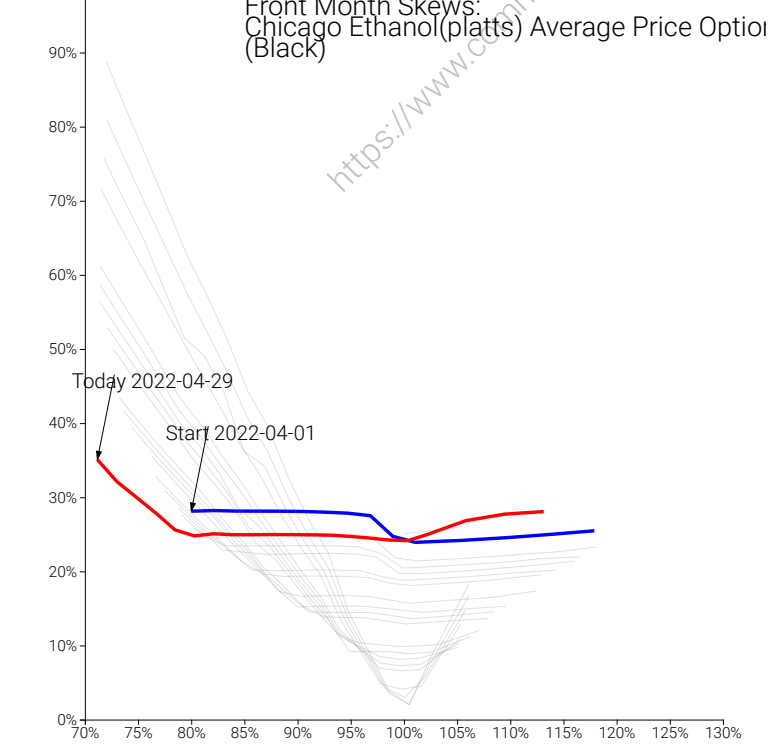
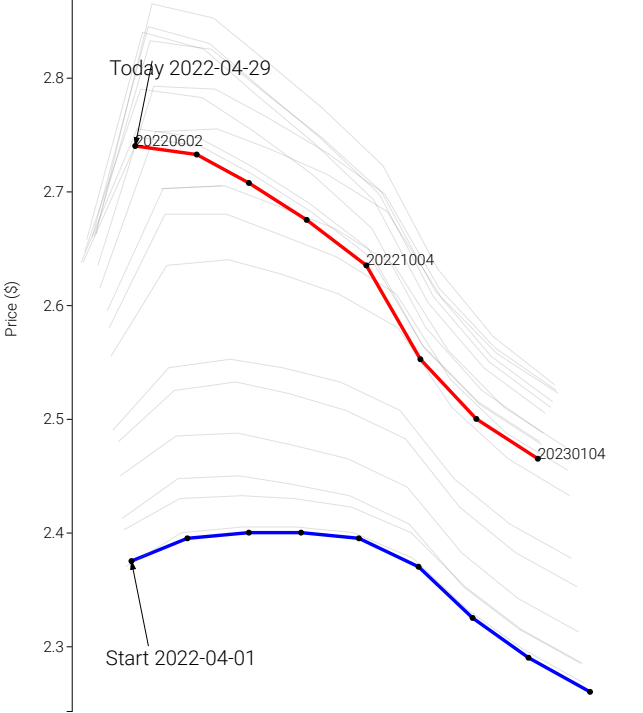
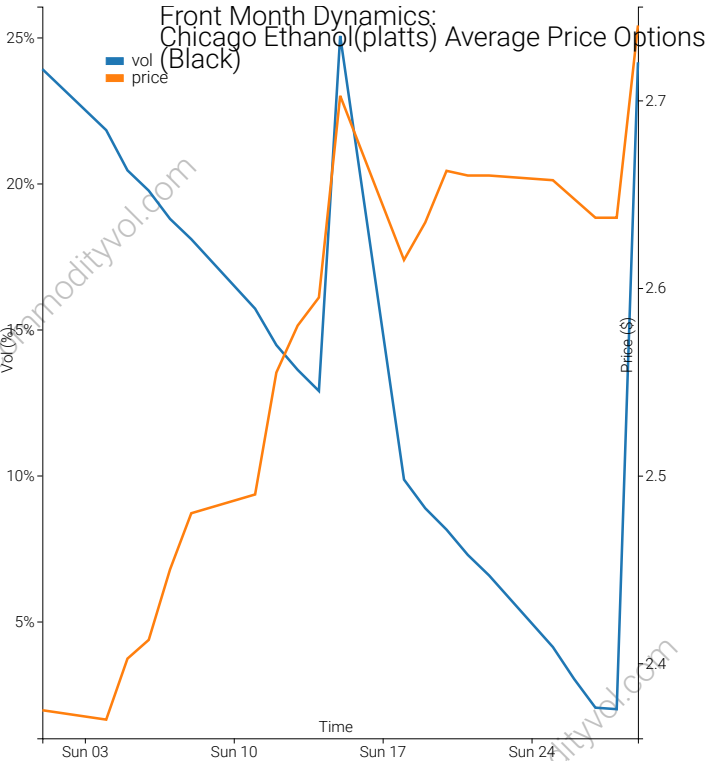
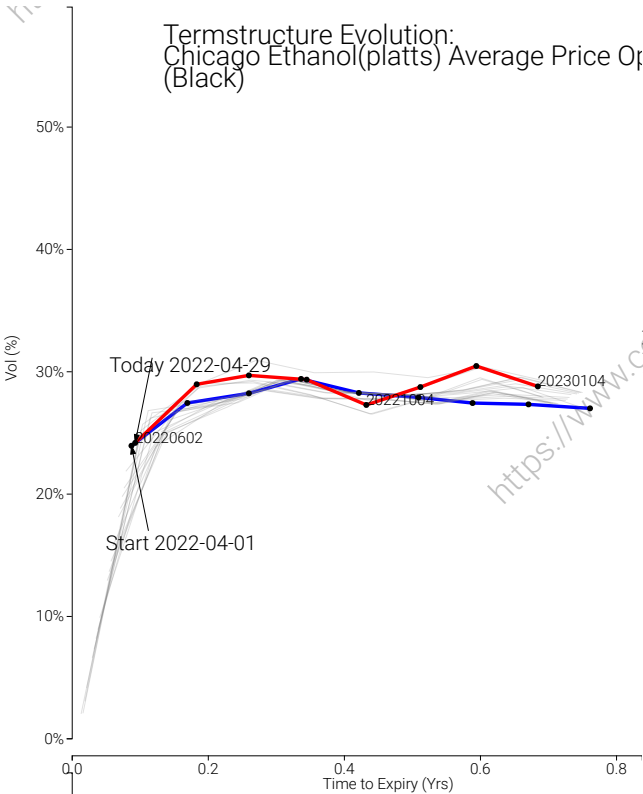




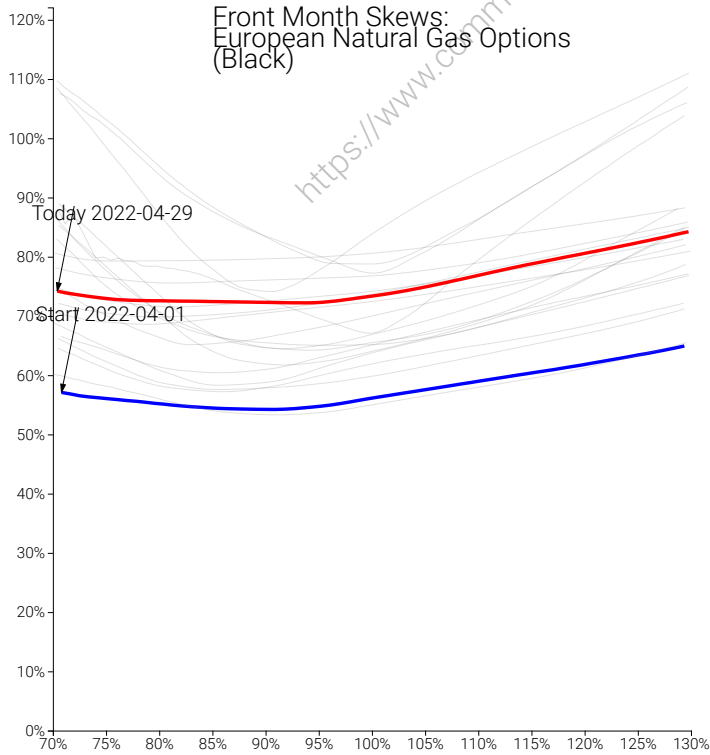
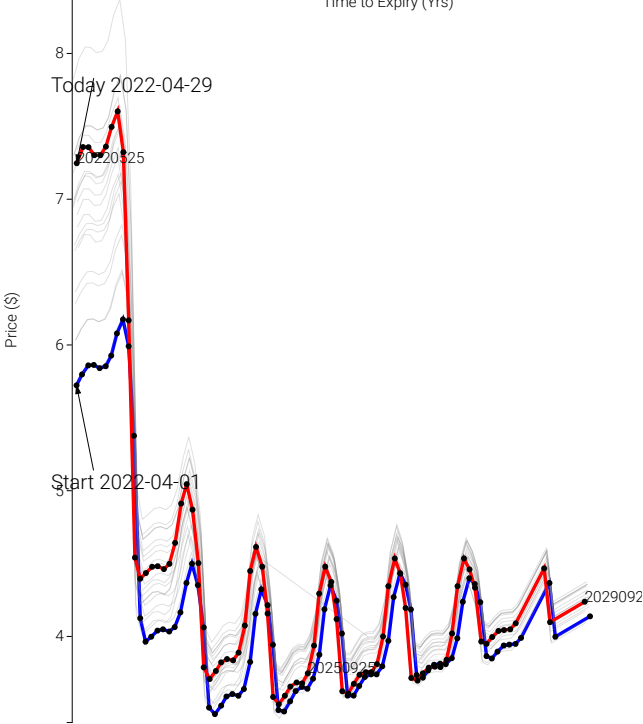
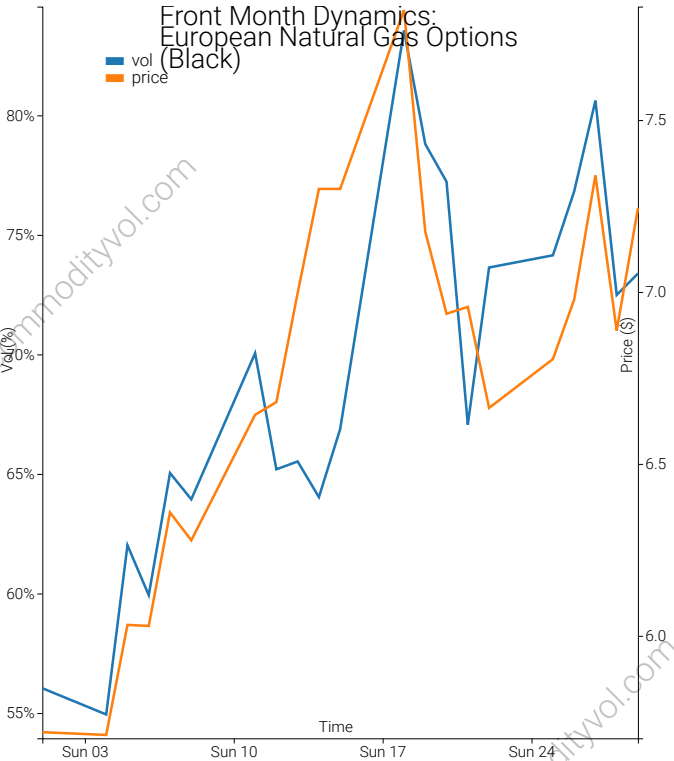
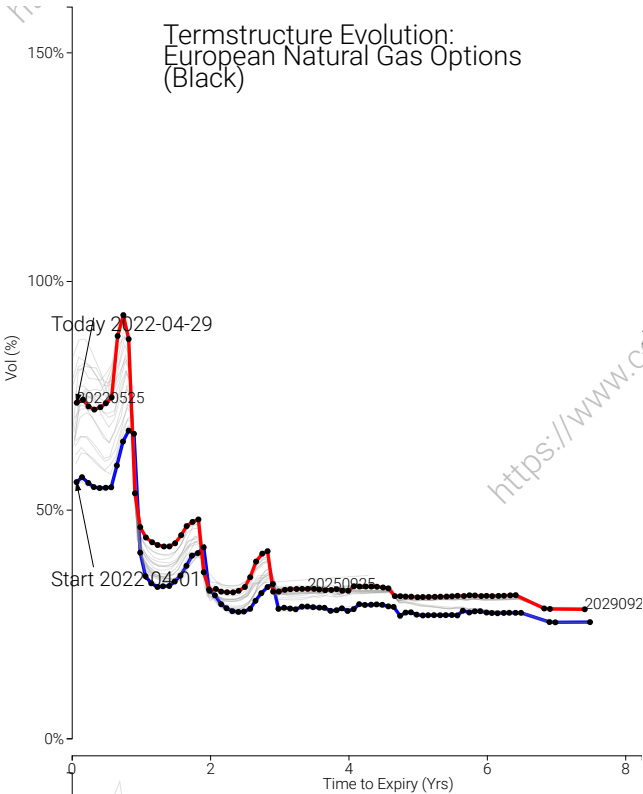


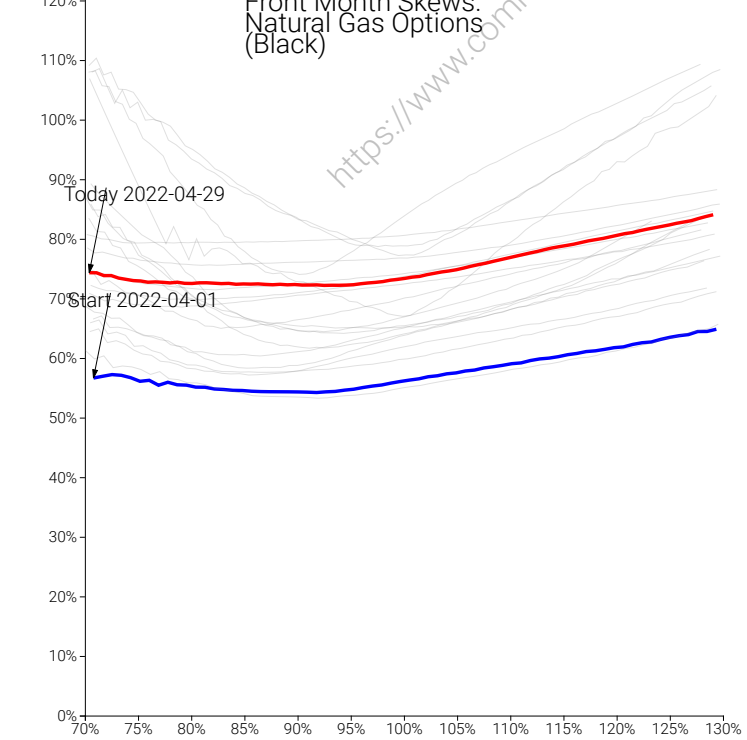
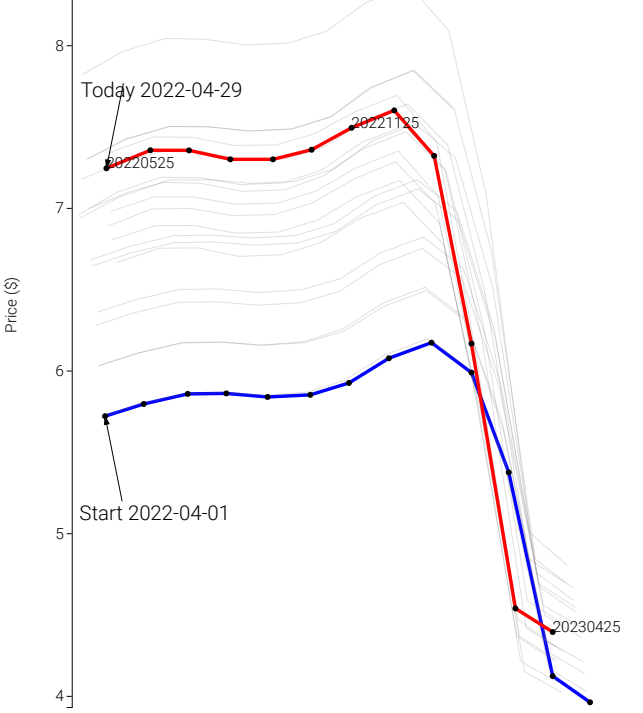
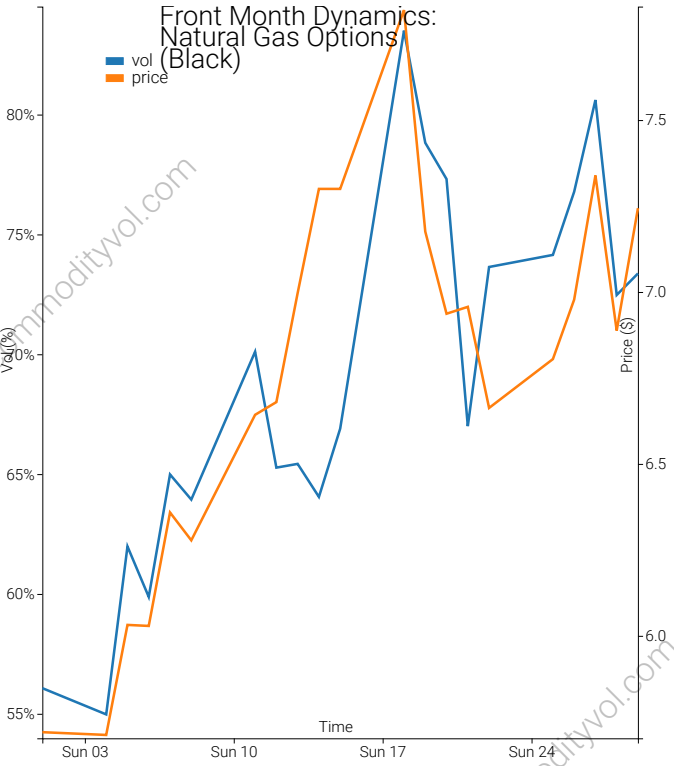
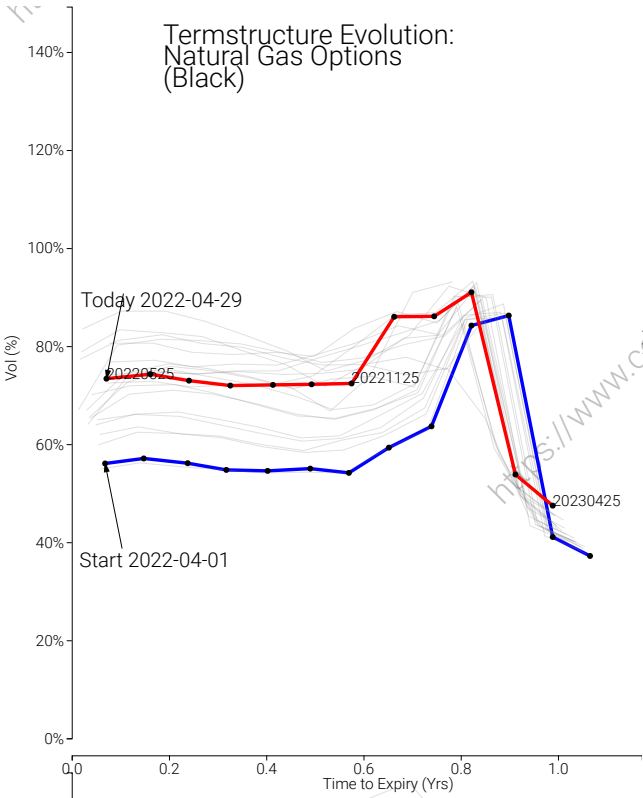


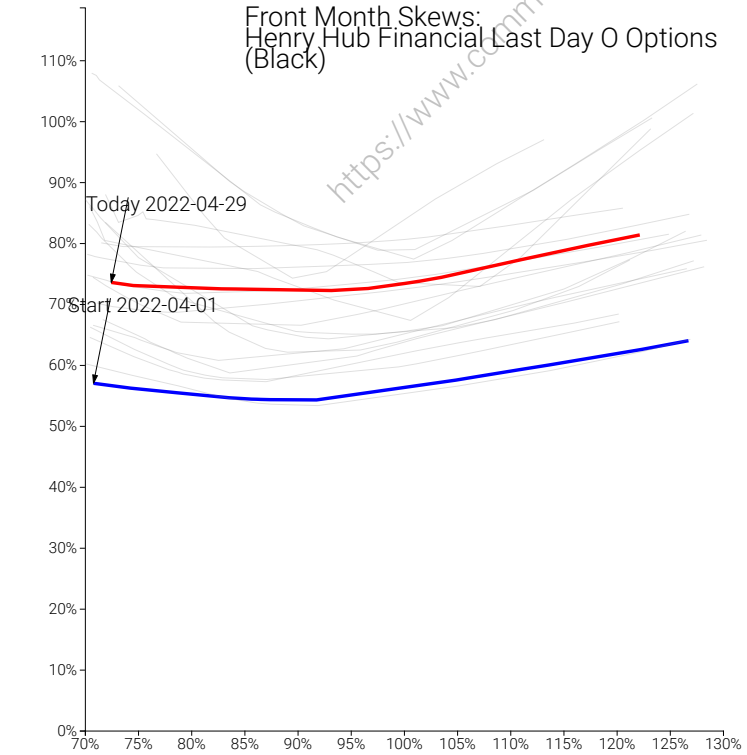
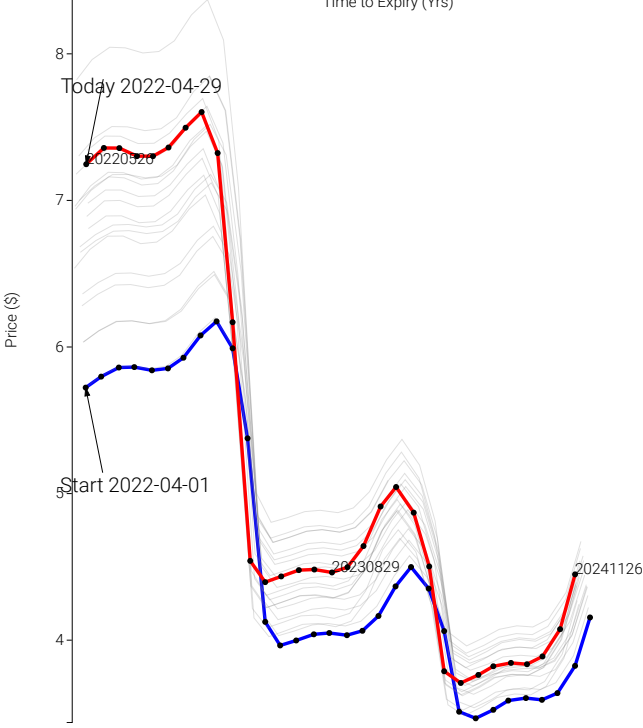
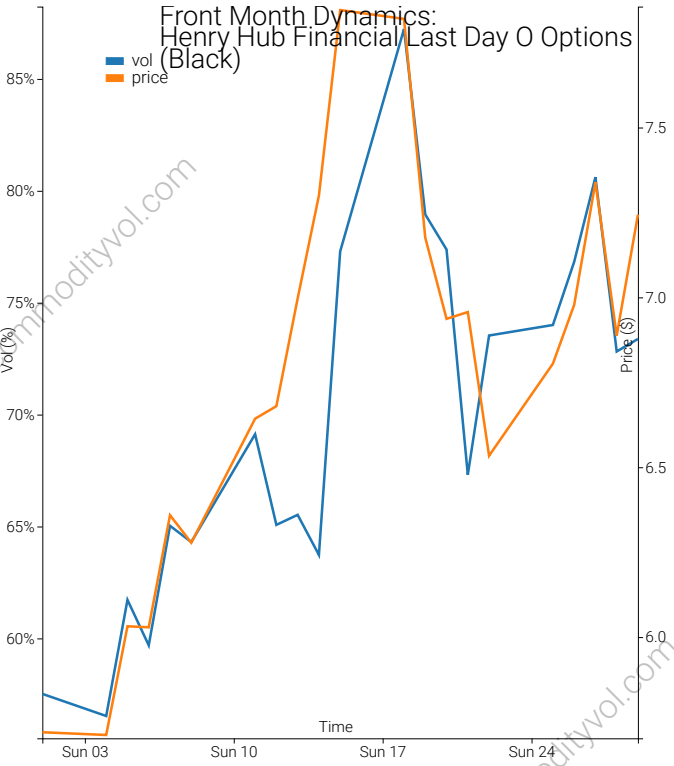
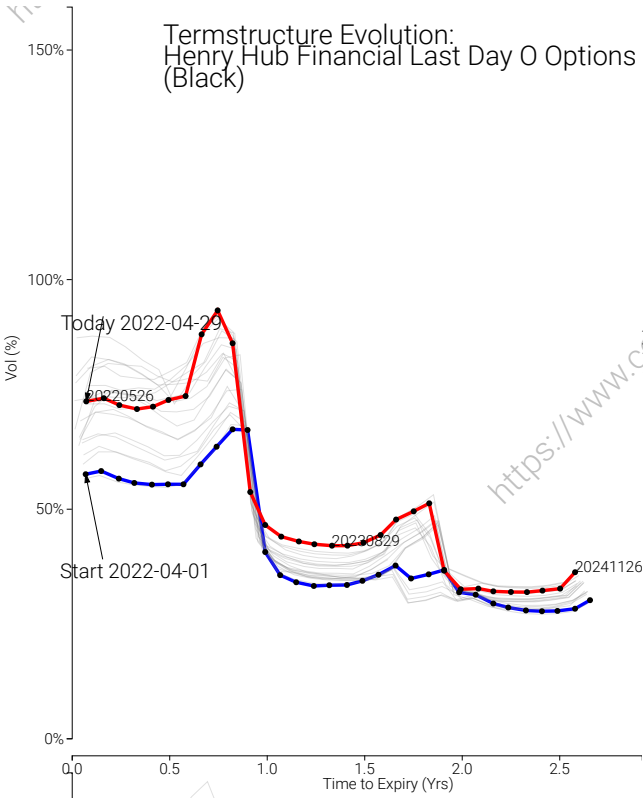


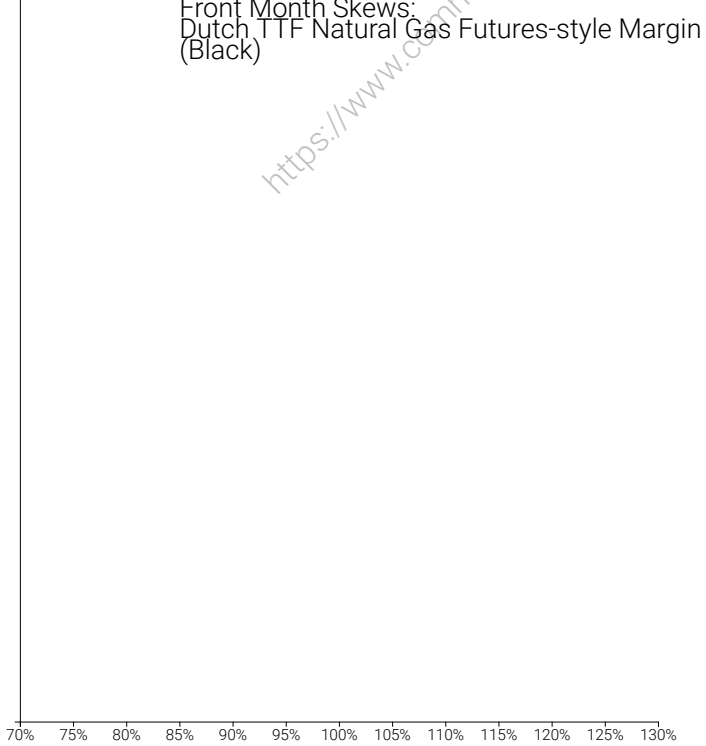
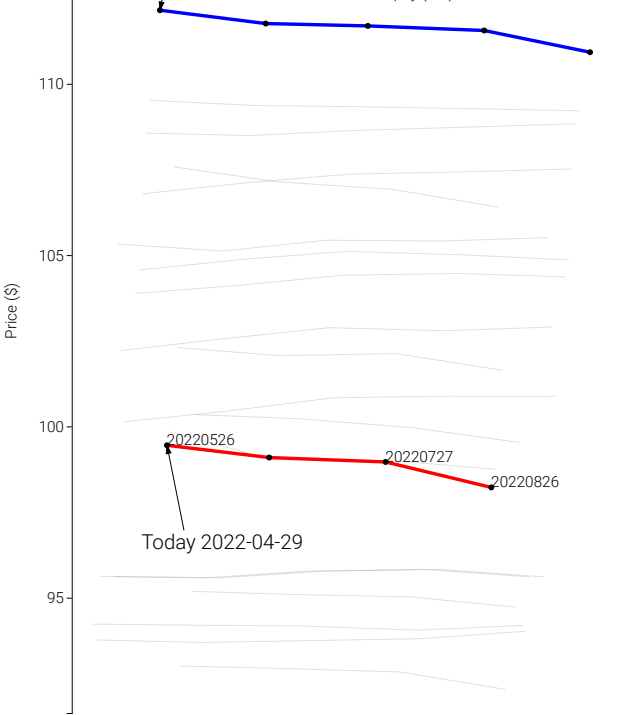
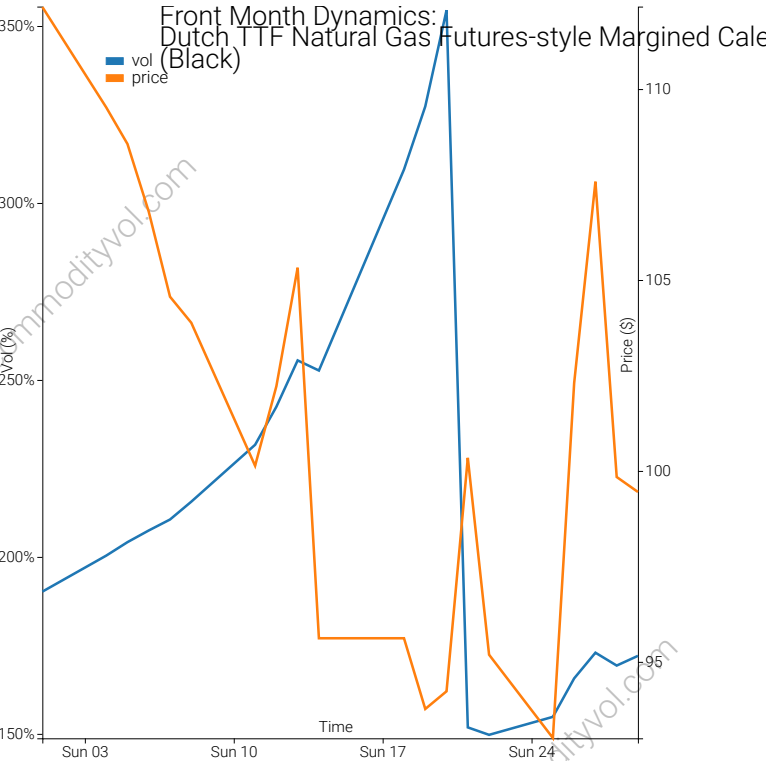
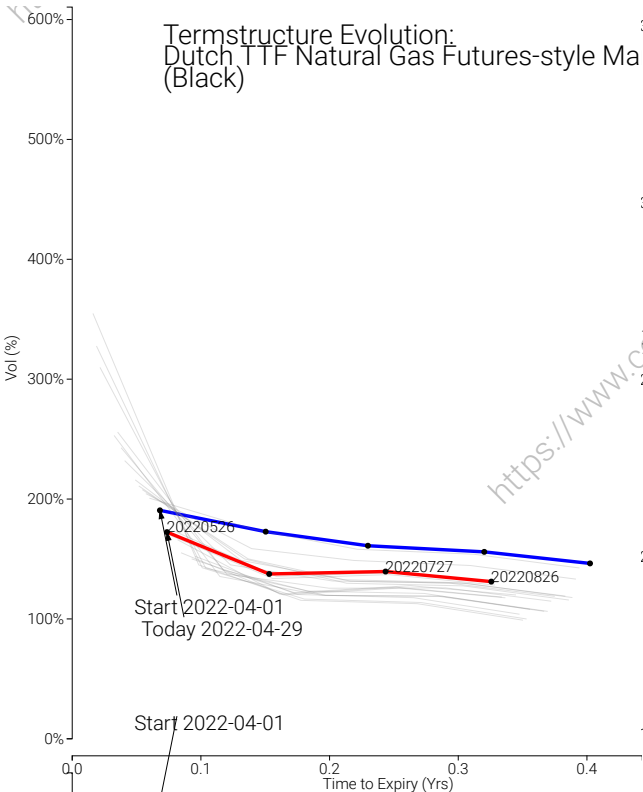


Natural Gas







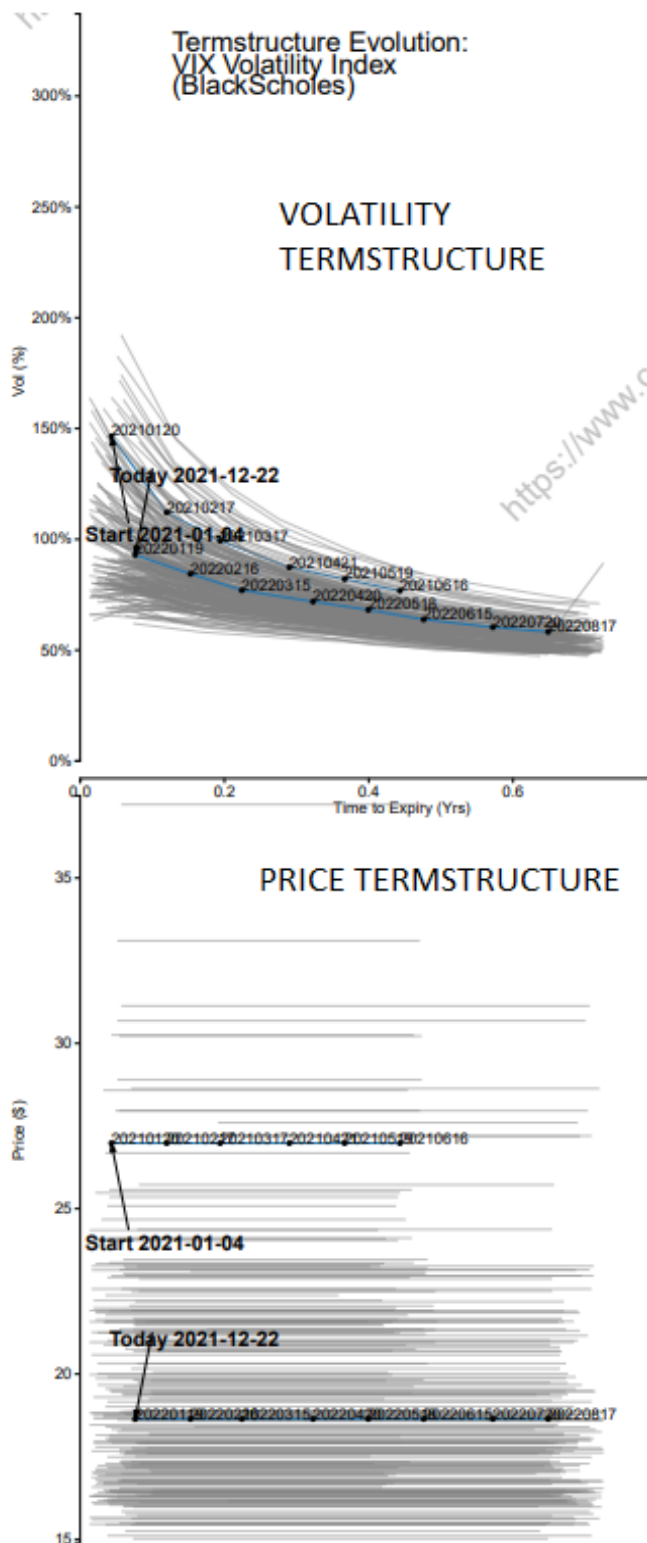


Explanation:

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:

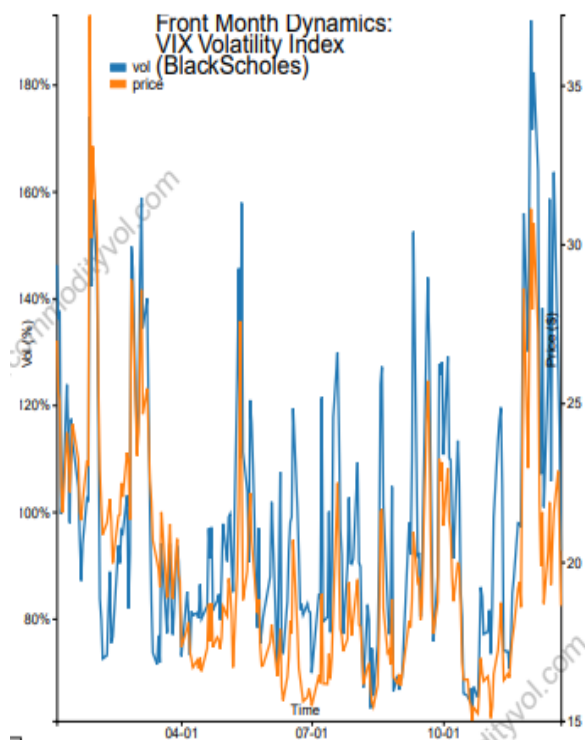
Stacked on top of the other on the left hand side, see the termstructures of vol and the (underlying) futures contract price.



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:

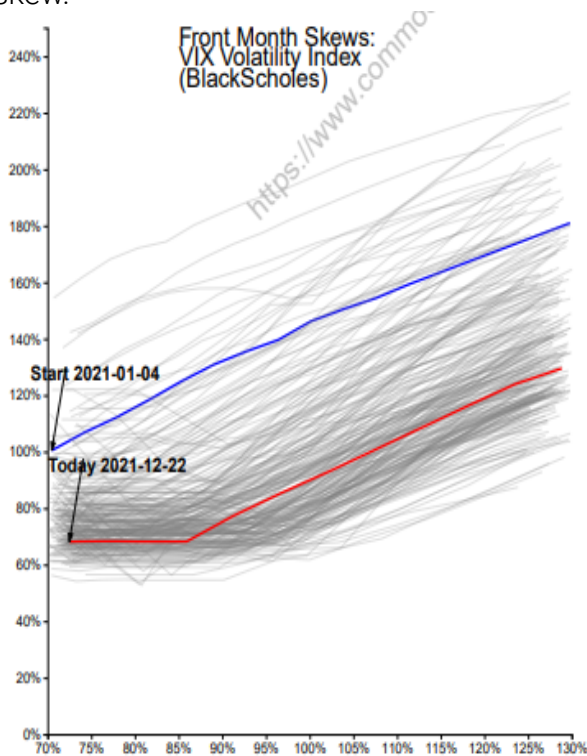
On the right hand panel we have the price and implied volatility of the front month contract.



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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