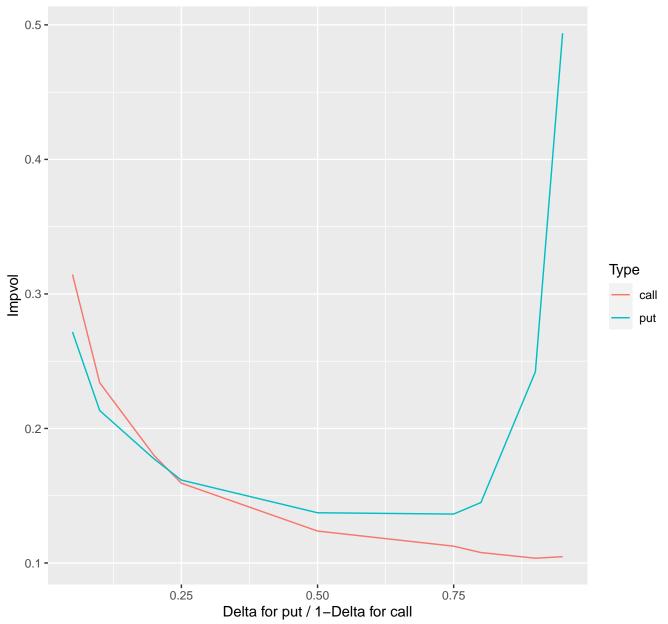
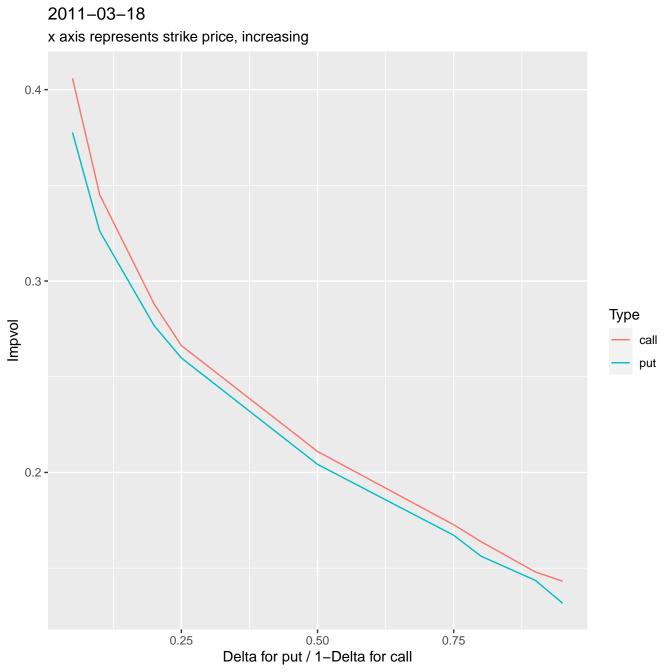


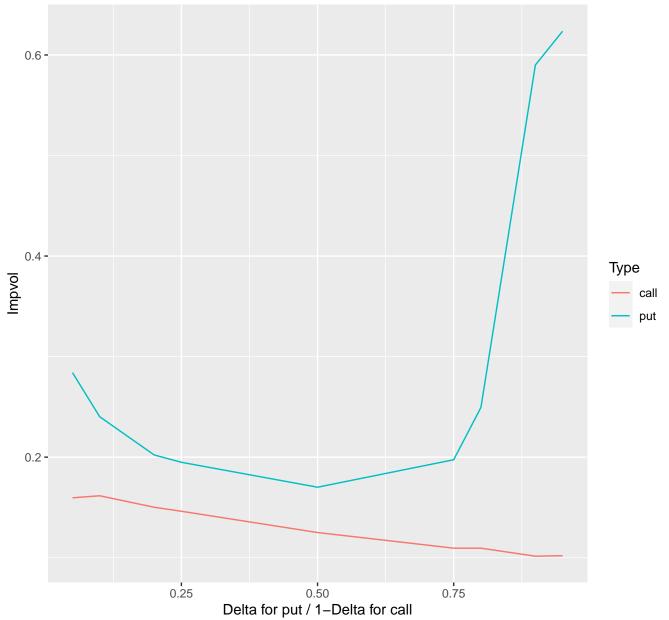
2011-02-18





2011-04-15 x axis represents strike price, increasing 0.3 -Type Impvol call put 0.1 -0.25 0.75 0.50 Delta for put / 1-Delta for call

2011-05-20



2011-06-17 x axis represents strike price, increasing 0.30 -0.25 -Type Impvol call put 0.20 -0.15 -0.25 0.50 0.75 Delta for put / 1-Delta for call

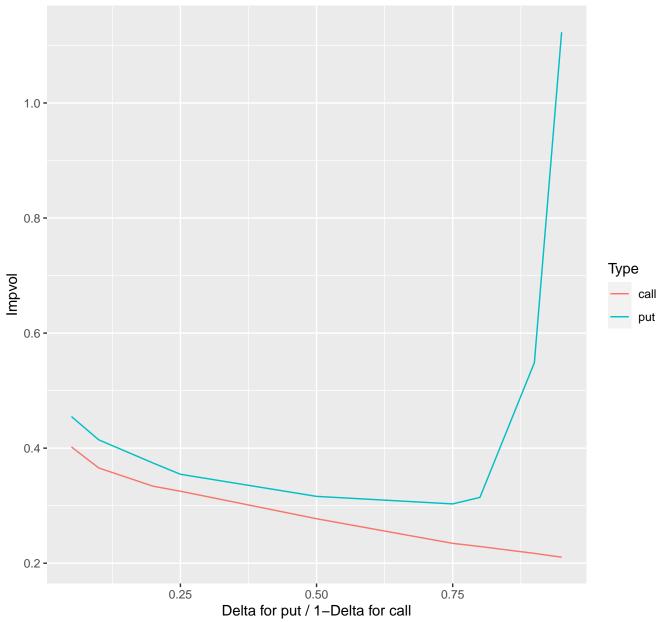
2011-07-15 x axis represents strike price, increasing 0.4 -0.3 -Type Impvol call put 0.2 -0.1 -0.25 0.50 0.75 Delta for put / 1-Delta for call

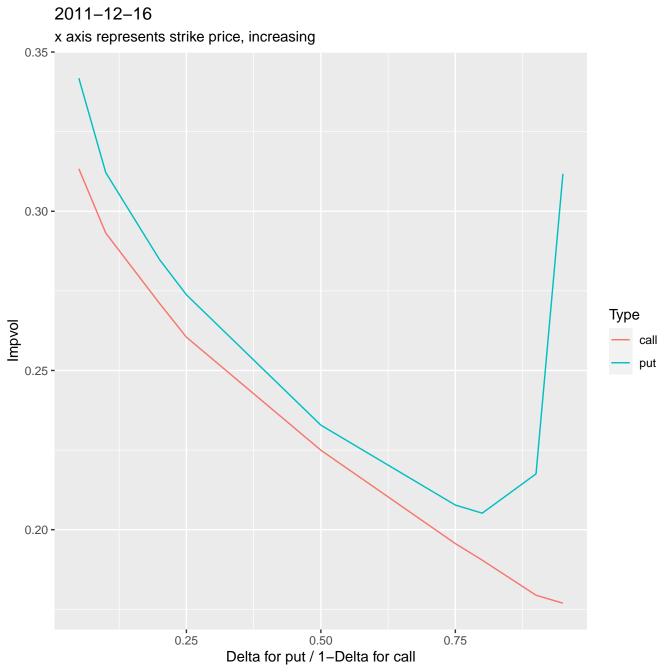
2011-08-19 x axis represents strike price, increasing 0.8 -Type call put 0.4 -0.25 0.50 0.75 Delta for put / 1-Delta for call

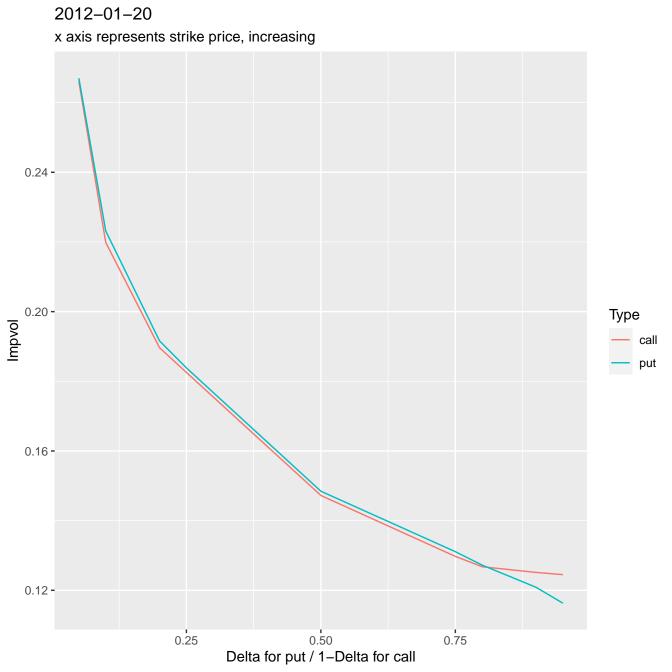
2011-09-16 x axis represents strike price, increasing 0.5 -0.4 -Type Impvol call put 0.3 -0.2 -0.25 0.50 0.75 Delta for put / 1-Delta for call

2011-10-21 x axis represents strike price, increasing 0.5 -0.4 -Type Impvol call put 0.3 -0.2 -0.25 0.50 0.75 Delta for put / 1-Delta for call

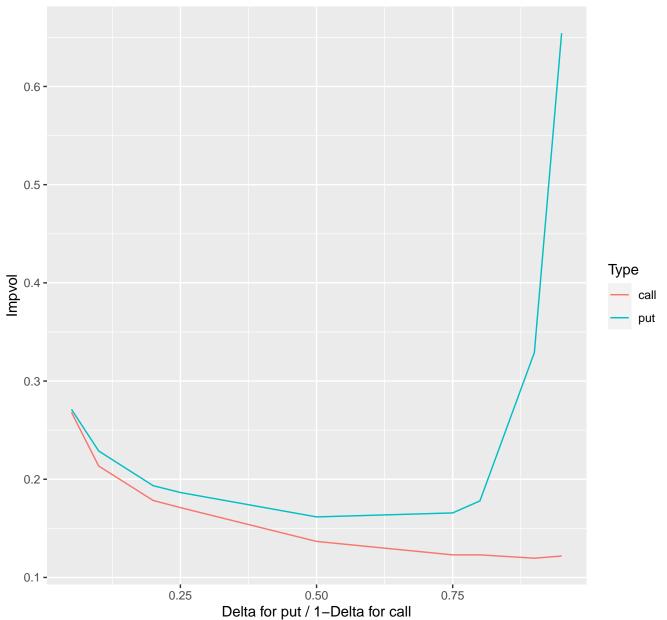
2011-11-18



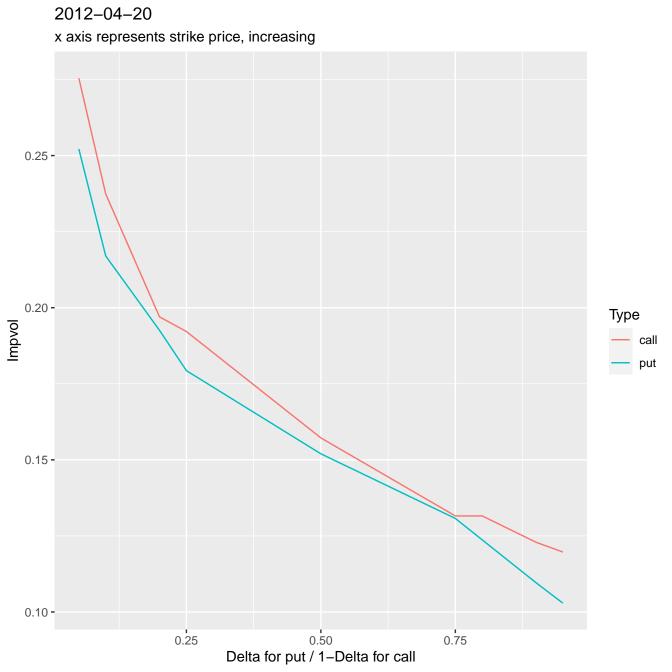


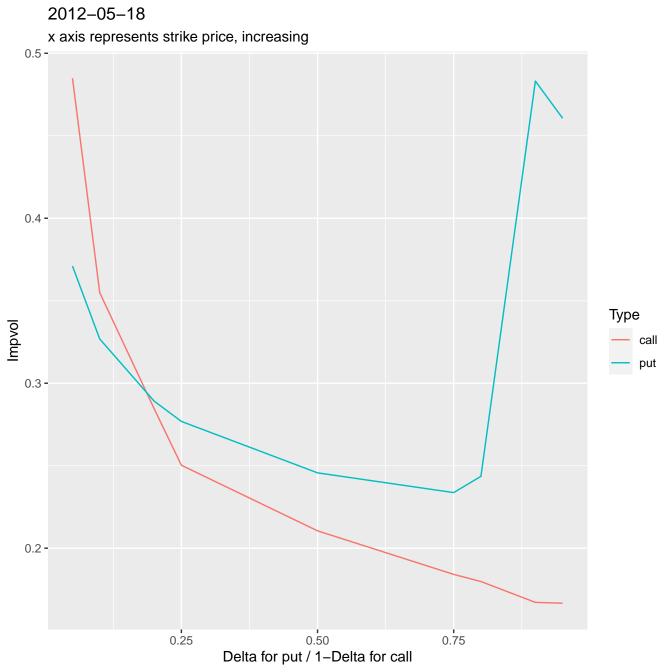


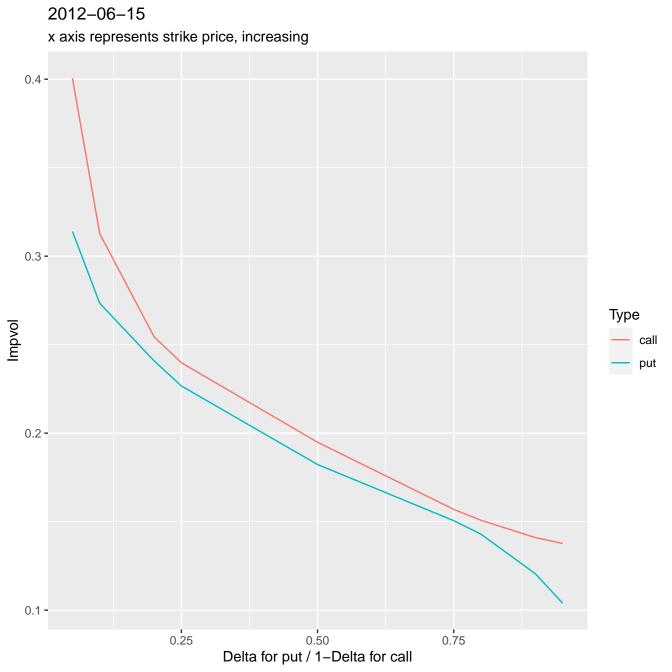
2012-02-17



2012-03-16 x axis represents strike price, increasing 0.20 -Type Impvol call put 0.15 -0.10 -0.25 0.50 0.75 Delta for put / 1-Delta for call







2012-07-20 x axis represents strike price, increasing 0.21 -Type 0.18 call put 0.15 -0.12 -

0.50

Delta for put / 1-Delta for call

0.75

0.25

2012-08-17 x axis represents strike price, increasing 0.5 -0.4 -Type ovdm 0.3 call put 0.2 -0.1 -0.25 0.75 0.50

Delta for put / 1-Delta for call

2012-09-21 x axis represents strike price, increasing 0.20 -Type Impvol call put 0.15 **-**0.10 -

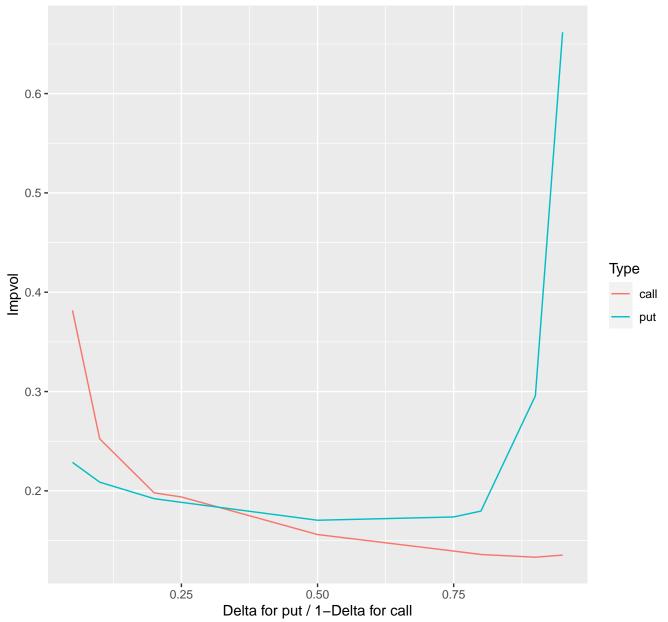
0.50
Delta for put / 1–Delta for call

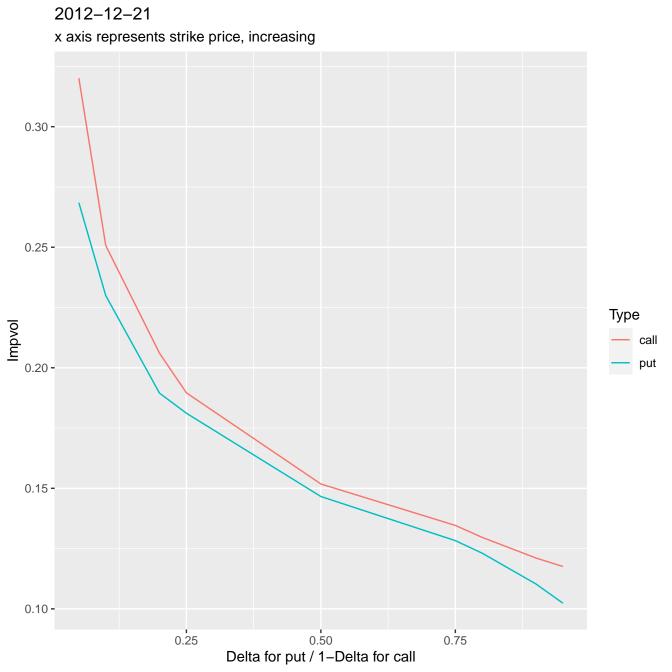
0.75

0.25

2012-10-19 x axis represents strike price, increasing 0.5 -0.4 -Type ovdm 0.3 call put 0.2 -0.1 -0.25 0.75 0.50 Delta for put / 1-Delta for call

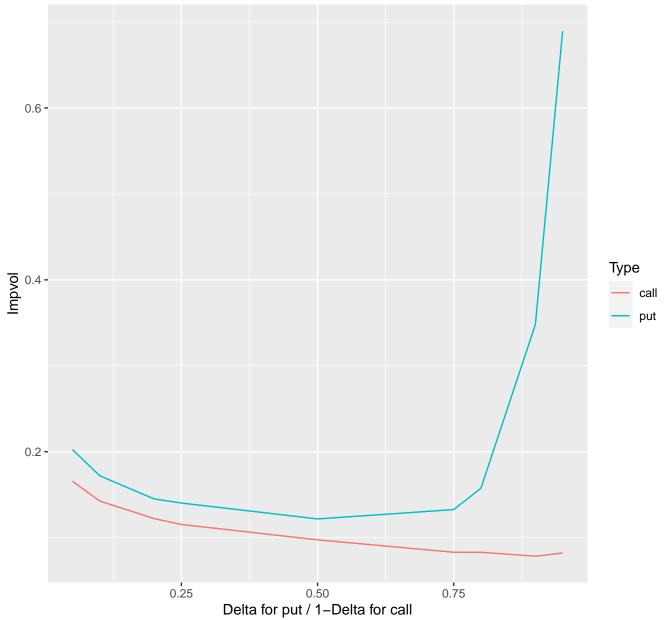
2012-11-16

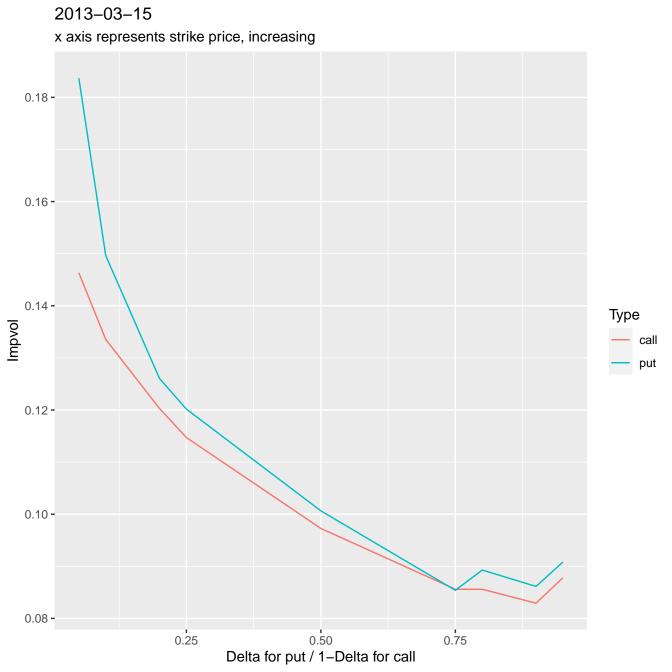




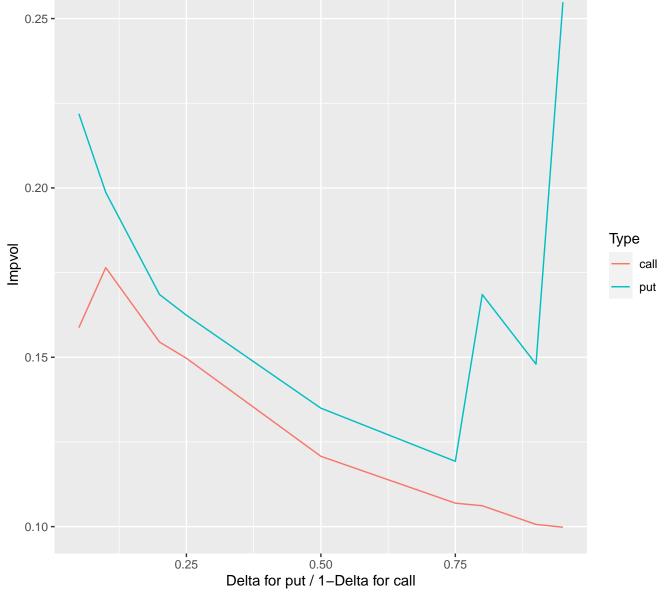
2013-01-18 x axis represents strike price, increasing 0.18 -0.16 -0.14 -Type Impvol call put 0.12 -0.10 -0.25 0.50 0.75 Delta for put / 1-Delta for call

2013-02-15

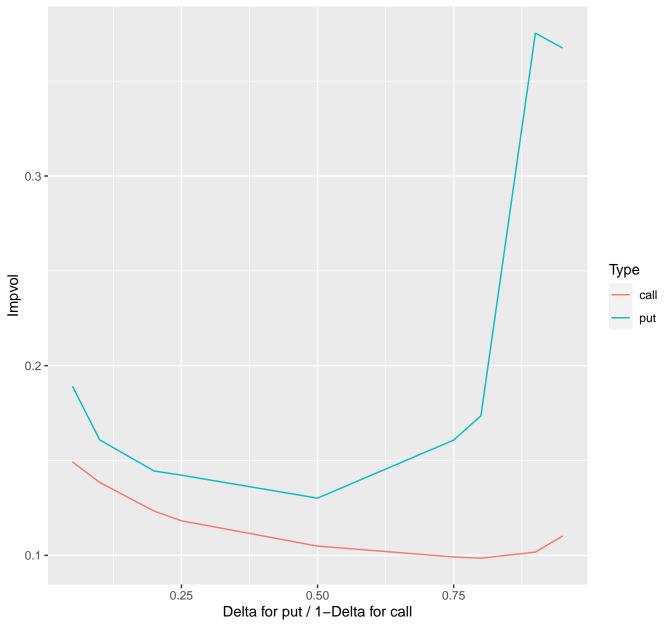




2013-04-19 x axis represents strike price, increasing 0.25 -0.20 -Туре



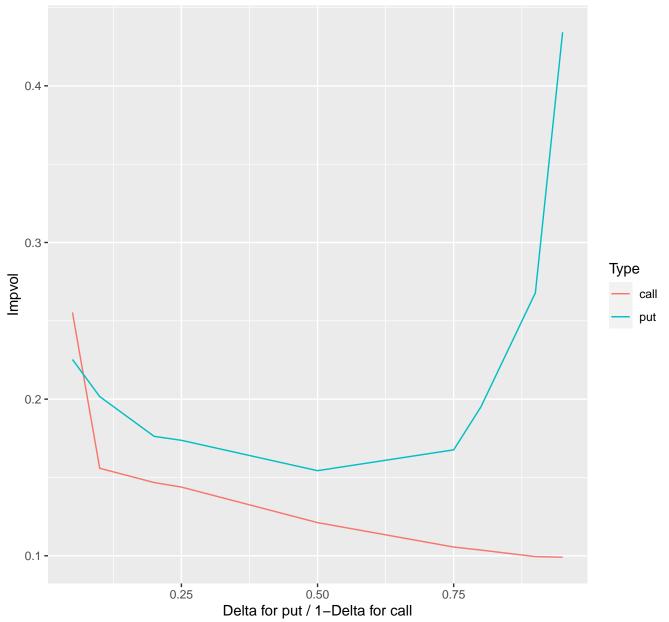
2013-05-17

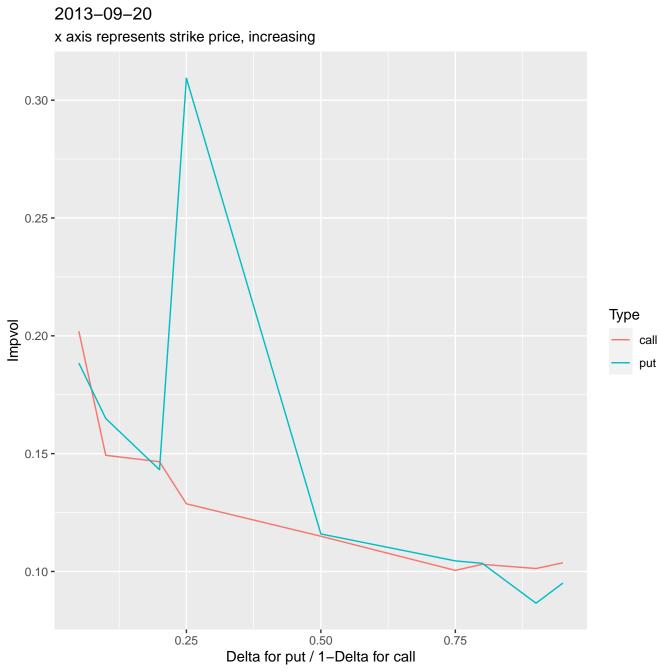


2013-06-21 x axis represents strike price, increasing 0.24 -Type 0.20 call put 0.16 -0.12 -0.25 0.75 0.50 Delta for put / 1-Delta for call

2013-07-19 x axis represents strike price, increasing 0.3 -Type call put 0.1 -0.25 0.75 0.50 Delta for put / 1-Delta for call

2013-08-16

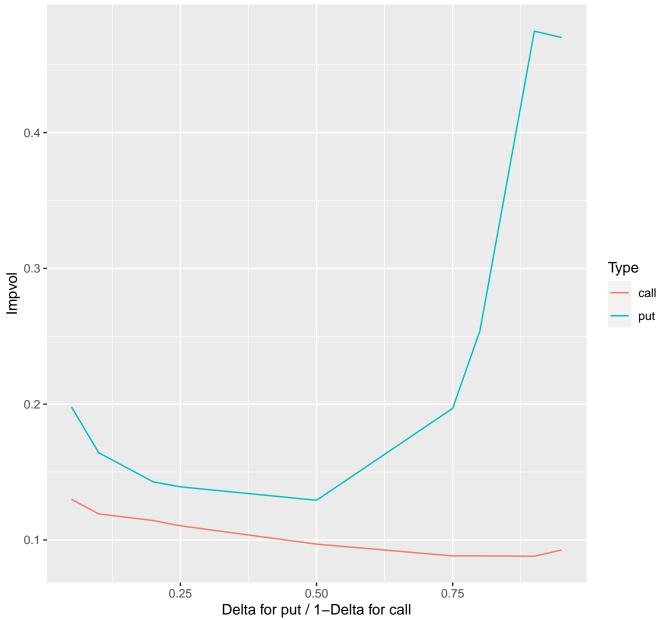




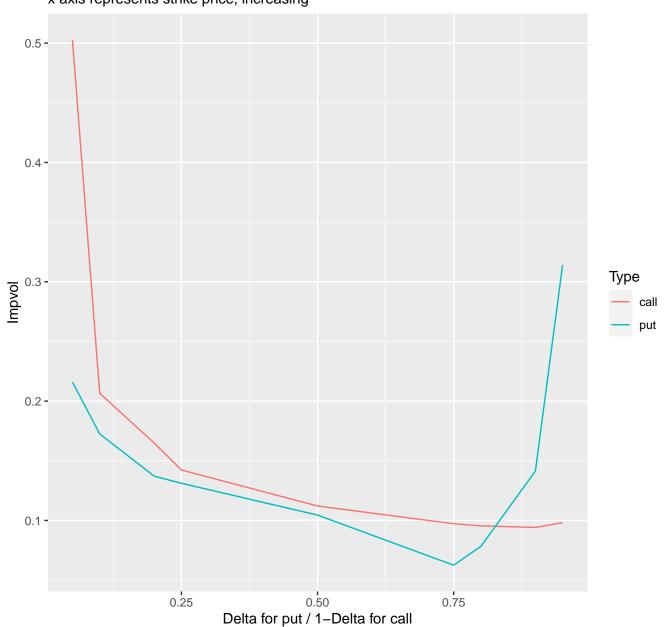
2013-10-18 x axis represents strike price, increasing 0.21 -0.18 -Туре ovd 0.15 call put 0.12 -0.09 -0.25 0.50 0.75

Delta for put / 1-Delta for call

2013-11-15



2013-12-20 x axis represents strike price, increasing 0.5 -



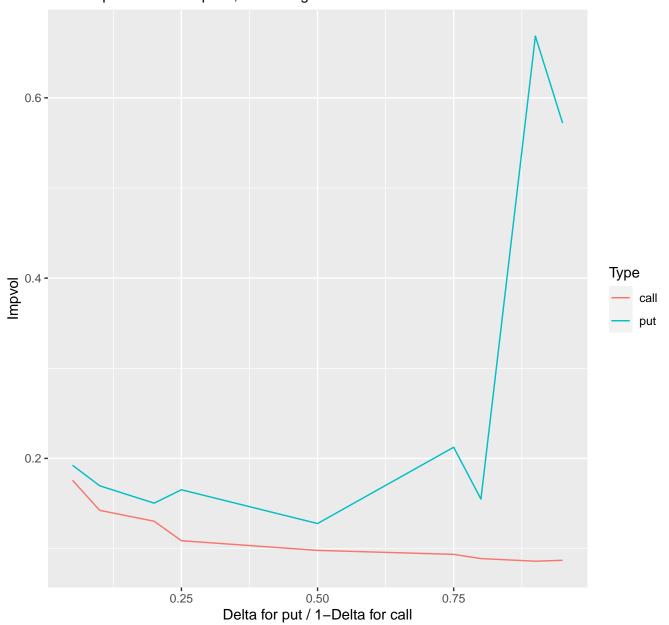
2014-01-17 x axis represents strike price, increasing 0.20 -Type ondw 0.15 call put 0.10 -0.25 0.75 0.50 Delta for put / 1-Delta for call

2014-02-21 x axis represents strike price, increasing 0.3 -Туре Impvol call put 0.2 -0.1 -0.25 0.75 0.50

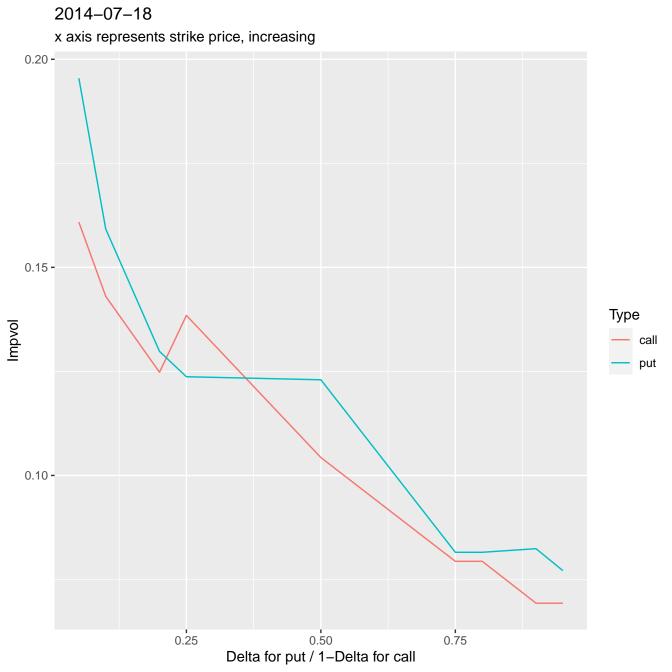
2014-03-21 x axis represents strike price, increasing 0.20 -Type Impvol call put 0.15 -0.10 -0.25 0.75 0.50 Delta for put / 1-Delta for call

2014-04-17 x axis represents strike price, increasing 0.30 -0.25 -Type 0.20 call put 0.15 -0.10 -0.25 0.50 0.75

2014-05-16



2014-06-20 x axis represents strike price, increasing 0.18 -0.15 -Type ovdm 0.12 call put 0.09 -0.25 0.75 0.50 Delta for put / 1-Delta for call



2014-08-15 x axis represents strike price, increasing 0.5 -0.4 -Type 0.3 call put 0.2 -0.1 -0.25 0.50 0.75

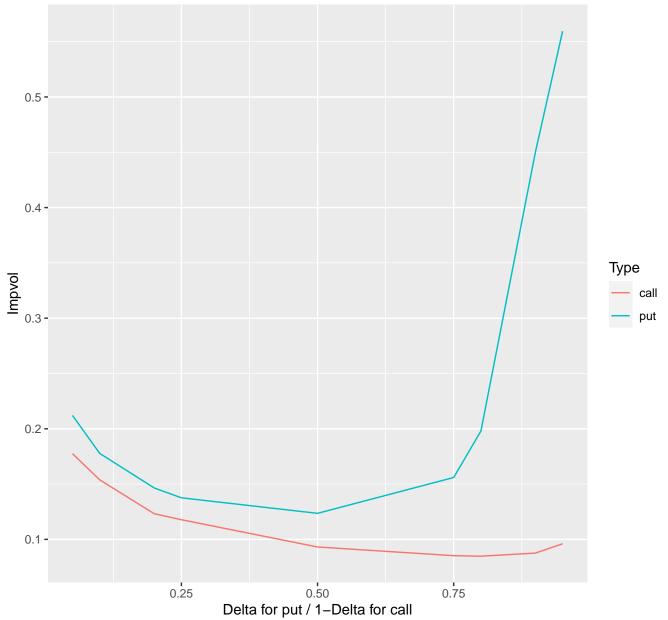
2014-09-19 x axis represents strike price, increasing 0.2 -Type Impvol call put 0.1 -

0.75

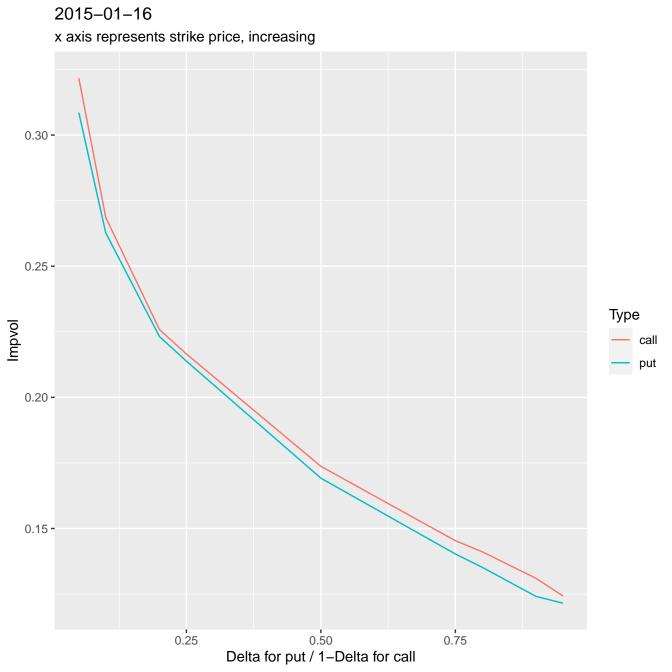
0.25

2014-10-17 x axis represents strike price, increasing 0.4 -0.3 -Type Impvol call put 0.2 -0.1 -0.25 0.75 0.50 Delta for put / 1-Delta for call

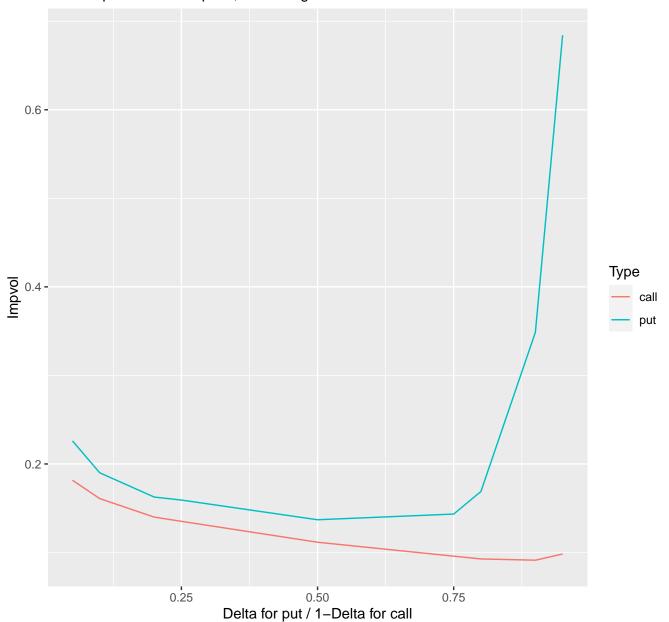
2014-11-21

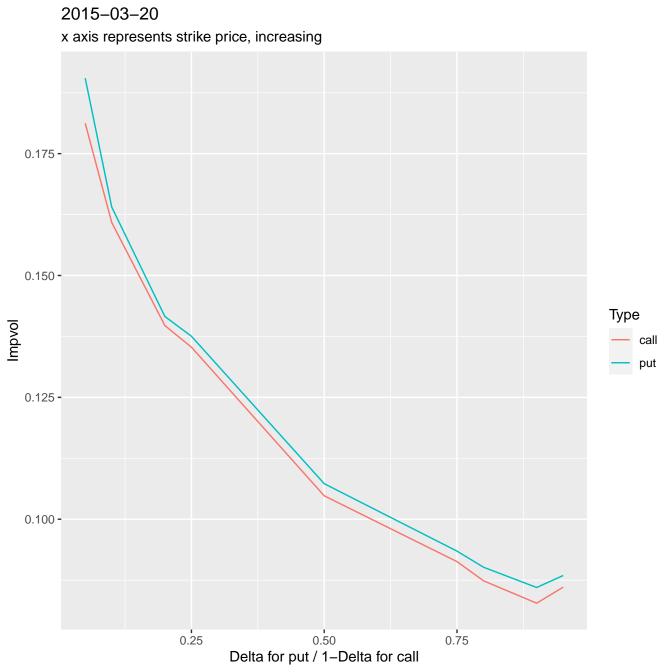


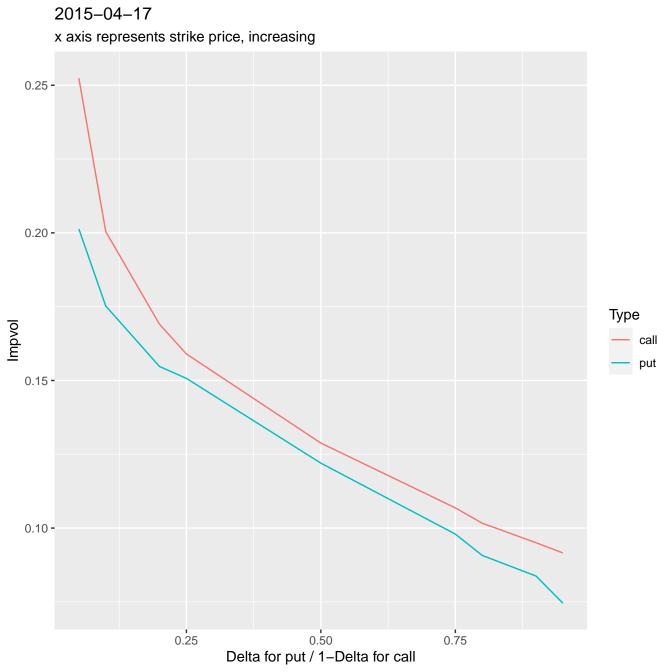
2014-12-19 x axis represents strike price, increasing 0.30 -0.25 -Type call put 0.15 -0.10 -0.25 0.50 0.75



2015-02-20







2015-05-15 x axis represents strike price, increasing 0.4 -0.3 -Type Impvol call put 0.2 -0.1 -0.25 0.50 0.75

2015-06-19 x axis represents strike price, increasing 0.24 -0.20 -Type ondw 0.16 call put 0.12 -0.25 0.50 0.75 Delta for put / 1-Delta for call

2015-07-17 x axis represents strike price, increasing 0.175 -0.150 -Type Impvol call put 0.125 -0.100 -0.075 -0.25 0.75 0.50 Delta for put / 1-Delta for call

2015-08-21 x axis represents strike price, increasing 0.5 -0.4 -Type Impvol call put 0.3 -0.2 -

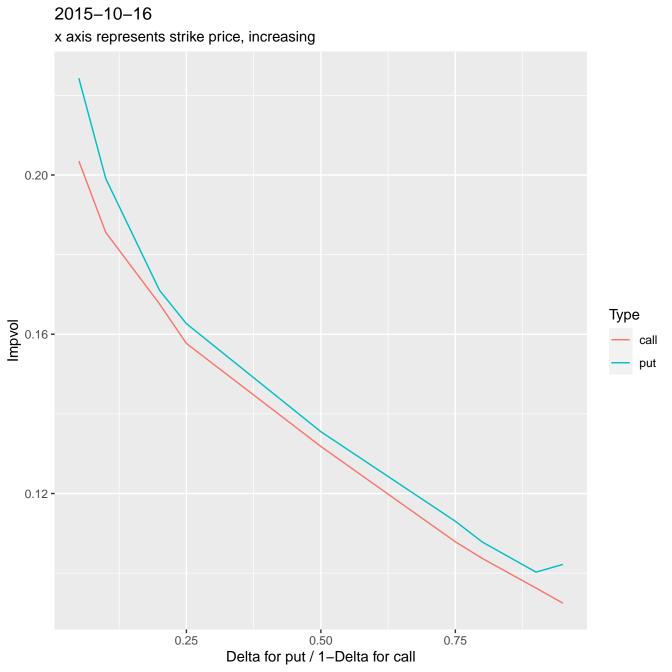
0.50

Delta for put / 1-Delta for call

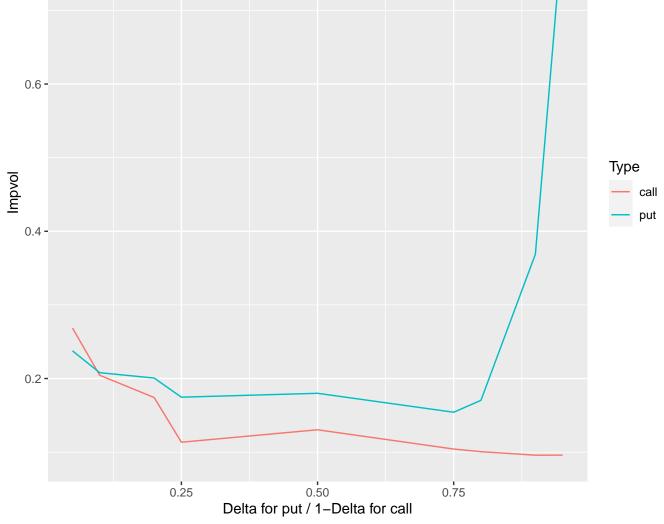
0.75

0.25

2015-09-18 x axis represents strike price, increasing 0.5 -0.4 -Type call put 0.2 -0.1 -0.25 0.50 0.75



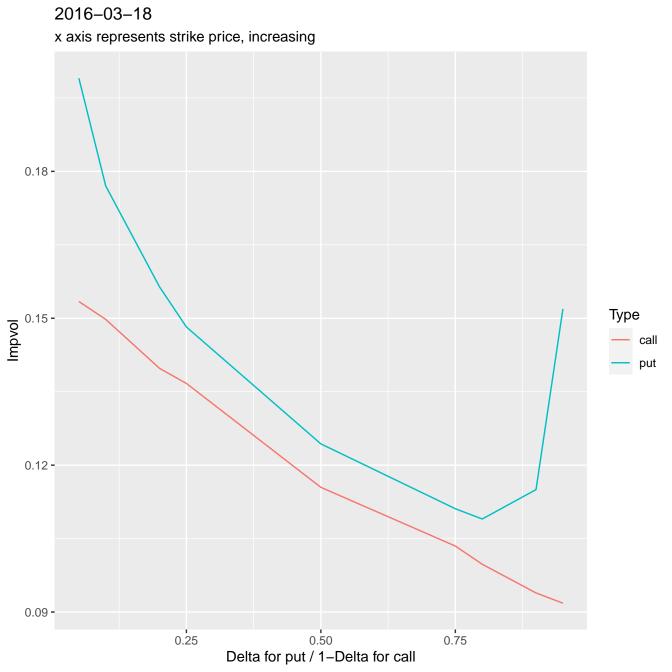
2015-11-20 x axis represents strike price, increasing 0.8 -0.6 -Type call put 0.4 -

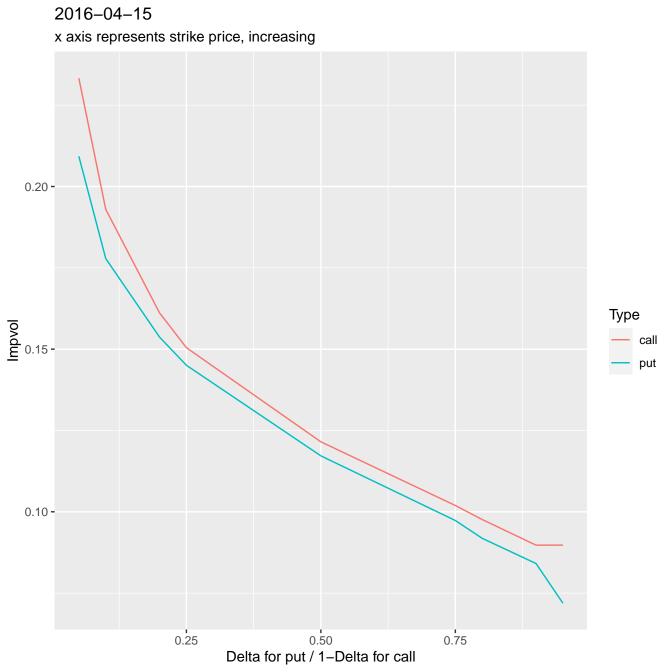


2015-12-18 x axis represents strike price, increasing 0.25 -Type Impvol call put 0.20 -0.15 -0.25 0.75 0.50 Delta for put / 1-Delta for call

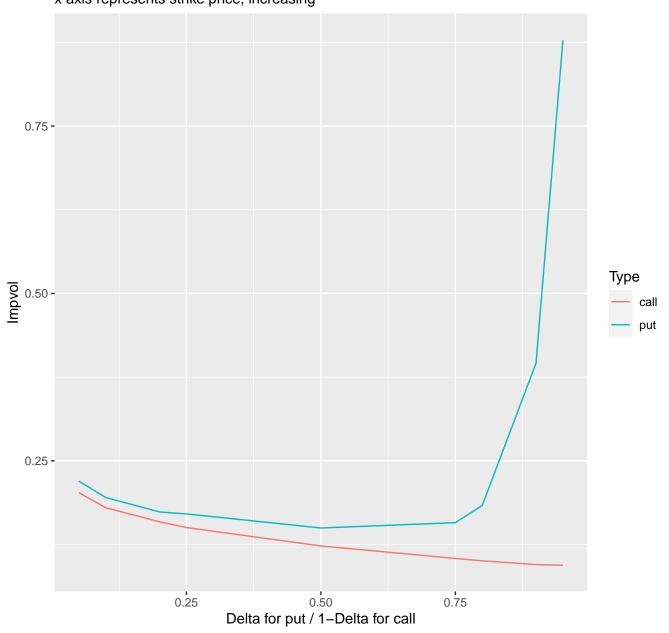
2016-01-15 x axis represents strike price, increasing 0.4 -Type 0.3 call put 0.2 -0.25 0.50 0.75 Delta for put / 1-Delta for call

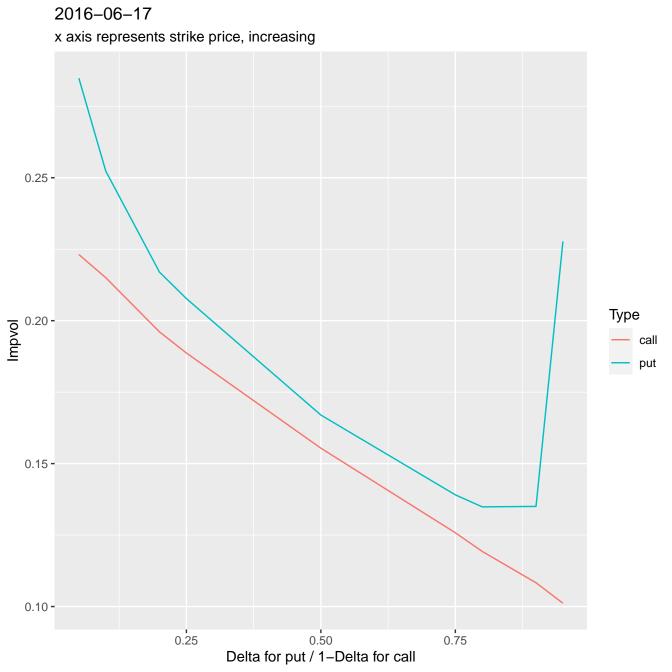
2016-02-19 x axis represents strike price, increasing 1.00 -0.75 -Type Impvol call put 0.50 -0.25 **-**0.25 0.50 0.75 Delta for put / 1-Delta for call





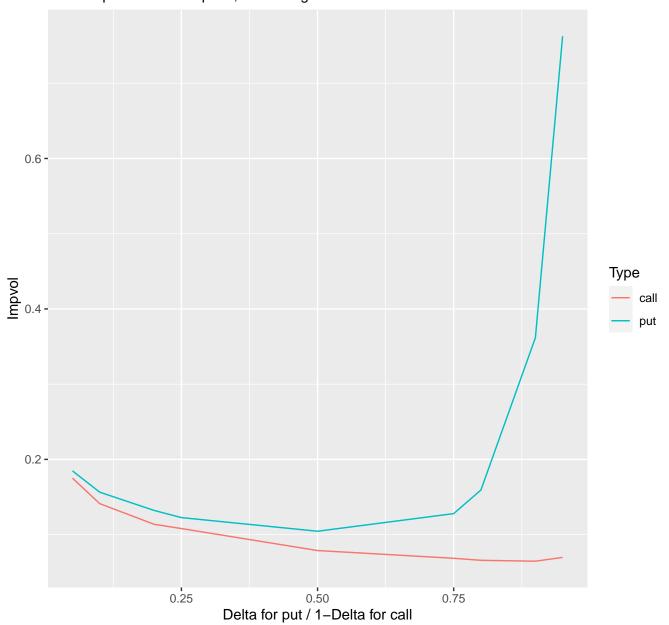
2016-05-20

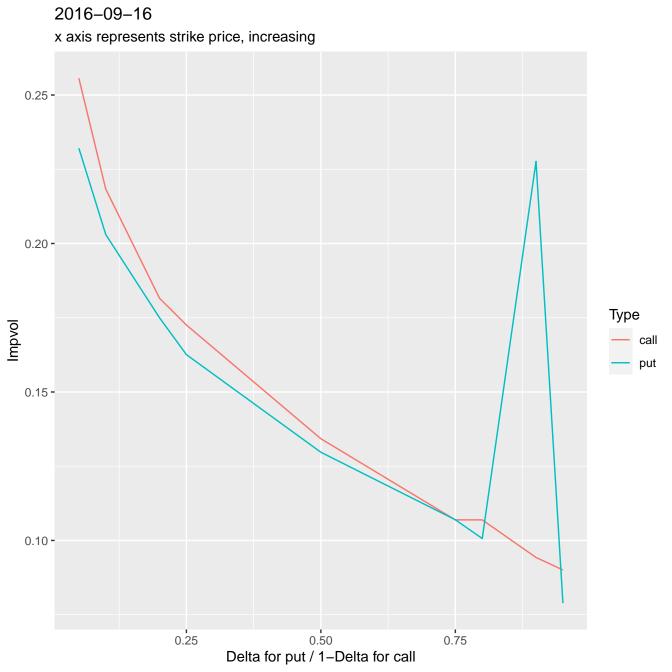


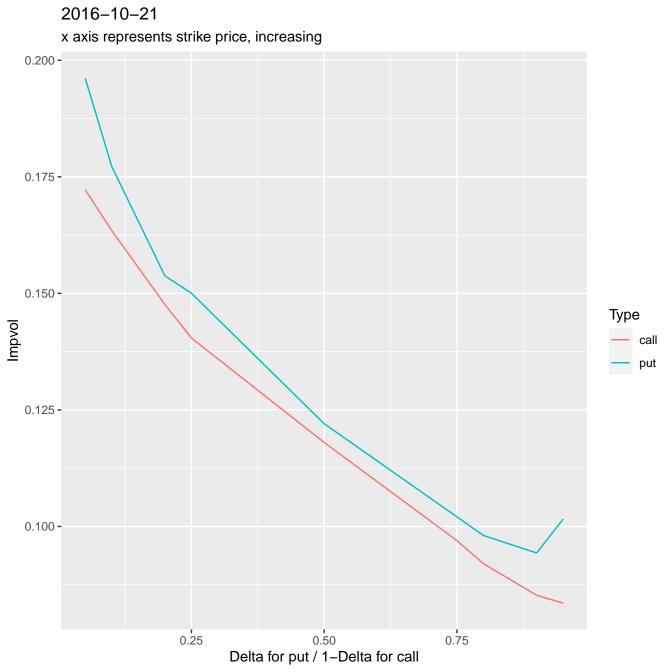


2016-07-15 x axis represents strike price, increasing 0.24 -0.20 -Type ovdm 0.16 call put 0.12 -0.08 -0.25 0.50 0.75 Delta for put / 1-Delta for call

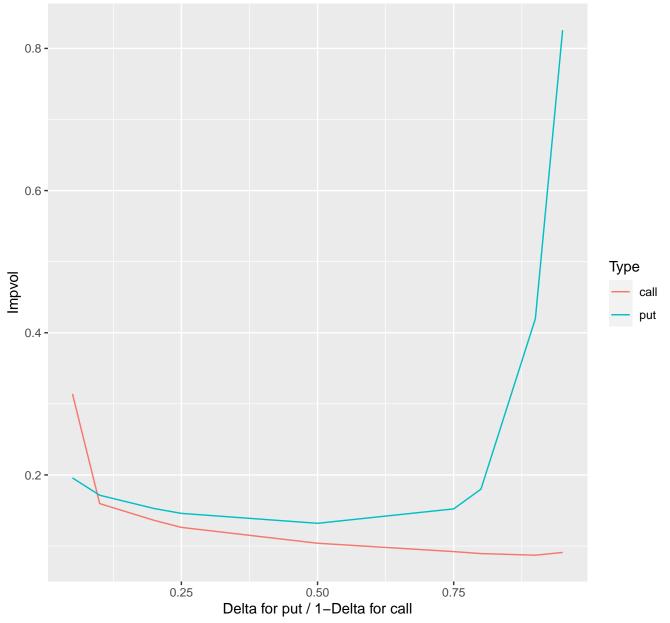
2016-08-19





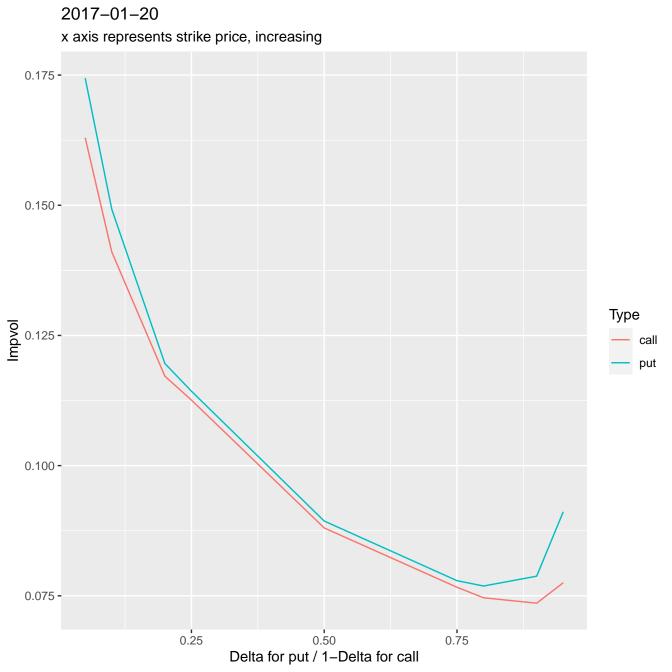


2016-11-18

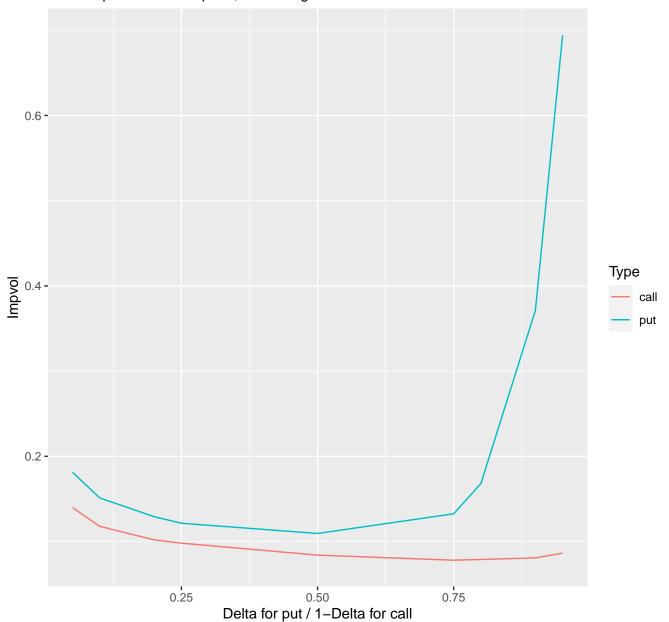


2016-12-16 x axis represents strike price, increasing 0.25 -0.20 -Type Impvol call put 0.15 -0.10 -0.25 0.50 0.75

Delta for put / 1-Delta for call



2017-02-17



2017-03-17 x axis represents strike price, increasing 0.30 -0.25 -0.20 -Туре Impvol call put 0.15 -0.10 -0.05 -0.25 0.50 0.75 Delta for put / 1-Delta for call

2017-04-21 x axis represents strike price, increasing 0.30 -0.25 -0.20 -oodu Type call put 0.15 -0.10 -

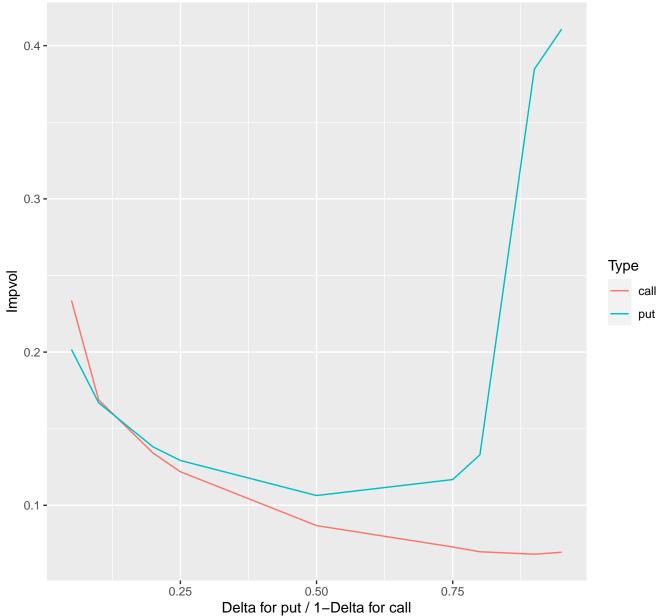
0.50

Delta for put / 1-Delta for call

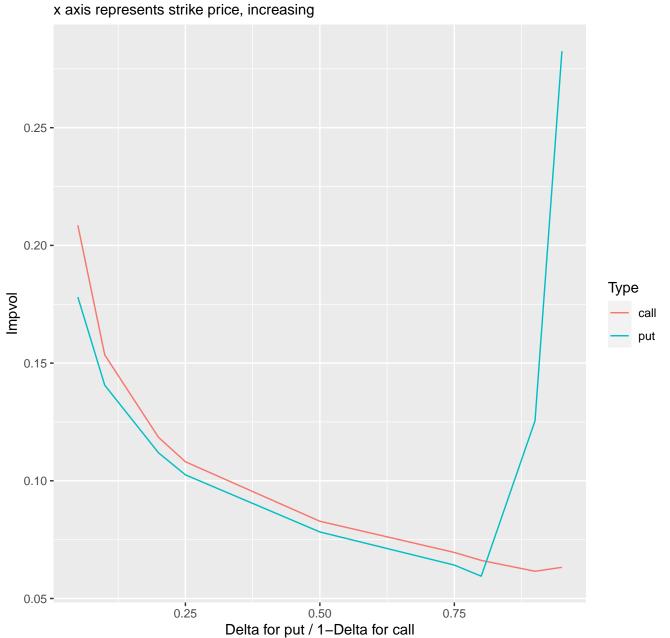
0.75

0.25

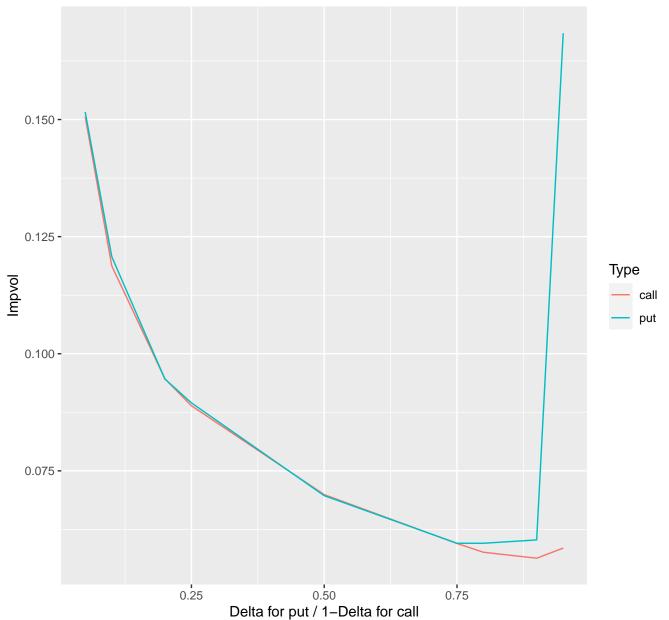
2017-05-19



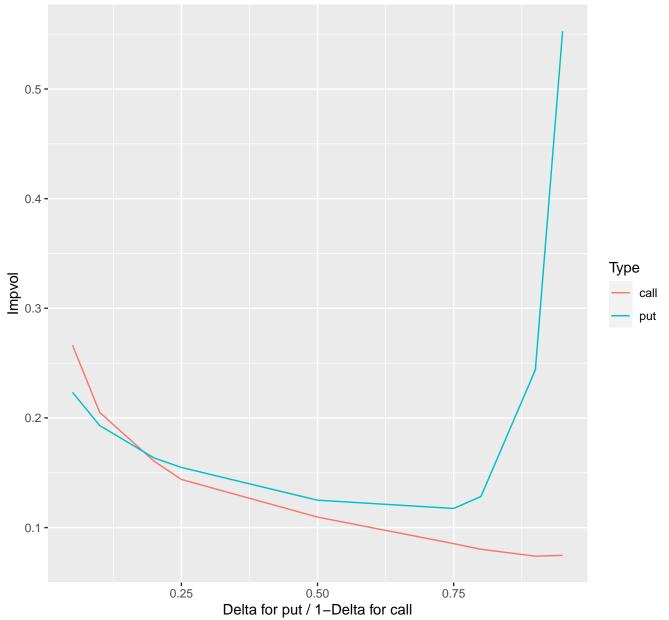
2017-06-16



2017-07-21



2017-08-18

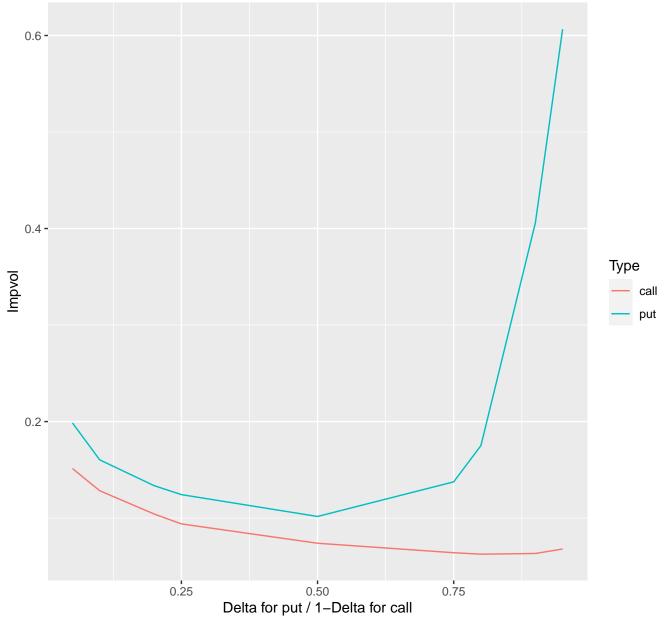


2017-09-15 x axis represents strike price, increasing 0.20 -0.15 -Type Impvol call put 0.10 -0.05 -0.25 0.50 0.75 Delta for put / 1-Delta for call

2017-10-20 x axis represents strike price, increasing 0.20 -0.15 -Type Impvol call put 0.10 -0.05 -0.25 0.75 0.50 Delta for put / 1-Delta for call

2017-11-17

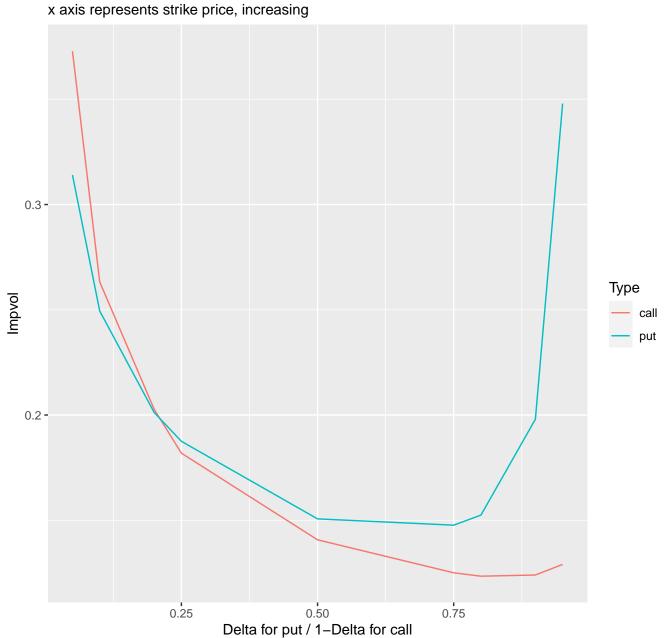
 \boldsymbol{x} axis represents strike price, increasing



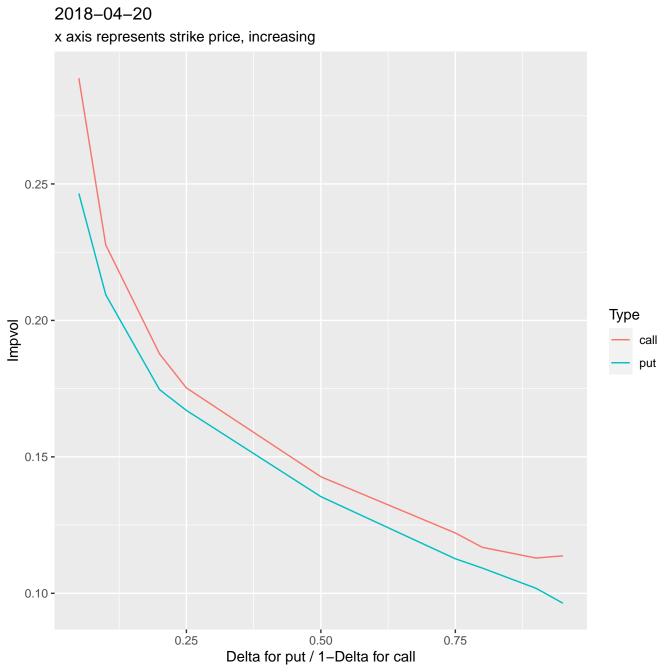
2017-12-15 x axis represents strike price, increasing 0.4 -0.3 -Type Impvol call put 0.2 -0.1 -0.25 0.50 0.75 Delta for put / 1-Delta for call

2018-01-19 x axis represents strike price, increasing 0.175 -0.150 -Type Impvol call put 0.125 -0.100 -0.075 -0.25 0.50 0.75 Delta for put / 1-Delta for call

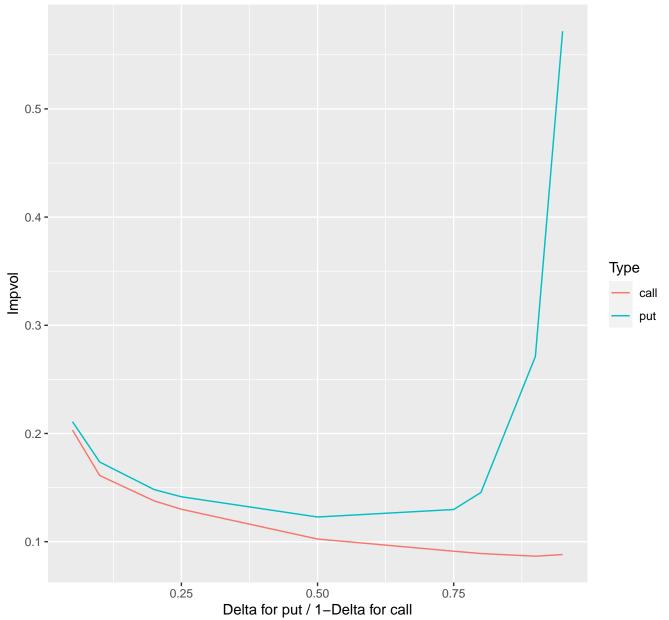
2018–02–16

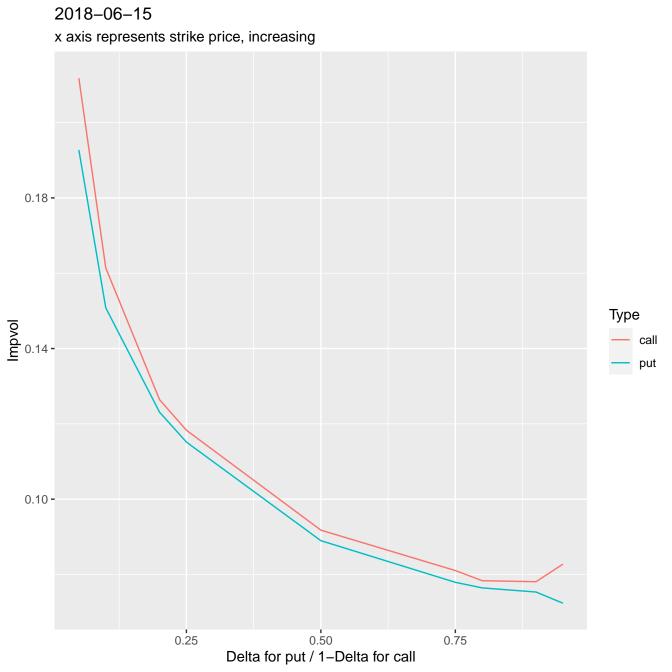


2018-03-16 x axis represents strike price, increasing 0.30 -0.25 -Type 0.20 call put 0.15 -0.10 -0.25 0.50 0.75 Delta for put / 1-Delta for call



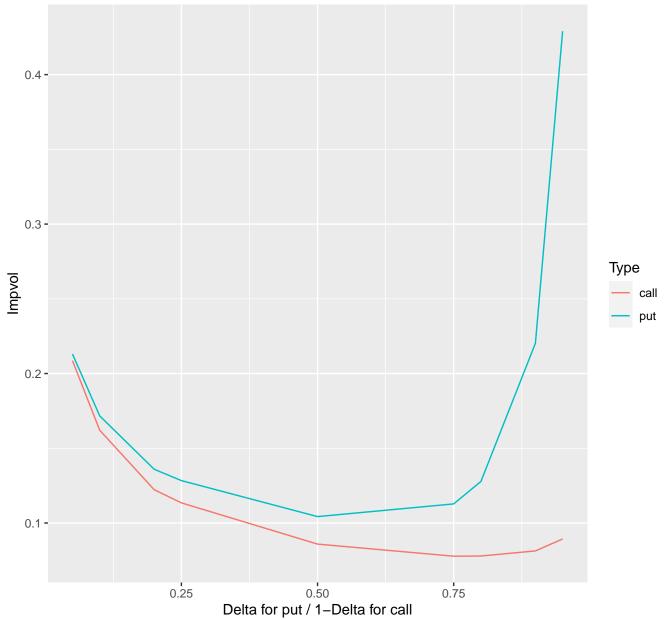
2018-05-18





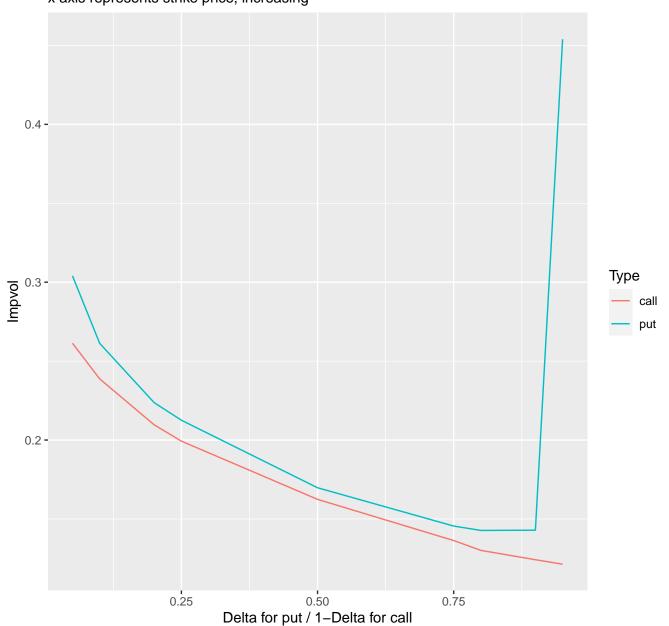
2018-07-20 x axis represents strike price, increasing 0.20 -0.16 -Type Impvol call put 0.12 -0.08 -0.25 0.50 0.75 Delta for put / 1-Delta for call

2018-08-17

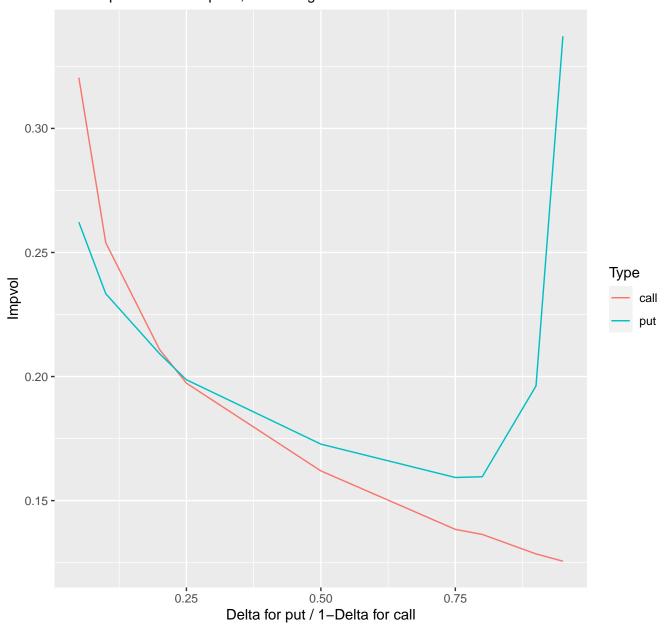


2018-09-21 x axis represents strike price, increasing 0.20 -0.15 -Type Impvol call put 0.10 -0.25 0.75 0.50 Delta for put / 1-Delta for call

2018-10-19



2018-11-16



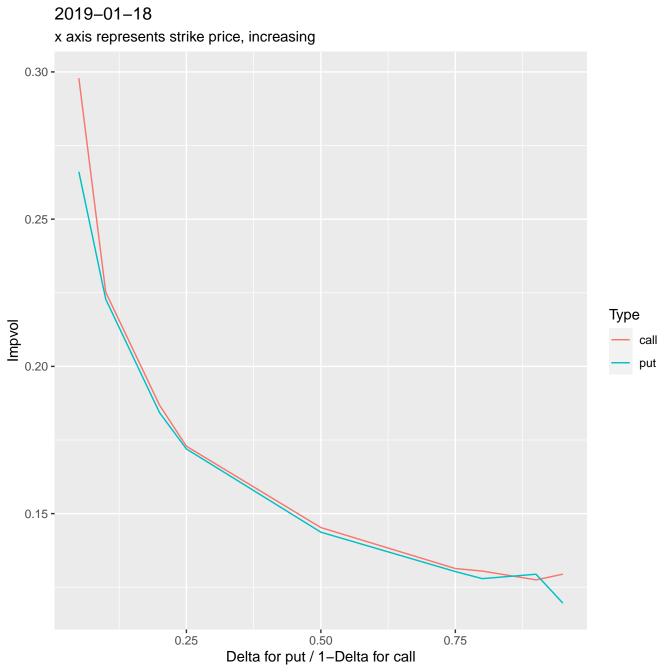
2018-12-21 x axis represents strike price, increasing 0.40 -0.35 -Type Impvol call put 0.30 -0.25 -

0.50

Delta for put / 1-Delta for call

0.75

0.25

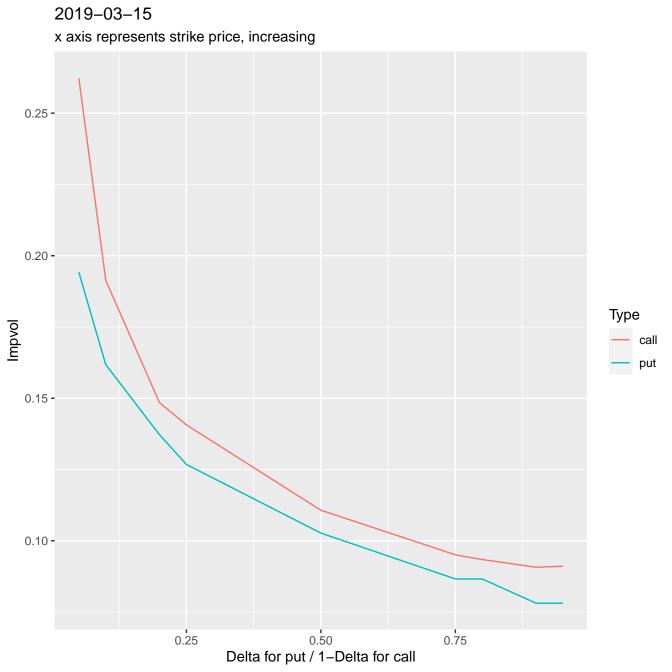


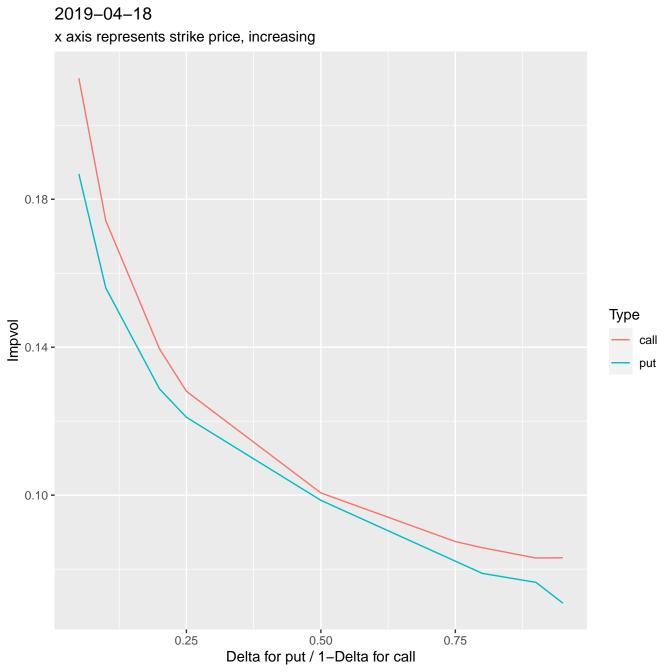
2019-02-15 x axis represents strike price, increasing 0.4 -0.3 -Type Impvol call put 0.2 -0.1 -

0.50
Delta for put / 1–Delta for call

0.75

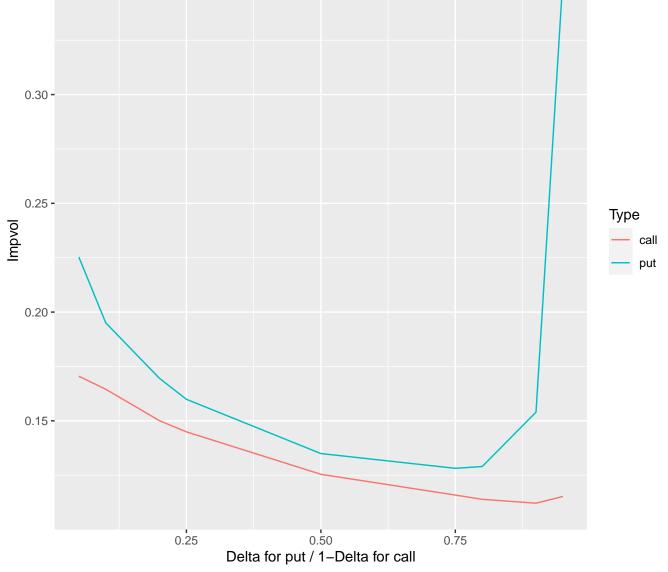
0.25





2019-05-17 x axis represents strike price, increasing 0.35 -0.30 -0.25 -Type Impvol call put 0.20 -0.15 -0.10 -0.25 0.50 0.75 Delta for put / 1-Delta for call

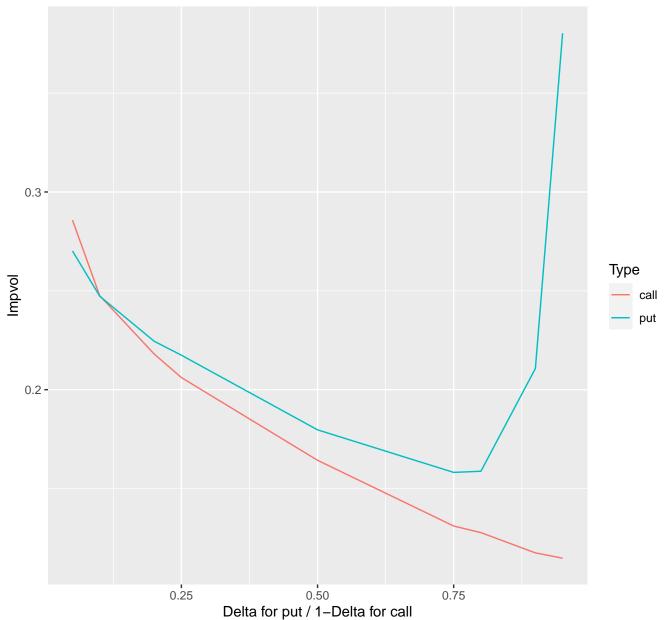
2019-06-21 x axis represents strike price, increasing 0.35 -0.30 -0.25 -Type call put 0.20 -



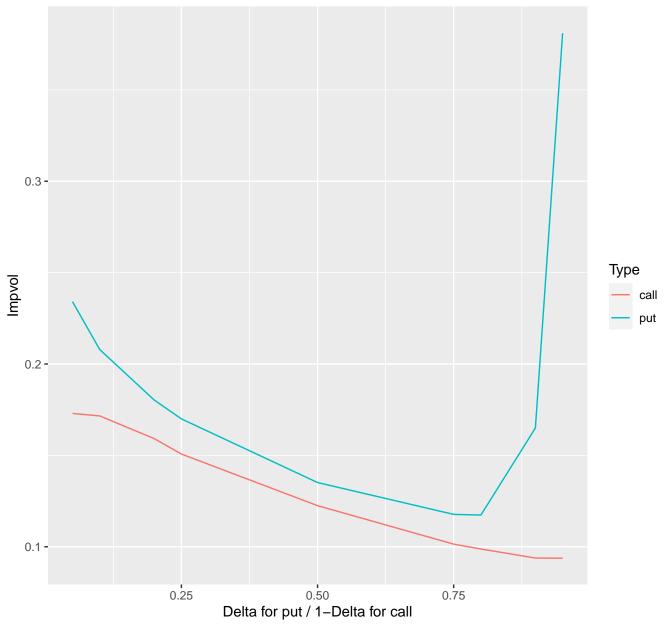
2019-07-19 x axis represents strike price, increasing 0.30 -0.25 -Type 0.20 call put 0.15 -0.10 -0.25 0.50 0.75

Delta for put / 1-Delta for call

2019-08-16



2019-09-20

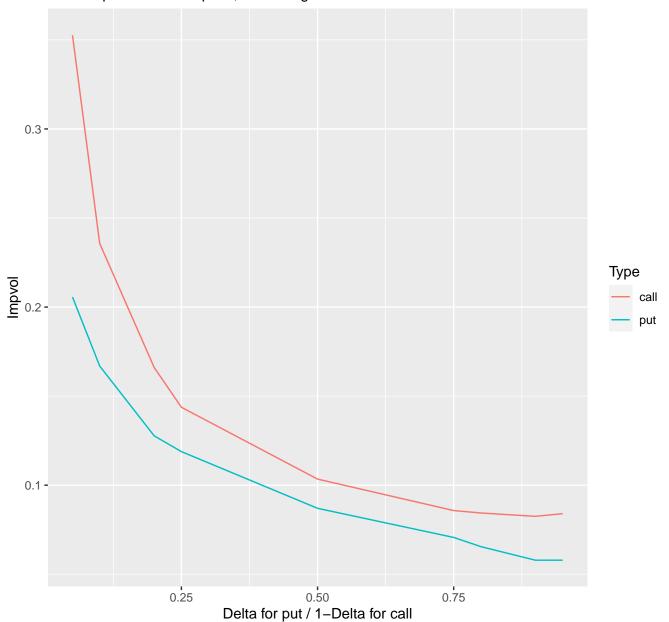


2019-10-18 x axis represents strike price, increasing 0.25 -0.20 -Type Impvol call put 0.15 -0.10 -0.25 0.50 0.75 Delta for put / 1-Delta for call

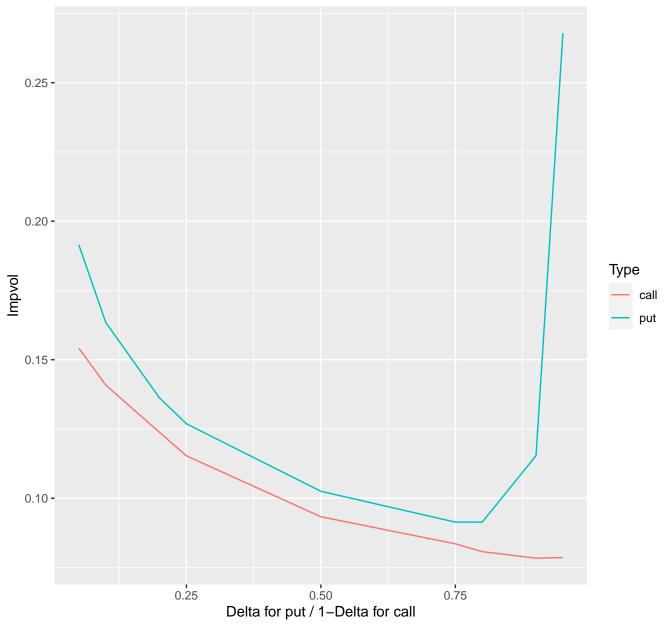
2019-11-15 x axis represents strike price, increasing 0.6 -0.5 -0.4 -Type Impvol call put 0.3 -0.2 -0.1 -0.25 0.75 0.50

Delta for put / 1-Delta for call

2019–12–20

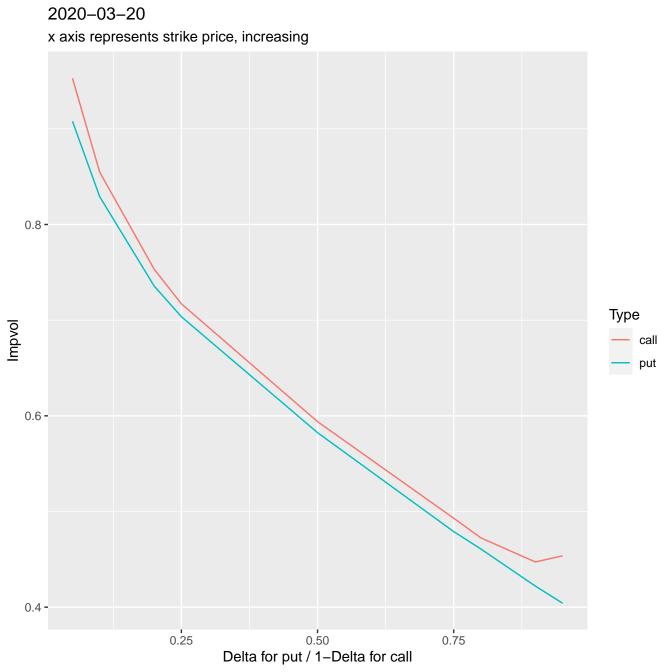


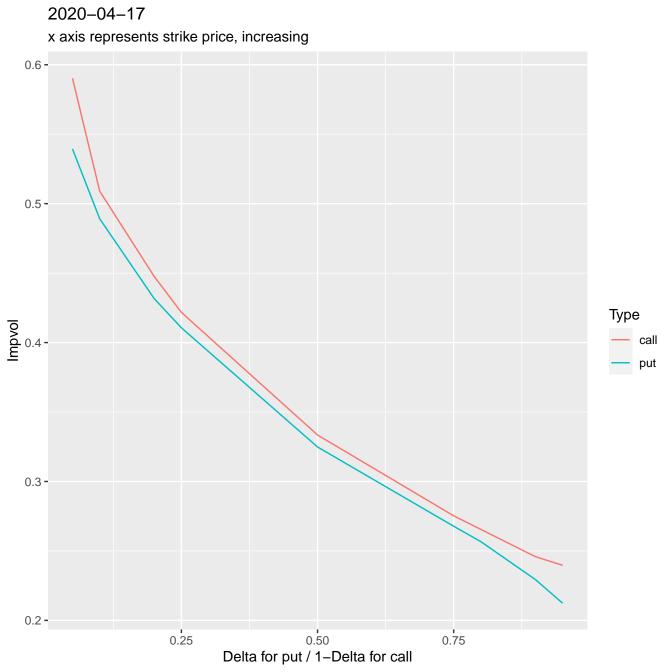
2020-01-17



2020-02-21 x axis represents strike price, increasing 0.4 -0.3 -Type Impvol call put 0.2 -0.1 -0.25 0.50 0.75

Delta for put / 1-Delta for call





2020-05-15 x axis represents strike price, increasing 0.8 -0.6 -Type Impvol call put 0.4 -0.2 -

0.50

Delta for put / 1-Delta for call

0.75

2020-06-19 x axis represents strike price, increasing 0.6 -Type Impvol call put 0.4 -

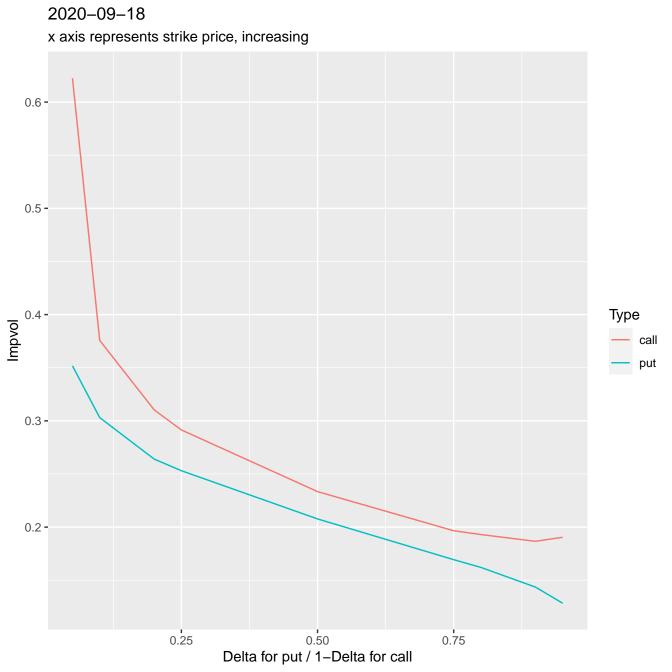
0.50
Delta for put / 1–Delta for call

0.75

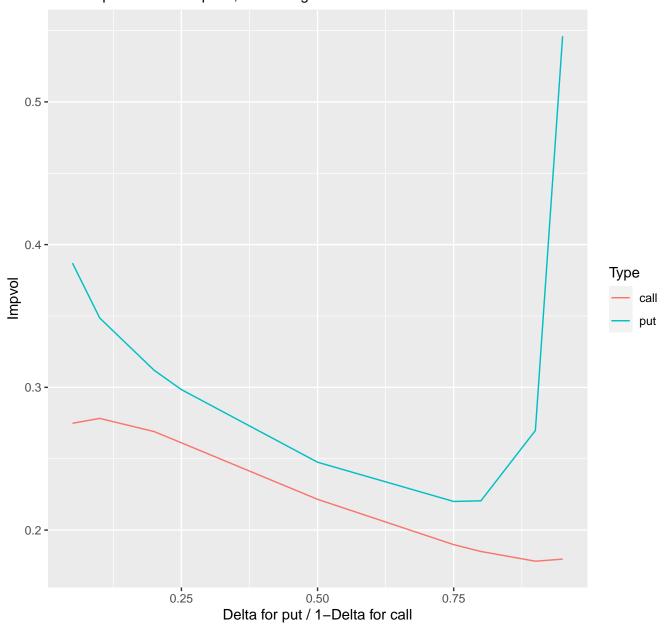
0.2 -

2020-07-17 x axis represents strike price, increasing 0.35 -0.30 -Type Impvol call put 0.25 -0.20 -0.25 0.50 0.75 Delta for put / 1-Delta for call

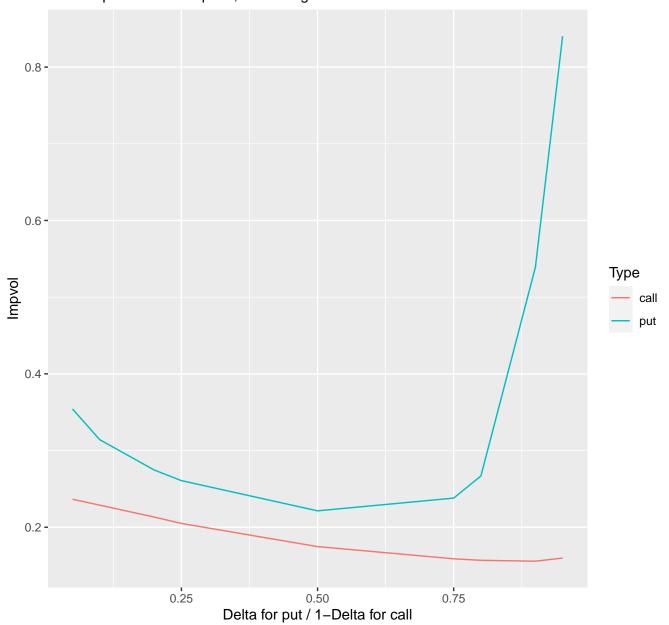
2020-08-21 x axis represents strike price, increasing 0.7 -0.6 -0.5 -Type ovdm 0.4 call put 0.3 -0.2 -0.25 0.75 0.50 Delta for put / 1-Delta for call



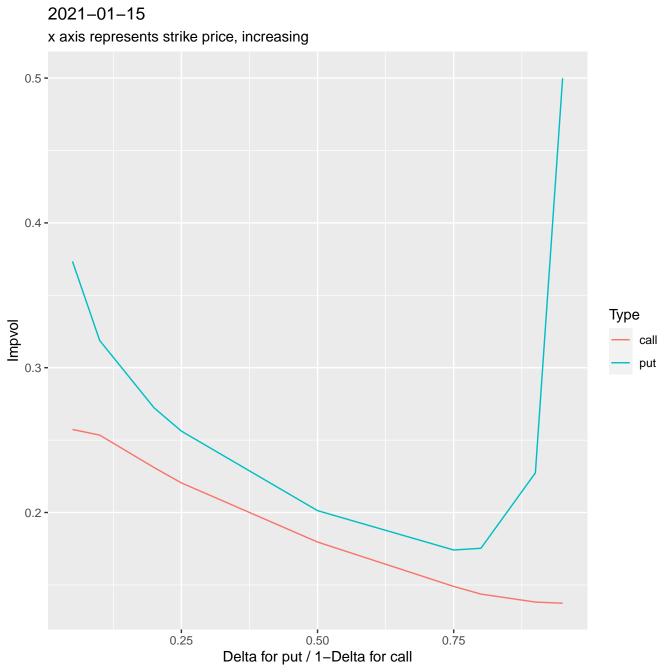
2020-10-16



2020-11-20



2020-12-18 x axis represents strike price, increasing 0.6 -0.4 -Type Impvol call put 0.2 -0.25 0.50 0.75 Delta for put / 1-Delta for call



2021-02-19 x axis represents strike price, increasing 0.6 -0.5 -0.4 -Type Impvol call put 0.3 -0.2 -0.1 -0.25 0.75 0.50

Delta for put / 1-Delta for call

2021-03-19 x axis represents strike price, increasing 0.32 -0.28 -0.24 -Туре Impvol call put 0.20 -0.16 -0.25 0.50 0.75 Delta for put / 1-Delta for call

2021-04-16 x axis represents strike price, increasing 0.25 -0.20 -Type Impvol call put 0.15 -0.25 0.75 0.50 Delta for put / 1-Delta for call

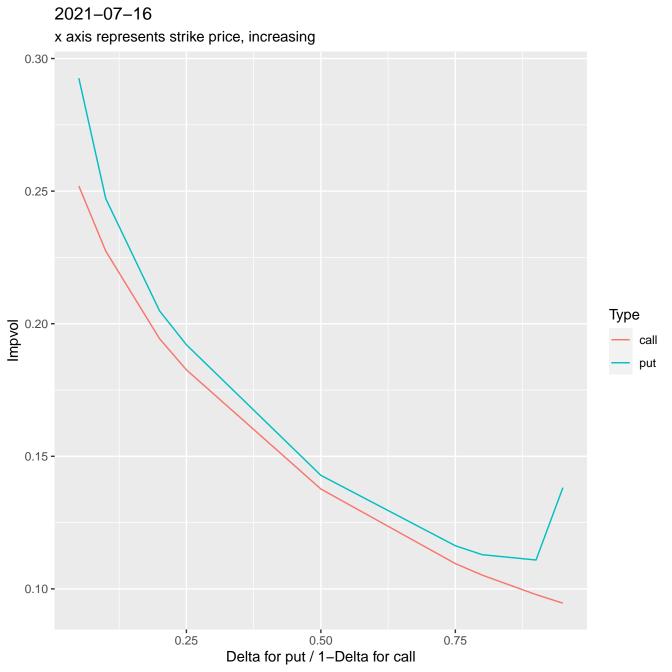
2021-05-21 x axis represents strike price, increasing 0.3 -Type Impvol call put 0.2 -

0.50

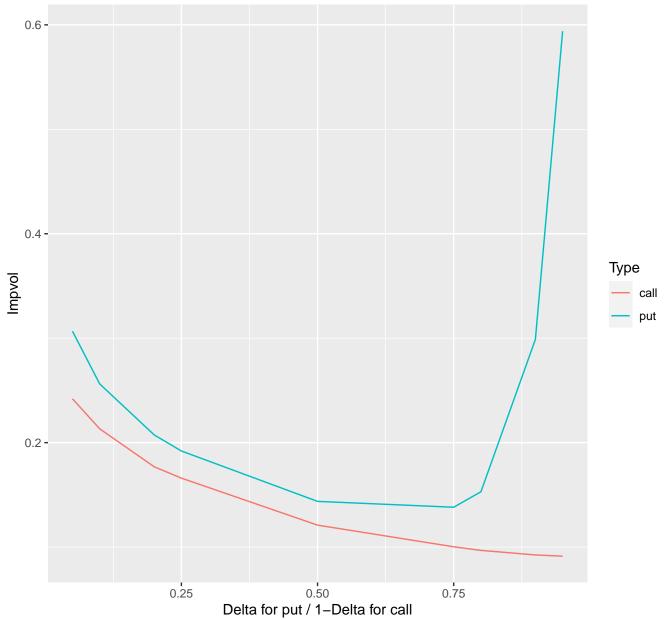
Delta for put / 1-Delta for call

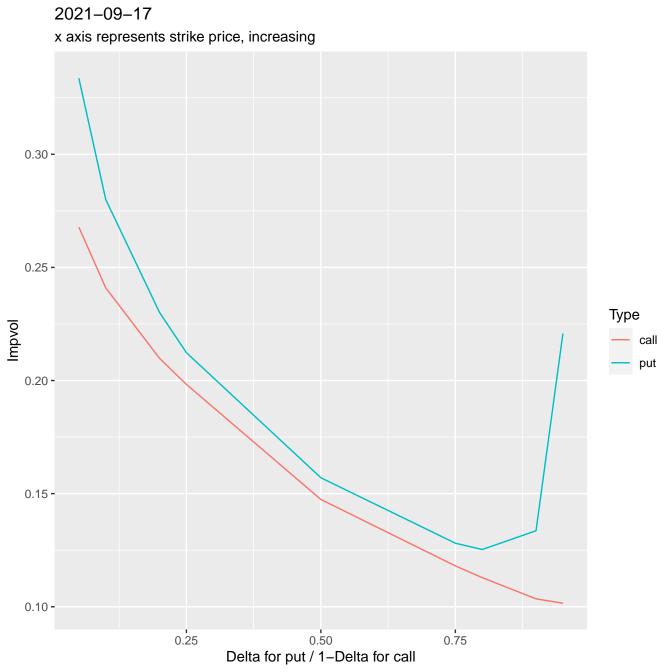
0.75

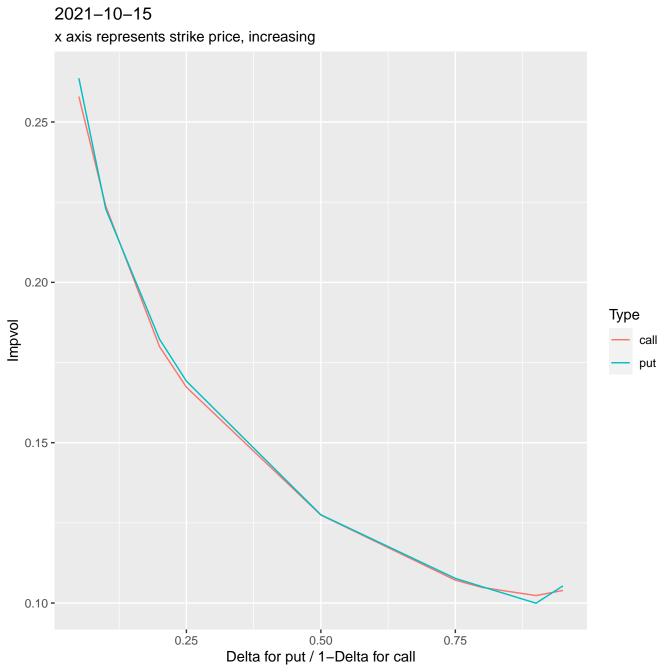
2021-06-18 x axis represents strike price, increasing 0.30 -0.25 -Type Impvol call put 0.20 -0.15 -0.10 -0.25 0.50 0.75 Delta for put / 1-Delta for call



2021-08-20







2021-11-19 x axis represents strike price, increasing 0.5 -0.4 -Type call put 0.2 -

0.50
Delta for put / 1–Delta for call

0.75

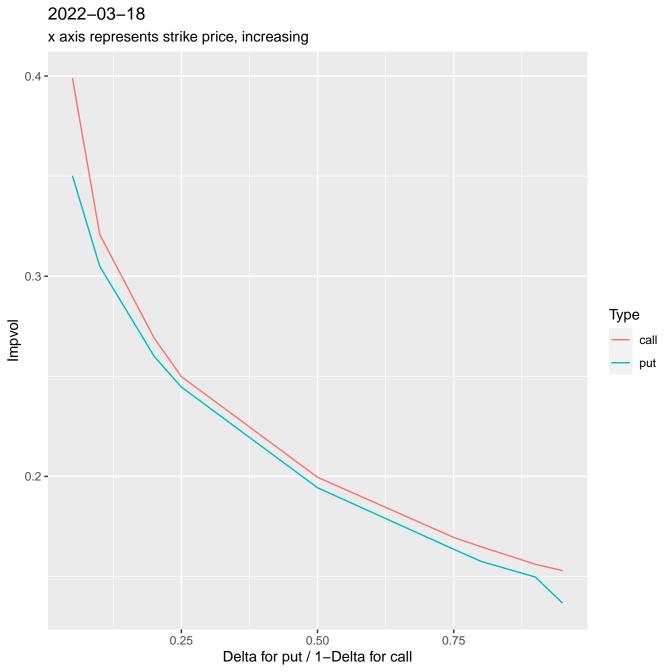
0.1 -

2021-12-17 x axis represents strike price, increasing 0.4 -Type ovdml 0.3 call put 0.2 -0.1 -0.25 0.50 0.75 Delta for put / 1-Delta for call

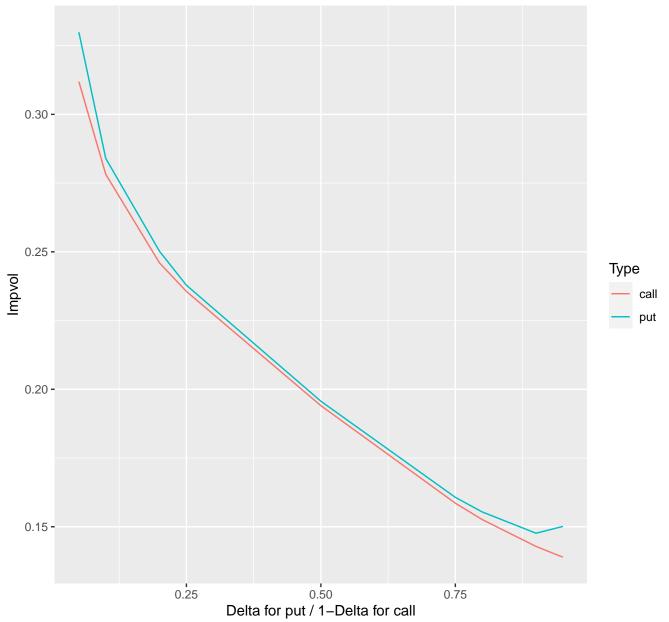
2022-01-21 x axis represents strike price, increasing 0.40 -0.35 -Type 0.30 call put 0.25 -0.20 -0.25 0.75 0.50

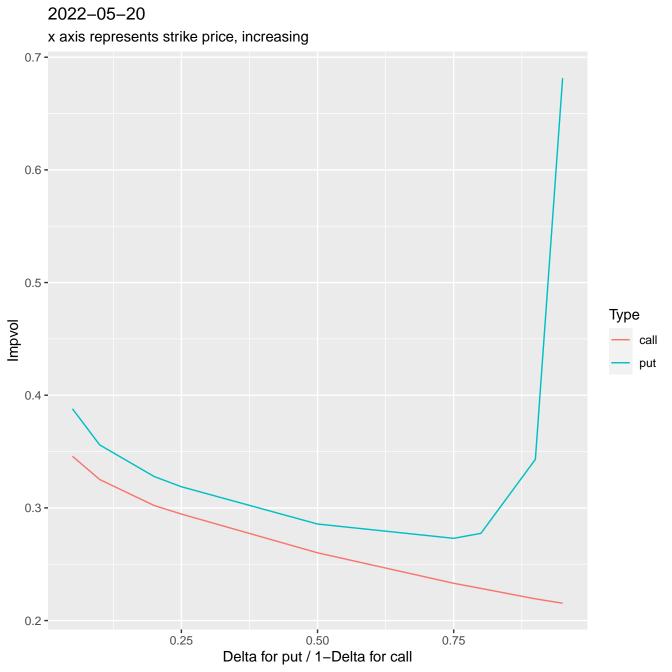
Delta for put / 1-Delta for call

2022-02-18 x axis represents strike price, increasing 0.40 -0.35 -Type ov 0.30 call put 0.25 -0.20 -0.25 0.75 0.50 Delta for put / 1-Delta for call

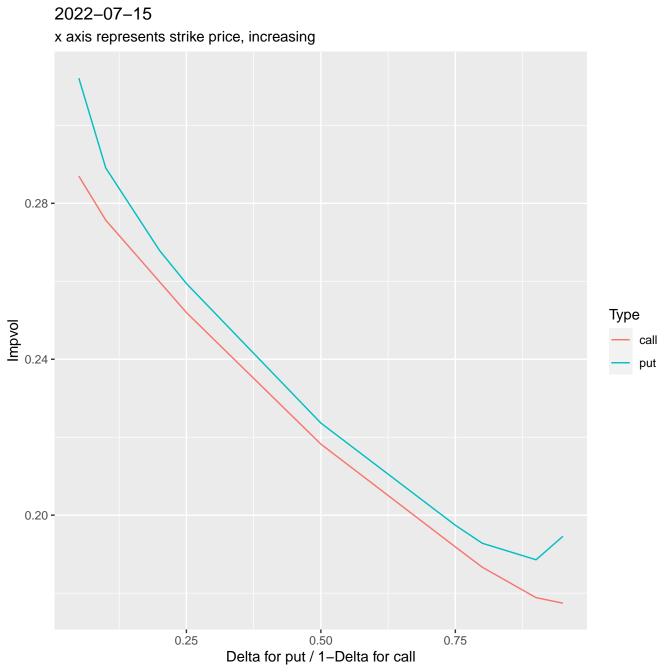


2022-04-14





2022-06-17 x axis represents strike price, increasing 0.4 -Type Impvol call put 0.3 -0.25 0.50 0.75 Delta for put / 1-Delta for call



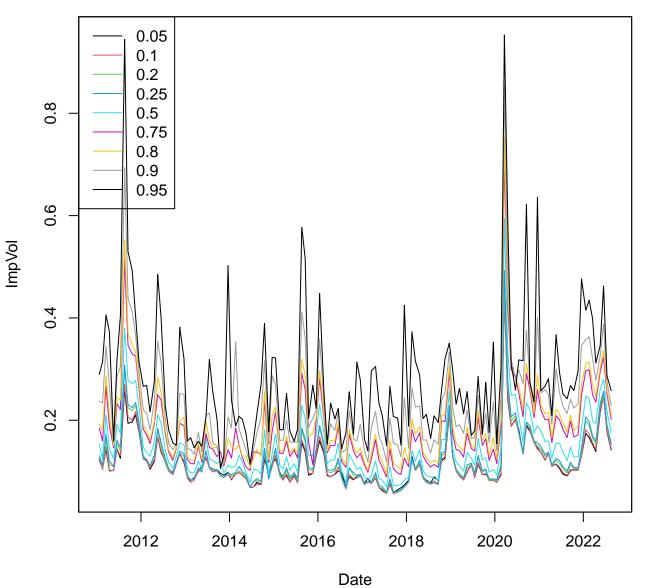
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0.50
Delta for put / 1–Delta for call

0.75

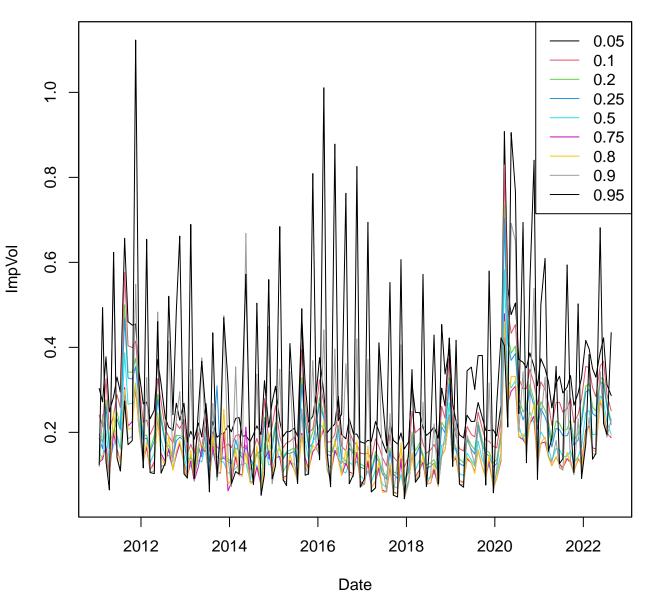


Call

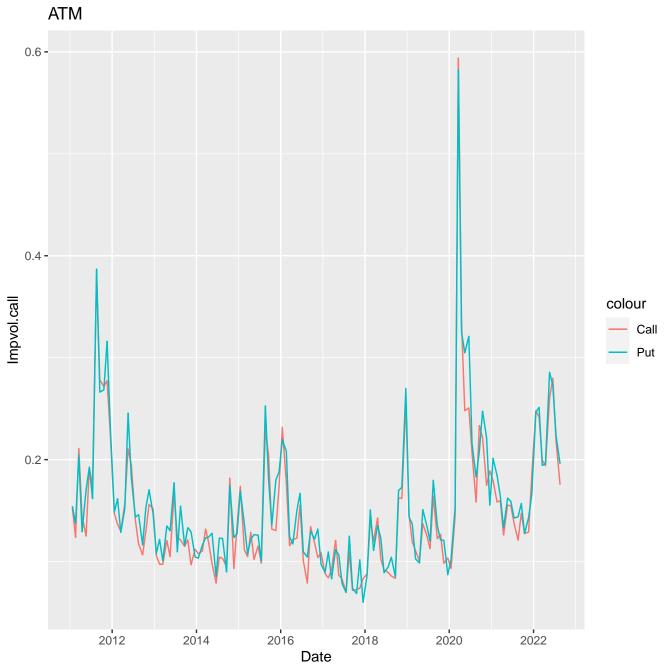


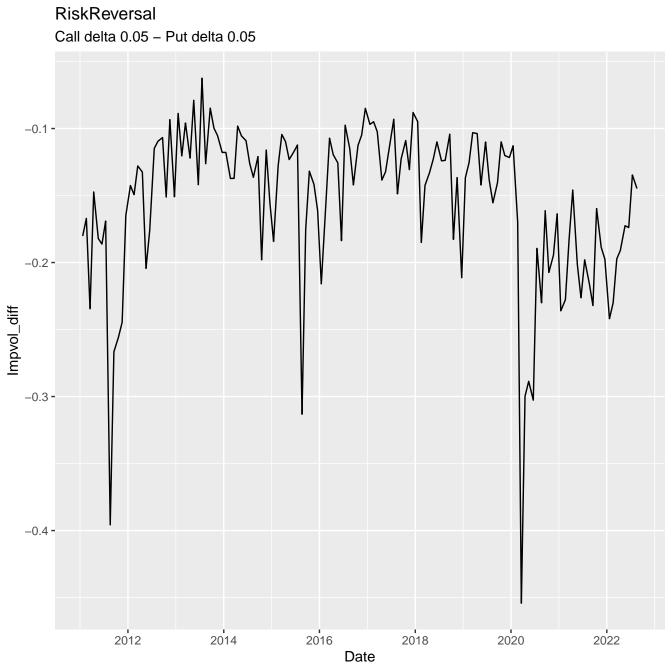
Parameter: Delta

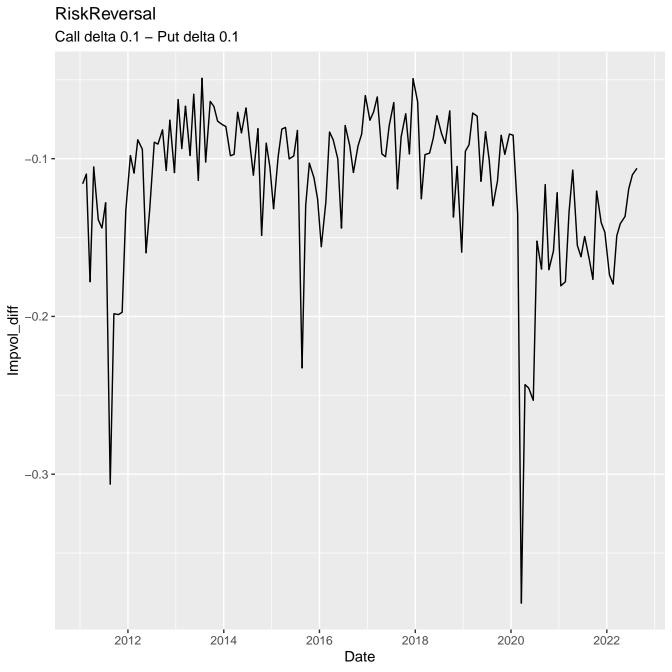
Put

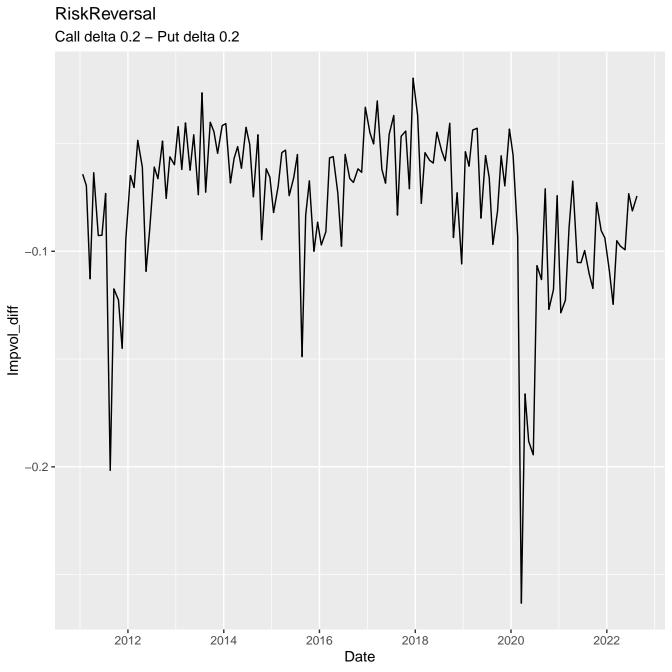


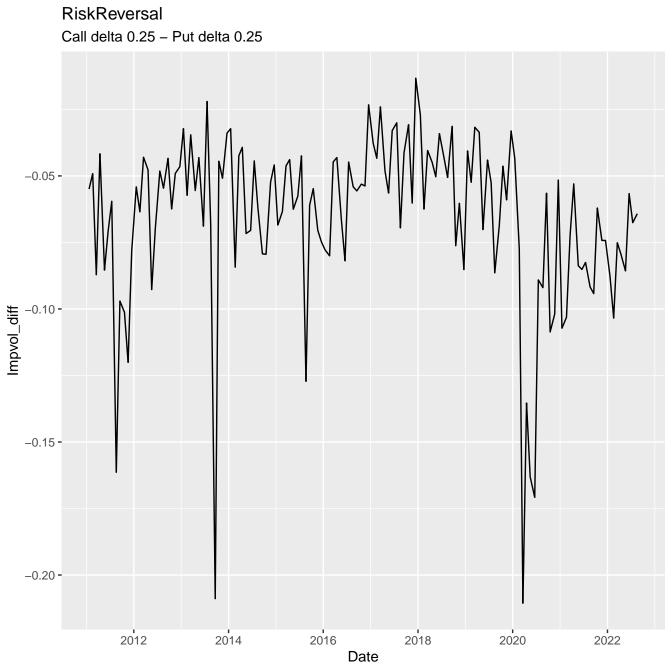
Parameter: Delta

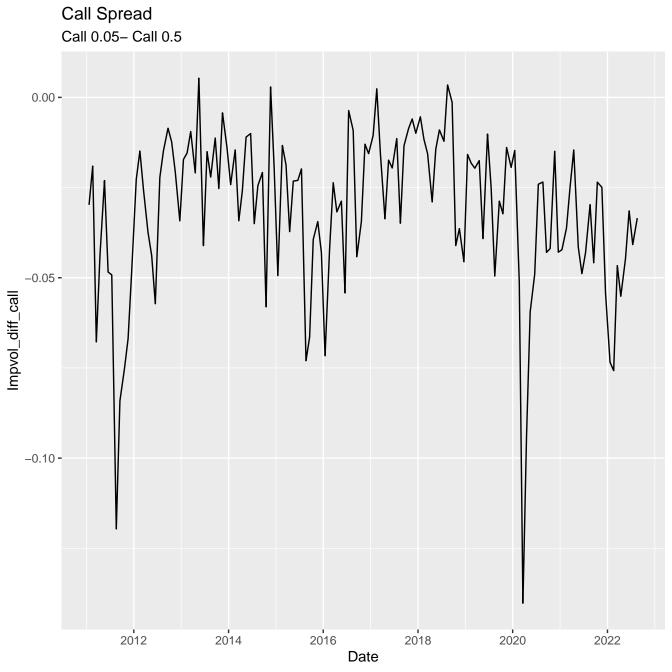


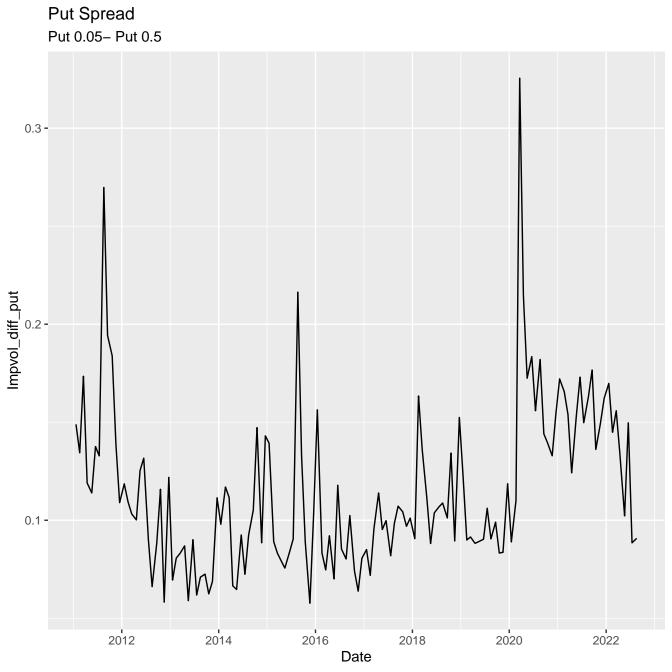




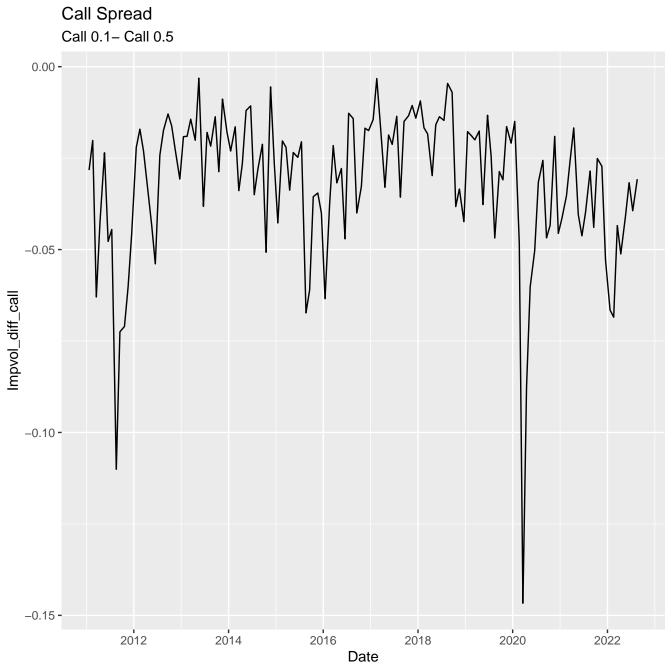


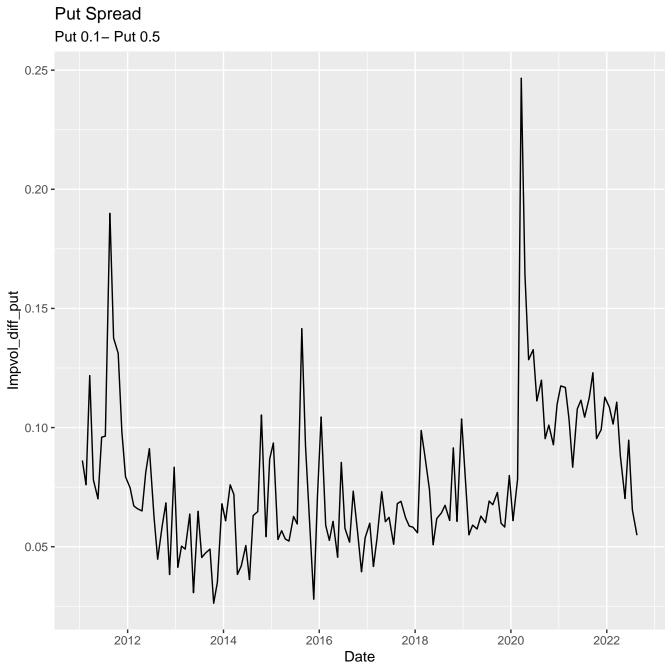




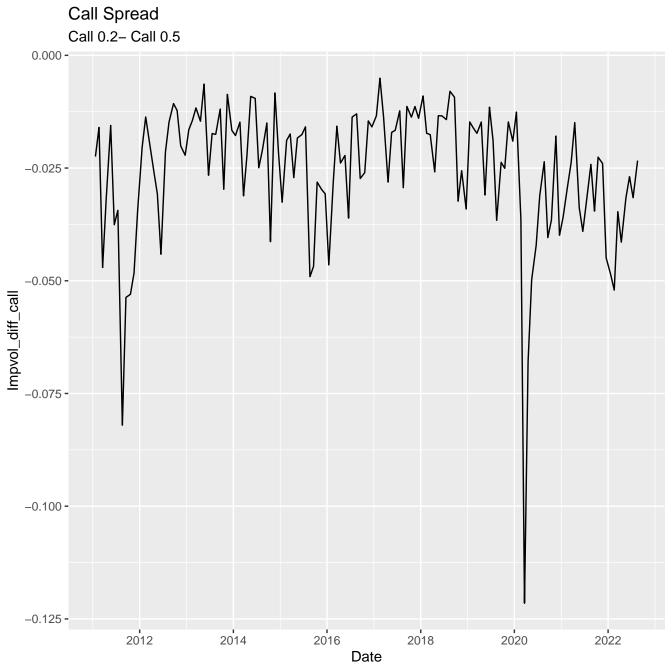


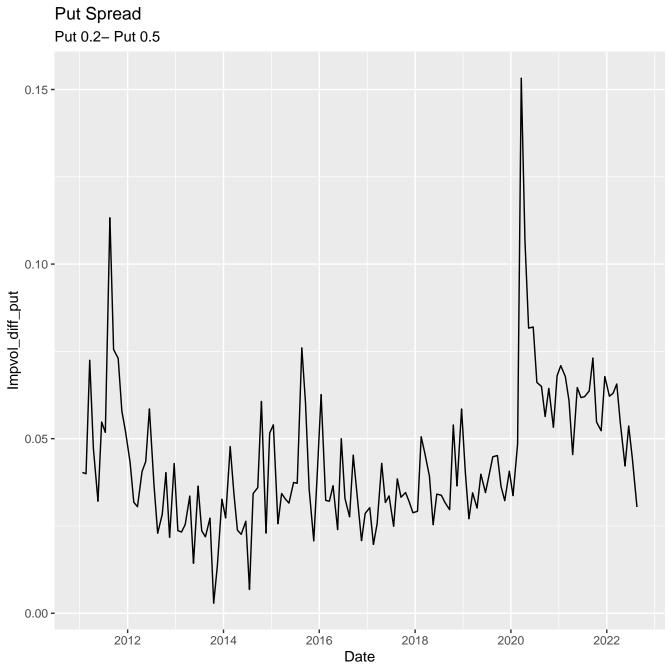
Butterfly Call 0.05- Call 0.5 - Put 0.5 + Put 0.05 0.15 -#ip_lovqml 0.10 -0.05 -2016 2022 2012 2014 2020 2018 Date

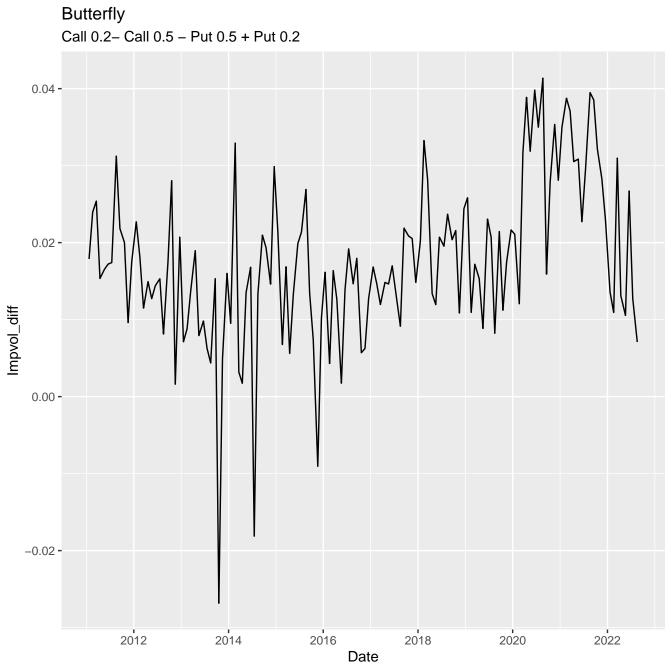


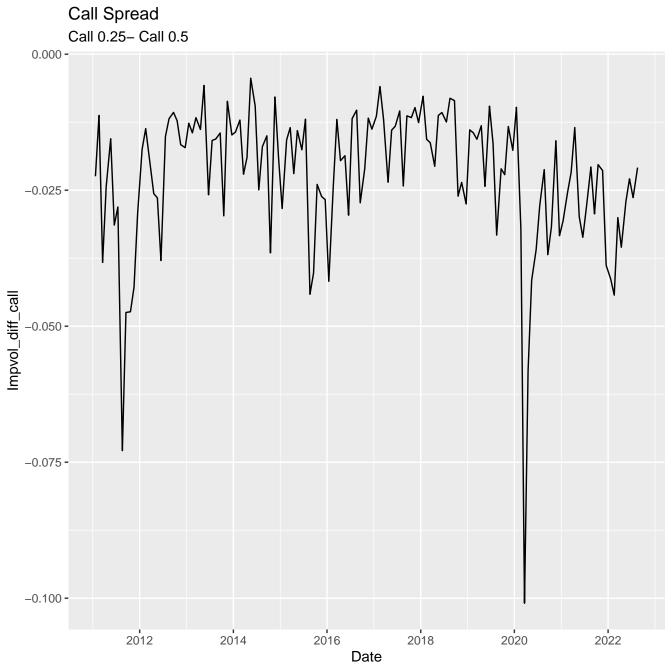


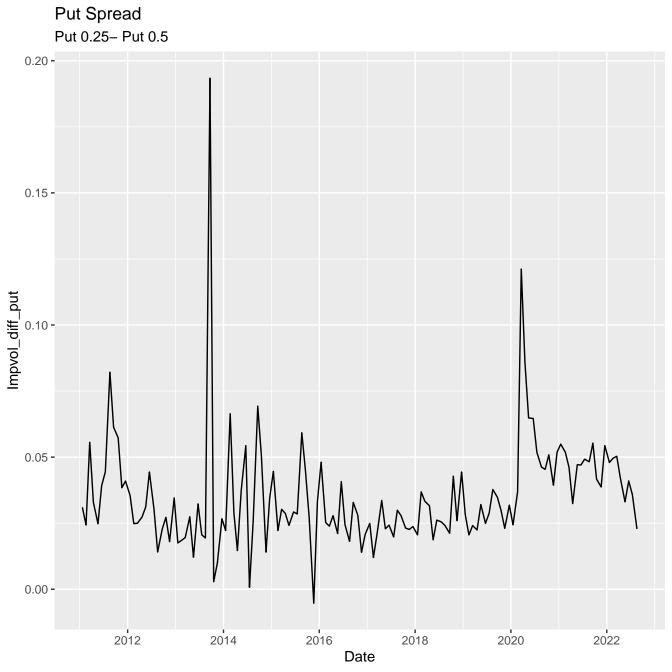
Butterfly Call 0.1- Call 0.5 - Put 0.5 + Put 0.1 0.100 -0.075 -Jip lovdml 0.025 -0.000 -2016 2014 2012 2018 2020 2022 Date

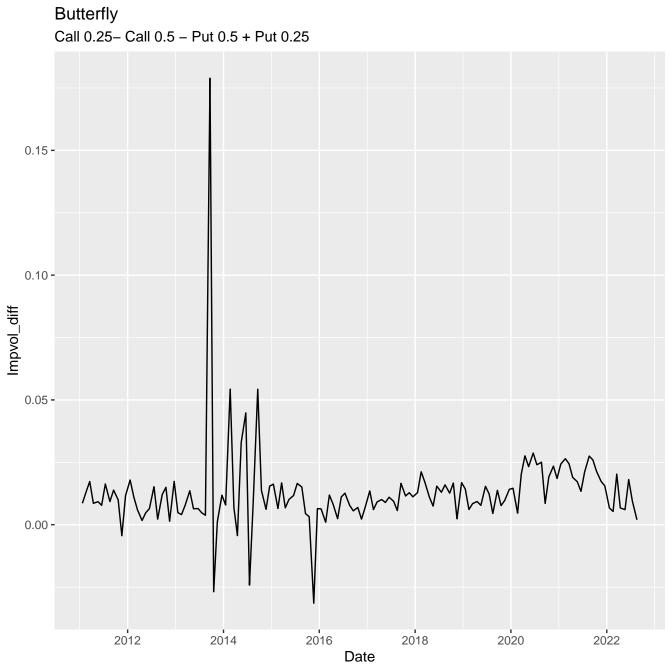


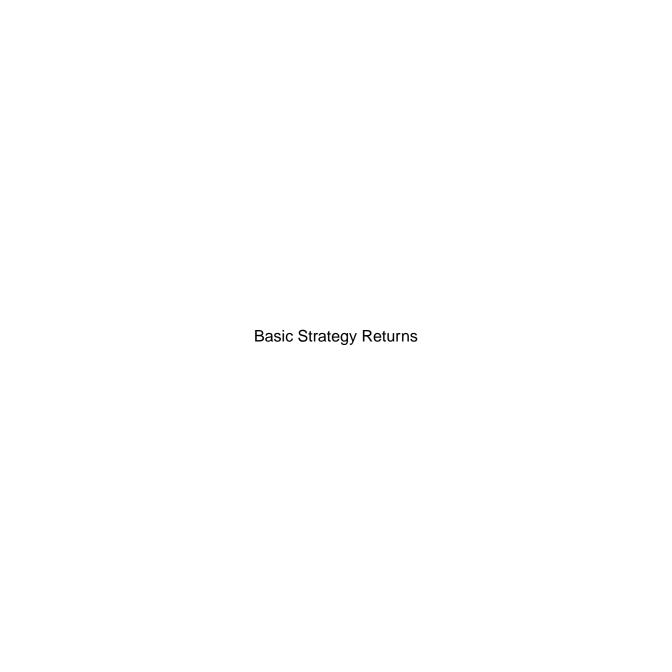


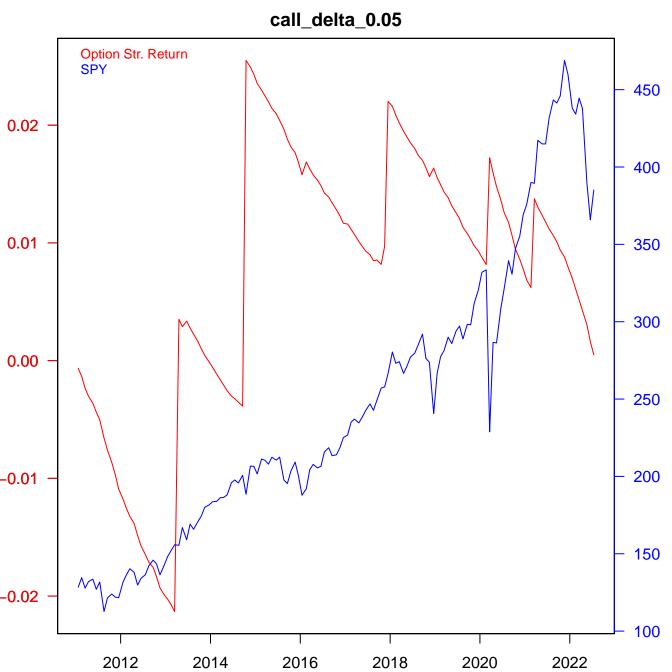


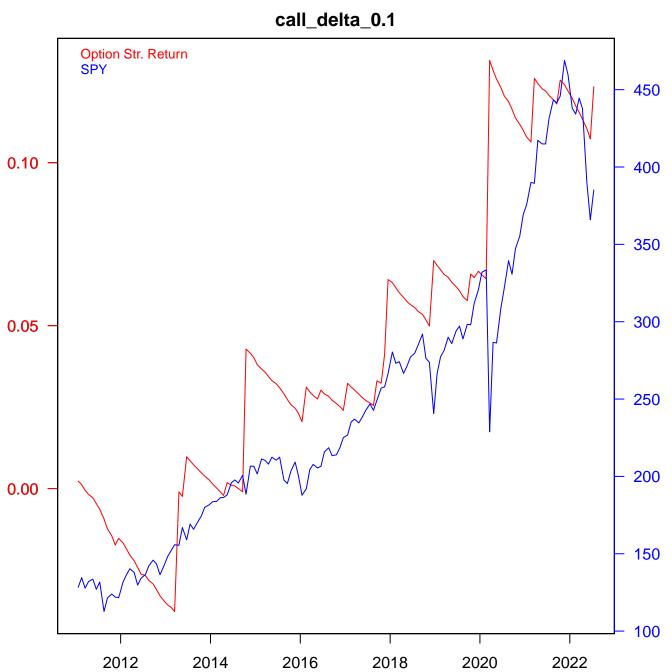


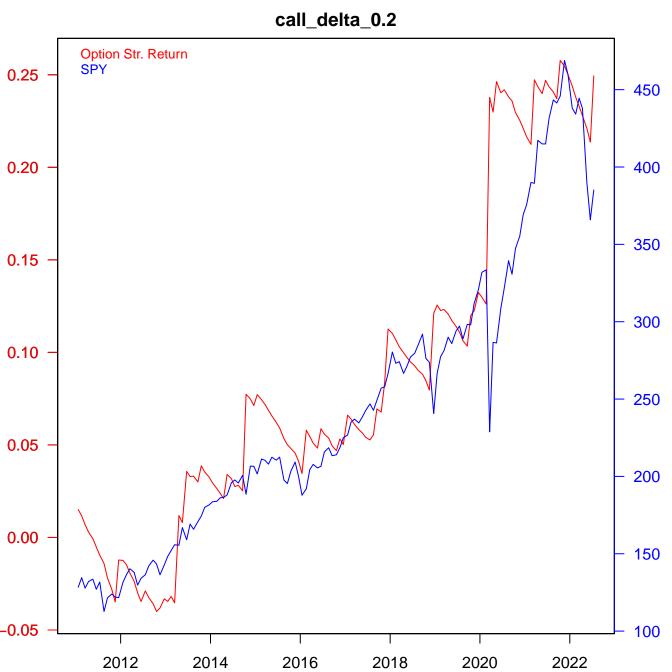


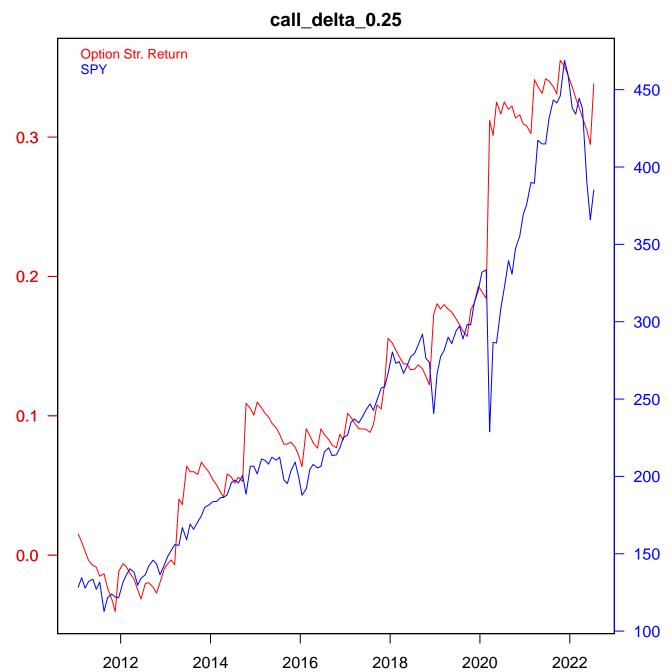


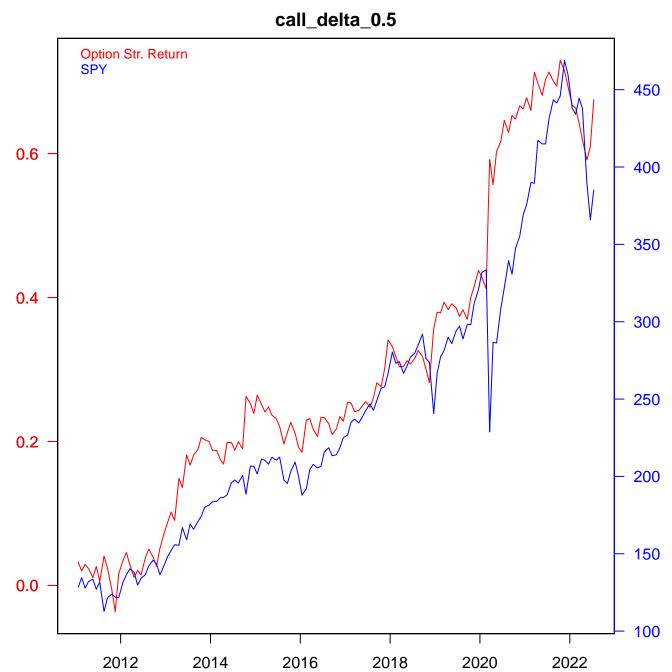


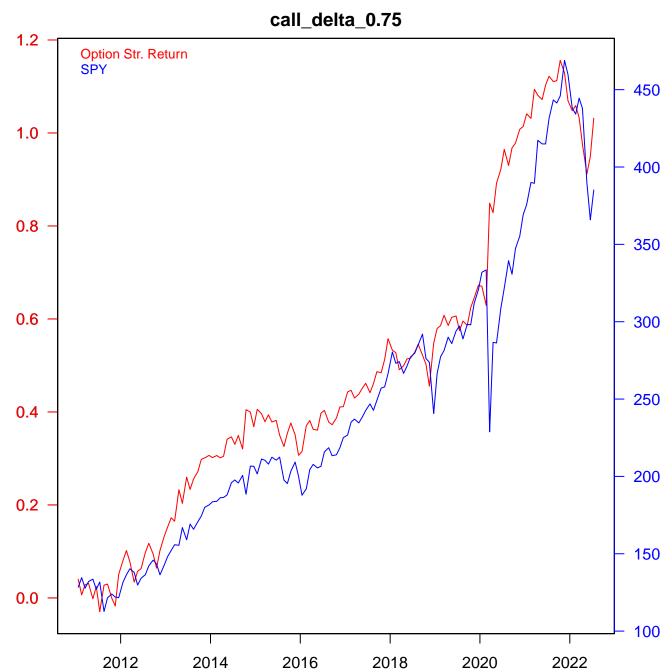


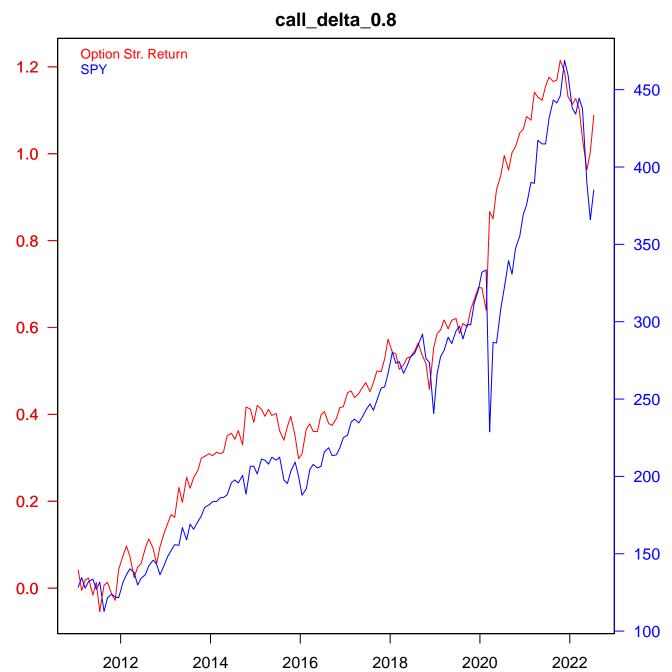


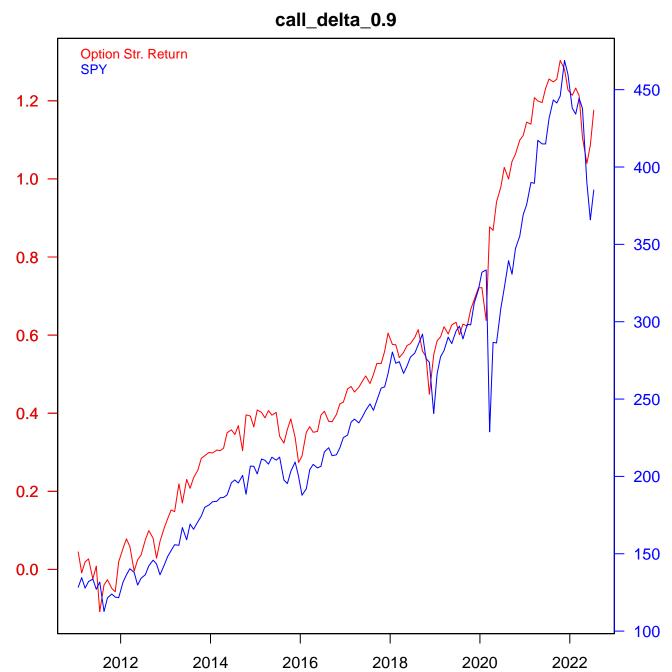


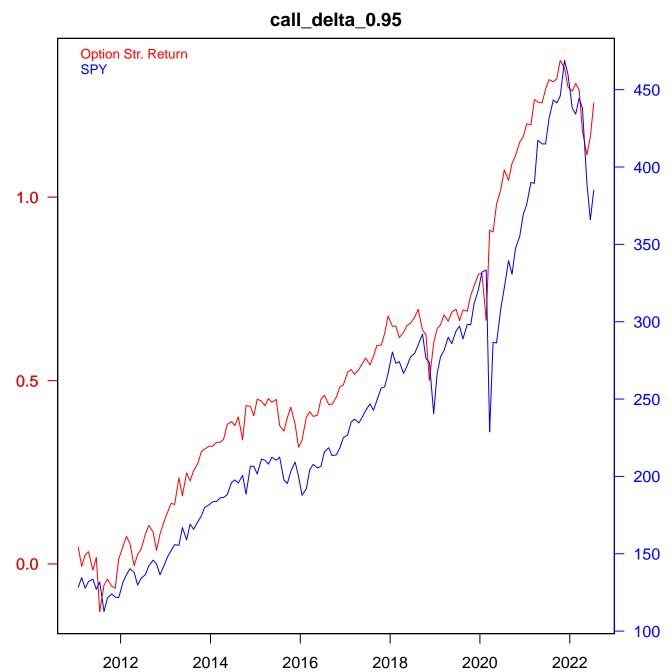


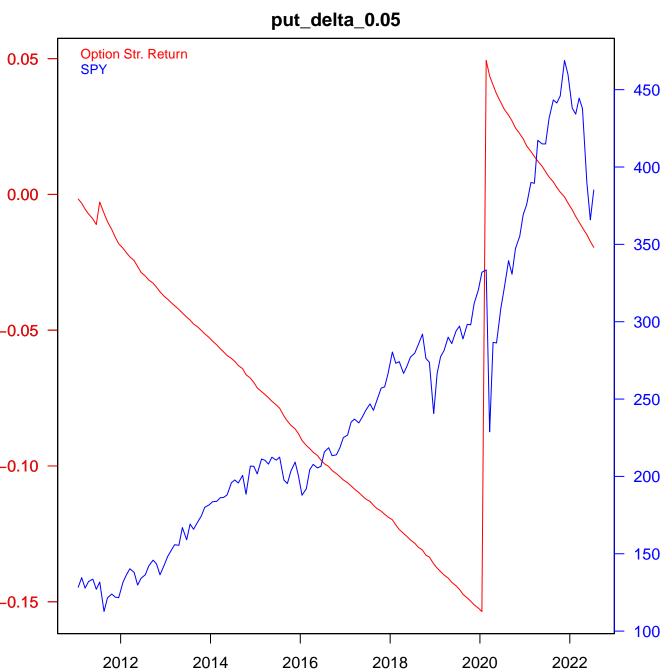


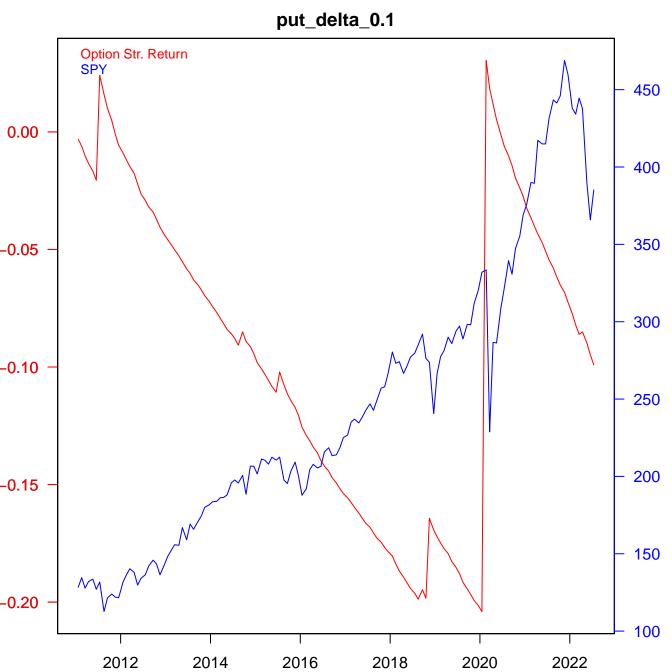


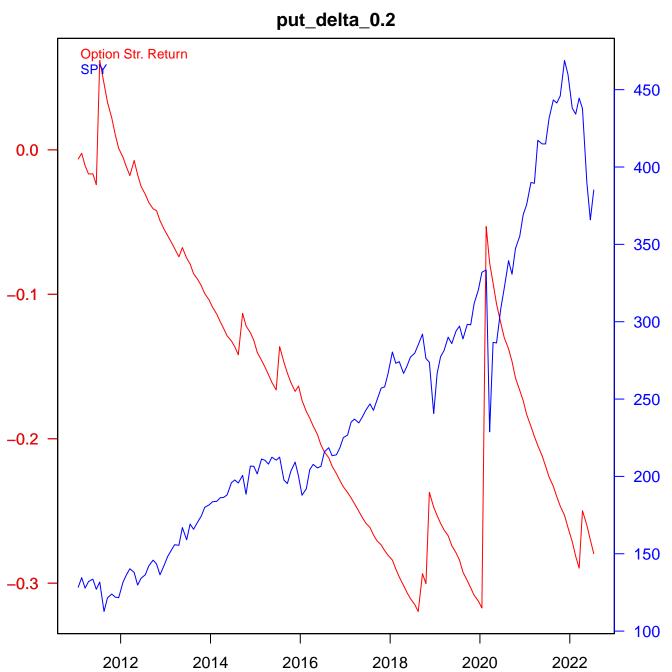


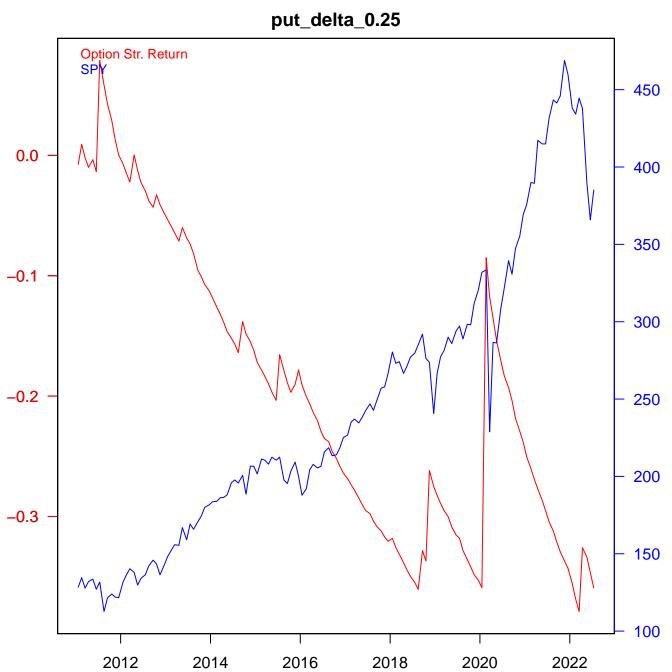


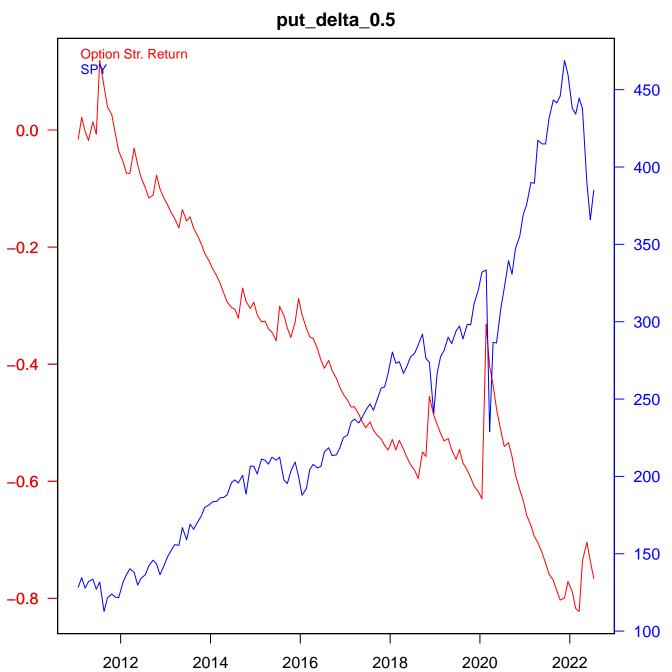


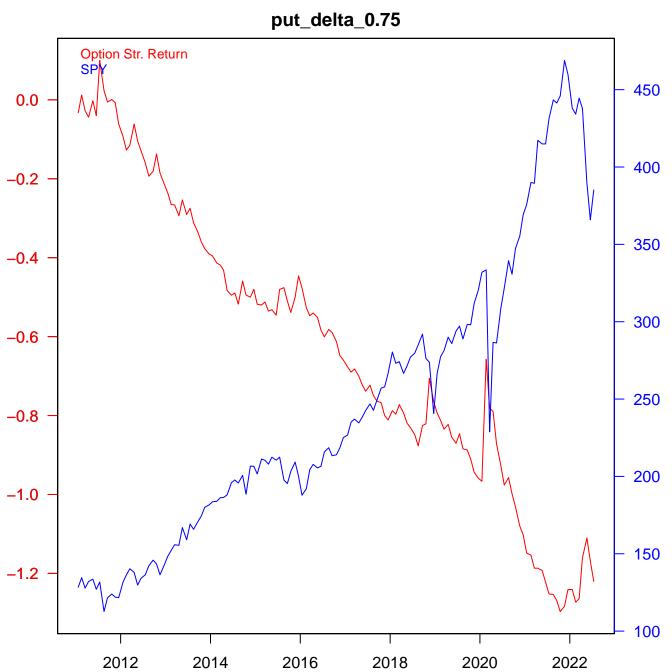


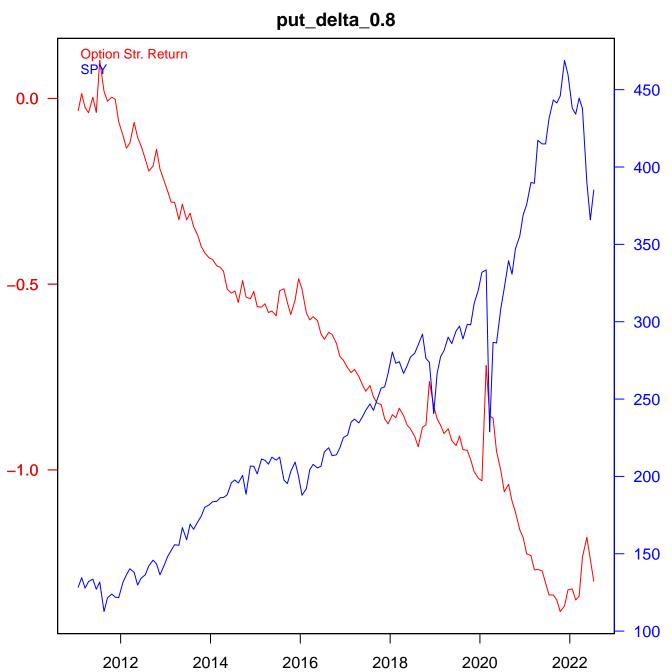


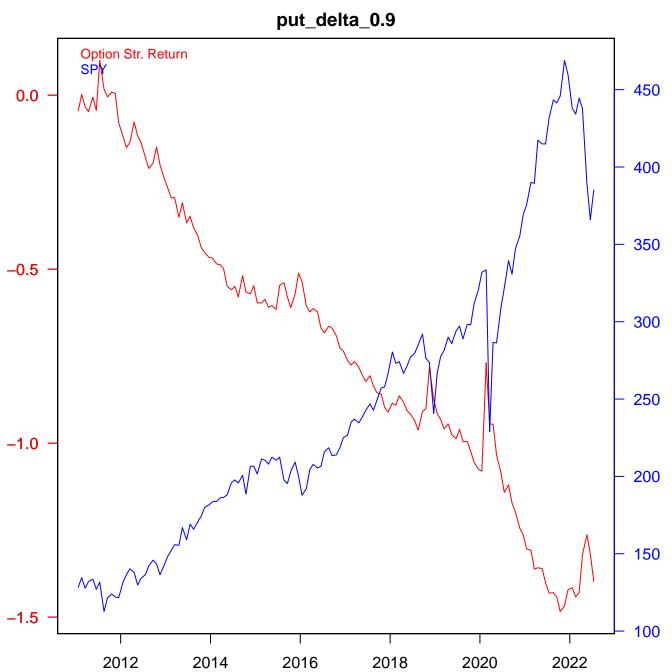


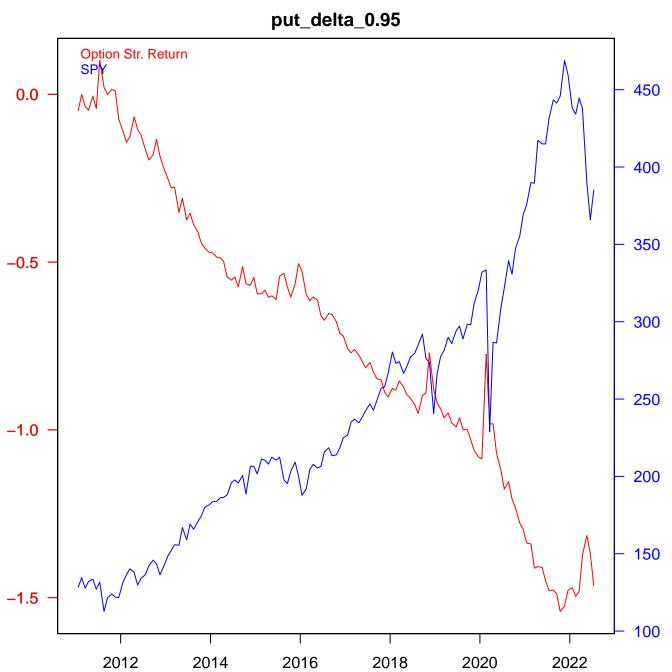


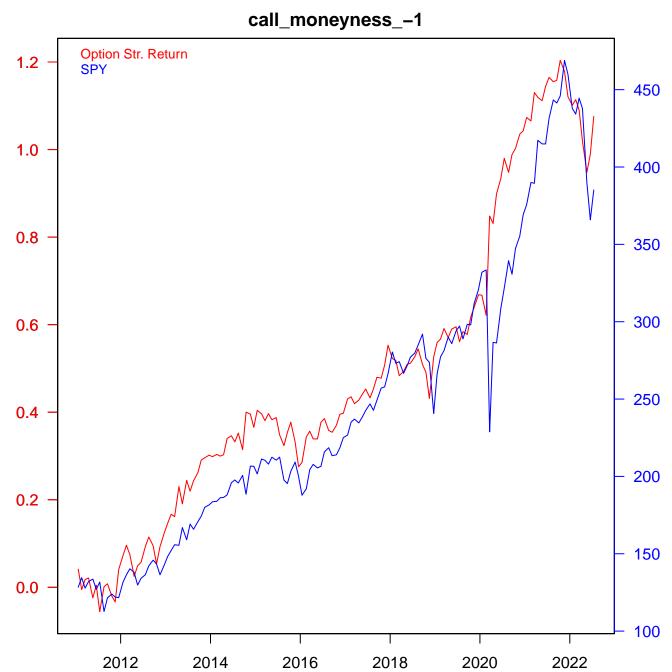


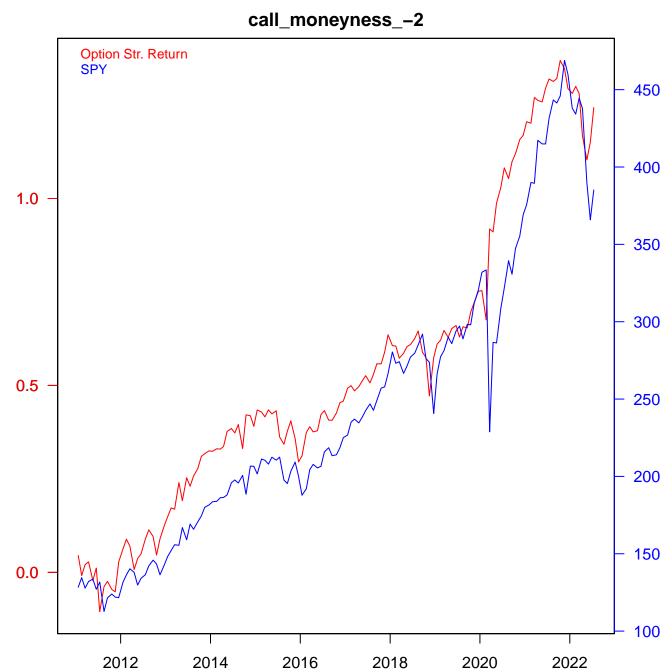


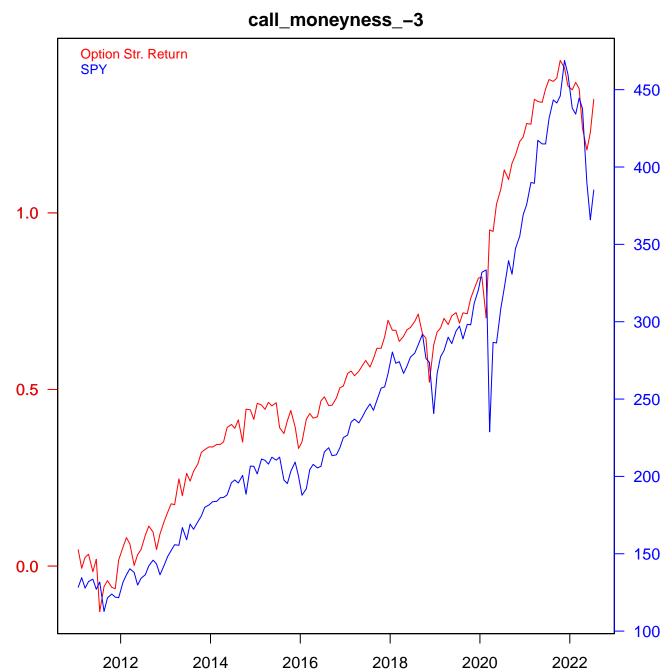


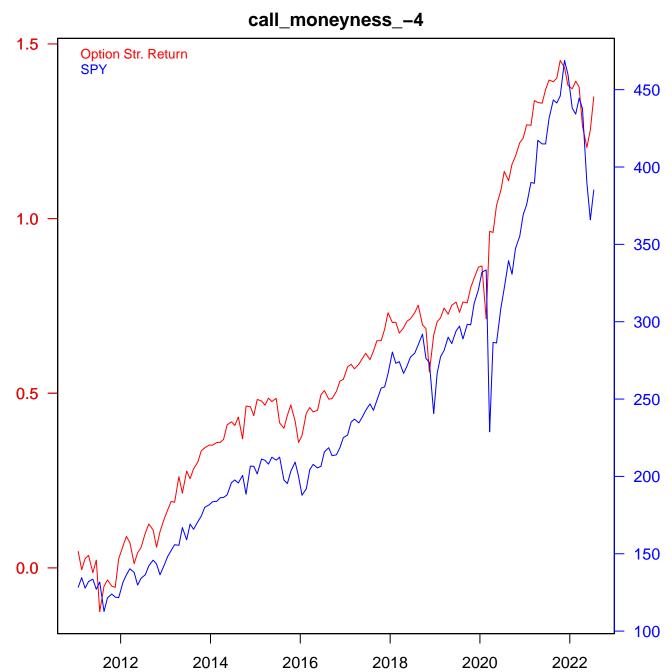


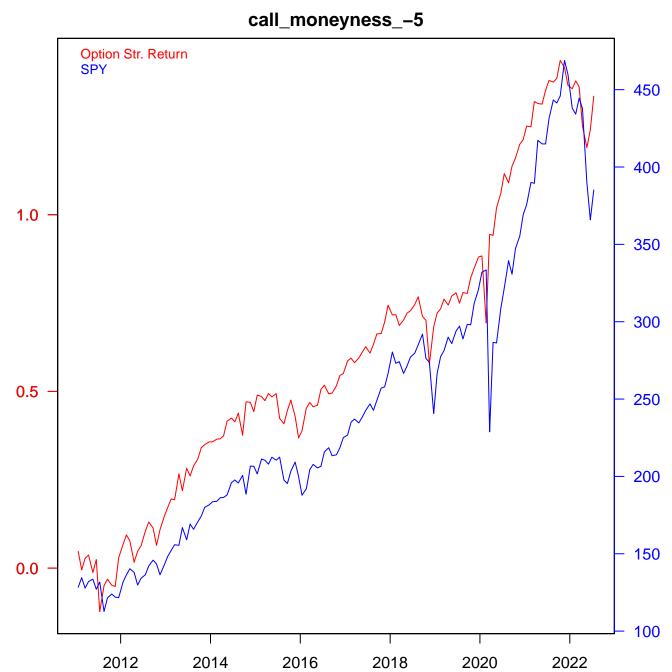


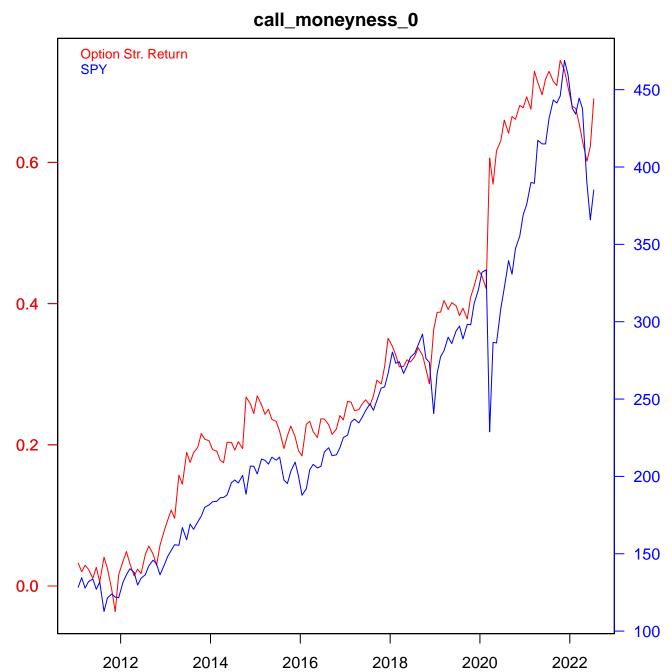


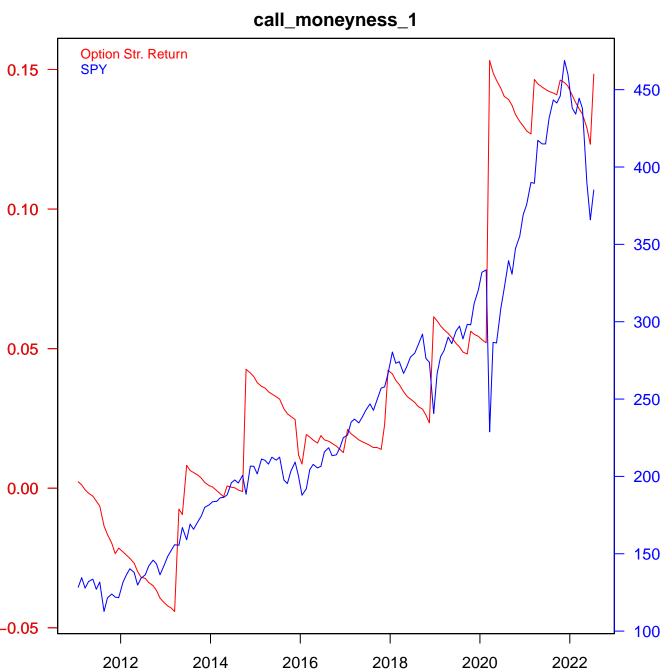


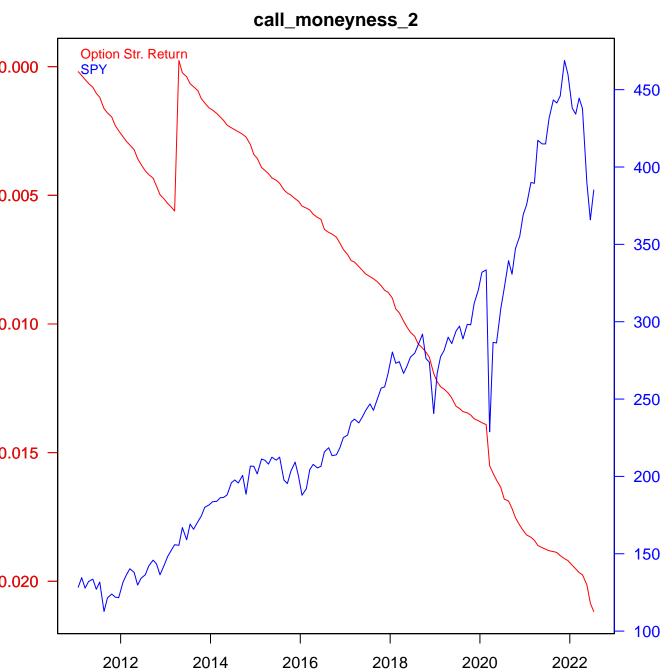


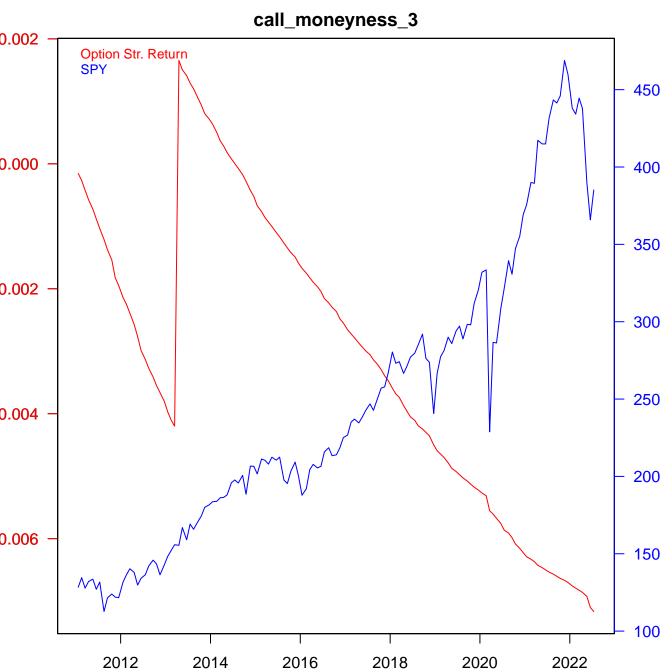


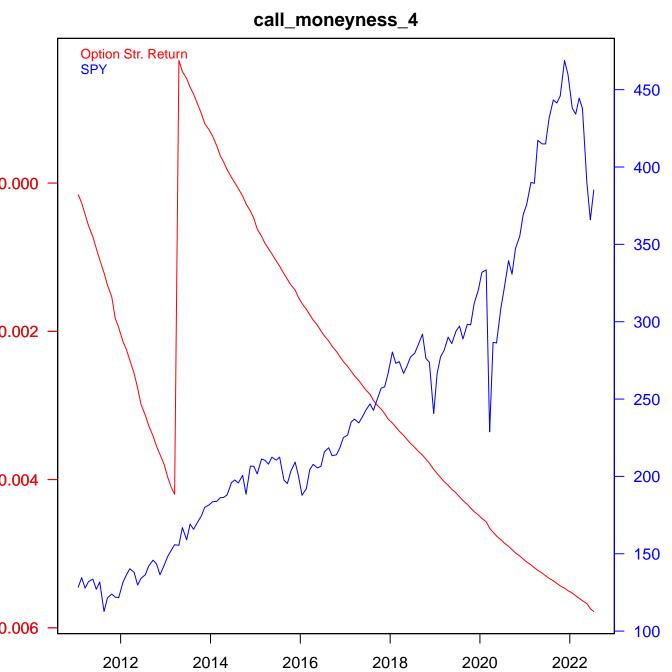


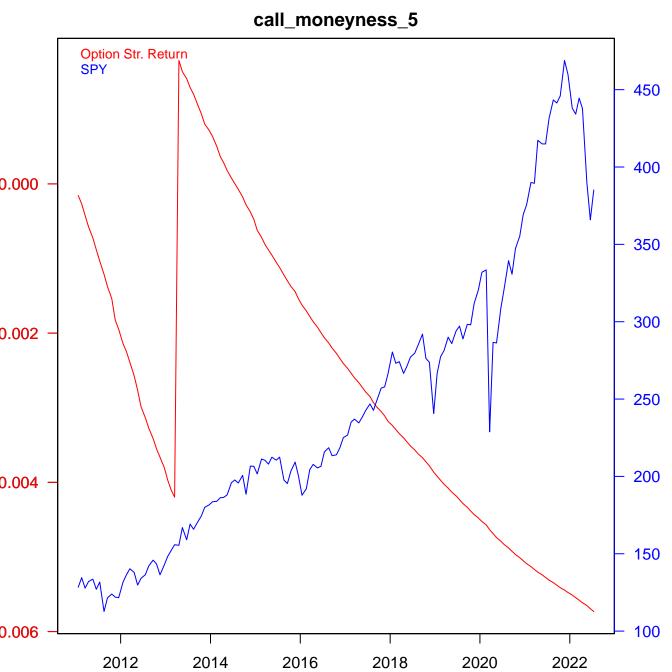


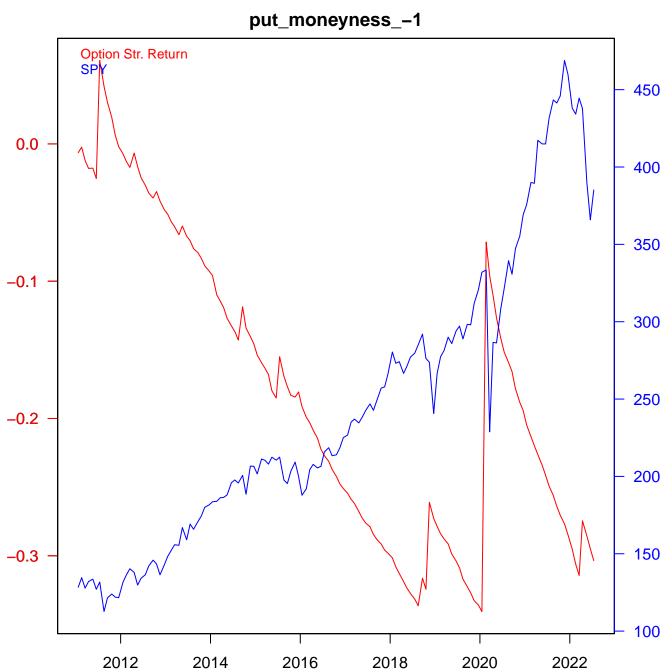


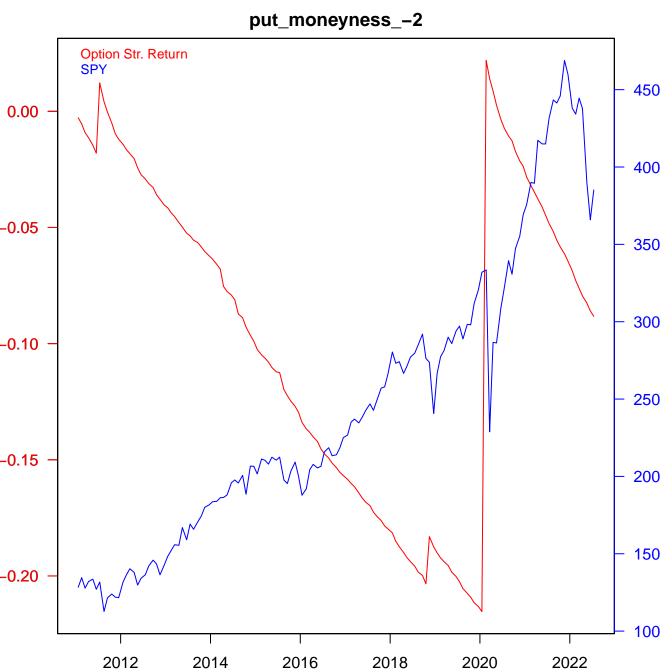


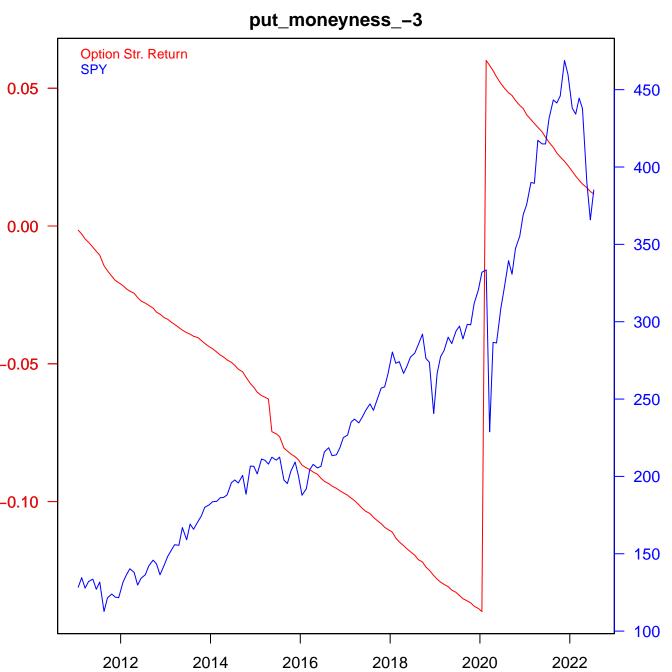


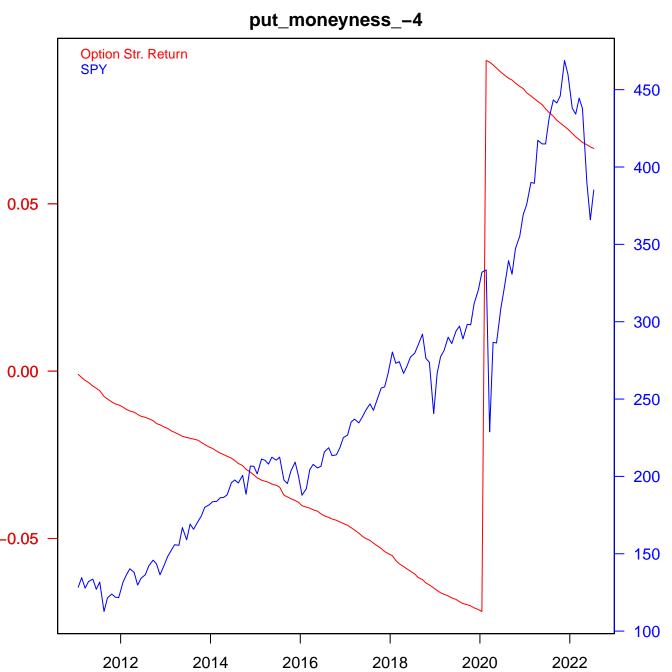


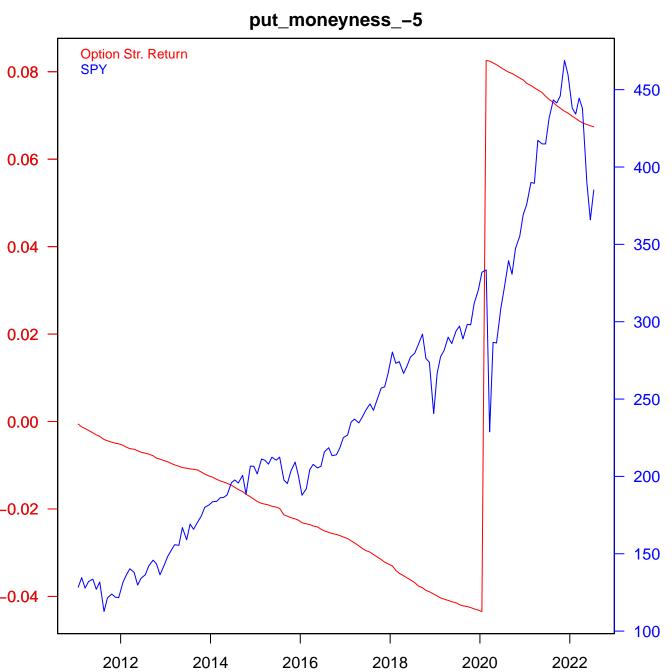


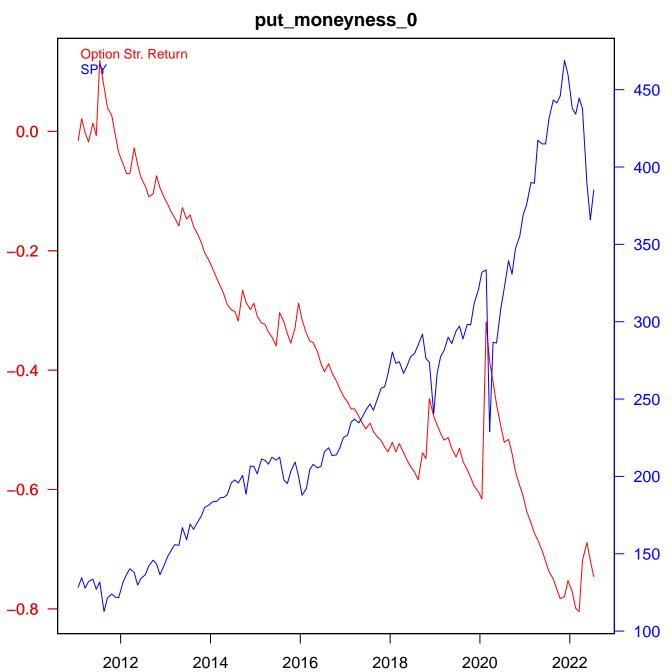


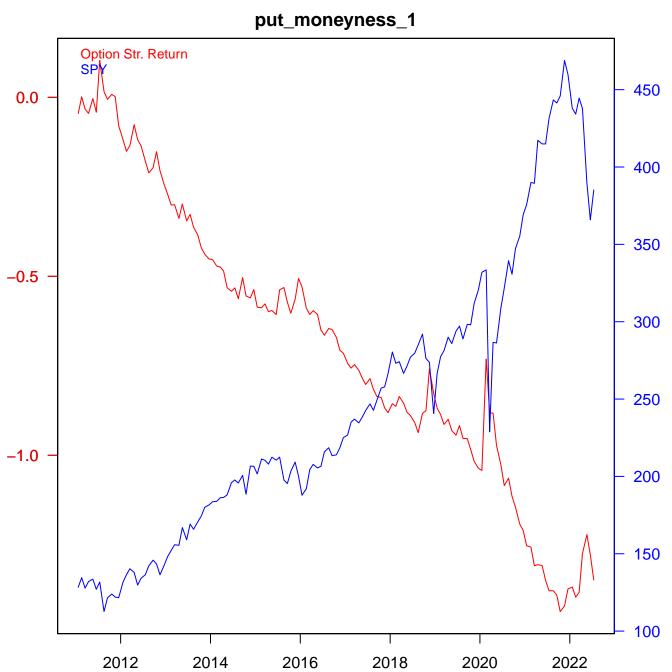


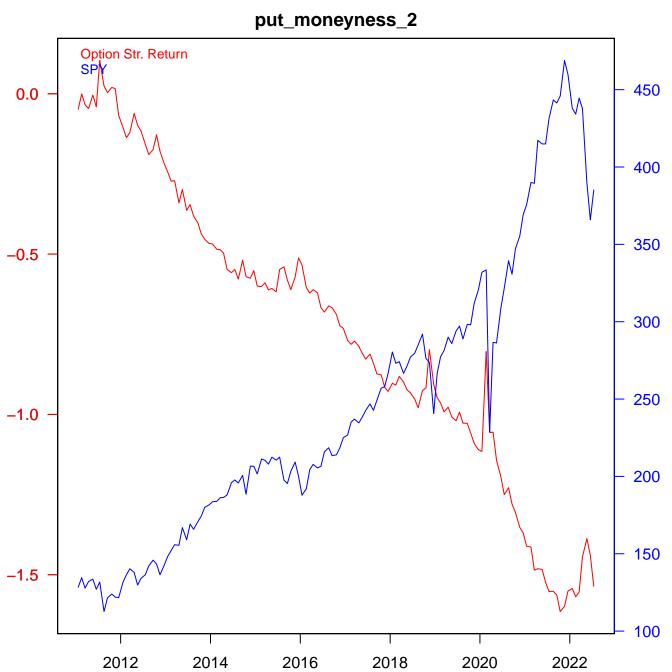


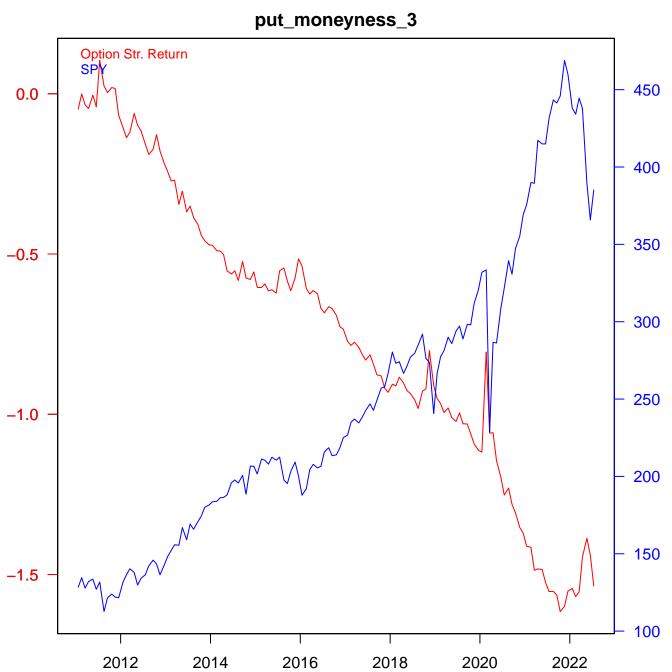


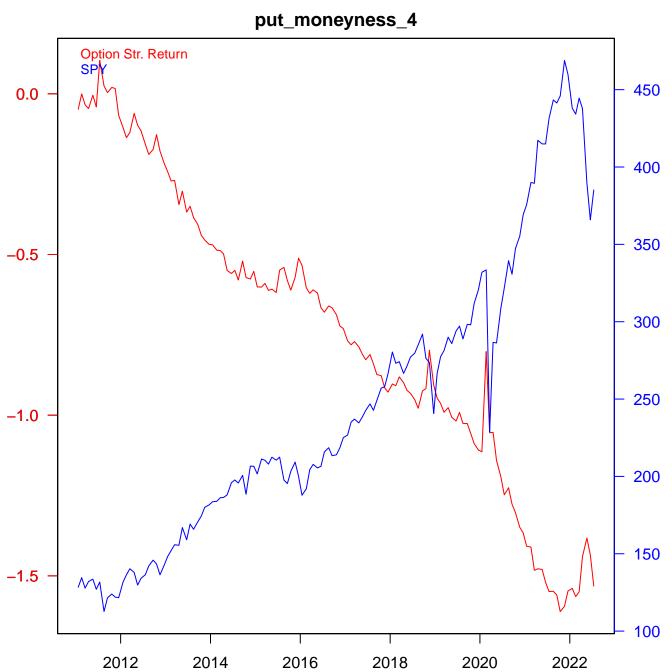


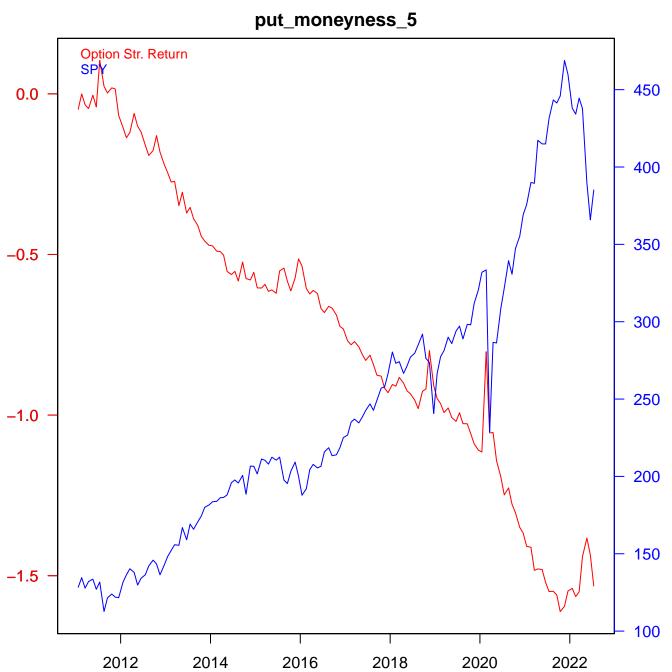




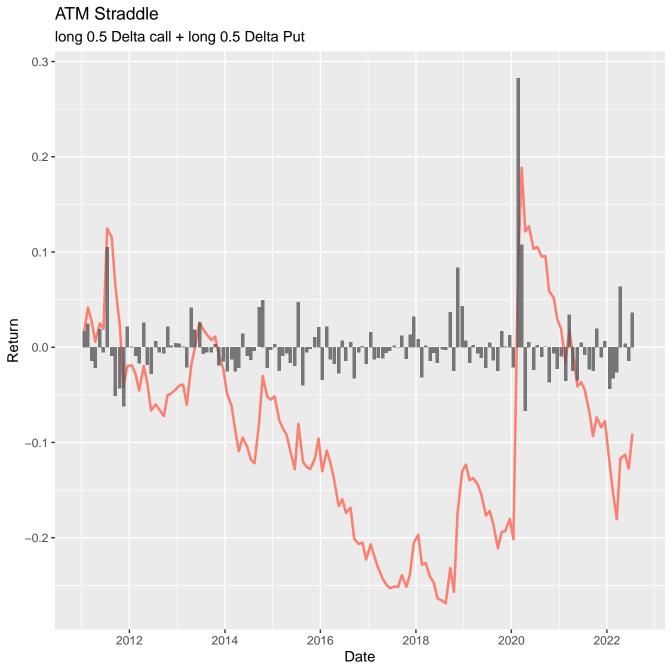


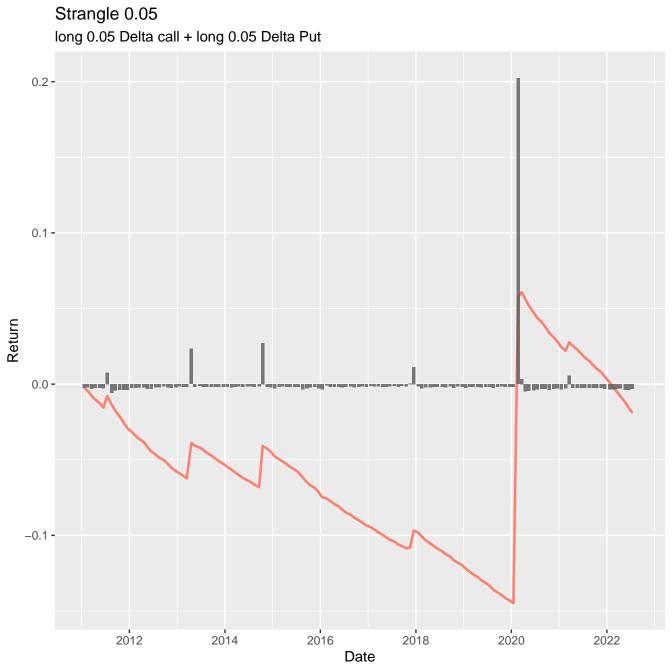


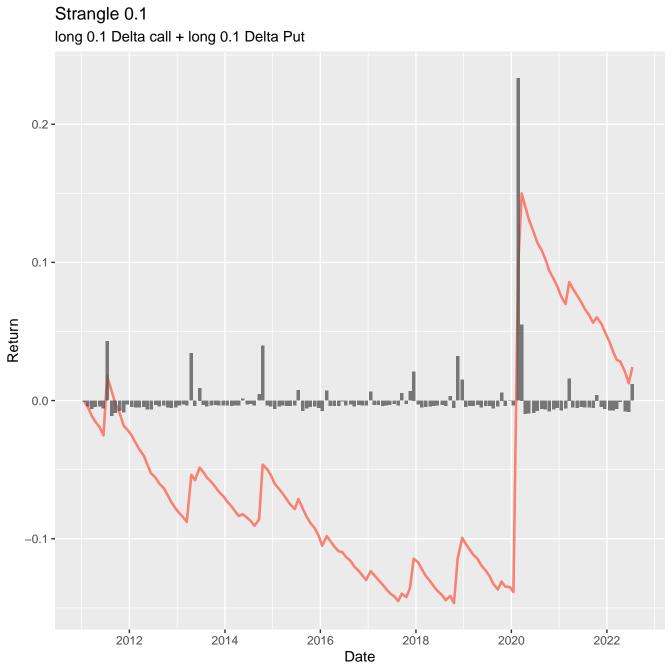


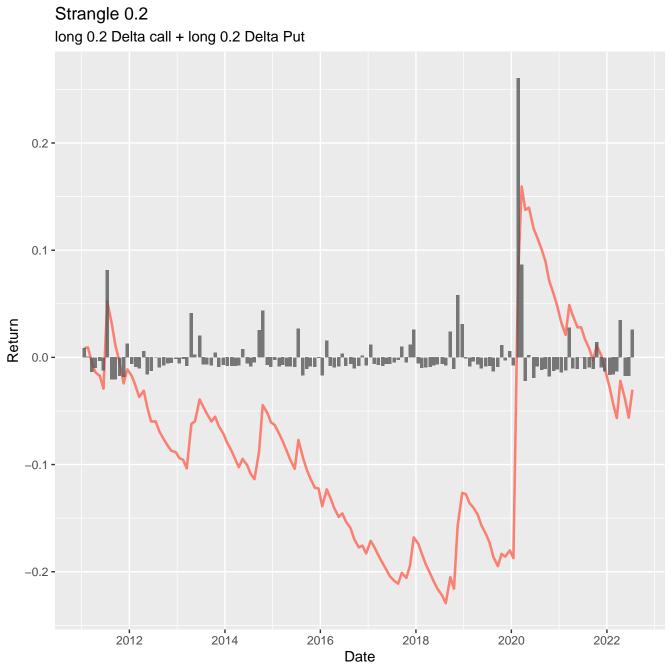


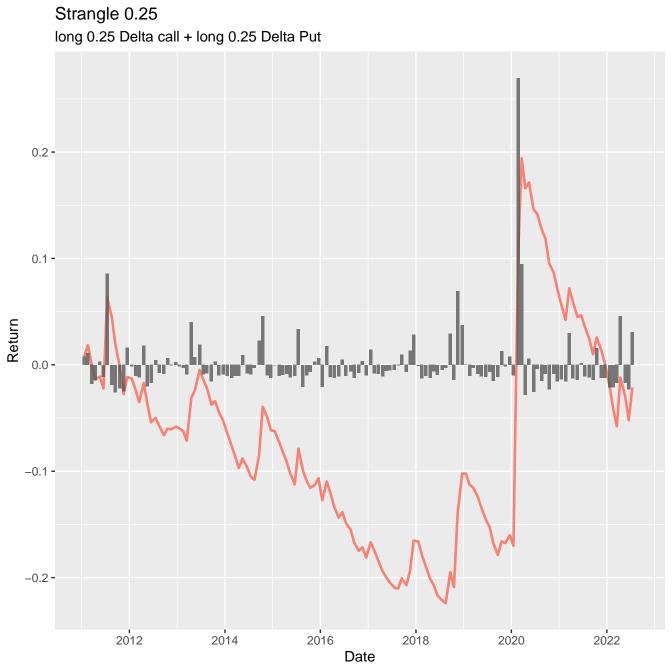


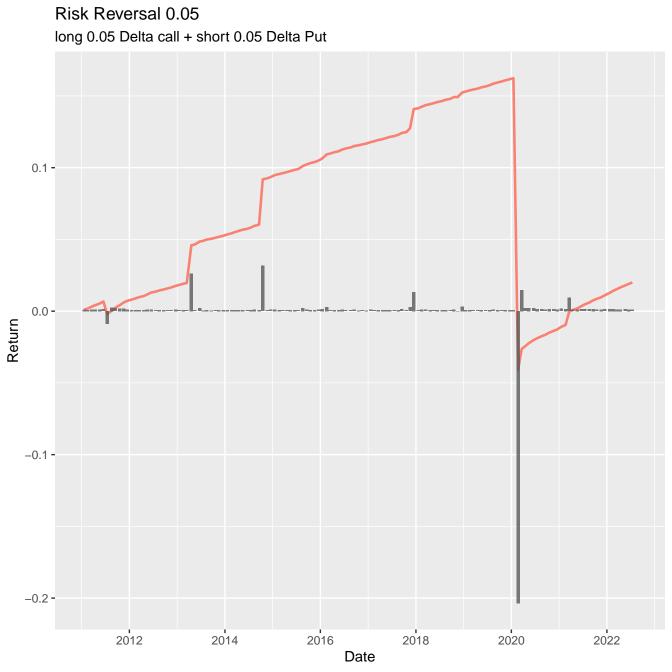


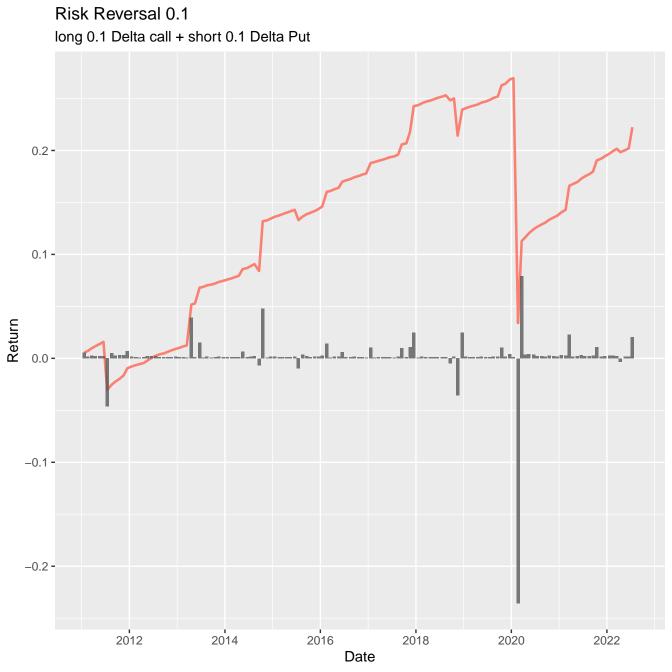


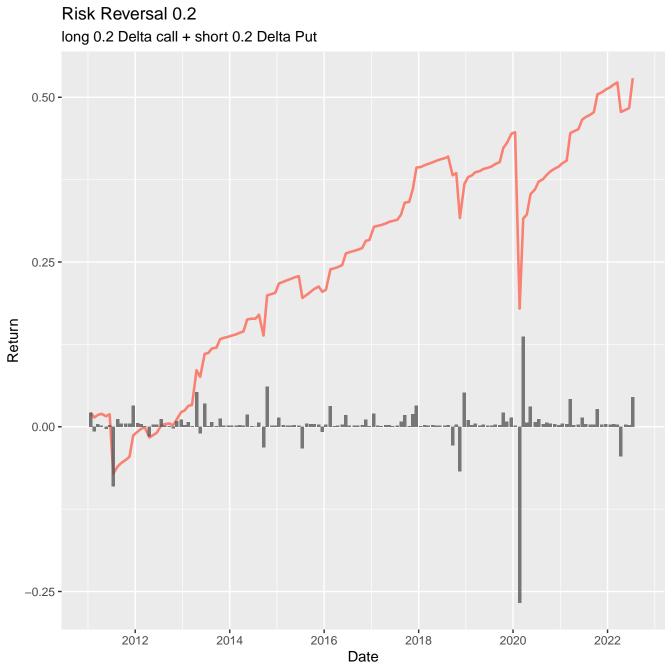


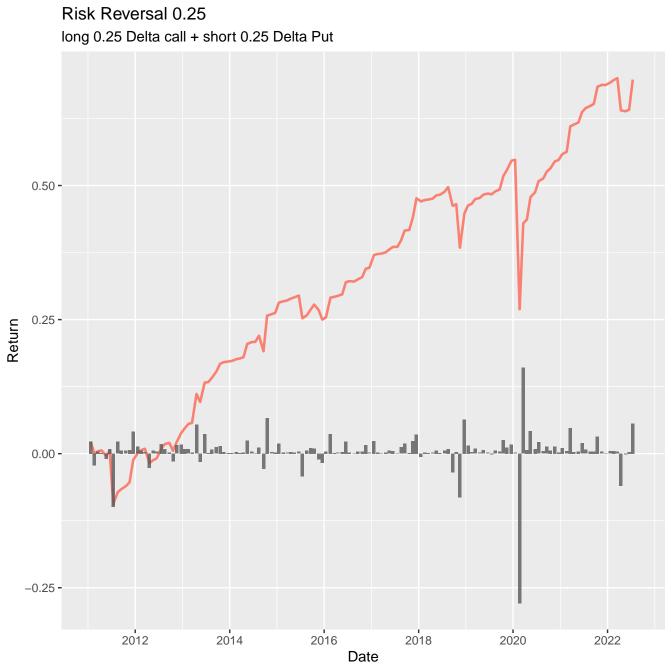


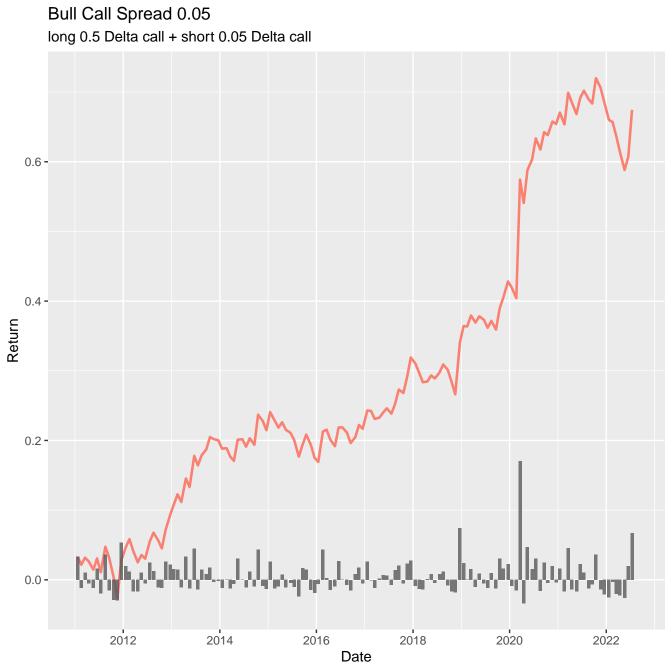


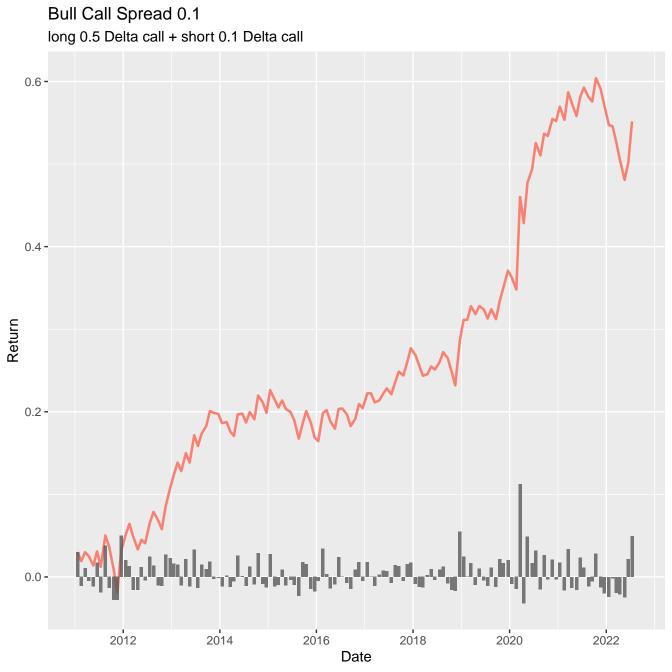




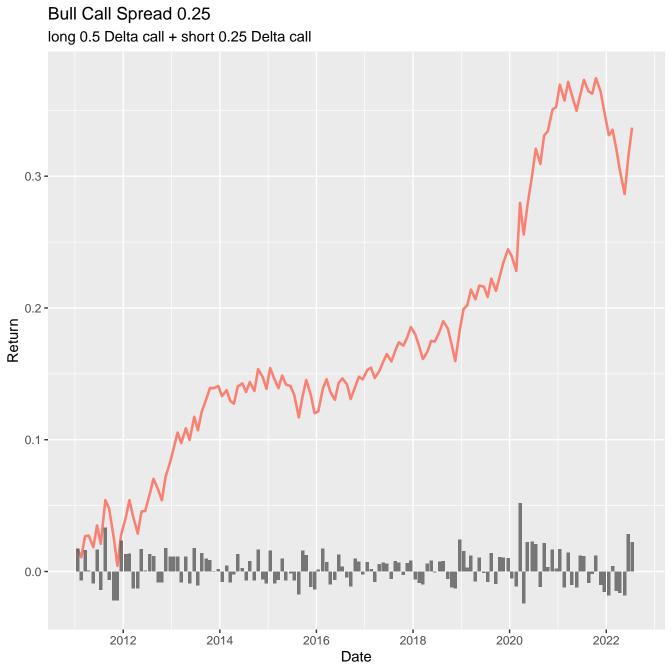








Bull Call Spread 0.2 long 0.5 Delta call + short 0.2 Delta call 0.4 -0.3 -Return 0.2 0.1 -0.0 -2012 2016 2018 2020 2022 2014 Date



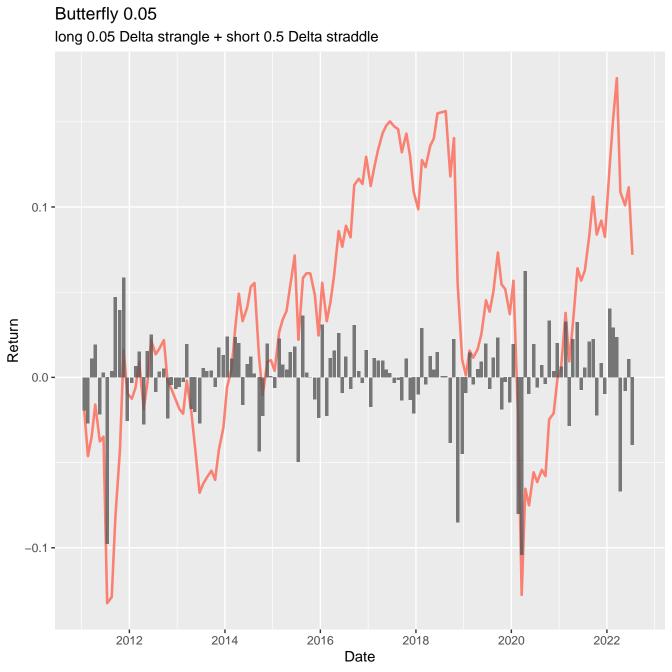
Bull Put Spread 0.05 short 0.5 Delta put + long 0.05 Delta put 0.8 -0.6 cumsum(Return) 0.2 -ومساريا والأأبي مستري ممرعت مشتر فالماأني فارتمه واربارات المستساري 0.0 -2012 2016 2018 2020 2022 2014 Date

Bull Put Spread 0.1 short 0.5 Delta put + long 0.1 Delta put 0.6 cumsum(Return) 0.2 -0.0 -2012 2016 2018 2020 2022 2014 Date

Bull Put Spread 0.2 short 0.5 Delta put + long 0.2 Delta put 0.4 cumsum(Return) والمراجعين والمراز البالي الرباري والمراز والمساول 0.0 -2012 2016 2020 2018 2022 2014 Date

Bull Put Spread 0.25 short 0.5 Delta put + long 0.25 Delta put 0.4 -0.3 cumsum(Return) 0.1 -0.0 -2016 2012 2020 2018 2022 2014

Date



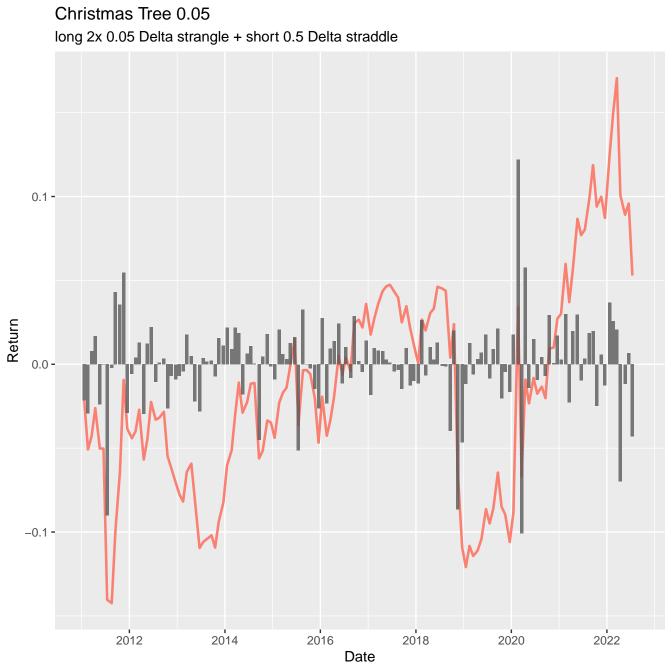
Butterfly 0.1 long 0.1 Delta strangle + short 0.5 Delta straddle 0.2 -0.1 -Return 0.0 --0.1 **-**2016 2012 2014 2018 2020 2022 Date

Butterfly 0.2 long 0.2 Delta strangle + short 0.5 Delta straddle 0.10 -0.05 -Return 0.00 --0.05 **-**2012 2016 2014 2018 2020 2022 Date

Butterfly 0.25 long 0.25 Delta strangle + short 0.5 Delta straddle 0.10 -0.05 -Return 0.00 --0.05 **-**2016 2012 2014 2018 2022

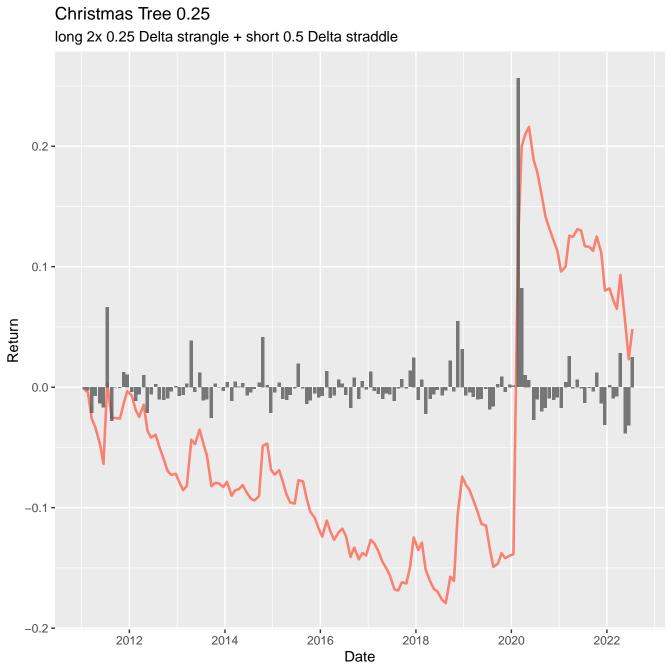
Date

2020



Christmas Tree 0.1 long 2x 0.1 Delta strangle + short 0.5 Delta straddle 0.2 -0.1 -Return 0.0 --0.1 **-**2016 2012 2014 2020 2022 2018 Date

Christmas Tree 0.2 long 2x 0.2 Delta strangle + short 0.5 Delta straddle 0.2 -0.1 -Return 0.0 --0.1 **-**-0.2 **-**2016 2012 2014 2020 2022 2018 Date



Bull Call Spread 0.05 - 0.25 long 0.25 Delta call + short 0.05 Delta call 0.3 cumsum(Return) 0.1 -0.0 -2012 2016 2014 2018 2020 2022

Date

Bull Call Spread 0.1 – 0.25 long 0.25 Delta call + short 0.1 Delta call



Bull Call Spread 0.2 - 0.25 long 0.25 Delta call + short 0.2 Delta call 0.100 -0.075 cumsum(Return) 0.050 -0.025 -0.000 -2016 2012 2014 2018 2020 2022 Date

Bull Put Spread 0.05 - 0.25 short 0.25 Delta put + long 0.05 Delta put 0.3 -0.2 cumsum(Return) 0.1 -0.0 --0.1 **-**2012 2016 2020 2014 2018 2022 Date

Bull Put Spread 0.1 - 0.25 short 0.25 Delta put + long 0.1 Delta put 0.3 -0.2 cumsum(Return) Mark to April a sector para de la compansión de la compan 0.0 -2012 2016 2018 2020 2022 2014 Date

Bull Put Spread 0.2 - 0.25 short 0.25 Delta put + long 0.2 Delta put



