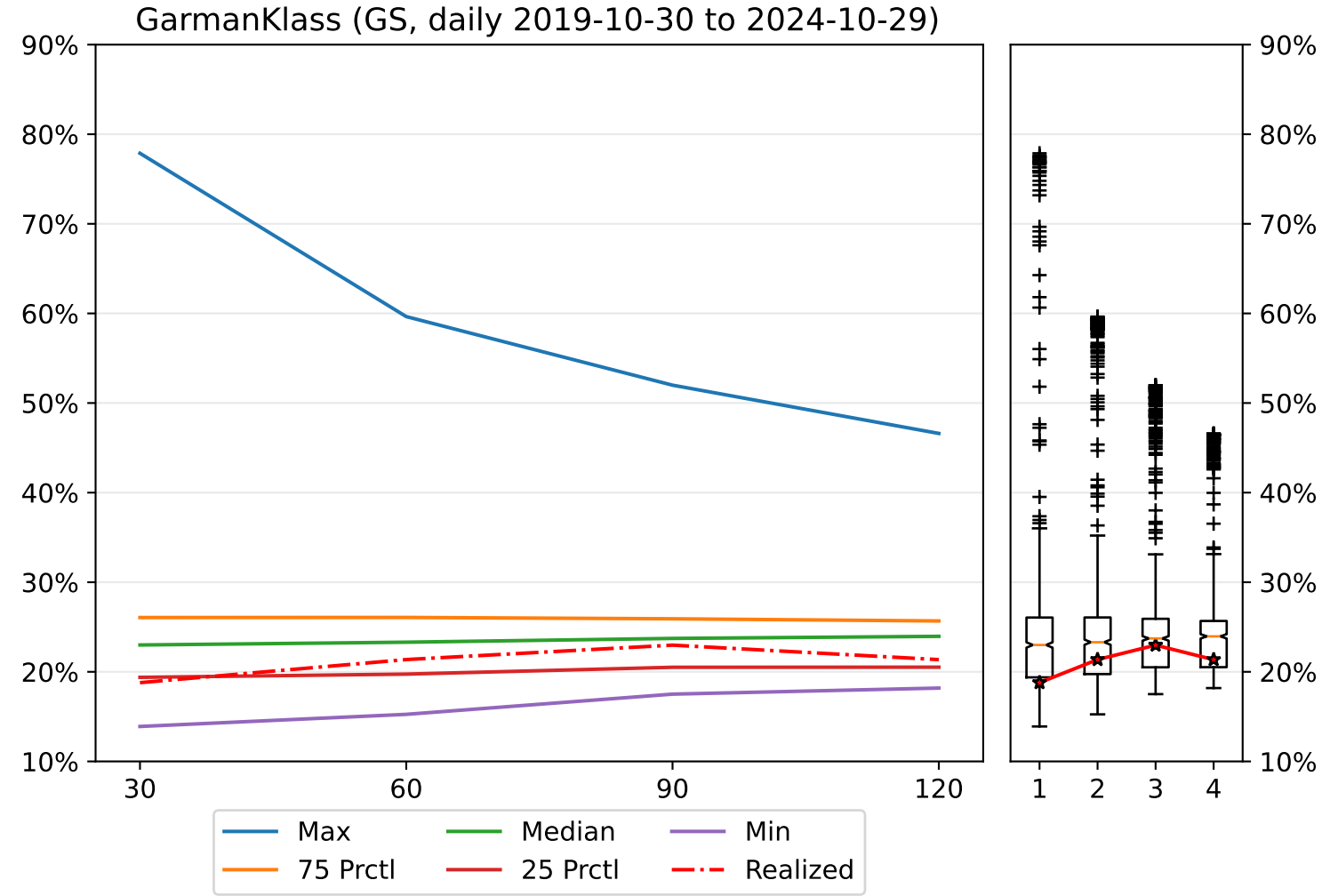
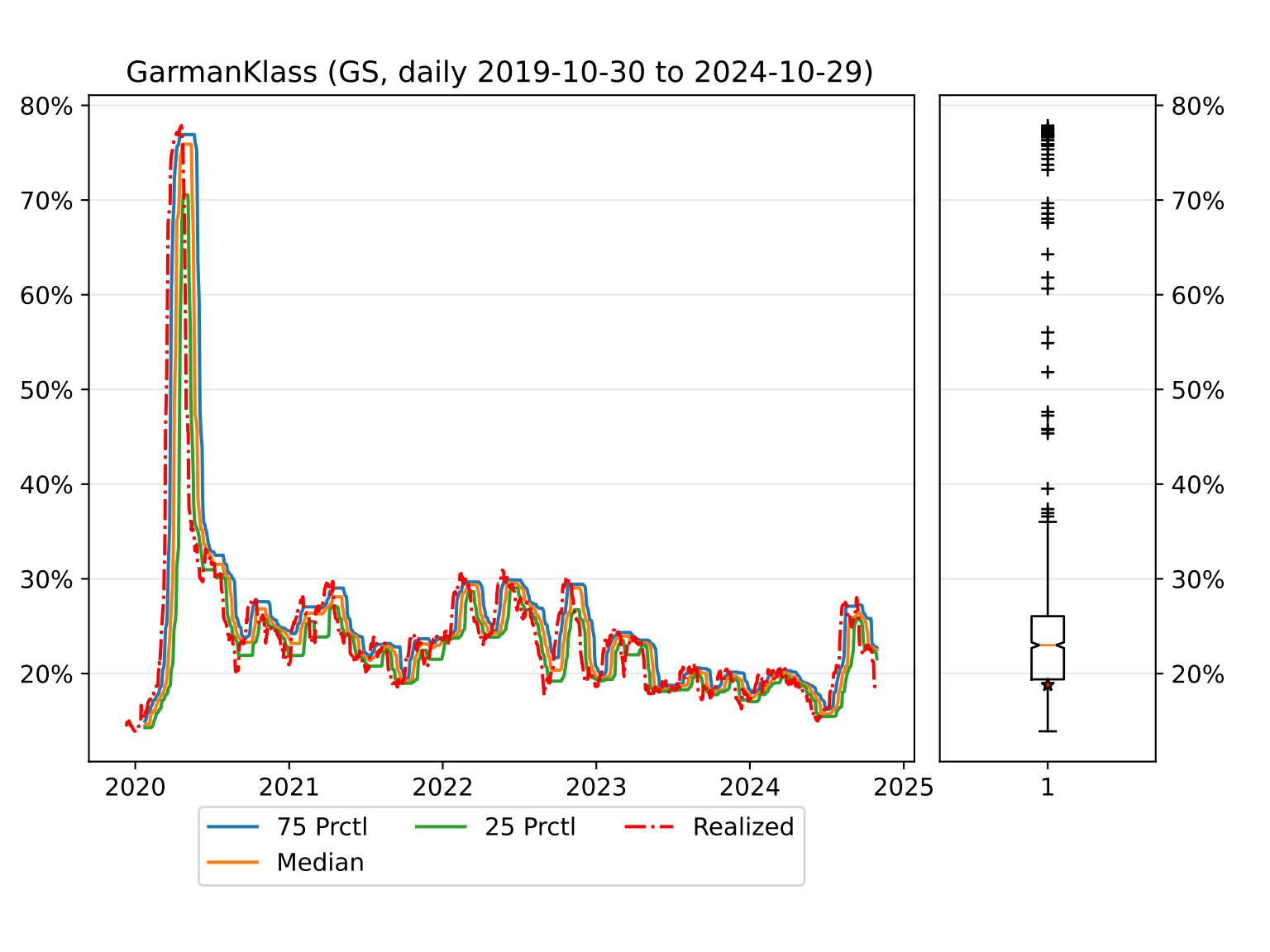
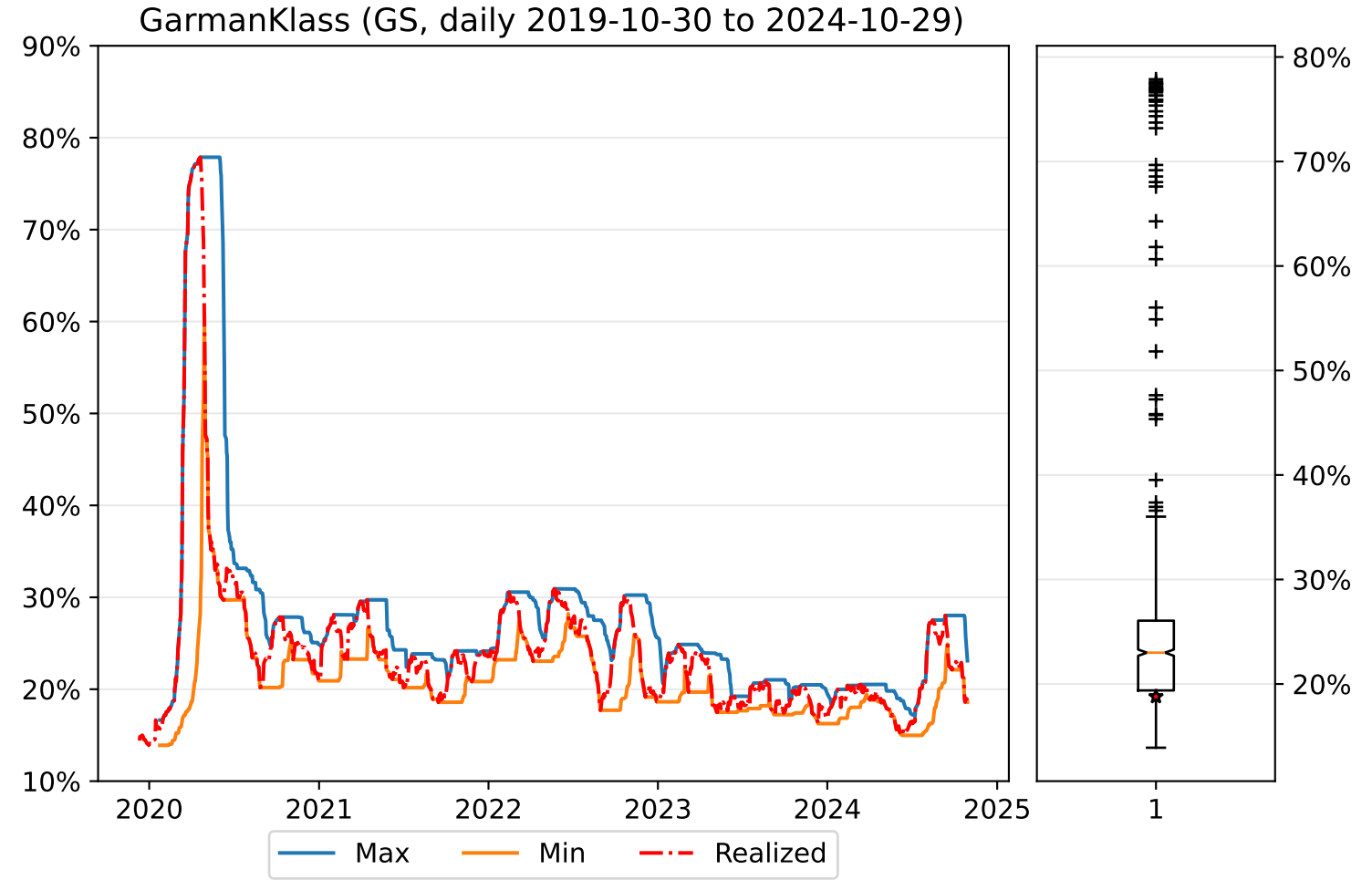
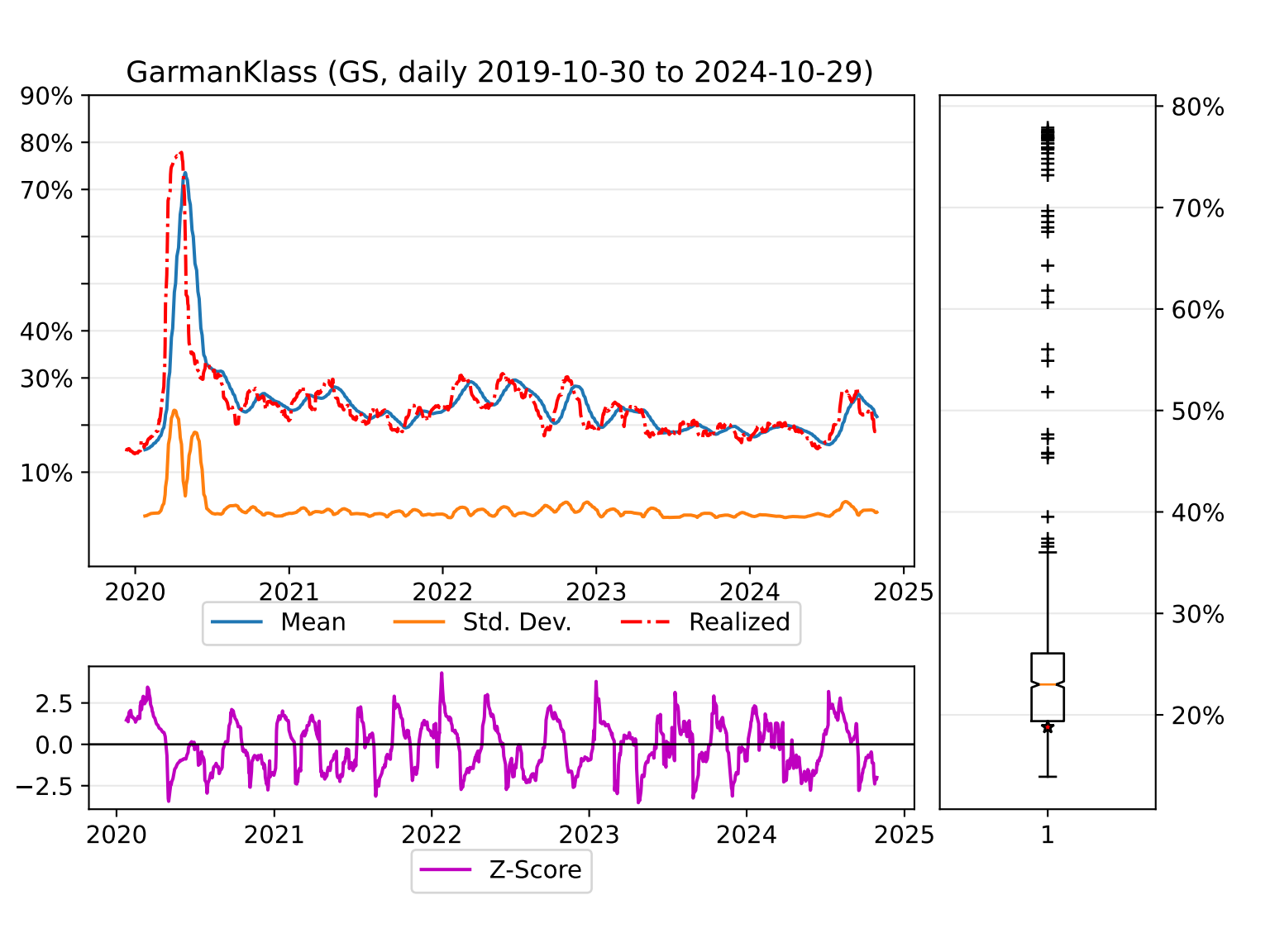
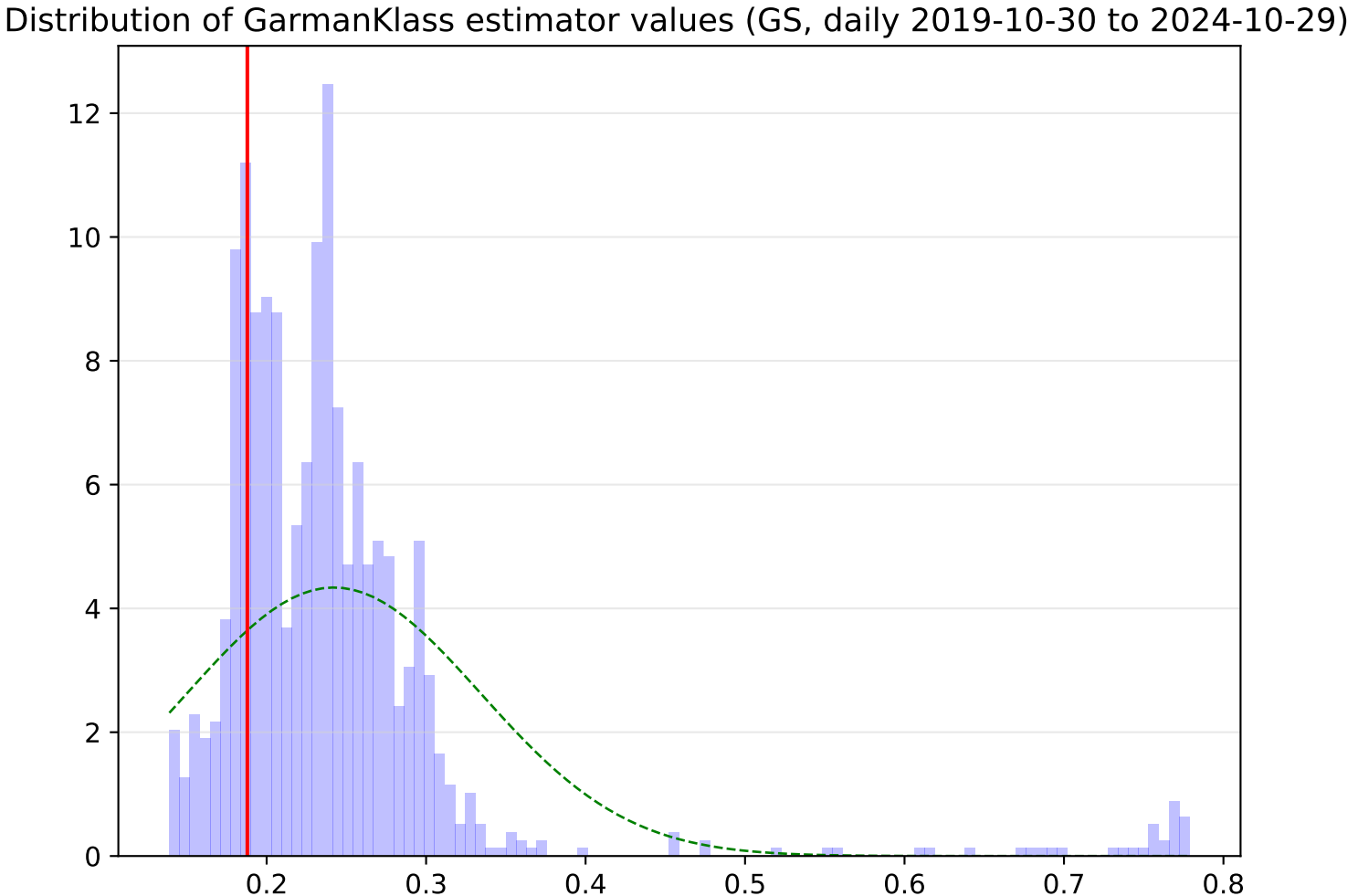
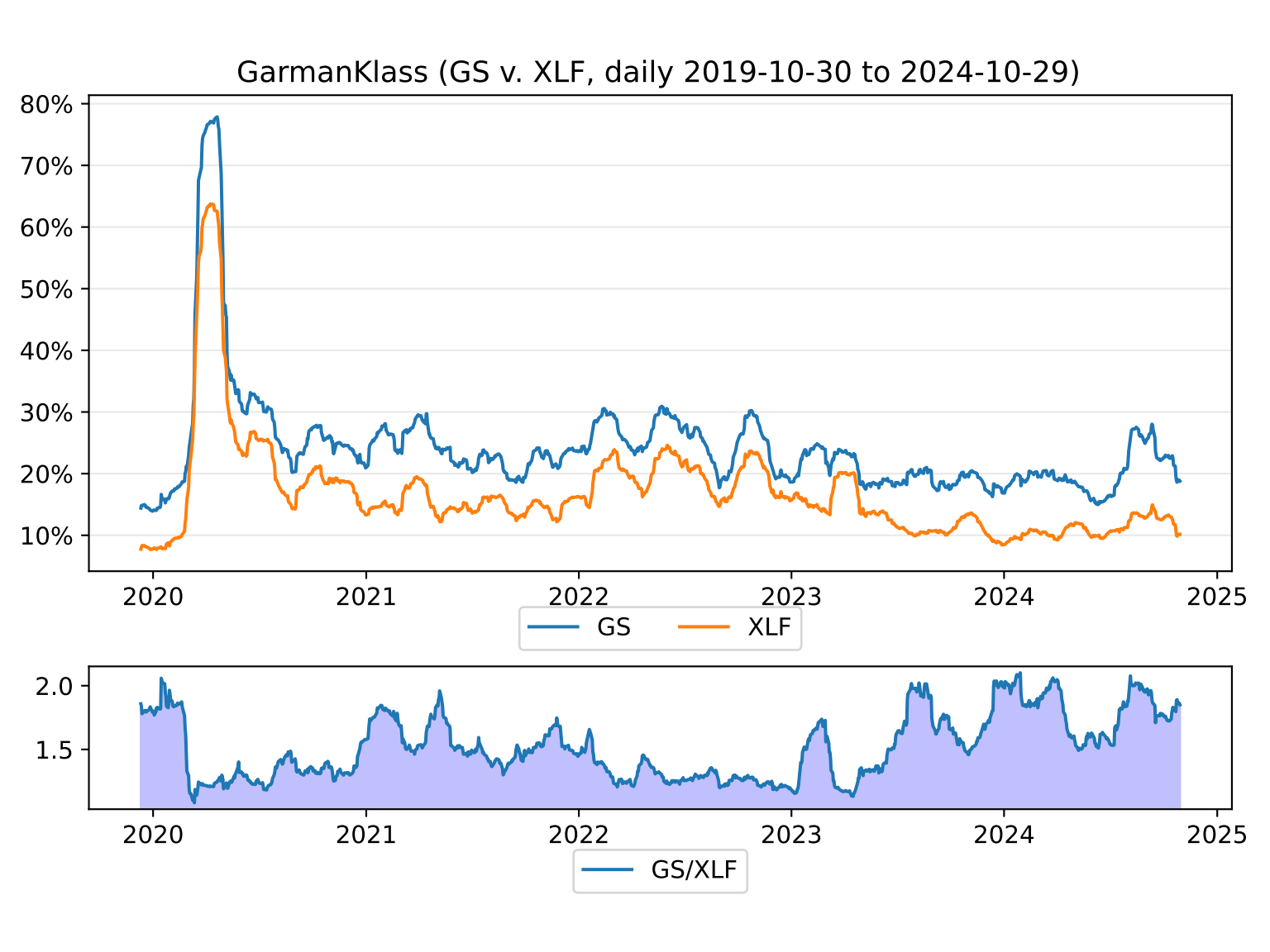

GarmanKlass (GS, daily 2019-10-30 to 2024-10-29)
90%
80%
70%
60%
50%
40%
30%
20%
10%
30
60
90
120
1
2
3
4
Max
Median
Min
75 Prctl
25 Prctl
Realized

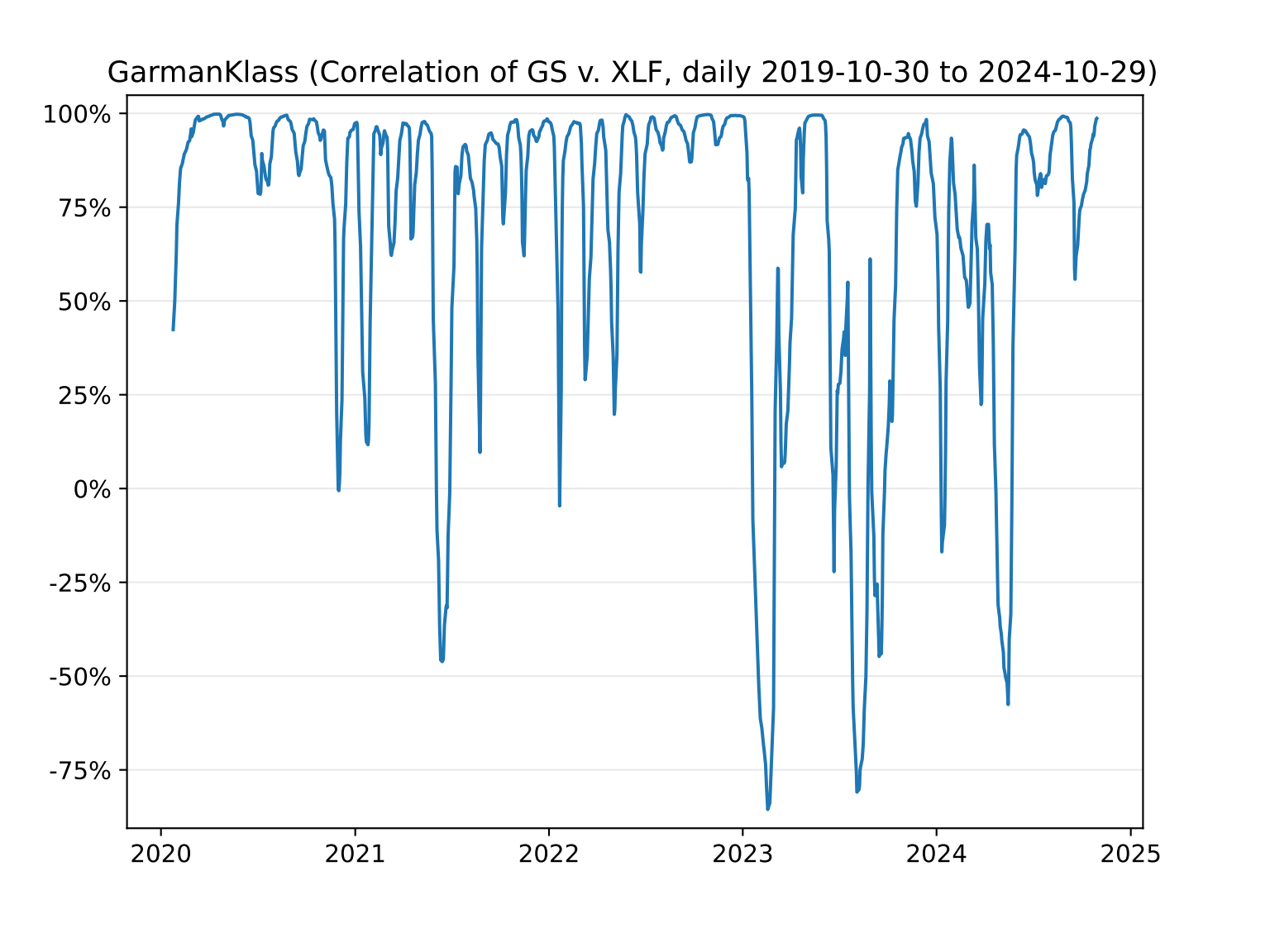

GarmanKlass (GS, daily 2019-10-30 to 2024-10-29)
80%
70%
60%
50%
40%
30%
20%
2020
2021
2022
2023
2024
2025
1
75 Prctl
Median
25 Prctl
Realized


GarmanKlass (GS, daily 2019-10-30 to 2024-10-29)
90%
80%
70%
60%
50%
40%
30%
20%
10%
2020
2021
2022
2023
2024
2025
1
Max
Min
Realized


GarmanKlass (GS, daily 2019-10-30 to 2024-10-29)
90%
80%
70%
40%
30%
10%
2020
2021
2022
2023
2024
2025
Mean
Std. Dev.
Realized
2.5
0.0
−2.5
Z-Score
80%
70%
60%
50%
40%
30%
20%
1


Distribution of GarmanKlass estimator values (GS, daily 2019-10-30 to 2024-10-29)
0
2
4
6
8
10
12
0.2
0.3
0.4
0.5
0.6
0.7
0.8


GarmanKlass (GS v. XLF, daily 2019-10-30 to 2024-10-29)
80%
70%
60%
50%
40%
30%
20%
10%
2020
2021
2022
2023
2024
2025
GS
XLF
2.0
1.5
2020
2021
2022
2023
2024
2025
GS/XLF


GarmanKlass (Correlation of GS v. XLF, daily 2019-10-30 to 2024-10-29)
100%
75%
50%
25%
0%
-25%
-50%
-75%
2020
2021
2022
2023
2024
2025

OLS Regression Results

Dep. Variable:	y	R-squared (uncentered):	0.978
Model:	OLS	Adj. R-squared (uncentered):	0.978
Method:	Least Squares	F-statistic:	5.468e+04
Date:	Tue, 29 Oct 2024	Prob (F-statistic):	0.00
Time:	23:53:09	Log-Likelihood:	2262.7
No. Observations:	1229	AIC:	-4523.
Df Residuals:	1228	BIC:	-4518.
Df Model:	1		
Covariance Type:	nonrobust		

	coef	std err	t	P>|t|	[0.025	0.975]
x1	1.3640	0.006	233.841	0.000	1.353	1.375

Omnibus:	30.111	Durbin-Watson:	0.013
Prob(Omnibus):	0.000	Jarque-Bera (JB):	31.973
Skew:	-0.395	Prob(JB):	1.14e-07
Kurtosis:	2.963	Cond. No.	1.00

Notes:
[1] R^2 is computed without centering (uncentered) since the model does not contain a constant.
[2] Standard Errors assume that the covariance matrix of the errors is correctly specified.