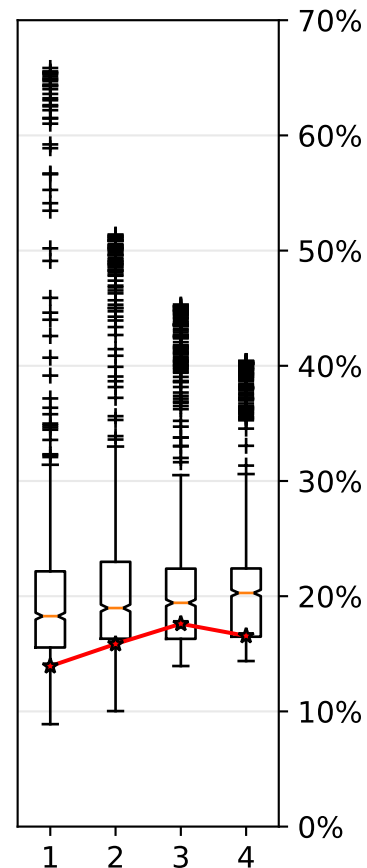
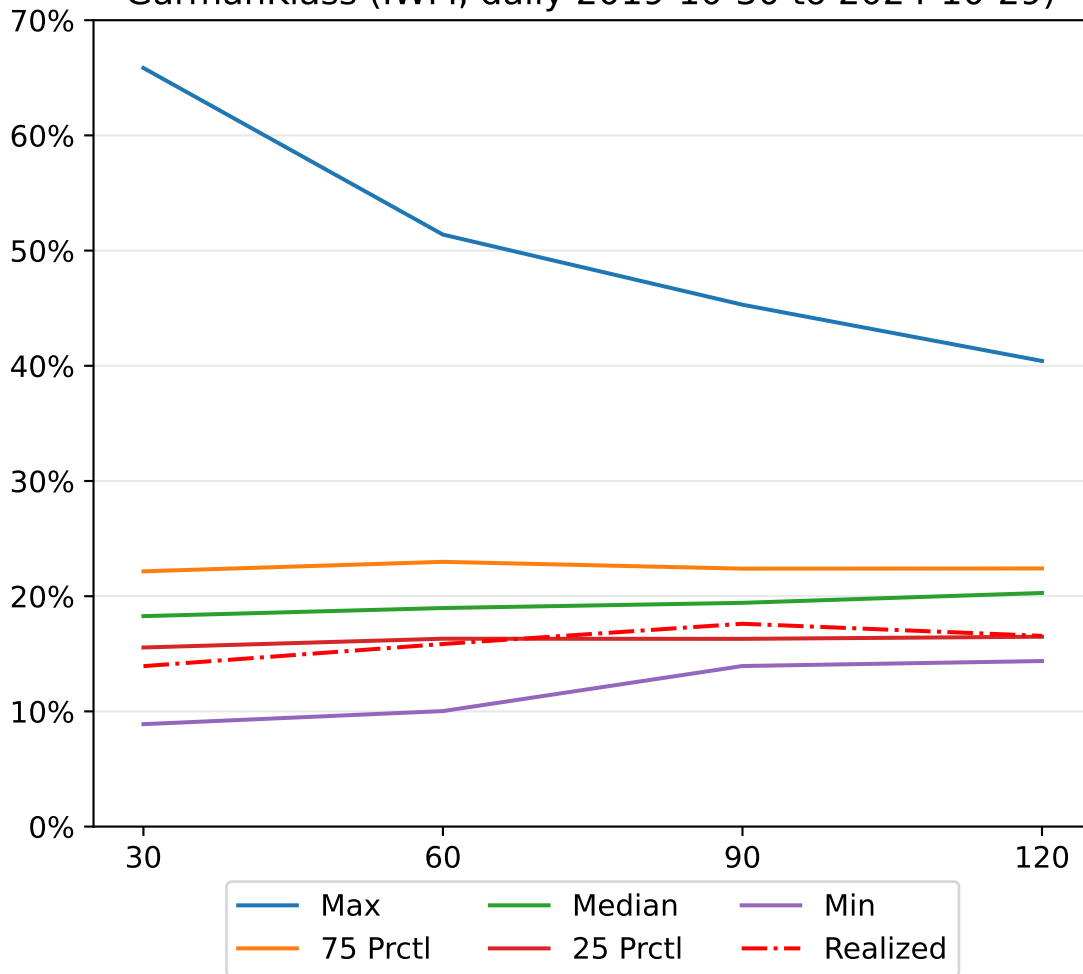
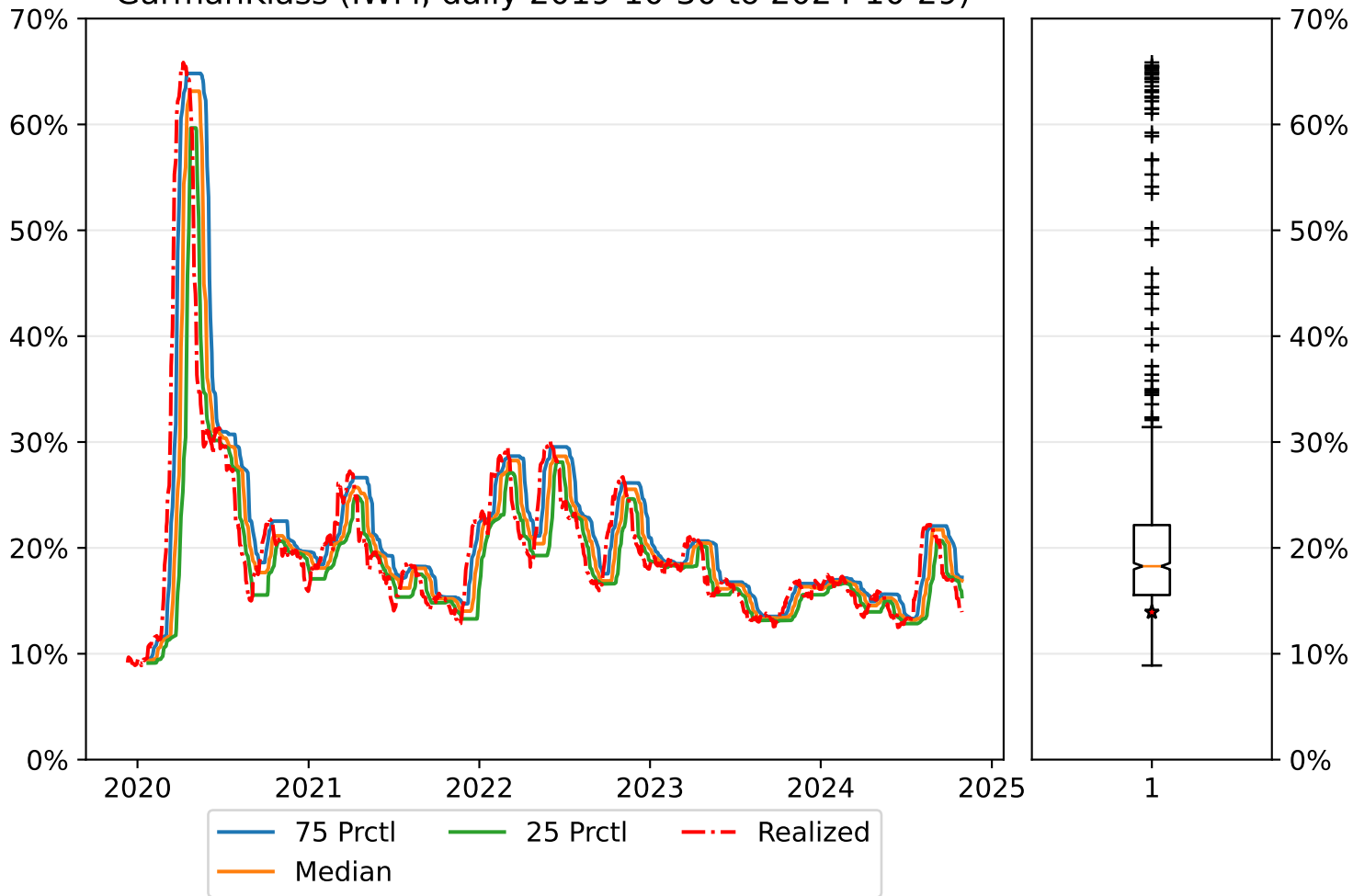


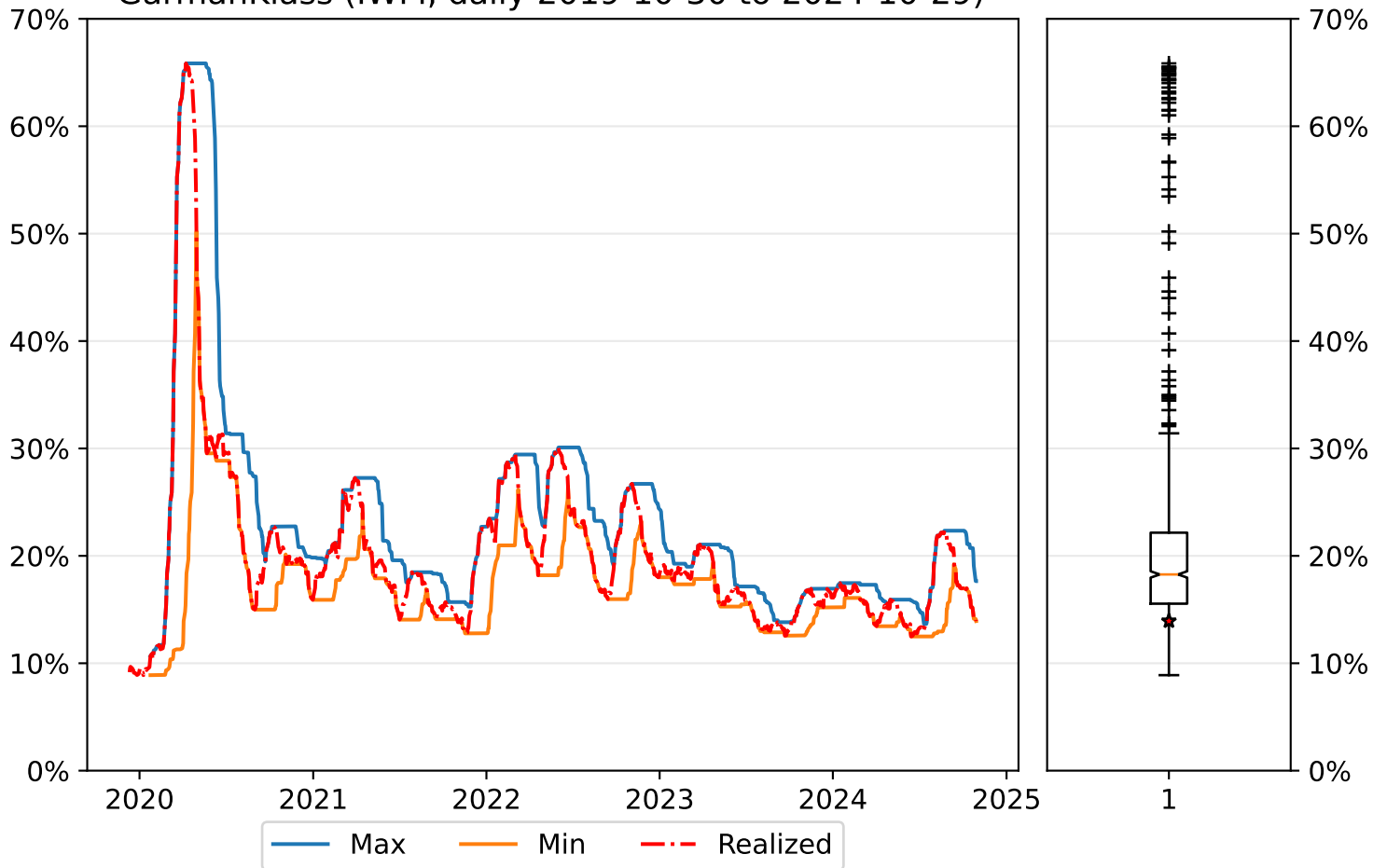
GarmanKlass (IWM, daily 2019-10-30 to 2024-10-29)



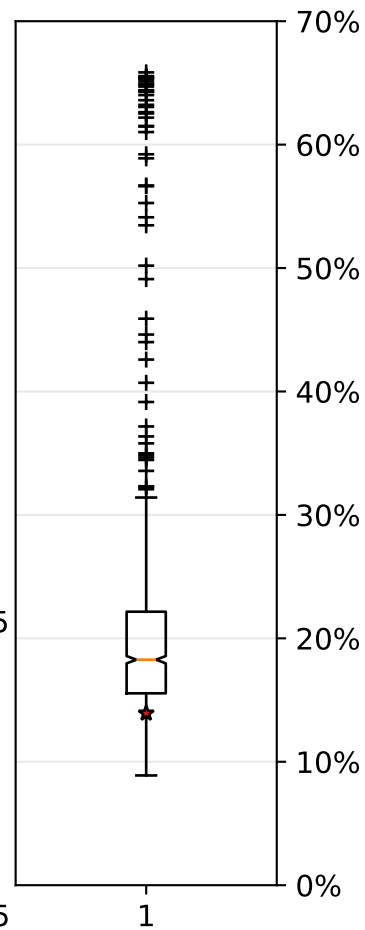
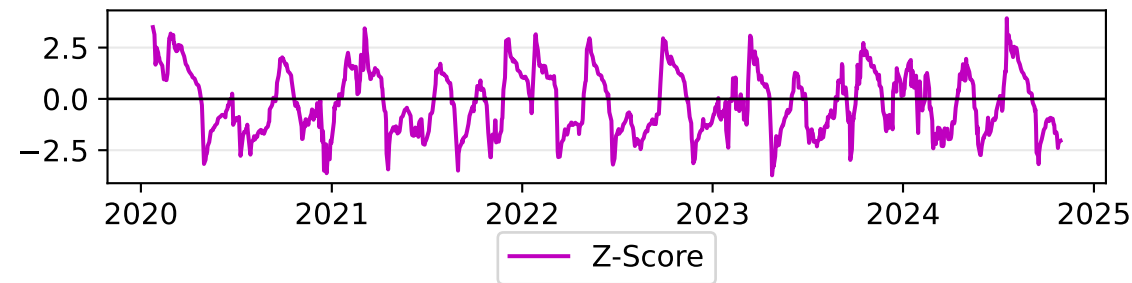
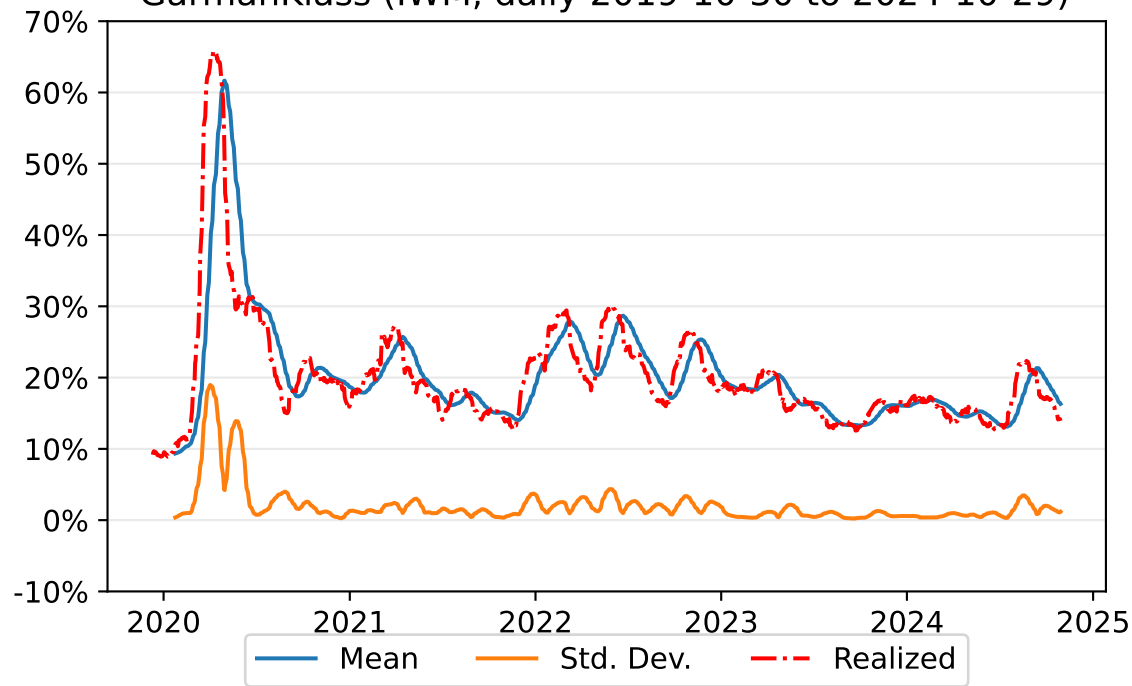
GarmanKlass (IWM, daily 2019-10-30 to 2024-10-29)



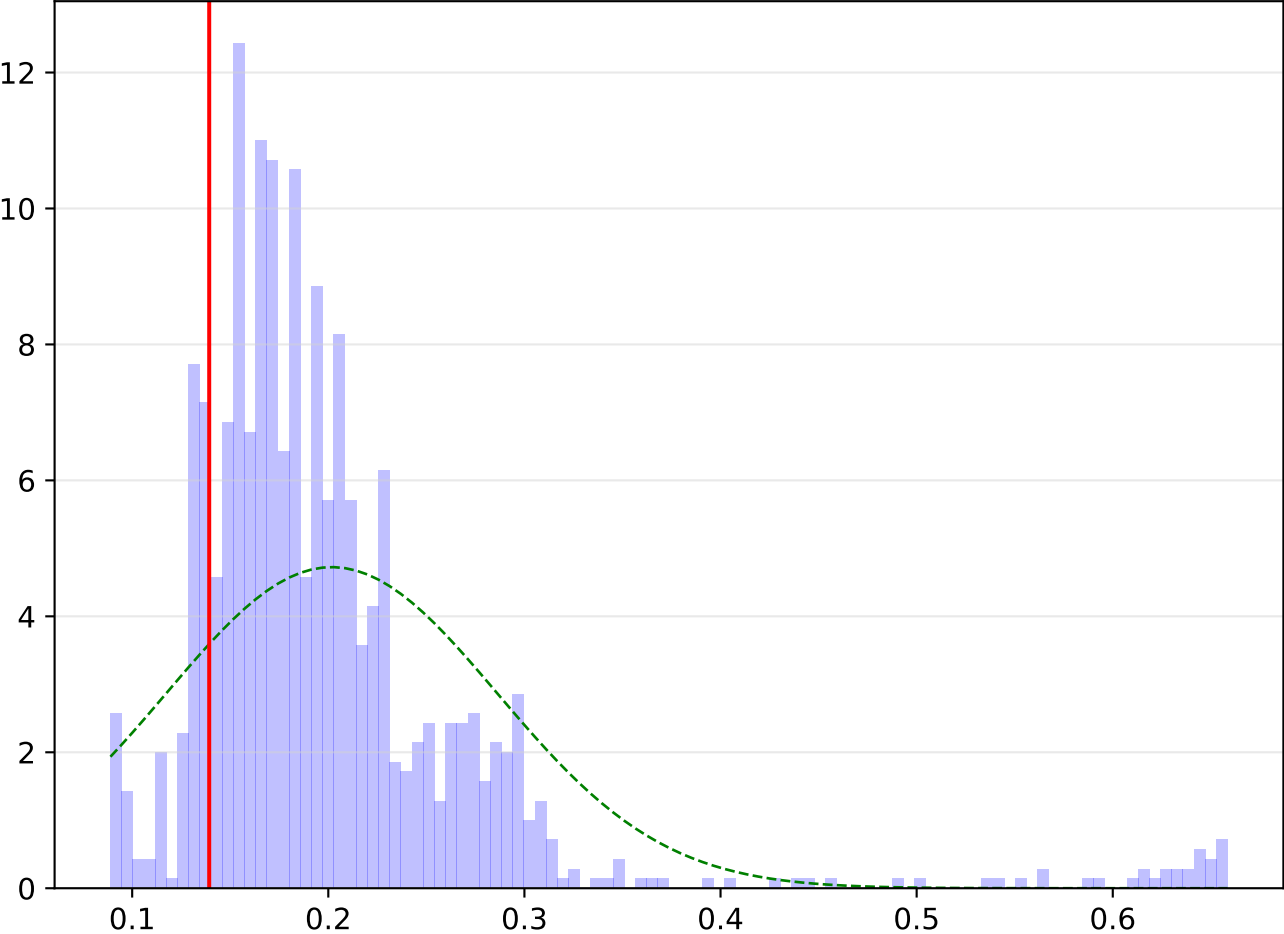
GarmanKlass (IWM, daily 2019-10-30 to 2024-10-29)



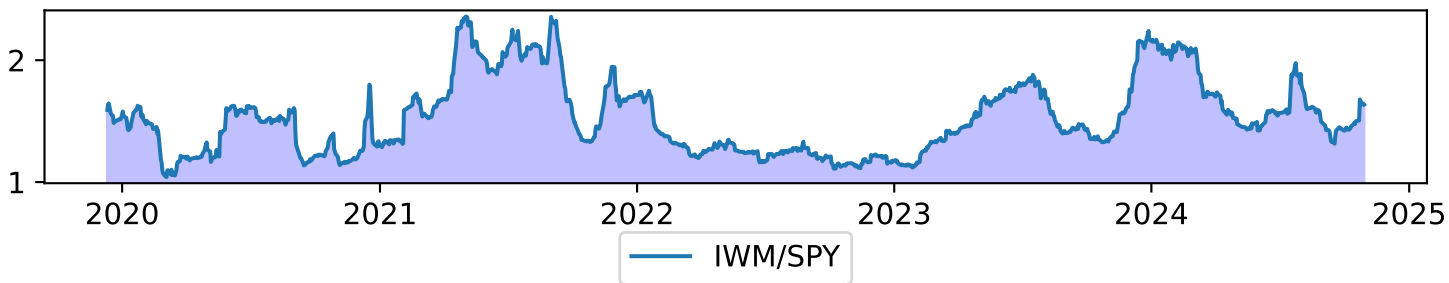
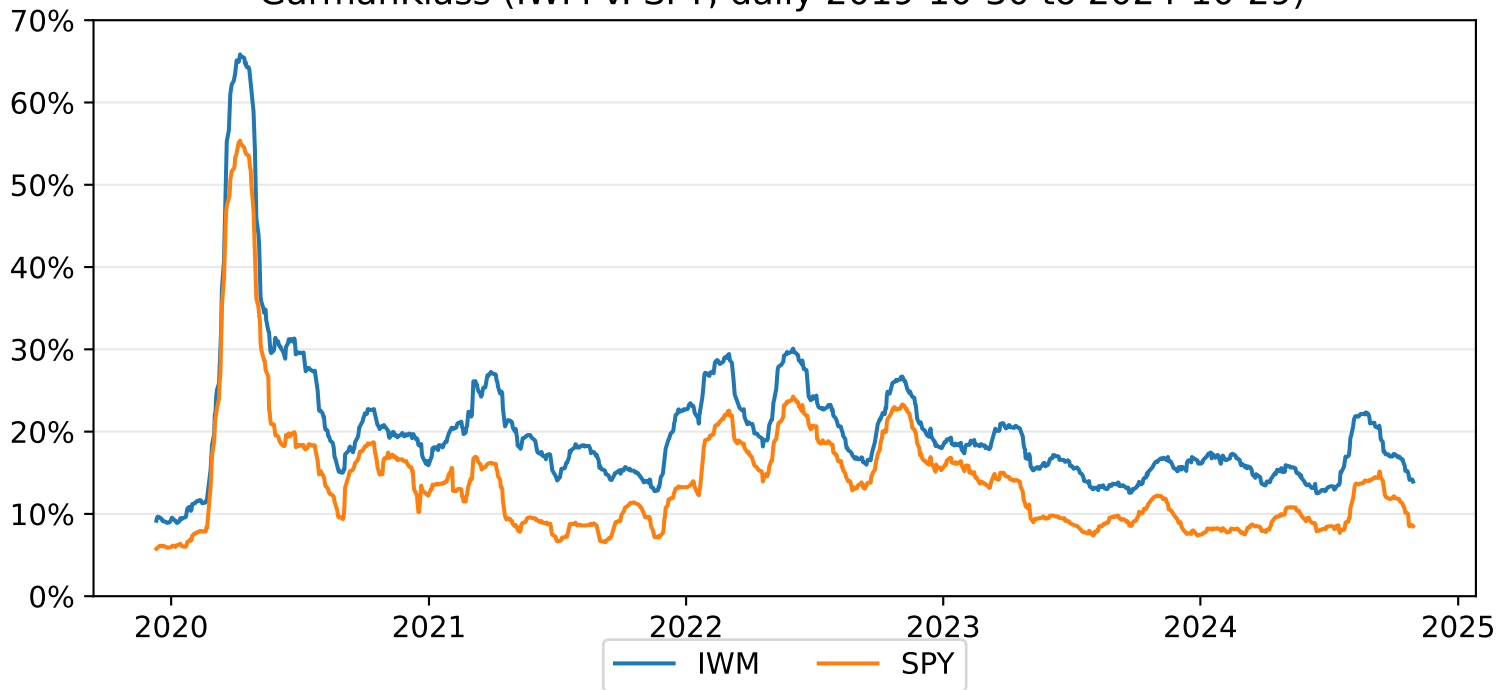
GarmanKlass (IWM, daily 2019-10-30 to 2024-10-29)



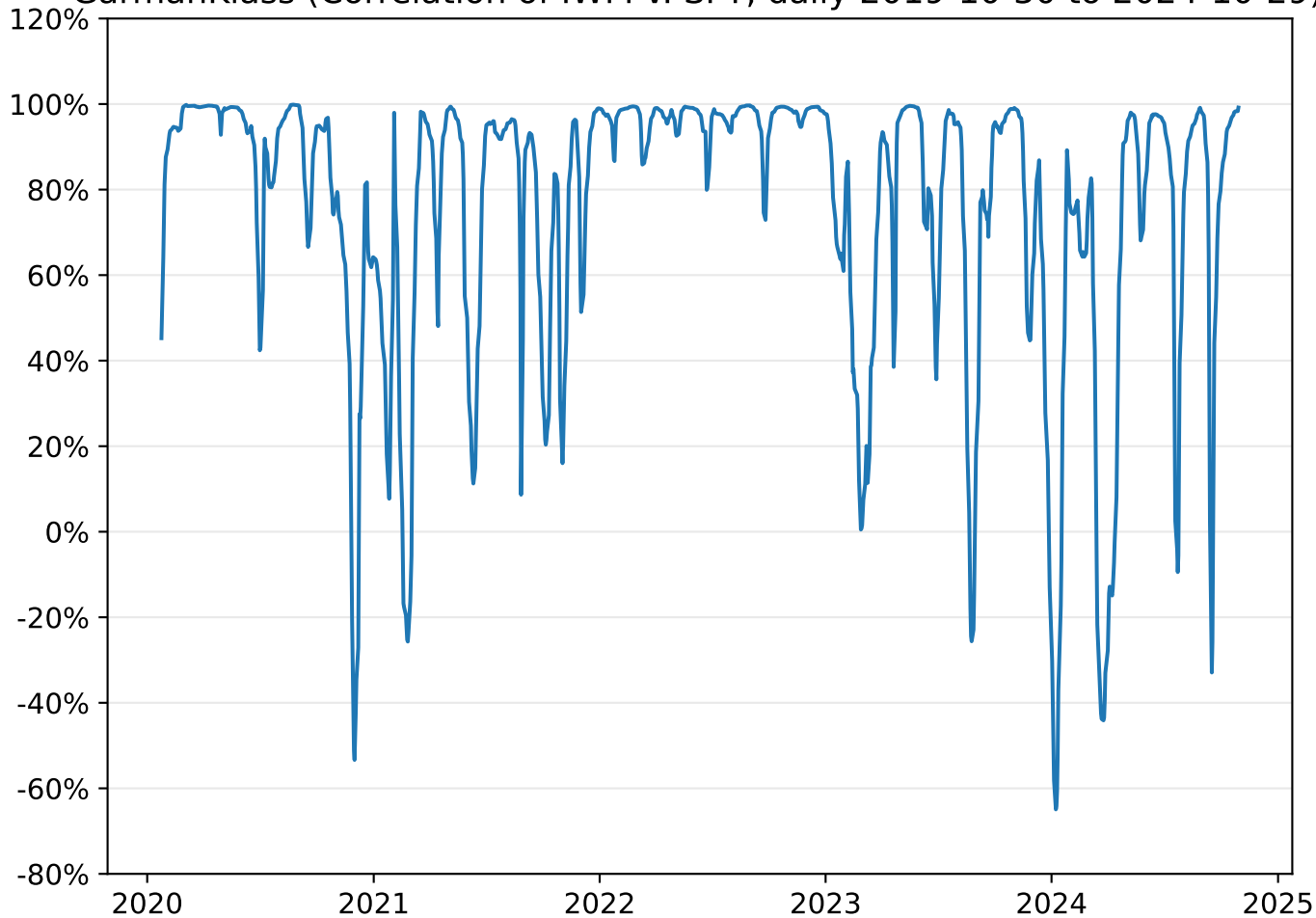
Distribution of GarmanKlass estimator values (IWM, daily 2019-10-30 to 2024-10-29)



GarmanKlass (IWM v. SPY, daily 2019-10-30 to 2024-10-29)



GarmanKlass (Correlation of IWM v. SPY, daily 2019-10-30 to 2024-10-29)



# OLS Regression Results

```

=====
Dep. Variable:          y      R-squared (uncentered):          0.972
Model:                  OLS    Adj. R-squared (uncentered):          0.972
Method:                  Least Squares    F-statistic:          4.231e+04
Date:                    Tue, 29 Oct 2024    Prob (F-statistic):          0.00
Time:                    23:56:11    Log-Likelihood:          2316.9
No. Observations:        1229    AIC:          -4632.
Df Residuals:            1228    BIC:          -4627.
Df Model:                 1
Covariance Type:          nonrobust
=====

```

	coef	std err	t	P> t	[0.025	0.975]
-----						
x1	1.3387	0.007	205.697	0.000	1.326	1.351

```

=====
Omnibus:                26.565    Durbin-Watson:          0.014
Prob(Omnibus):           0.000    Jarque-Bera (JB):       27.945
Skew:                   -0.369    Prob(JB):               8.55e-07
Kurtosis:                2.990    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.