Table 3: Combined Specification Parameter Estimates (Controlling for Crises)

$\alpha$	$\gamma$	β	$\lambda_0$	$\lambda_1$	$\lambda_2$	$\delta_0$	$\delta_{1,s}$	$\delta_{1,l}$	$\delta_1$	$\theta_0$	$\theta_{1,s}$	$\theta_{1,l}$	$\theta_1$	LLF	BIC
						Panel .	A: Short-te	erm compo	onent						
Proporti															
0.007	0.158***	0.841***	0.012	0.086	0.900***	-	0.027**	-	-	-	-0.013	-	-	-18567.209	37211.574
(0.014)	(0.019)	(0.018)	(0.020)	(0.150)	(0.173)		(0.011)				(0.020)				
	portional														
0.005*	0.166***	0.845***	0.011***	0.081***	0.907***	0.033***	-0.003***	-	-	0.009	-0.009	-	-	-18562.245	37220.934
(0.003)	(0.015)	(0.012)	(0.002)	(0.018)	(0.018)	(0.007)	(0.001)			(0.008)	(0.009)				
LRT	9.928***														
						Panel	B: Long-te	erm compo	nent						
Proporti	ional						0	•							
0.006**	0.160***	0.842***	0.011***	0.085***	0.902***	-	-	0.049***	-	-	-	-0.002	-	-18558.337	37193.830
(0.003)	(0.015)	(0.013)	(0.003)	(0.018)	(0.020)			(0.009)				(0.001)			
	portional														
0.006*	0.161***	0.843***	0.011*	0.080***	0.907***	0.003	-	0.045***	-	-0.054	-	0.049	-	-18557.658	37211.761
(0.004)	(0.015)	(0.014)	(0.006)	(0.030)	(0.036)	(0.003)		(0.017)		(0.060)		(0.049)			
LRT	1.358														
						Panel C:	Both comp	ponents (a	dditive)						.,
Proporti	ional						-	`	,						
0.006	0.161***	0.844***	0.012*	0.085**	0.901***	-	-0.005	0.054**	-	-	-0.012**	0.009	-	-18557.874	37212.192
(0.013)	(0.015)	(0.016)	(0.006)	(0.035)	(0.042)		(0.021)	(0.023)			(0.006)	(0.012)			
	portional														
0.006	0.162***	0.844***	0.011	0.081**	0.906***	0.008	-0.008	0.046***	-	-0.050	-0.002	0.048	-	-18557.379	37230.491
(0.003)	(0.016)	(0.014)	(0.007)	(0.036)	(0.043)	(0.006)	(0.007)	(0.012)		(0.067)	(0.002)	(0.041)			
LRT	0.990														
					Panel D	): Overall	conditiona	l variance	(multiplic	ative)					
Proporti															
0.007	0.158***	0.839***	0.011**	0.080***	0.907***	-	-	-	0.042***	-	-	-	-0.014*	-18562.833	37202.821
(0.009)	(0.016)	(0.014)	(0.005)	(0.031)	(0.035)				(0.010)				(0.008)		
	portional														
0.006	0.162***	0.841***	0.011	0.080	0.908***	0.020	-	-	0.023	-0.005	-	-	-0.004	-18560.408	37217.261
(0.012)	(0.025)	(0.018)	(0.016)	(0.084)	(0.101)	(0.059)			(0.083)	(0.016)			(0.022)		
LRT	4.850*														

Notes: This table shows the results of the QMLE parameter estimates for the MF2-GARCH-in-mean model. The numbers in parentheses are Bollerslev-Wooldridge robust standard errors. \*\*\*, \*\* and \* indicate significance at the 1%, 5% and 10% level. Each panel shows the results for a different specification, depending on which components of volatility are included. Each panel shows the proportional (no intercept) and non-proportional variant. The likelihood ratio test (LRT) statistic for the proportional variant against the non-proportional variant is also shown at the bottom of each panel. All specifications are estimated using daily U.S. market premium data for the period January 1964 to April 2025 inclusive. The moving average window size (m) which minmizes the Bayesian Information Criterionfor all specifications is m=63