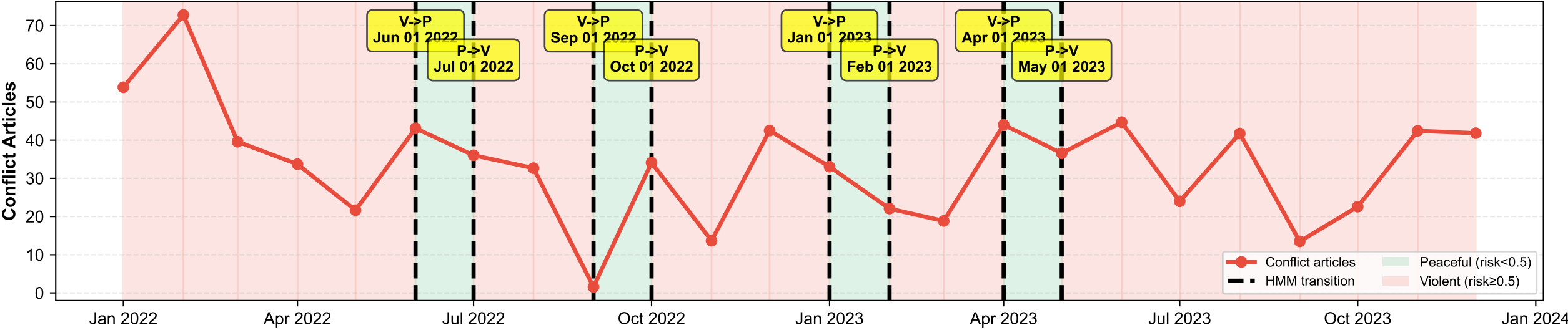
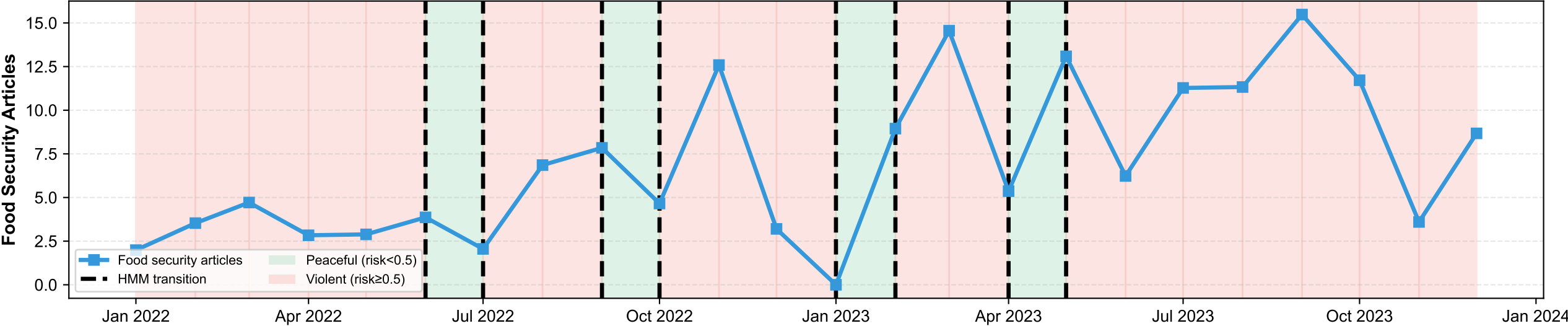


HMM Regime Detection with State Interpretation: Sudan Eastern Pastoral

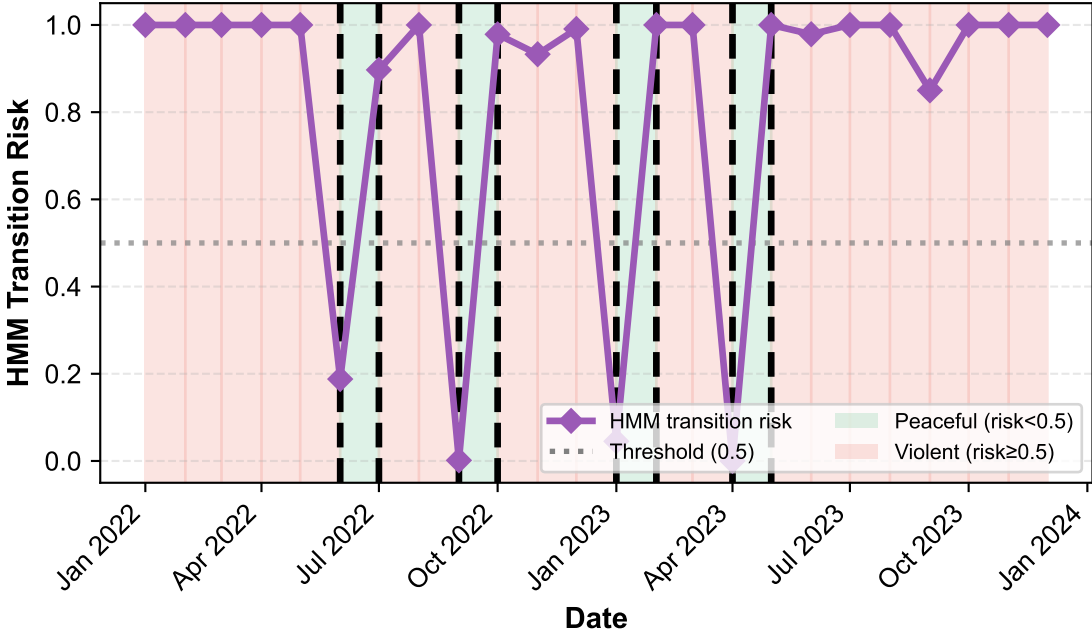
Panel A: Conflict News Coverage with HMM Regime Detection



Panel B: Food Security News Coverage



Panel C: HMM-Detected Regime Transition Risk



STATE INTERPRETATION

PEACEFUL (Green): 4/24 months  
Risk < 0.5  
Stay: 0%  
→ Violent: 100%

VIOLENT (Red): 20/24 months  
Risk ≥ 0.5  
Stay: 79%  
→ Peaceful: 21%

OBSERVATIONS

83% violent regime  
Persistent conflict  
Sudan civil war 2022-23