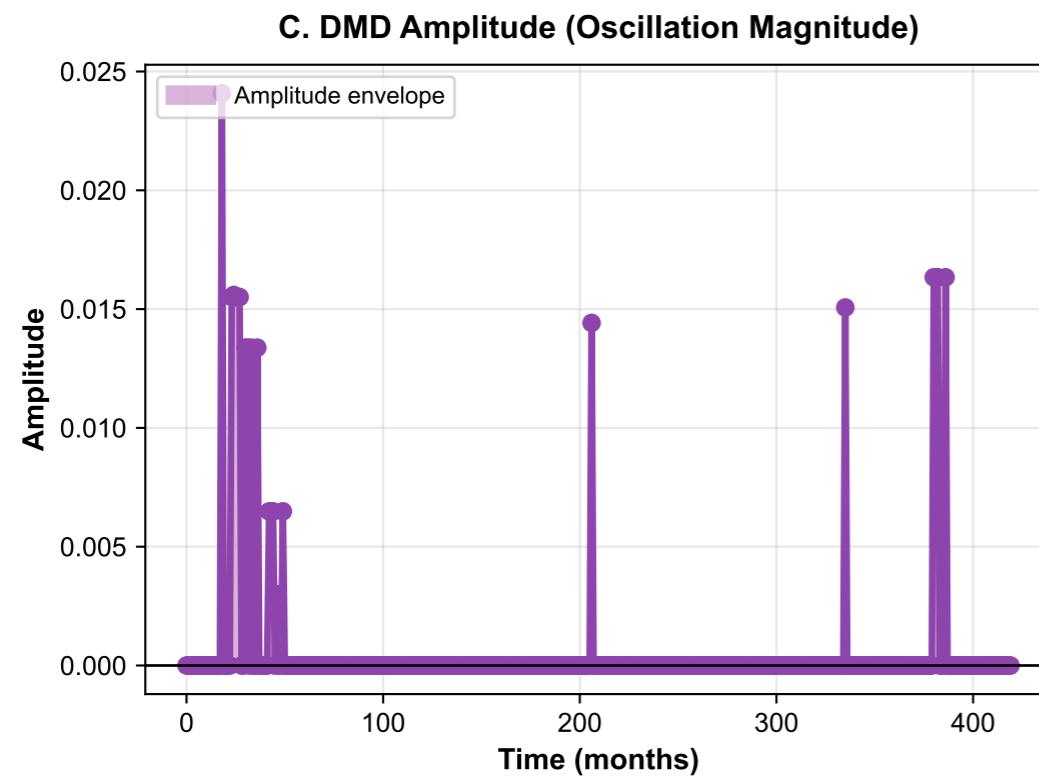
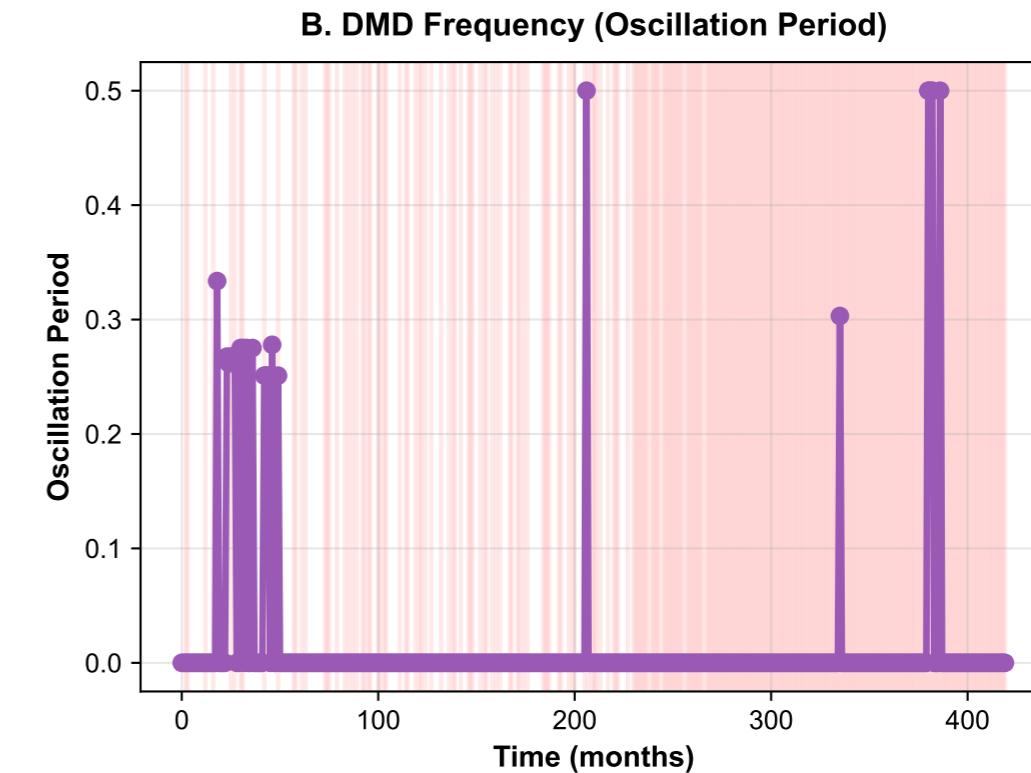
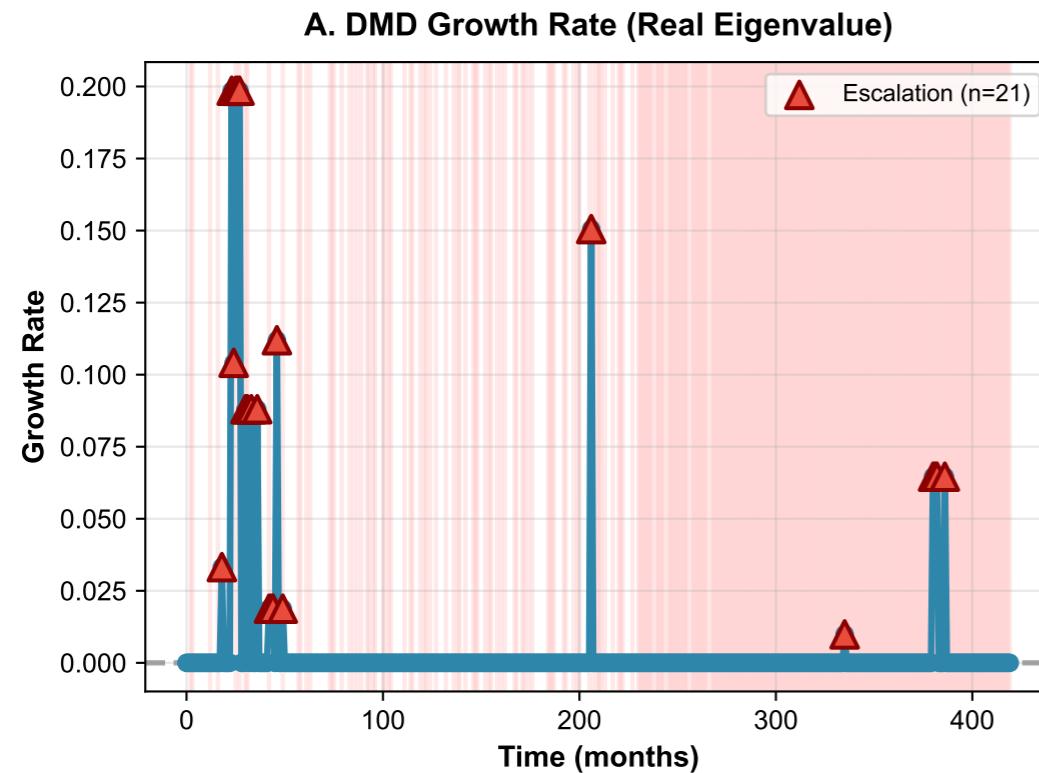


DMD Temporal Modes: Real Crisis Examples with Convergence Analysis



DMD TEMPORAL MODES: REAL DATA

Example: Sudan
Eastern Pastoral (420 periods)

THREE DMD FEATURES

- A. Growth Rate: 21 escalation periods
- B. Frequency: Oscillation period (seasonal)
- C. Amplitude: Pattern magnitude

CONVERGENCE
83.1% success (Baum-Welch algorithm)
16.9% failure (discarded)

RARE EVENTS FOCUS
11,836.0/63,140 crises (18.7%)
High humanitarian impact

FEATURE IMPORTANCE
Growth rate: Rank 28 (2.1%)
Complements HMM regime transitions