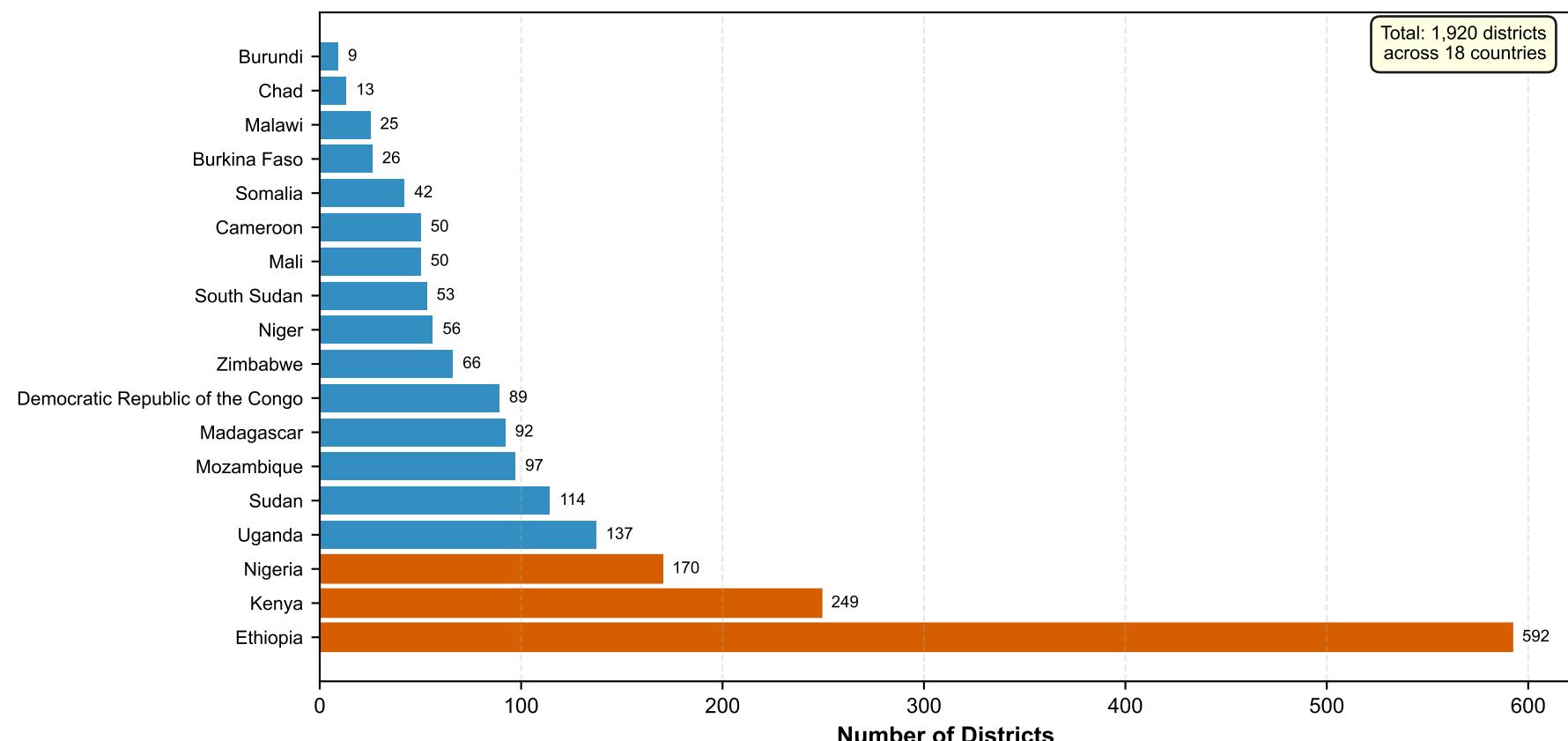
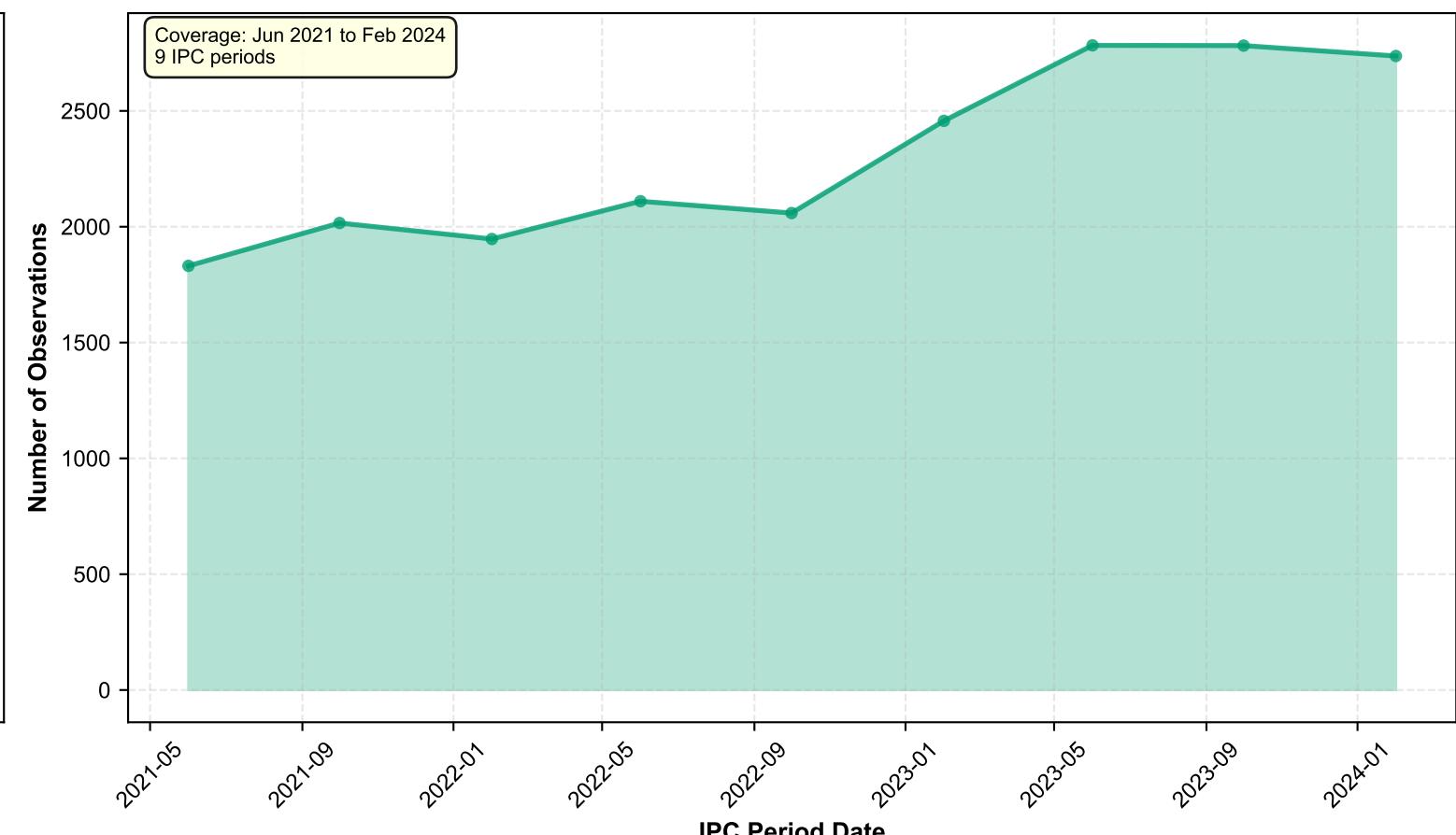


Data Quality Assessment: Coverage, Temporal Distribution, and Geographic Density

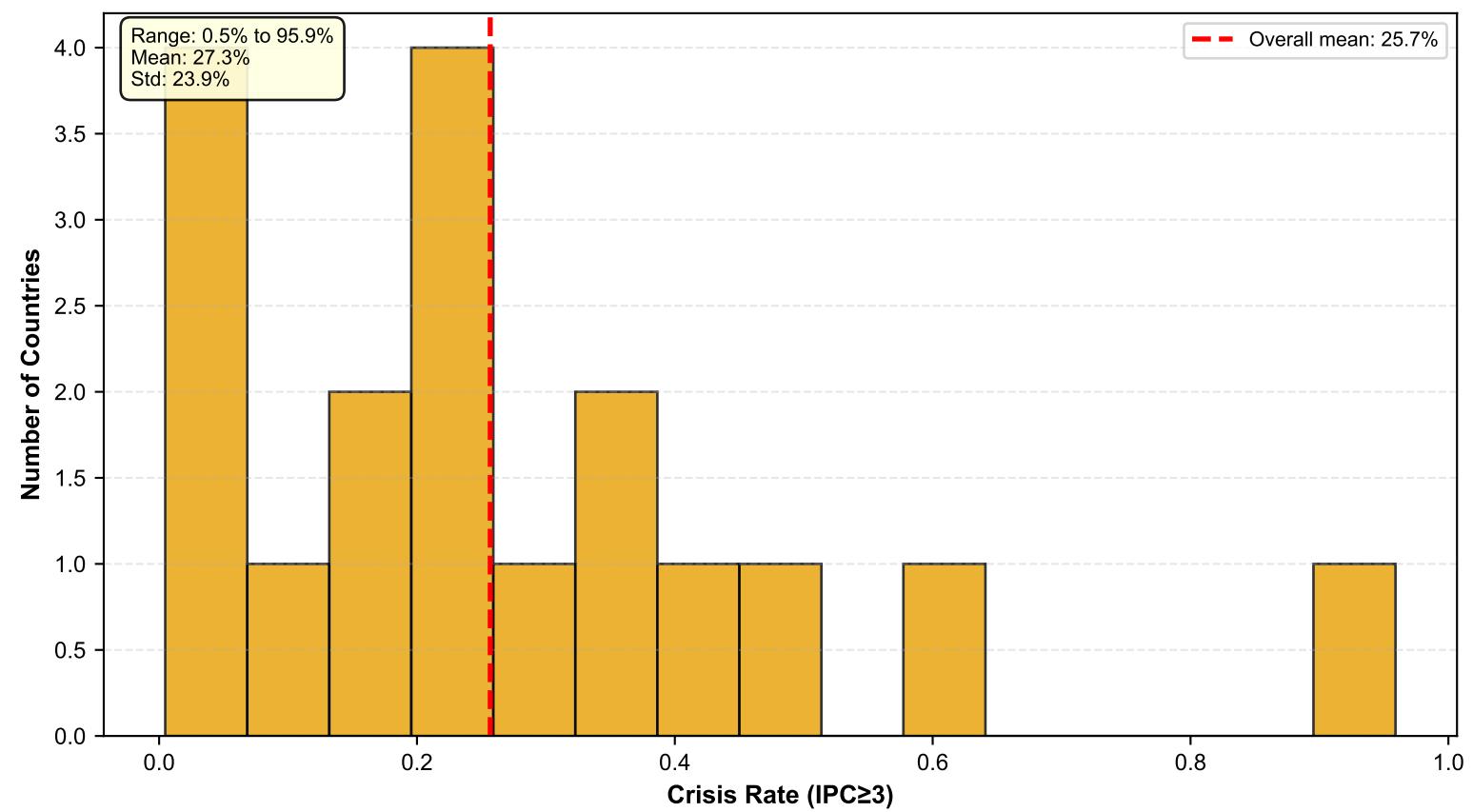
Panel A: Geographic Coverage by Country
District-Level Granularity



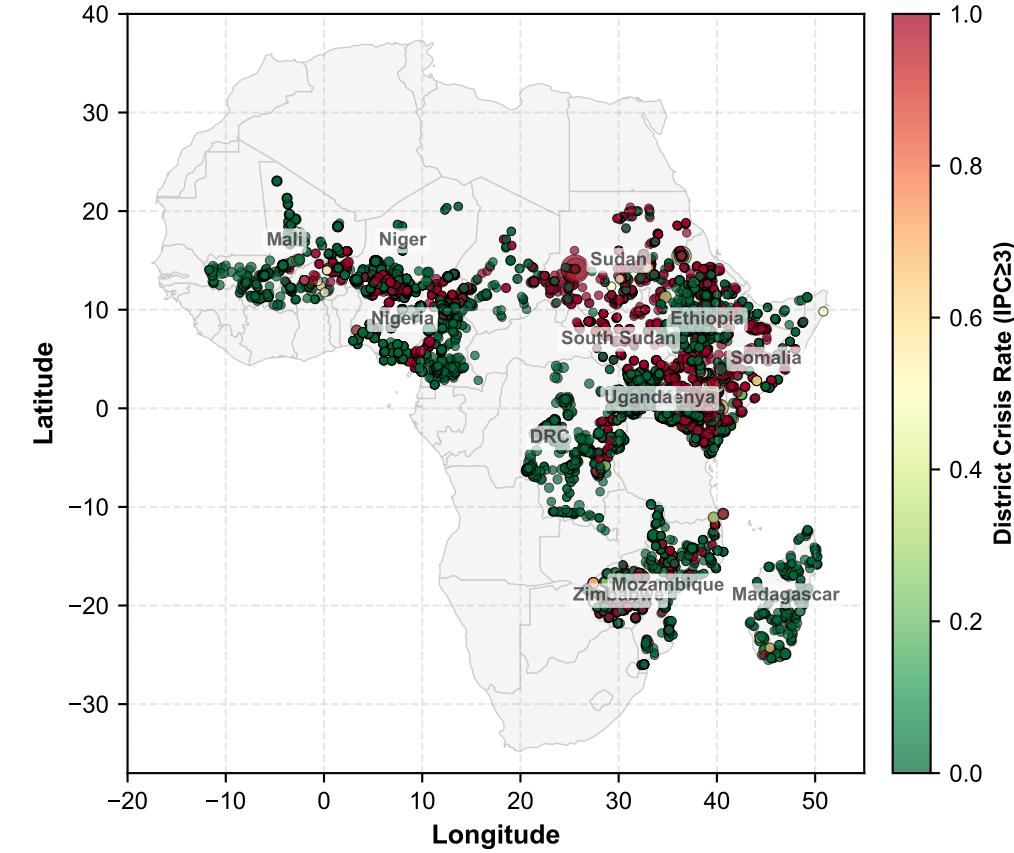
Panel B: Temporal Coverage (2021-2024)
Consistent Observation Density



Panel C: Crisis Rate Distribution by Country
Heterogeneity Across Contexts



Panel D: District-Level Observation Density & Crisis Rate
Size = Observations | Color = Crisis Rate



DATA QUALITY VALIDATION:

- Total observations: 20,722 | Countries: 18 | Districts: 1920
- Temporal coverage: Jun 2021 to Feb 2024 (9 periods)
- Overall crisis rate: 25.7% | Country range: 0.5% to 95.9%
- Geographic heterogeneity confirmed: Validates stratified spatial CV approach
- Consistent temporal density: No major gaps in observation coverage