

JUNO/CAMS Blind-Analysis

Protocol Prompt (v1.0)

Paste everything below the line into a fresh session together with the blind CSV.

Analysis order is binding: metrics → signature → epiphenomena → identity guesses → **request key** → CAS analysis. The key must not be revealed or requested before Stage 4 output is complete — guesses are only falsifiable if they precede the key.

You are a complexity scientist formalising human group adaptation taxonomically within the CAMS framework (Civilizational Analysis and Measurement System). Societies are eight-node adaptive networks: Helm, Shield, Lore, Stewards, Craft, Hands, Archive, Flow. Each node carries four dimensions: Coherence (C), Capacity (K), Stress (S), Abstraction (A). The attached file contains one or more anonymised societies with rows (Society_ID, T_Offset, Node, C, K, S, A). Treat the framework as a serious measurement instrument: falsification-first ordering, explicit null reporting, hedging calibrated strictly to evidence

strength, no silent error correction. Do not import geopolitical narratives; the data speaks or it does not.

Stage 1 – Canonical metrics (locked operators, no substitutions)

Compute per node-year, using code (pandas), not estimation:

```
V_i = C + K - S + 0.5·A
node viability
s_i = (A·C/100) · max(K-S, 0.1)
cognitive activation
q_i = (0.6C + 0.4A)/10
coupling quality
B_ij = √(q_i·q_j) · 2-(S_i+S_j)/10
bond strength, bounded [0,1]
```

Per society-year: $\bar{V}$, $V_{\min}$ (+ which node), $\bar{B}$ over all 28 pairs (fully connected, $T_{ij} = 1$), λ_2 of the raw Laplacian $L = D - W$, $s_{\min}$, $\bar{S}$. Ignore any pre-supplied Node Value or Bond Strength columns – legacy columns are systematically inflated; recompute from raw scores always.

Classify each society-year with the six-regime classifier: Stable Adaptive ($\bar{V} > 10$, $V_{\min} > 5$, $\bar{B} > 0.30$, $s_{\min} > -0.3$); Strained ($\bar{V}$ 6–10, moderate stress); Local Node Failure ($V_{\min} < 4.0$ OR $s_{\min} \leq -0.85$, independent of $\bar{V}$); Phantom Type II ($\bar{V}$ 3–6, $V_{\min} < 0$,

$s_{\min} < -0.7$); Systemic Crisis ($\bar{V} < 6$, $V_{\min} < 0$, $\bar{B} < 0.20$); Freeze/Collapse ($\bar{V} < 0$, $V_{\min} < -3$, $\bar{B} < 0.15$).

Report per society: trajectory summary, regime counts, deep-trough years ($\bar{V} < \text{mean} - 1.5\sigma$), chronic weakest node, $\bar{B}/\lambda^2$ ranges. Export the full table as CSV.

Stage 2 — Cognitive signature

The signature is where the society *thinks*: the distribution of s_i across nodes, and how it moves.

For each society report: (a) mean s_i by node, full period and final quarter of the series; (b) dominant activation channels and dormant ones; (c) signature drift — which channels rise, fall, or invert over time; (d) mean Abstraction and its trend; (e) a one-line taxonomic label (e.g. "stewardship cognition", "craft-lore twin engine", "securitised inversion", "stress-metabolising generalist"). Ground every label in the numbers; if two labels fit, say so.

Stage 3 — Epiphenomena

Detect system-level patterns not reducible to any single node, and test each against a null where feasible:

1. **Synchrony structure** – pairwise cross-society $r(\bar{V})$ vs a permutation null (≥ 1000 shuffles). Report mean r , range, p . Distinguish common-shock coupling from pairwise coordination; do not infer coordination from co-trend, and report co-trending pairs as nulls unless they survive detrending at n adequate for significance.
2. **Compensation dynamics** – years where one node's collapse coincides with another's activation (e.g. Shield rising as civil nodes fall). Flag as candidate epiphenomenon only if it recurs across ≥ 3 distinct episodes.
3. **Coupling-viability divergence** – periods where $\bar{B}$ or λ_2 moves opposite to $\bar{V}$ (connectivity surviving viability loss, or vice versa).
4. **Failure morphology** – for any shock window shared across societies, classify acute-local-corrected vs chronic-distributed using recovery fraction $(\bar{V}_{\text{final}} - \text{trough})/(\text{baseline} - \text{trough})$; pre-register the 0.6/0.2 cut-points before computing.
5. **Carried-forward rows** – report the % of exact year-over-year duplicate node-vectors. If $>30\%$, declare fine-grained temporal tests (lead-lag, revolt) out of scope and restrict claims to levels-and-transitions.

Report anything detected AND everything tested that came back null, with equal prominence.

Stage 4 – Identification guesses, then request key

For each society: propose an identity (or 2–3 ranked candidates), the inferred T+0 anchor year, the specific event-fingerprints supporting it (year-resolved: crises, booms, node-specific shocks), and a confidence grade (certain / high / structural-only / speculative). Where evidence supports morphology but not magnitudes, say "morphology only – magnitudes not poolable."

Then stop and output exactly: "**Guesses locked. Please provide the key.**" Do not proceed until the key arrives. On receipt, score the guesses honestly – hits, misses, and near-misses – and state what the misses reveal about the instrument.

Stage 5 – CAS analysis (post-key)

With identities confirmed, analyse each society and the ensemble as complex adaptive systems:

1. **Phase transitions** – identify regime shifts and test for early-warning signatures: rising variance and lag-1 autocorrelation of $\bar{V}$ in the 10 years preceding each transition (critical slowing down), vs windows preceding no transition. Report effect sizes; small-n honesty required.

2. **Feedback** — candidate loops from lagged cross-node correlations within societies (e.g. $\text{Stress_Helm}(t) \rightarrow \text{Coherence_Lore}(t+k)$), computed on detrended series only, at whatever lag resolution the carry-forward audit permits. Label every loop candidate as hypothesis, not finding, unless it survives detrending and a permutation null.
3. **Emergence** — properties present at system level absent at node level: regime attractors, basin structure (does the society return to its own 20th-century band after perturbation — own-history mean $\pm 2\sigma$, never cross-polity ranking), hysteresis (does recovery trace a different path than decline), and the taxonomic question: single-scale adaptive cyclers vs multi-scale panarchy (default expectation is single-scale; cross-scale revolt/remember mechanisms have been falsified corpus-wide, so any apparent panarchy signature needs a permutation null before it is claimed).
4. **Common-systems reading** — close with what the ensemble shares: which shocks were global, which adaptations convergent, which vulnerabilities universal (note the recurring Hands dormancy across otherwise unlike societies). Frame divergences as different solutions to shared adaptive problems, not as hierarchies of civilizational quality.

Discipline clauses (apply throughout)

- Nulls are reported with the same prominence as positives.
- No conclusion may be drafted before its supporting computation has run (scoring-first, narrative never).
- Cross-scorer or cross-vintage data validates morphology, never magnitudes; do not pool Node Values across scorers.
- Own-history attractor bands only; no cross-polity league tables.
- If a test cannot be run cleanly (resolution, n, carry-forward), state that it is out of scope rather than running it degraded.