AraY2 v1.0 - Orbital-Calculation Architecture for Phase-Deviation Measurement in Solar System Bodies

96-Hour Public Non-Enabling Post-Event Verification

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Release type	Public non-enabling post-event verification note
Verification window	96-hour blind forecast window
Disclosure level	Consolidated outputs only. No algorithm, formulas, coefficients, target mapping, coordinates, orbital-state vectors, or minute-by-minute sequences.

Executive statement

AraY2 v1.0 is a new orbital-calculation and measurement architecture designed to identify, classify and quantify phase-deviation states in selected Solar System orbital systems. This public release reports a 96-hour post-event verification without disclosing the internal calculation method.

Architecture definition

This release is not a conventional trajectory-prediction note focused only on where a celestial body is located. AraY2 is a calculation framework developed to determine when an orbital system enters an active deviation state, when it remains in a neutral/control state, and what consolidated engineering outputs are associated with that state.

In practical terms, AraY2 moves orbital analysis from position-only observation toward a unified measurement layer that captures phase behavior, physical transition content, energetic signature, asymmetry retention and modular displacement state.

What AraY2 detects

Detected layer	Public non-enabling meaning
Phase-change behavior	Identifies whether a system enters an active orbital-deviation state during the verification window.
Physical transition content	Identifies whether the event behaves as a finite transition band rather than a simple geometric instant.
Energetic signature	Classifies whether the verified state produces a consolidated energetic output associated with orbital phase behavior.
Asymmetry retention	Detects whether entry and exit behavior around the event retain measurable directional imbalance.
Modular displacement	Classifies accumulated displacement output only when the system enters an active state.
Neutrality control	Returns neutral output when no active phase-deviation state is present.

96-hour verification result

System label	Forecast class	Post-event result	Status
System A	Active timing-deviation band	Verified inside declared public band	PASS
System B	Active timing-deviation band	Verified inside declared public band	PASS
System C	Control-band response	Verified as neutral/control response	PASS

Public result interpretation

The three-system verification matrix was confirmed: Systems A and B passed as active-band cases, while System C passed as the neutral/control case.

The result separates motion from phase activation: movement alone does not produce modular output.

The disclosed result is deliberately consolidated. It shows what AraY2 detects without exposing how the internal architecture processes it.

Engineering relevance

Application area	Engineering value
Precision orbital navigation	Identifies timing-deviation behavior around critical orbital events before it becomes operationally material.
Trajectory-correction planning	Supports early correction-window awareness and fine maneuver-budget evaluation.
Energetic-signature auditing	Classifies whether active systems carry a consolidated energetic output associated with orbital phase behavior.
Mission-risk reduction	Separates active states from neutral states, improving attention on relevant navigation windows.
Controlled aerospace software	Supports future black-box orbital-deviation measurement engines without public disclosure of the computation path.

Protected disclosure statement

Results generated under AraY2 architecture. Detailed processing methodology and internal validation parameters remain confidential and are not disclosed in this public release.

Repository metadata description

AraY2 v1.0 public non-enabling post-event verification note. This record reports the consolidated result of a 96-hour blind forecast across three anonymized Solar System orbital systems. The release discloses final verification status, public forecast classes, application scope and protected-output logic only. Detailed processing methodology and internal validation parameters remain confidential.

Author declaration

Luis Pablo Araya Salazar, Engineer, Chile, declares authorship of AraY2 v1.0 as an original orbital-calculation and orbital-deviation measurement architecture. This public release is non-enabling and intended as a professional post-event verification record.