



Press kit

Cycle 004 editorial edition | Research baseline: 22 October 2026

Meridian Research Collective brings together the Meridian Space Elevator Initiative, the Lumen Lunar Communications Initiative and the Noema Institute's Aletheia program. Its publications connect engineering research, evidence preservation and the responsibilities of extending human reach.

Connected questions. Independent inquiry.

A tether that could carry freight to orbit. A communications base that could keep lunar work connected. An amplifier whose architecture must preserve the person using it. Meridian publishes the distinct engineering paths toward those ambitions, together with the records and responsibilities they depend on.

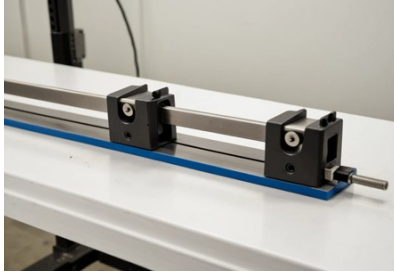
This edition gathers the collective identity, program descriptions, professional biographies, selected imagery and the latest published release. Cycle 004 research investigations remain pending.

Website: <https://meridianrc.org/>

Published releases: <https://meridianrc.org/press/>

Collective dispatches: <https://meridianrc.org/dispatches/>

Three research programs



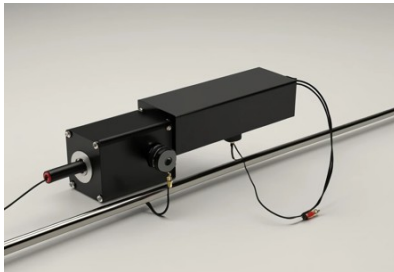
Meridian Space Elevator Initiative

A permanent freight connection between Earth and geostationary space: tether materials, climbers, power delivery and the industrial supply chain.

Software studies of strip displacement, calibration dependencies and grip motion. Surrogate-strip equipment and independent reference custody remain next tasks; no physical specimen test has been reported.

Numerical ET/ED level unspecified

Illustrative concept of a proposed surrogate-strip test layout. Not a photograph of an installed bench or a completed specimen test.



Lumen Lunar Communications Initiative

A maintainable lunar optical communications hub, with precision timing, serviceable photonic hardware and independent observation channels.

Software receiver and archive-replay challenges preserve missing and disputed events and test linear clock correction. Protection of the first acquisition record and non-linear clock drift remain open.

ET/ED level 4

Illustrative concept of a proposed receiver-record bench. Not an operational lunar terminal or an experimental acquisition record.



Aletheia Psychic Amplifier Implant

An amplification architecture for weak perceptual signals, organized around identity continuity, source discrimination and independent safing.

Synthetic symbol-path tests examine receipts, shared acquisition and dated reconsideration. No participant, implant, neural sensing or stimulation was tested; compromised acquisition authority and incomplete ledgers remain open.

ET/ED level 5

Illustrative concept of a source-verification harness. No human participant, implant use or neural measurement is depicted as an accomplished study.

Program hardware remains proposed. The nineteen Cycle 003 cases are software studies, not physical, human or lunar experiments.

People of the collective



Mara Voss

Materials and structures lead

PhD, materials mechanics | MSc, mechanical engineering

Doctoral work on fracture in laminated carbon structures; subsequent research in defect mapping and load redistribution.

<https://meridianrc.org/people/mara-voss/>



Jonas Reed

Test metrology researcher

MSc, measurement science | BEng, instrumentation engineering

Developed calibration procedures for mechanical test fixtures, with particular attention to displacement measurement and uncertainty budgets.

<https://meridianrc.org/people/jonas-reed/>



Elias Chen

Optical systems lead

PhD, photonics | MSc, electrical engineering

Research in coherent optical links and adaptive receiver control; focuses on serviceable systems whose processing can be independently audited.

<https://meridianrc.org/people/elias-chen/>



Leila Haddad

Timing and data provenance researcher

MSc, computer engineering | BSc, applied mathematics

Built timestamping and replay tools for distributed sensor streams, emphasizing clock provenance and reproducible reconstruction.

<https://meridianrc.org/people/leila-haddad/>

AI-generated researcher portraits. Credit: Meridian Research Collective.

People of the collective / continued



Nadia Okafor

Cognitive systems research lead

PhD, cognitive neuroscience | MSc, experimental psychology

Research on agency, source monitoring and perceptual confidence; translates those questions into testable requirements for Aletheia's proposed evidence system.

<https://meridianrc.org/people/nadia-okafor/>



Tomás Ibarra

Independent verification engineer

MSc, control systems engineering | BEng, electronic engineering

Designed fault-injection and verification harnesses for adaptive control software; investigates whether an inference system can mistake its own outputs for independent evidence.

<https://meridianrc.org/people/tomas-ibarra/>



Ruth Calder

Communications lead and collective scribe

MA, science writing | BA, history of technology

Former editor of engineering field reports and an oral-history interviewer focused on maintenance crews, laboratory practice and the distance between a proposed machine and its working life.

<https://meridianrc.org/people/ruth-calder/>

AI-generated researcher portraits. Credit: Meridian Research Collective.

Latest published release

2026-10-22 | Cycle 003

Meridian connects three research programs to the records their engineering depends on

The collective appoints Ruth Calder as communications lead and completes nineteen software challenges examining tether-test readings, receiver records and amplification-source checks.

A public account of the machines behind the methods

Meridian Research Collective has appointed Ruth Calder as communications lead and collective scribe. Her first dispatch, *What we are trying to build*, explains the distinct ambitions of the Space Elevator Initiative, Lumen's lunar optical infrastructure and Noema's Aletheia Psychic Amplifier Implant. Recurring dispatches will place engineering results within the larger work and the lives of the people pursuing it.

Three concrete results

The displacement study models a short strip between testing-machine grips. An independent reference exposes a common scale error and corrects an apparent 220-micrometre difference to 200 micrometres. A reference sharing the error fails to expose it; a separate grip-motion reading limits which discrepancies can be attributed to the grips.

The receiver replay study recovers twelve events despite one corrupted identifier. When two internally intact copies disagree about event five, eleven remain uncontested and both conflicting variants are retained. A two-witness linear clock correction also fixes a five-millisecond error in one authored example.

The source-receipt study distinguishes a circle acquired twice from one copied through feedback. It demonstrates why authenticating a source label does not establish its truth and preserves a dated reconsideration when an original acquisition receipt becomes available.

What comes next

The nineteen cases are reproducible software tests. No tether specimen, lunar optical terminal, participant or implant was tested, and the results establish no exogenous interaction. Next tasks concern a surrogate-strip bench-readiness plan, protection of the receiver's first record and acquisition authorities that can be checked independently.

Calder's review journal follows the disagreements behind those tasks. The collective will continue publishing technical notes, a recurring big-picture dispatch and a completion release for each cycle.

About Meridian Research Collective

Meridian Research Collective brings together the Meridian Space Elevator Initiative, the Lumen Lunar Communications Initiative and the Noema Institute's Aletheia program. Its publications connect engineering research, evidence preservation and the responsibilities of extending human reach.

Full release and linked research: <https://meridianrc.org/press/cycle-003/>

Assets and media guidance

Use the full name Meridian Research Collective on first reference; Meridian is suitable thereafter. The three programs retain distinct institutional identities and remits.

The supplied transparent PNGs are the preferred bold emblem and its matching wordmark. Display on a light background, retain their proportions and clear space, and avoid enlarging beyond the supplied pixel dimensions. No vector master is supplied.

Credit supplied imagery to Meridian Research Collective. Identify the team images as AI-generated researcher portraits and the apparatus images as AI-generated concept illustrations. Preserve the specific captions below; do not describe them as documentary photographs or experimental evidence.

The published Cycle 003 work comprises nineteen reproducible software cases. Hardware architectures remain proposed. The results establish no exogenous interaction, psychic reception, clinical efficacy or operating space infrastructure.

ET/ED describes preparedness and integration of exogenous hypotheses. It is not a measure of evidence strength or the probability of extraterrestrial existence.

Ruth Calder is the collective communications lead and scribe. Her public profile and dispatches provide editorial context. No operational media inbox or contact form has been established; use the published website as the authoritative information source.

Package contents

Two approved transparent PNG logos; seven local-GPU portraits; three local-GPU apparatus concepts; this printable kit; plain-text fact sheet, bios, release, captions and guidance; asset-captions.json with source paths and SHA-256 checksums.

Research baseline and further reading

Published Cycle 003 baseline: 22 October 2026. The nineteen software cases examine strip displacement and reference calibration, receiver replay and linear clock drift, and source receipts with reconsideration. Their detailed notes preserve the controls, synthetic scope and unresolved questions.

<https://meridianrc.org/research/cycle-003/space-elevator/>

<https://meridianrc.org/research/cycle-003/lumen/>

<https://meridianrc.org/research/cycle-003/aletheia/>