THE ERIS ORIGIN MAP EXPLAINER

(A) Title + topic line. Cosmic Origin Map Explainer Reels Automation | V9.3 order | High-Retention Engine | 11 scenes x 7 seconds = 77 seconds | 9:16 animated 3D cosmic-map documentary.

Topic: Eris (136199 Eris), dwarf planet in the scattered disc. **Question the video answers:** who discovered it, from where and when, who named it and why, and what is the real story? **Narration language:** English (default). **Hero object:** Eris floats highlighted at the center of every cut of all 11 scenes. **Naming tale (labeled as a tale):** the belief that "Xena" was its official name. **Documented record:** the discoverers proposed Eris and the IAU approved it in September 2006. Data taken from the uploaded Cosmic Origin Map Explainer PDF (structure, rules, hero-object lock, Data Sheet format) and the reference links openai/openai-realtime-solar-system, Ishanoshada/Planet3D, github.com/topics/solar-system-simulation and y-bash/SolarSystemSimulator (used as render-route references).

(B) Scene overview

Scene / time	Story role	What the viewer gets	Words
S1 0:00-0:07	SHOCKING HOOK	Body name first, then the 2003 / 2005 paradox; fly-out from the label tag on its orbit.	13
S2 0:07-0:14	CURIOSITY EXPANSION	Dwarf planet, tilted orbit in the scattered disc, size and period.	16
S3 0:14-0:21	DISCOVERY MYSTERY	Pluto alone since 1930; could a rival lurk farther out?	16
S4 0:21-0:28	FIRST DISCOVERY + RE-HOOK	Names 2003 UB313, Xena, "tenth planet"; found in old plates. Re-hook.	14
S5 0:28-0:35	TECHNICAL REVEAL	5 January 2005, Brown's team at Palomar, very bright ice.	16
S6 0:35-0:42	UNEXPECTED COMPARISON	California telescope vs Greek name; tease of a naming tale.	15
S7 0:42-0:49	MID-VIDEO RE-HOOK (THE NAMING TALE)	Tale: "Xena was the official name"; fan vs astronomer. Re-hook.	16
S8 0:49-0:56	ESCALATING CONSEQUENCE	Headlines spread Xena; no official approval.	16
S9 0:56-1:03	MAIN MYSTERY PAYOFF (DOCUMENTED RECORD)	Record: Eris proposed by discoverers, IAU approval Sept 2006.	17
S10 1:03-1:10	COSMIC LEGACY	Dysnomia and fellow dwarf planets Pluto, Haumea, Makemake.	16
S11 1:10-1:17	FINAL PAYOFF + SEAMLESS LOOP	No probe yet; loop question answered by Scene 1.	15
Total		11 scenes x 7 s = 77 s	**170**

(C) Per-scene package

Each scene: image prompt, video prompt (Cut A/B/C/D with exact timings, map move and hero state), narration, sound design, transition. Hero object state in every cut: Eris floating at the middle of the frame (about 50% across, 45% down), highlighted, same model every time; labels, pins and figurines offset to the sides.

SCENE 1 | 0:00-0:07 | SHOCKING HOOK

IMAGE PROMPT [Realism layer] Dark charcoal editorial star chart of the outer solar system seen top-down, cyan orbit rings for Uranus and Neptune and a faint coordinate grid, Eris's long elliptical amber orbit ring reaching far out, a red rounded label tag reading "Eris" anchored on an amber pin on that orbit just left of center; in the exact middle of the frame the HERO OBJECT: one photoreal render of Eris (bright off-white frost sphere with faint warm-grey mottling; no mission imagery exists, so it is labeled "Artist's concept - based on spectra") floating at about 40% of frame height, amber rim light, cyan edge glow, soft spotlight cone and soft shadow on the chart; a small "not to scale" tag at the lower corner and a faint arc of the inner solar system at the top edge. [Style suffix]

VIDEO PROMPT Cut A 0.0-1.5 s (Top-down macro): tight top-down macro on the red "Eris" label tag, which snaps in at 0-0.5 s in sync with the spoken name; the amber pin ignites and Eris fades up floating in the middle with an outline pulse (about 40% of frame height).
Cut B 1.5-3.5 s (Tilted fly-along): tilted fly-along around Eris's long orbit ring as it draws on in amber; Eris floats at center turning slowly, a dotted line extending behind it.
Cut C 3.5-5.0 s (Low oblique sightline): low oblique, high-speed sightline draw from Eris back across the chart to a small Earth, California highlighted cyan with a Palomar pin and a 2003 year stamp; Eris pulses its amber outline and brightens as the year is spoken.
Cut D 5.0-7.0 s (Scale-ladder pull-back): scale-ladder pull-back to the full solar-system chart with Eris's orbit glowing and Eris still floating at the same center position, then a zoom-through toward the outer-system view that opens Scene 2.
[Style suffix]

NARRATION "Eris was photographed from California in 2003, yet nobody noticed it until 2005." (13 words)

SOUND DESIGN Low drone bed begins. Cut A: sharp pin-tick on the label snap. Cut B: soft macro whoosh following the fly-along plus pen-draw scratch on the orbit. Cut C: pen-draw scratch on the sightline and a stamp thud on the 2003 stamp. Cut D: rising sweep into the next scene.

TRANSITION The zoom-through dissolves the solar-system chart into the high-oblique outer-system view that opens Scene 2 with a color split between the cyan flat plane and the tilted amber orbit.

SCENE 2 | 0:07-0:14 | CURIOSITY EXPANSION

IMAGE PROMPT [Realism layer] Dark charcoal star chart of the outer solar system from a high oblique angle, a translucent cyan flat plane with a faint coordinate grid, Neptune's cyan orbit ring, Eris's long amber orbit tilted about 44 degrees above the plane, the scattered-disc region as a soft cyan-dusted halo beyond Neptune, small labels "Neptune" and "Scattered Disc" plus a "Dwarf planet" tag and a "not to scale" tag; in the exact middle the HERO OBJECT: the same Eris render hovering at about 26% of frame height, amber rim light, cyan edge glow, soft spotlight cone and soft shadow on the chart. [Style suffix]

VIDEO PROMPT Cut A 0.0-1.5 s (High-oblique push-in): high-oblique push-in as the flat plane color-splits cyan against the tilted amber orbit; Eris hovers at center at medium size, turning slowly.
Cut B 1.5-3.5 s (Top-down orbit chart): top-down pan outward across Neptune's ring, then Eris's long ellipse draws on with perihelion and aphelion pins dropping and an "about 559 yr" tag on the ring; Eris holds center, floating and turning.
Cut C 3.5-5.0 s (Cross-section side profile): side-profile cross-section where the tilted orbit arcs up through the plane with a "44 deg" measure arc and a "2,326 km" ruler tag beside Eris; Eris pulses its amber outline on the reveal.
Cut D 5.0-7.0 s (Low oblique drift): low oblique drift along the orbit ring, pulling back as the "Dwarf planet" tag pops and the ring glows; Eris still centered as the final visual, motion direction continuing into Scene 3.
[Style suffix]

NARRATION "It is a dwarf planet about 2,326 kilometers wide, circling the Sun roughly every 559 years." (16 words)

SOUND DESIGN Soft pulse added over the drone. Cut A: macro whoosh on the push-in. Cut B: pen-draw scratch on the orbit and pin-drop ticks. Cut C: stamp thud on the 2,326 km tag. Cut D: pull-back sweep with the riser starting.

TRANSITION Orbit-line wipe: the glowing ring sweeps across the frame and becomes the dotted timeline that opens Scene 3 with a 1930 year stamp.

SCENE 3 | 0:14-0:21 | DISCOVERY MYSTERY

IMAGE PROMPT [Realism layer] Dark charcoal top-down chart of the outer solar system with a dotted timeline curving along the Kuiper Belt zone, a small ghosted Pluto pin at left with a "1930" year stamp, Neptune's ring in cyan, an empty dark region beyond it ringed by an amber question mark; in the exact middle the HERO OBJECT: the same Eris render shown as a ghosted outline at about 40% opacity with a thin amber edge, about 24% of frame height, cyan edge glow, soft spotlight cone. [Style suffix]

VIDEO PROMPT Cut A 0.0-1.5 s (Macro close-up): tight macro on the "1930" year stamp landing on the Pluto pin; the ghosted Eris outline floats at center, faint.
Cut B 1.5-3.5 s (Top-down timeline sweep): top-down time-slider sweep along the dotted timeline, years scrolling from 1930 toward the 2000s; the Eris outline gains solidity as it floats and turns.
Cut C 3.5-5.0 s (Tilted fly-along): tilted fly-along over the empty zone beyond the Kuiper Belt as an amber question-mark ring and "?" tag

draw on; the outline is almost solid.
Cut D 5.0-7.0 s (Scale-ladder zoom-out): scale-ladder zoom-out revealing the wider scattered-disc region; Eris becomes fully solid with an amber outline pulse as the final visual.
[Style suffix]

NARRATION "Since 1930, Pluto had stood alone as the ninth planet. Could a rival lurk farther out?" (16 words)

SOUND DESIGN Rising riser begins (pitch and tempo up about 3%). Cut A: stamp thud on 1930. Cut B: soft ticking of the time-slider. Cut C: paper rustle and a pen-draw scratch on the question ring. Cut D: riser lift into the re-hook.

TRANSITION Zoom-through the question-mark ring into a night-sky plate view, a new setting, that opens Scene 4.

SCENE 4 | 0:21-0:28 | FIRST DISCOVERY + RE-HOOK

IMAGE PROMPT [Realism layer] Wide high-oblique view of three photographic survey plates fanned out above the dark charcoal chart like glass slides of star fields, a tiny amber dot moving from plate to plate, a red "Palomar" pin on a cyan California highlight below; name tags "2003 UB313" (red) and "Xena" (blue) and a gold "Tenth planet?" icon placed at the sides, never covering the center; in the exact middle the HERO OBJECT: the same Eris render hovering between the plates at about 26% of frame height, amber rim light, cyan edge glow. [Style suffix]

VIDEO PROMPT Cut A 0.0-1.5 s (High-oblique scale jump (re-hook)): visibly stronger opener: a hard zoom-through from the solar-system chart into the night-sky plate view with three glass plates fanning out; Eris floats large between them with an outline pulse.
Cut B 1.5-3.5 s (Low oblique glide): low oblique glide across the three plates while a tiny amber dot is tracked from plate to plate; Eris centered, turning slowly.
Cut C 3.5-5.0 s (Top-down name-card flashes): top-down flash cuts of the name cards in sync with the words: red "2003 UB313", blue "Xena", gold "Tenth planet?" with arrow flashes; Eris pulses its amber outline on each flash.
Cut D 5.0-7.0 s (Tilted pull-back): tilted pull-back as the plates collapse into the orbit chart; Eris still centered as the final visual while the push heads toward the Palomar highlight.
[Style suffix]

NARRATION "Catalogued as 2003 UB313, nicknamed Xena, it was briefly announced as the tenth planet." (14 words)

SOUND DESIGN Short rhythmic stinger on the re-hook. Cut A: stinger with a macro whoosh. Cut B: tick-tick tracking sound on the moving dot. Cut C: three quick stamp thuds on the name cards. Cut D: riser sweep (pitch up about 3%).

TRANSITION Re-hook transition: the camera pushes through the third plate toward a date stamp, posing the question "who actually spotted it, and when?" for Scene 5.

SCENE 5 | 0:28-0:35 | TECHNICAL REVEAL

IMAGE PROMPT [Realism layer] Macro top-down on a bold amber year stamp reading "5 JAN 2005" beside a glass survey plate and a Palomar pin; three small name pins "Brown", "Trujillo" and "Rabinowitz" at the left edge; thin callout lines pointing at the hero; in the exact middle the HERO OBJECT: the same Eris render at about 26% of frame height rotating to show its bright, reflective frost surface, a small "Artist's concept - based on spectra" tag, amber rim light, cyan edge glow. [Style suffix]

VIDEO PROMPT Cut A 0.0-1.5 s (Macro close-up): tight macro on the "5 JAN 2005" stamp thudding down; Eris floats large behind it and turns.
Cut B 1.5-3.5 s (Cross-section reveal): cross-section cutaway of a telescope-dome icon over the Palomar pin as the three name pins slide in from the left; Eris floats at center.
Cut C 3.5-5.0 s (Tilted rotation): tilted rotation around Eris as thin callout lines draw to its surface with a "very bright ice" label; Eris pulses its amber outline on the reveal.
Cut D 5.0-7.0 s (Top-down pull-back): top-down pull-back with the callouts fading; Eris still centered as the final visual and the stamp shrinking toward the Palomar pin.
[Style suffix]

NARRATION "Brown's team found it drifting in Palomar images on 5 January 2005, wrapped in dazzling ice." (16 words)

SOUND DESIGN Cut A: heavy stamp thud. Cut B: paper rustle and pin-drop ticks as the names land. Cut C: pen-draw scratch on each callout line. Cut D: pull-back sweep, riser up about 3%.

TRANSITION Stamp-to-pin: the year stamp shrinks into the Palomar pin, which stretches a route line toward Greece to open Scene 6.

SCENE 6 | 0:35-0:42 | UNEXPECTED COMPARISON

IMAGE PROMPT [Realism layer] Side-by-side split map: the left half California with the Palomar pin highlighted in cyan, the right half Greece highlighted in cyan with a small column icon; a thin amber route crosses the split line behind the hero; a generic TV-screen icon (no character likeness) sits at the lower right; in the exact middle the HERO OBJECT: the same Eris render on the split line at about 24% of frame height, amber rim light, cyan edge glow. [Style suffix]

VIDEO PROMPT Cut A 0.0-1.5 s (Low oblique split-line pass): low oblique pass along the split line as the map divides in two; Eris floats on the line, turning slowly.
Cut B 1.5-3.5 s (Top-down pin slide): top-down view as the Palomar pin and a Greece pin slide in from each side and an amber route draws between them behind Eris.

Cut C 3.5-5.0 s (High-oblique color split): high-oblique color split as the column icon slides in from the right and a generic TV-screen icon pops with a small question tag; Eris pulses its amber outline.
Cut D 5.0-7.0 s (Scale-ladder globe pull-back): scale-ladder pull-back to a spinning globe with both regions glowing; Eris stays centered as the final visual.
[Style suffix]

NARRATION "Palomar sits in California, yet the name is Greek, and a popular tale explains why." (15 words)

SOUND DESIGN Cut A: macro whoosh. Cut B: pin-drop ticks and pen-draw scratch on the route. Cut C: reveal accent and paper rustle. Cut D: globe-spin whoosh with the riser (up about 3%).

TRANSITION Globe spin: the spinning globe lands on a tabletop miniature scene, a new setting, for Scene 7.

SCENE 7 | 0:42-0:49 | MID-VIDEO RE-HOOK (THE NAMING TALE)

IMAGE PROMPT [Realism layer] Tilt-shift tabletop version of the star chart: two small figurines, a fan and an astronomer, stand left and right of the hero on the dark chart with a tiny telescope and a generic TV-screen prop beside them, orbit ring glowing cyan under their feet; in the exact middle the HERO OBJECT: the same Eris render at about 26% of frame height, amber rim light, cyan edge glow, soft shadow on the chart. [Style suffix]

VIDEO PROMPT Cut A 0.0-1.5 s (Tilt-shift macro (re-hook)): visibly stronger opener: a hard tilt-shift macro push into the tabletop as the two figurines drop into place with the stinger; Eris floats large in the middle with an outline pulse.
Cut B 1.5-3.5 s (Low oblique between figurines): low oblique glide between the two figurines as the fan figurine cheers and the astronomer figurine shakes her head; Eris centered, turning.
Cut C 3.5-5.0 s (Tilted push-in): tilted push-in on a small "Xena = official?" tag popping up between them; Eris pulses its amber outline.
Cut D 5.0-7.0 s (Top-down pull-back): top-down pull-back with the figurines left and right of Eris and a dotted line starting at the point where their views split.
[Style suffix]

NARRATION "One popular belief says Xena became its official name; a fan cheers while an astronomer frowns." (16 words)

SOUND DESIGN Short rhythmic stinger on the re-hook. Cut A: stinger with a macro whoosh and tiny figurine drops. Cut B: light humorous foley (cheer, soft tut). Cut C: paper rustle and a pop on the tag. Cut D: riser sweep (up about 3%).

TRANSITION The dotted line starting at the figurines' split point draws forward into Scene 8.

SCENE 8 | 0:49-0:56 | ESCALATING CONSEQUENCE

IMAGE PROMPT [Realism layer] High-oblique dark charcoal chart with a dotted amber route drawing across the map behind the hero through small headline and TV-screen icons marked "Xena", and a small grey skeptic tag; in the exact middle the HERO OBJECT: the same Eris render at about 24% of frame height, amber rim light, cyan edge glow, route and icons kept to the sides. [Style suffix]

VIDEO PROMPT Cut A 0.0-1.5 s (High-oblique push-in): high-oblique push-in as the dotted route begins drawing; Eris floats at center.
Cut B 1.5-3.5 s (Tilted fly-along): tilted fly-along following the route through the headline icons; Eris floats along with the camera, turning slowly.
Cut C 3.5-5.0 s (Top-down route draw): top-down route draws icon to icon with "2005" and "2006" stamps; a grey skeptic tag slides in at the end; Eris pulses its amber outline.
Cut D 5.0-7.0 s (Low oblique drift): low oblique drift along the route as it ends at an empty grey "no official approval" tag; Eris still centered.
[Style suffix]

NARRATION "Headlines repeated Xena for over a year, though skeptics note no official body ever approved it." (16 words)

SOUND DESIGN Cut A: whoosh. Cut B: rhythmic tick as the route crosses each icon. Cut C: pen-draw scratch and stamp thuds on the years. Cut D: riser peak (up about 3%) cut short ahead of the silence.

TRANSITION Fact-check pivot: the route line snaps straight like a ruler and the amber light drains to neutral white, a payoff transition into Scene 9.

SCENE 9 | 0:56-1:03 | MAIN MYSTERY PAYOFF (DOCUMENTED RECORD)

IMAGE PROMPT [Realism layer] Neutral white-lit macro on a record card stamped "13 SEP 2006" beside a smaller stamp "24 AUG 2006", a small "IAU" tag and a Greek amphora icon labeled "strife"; the chart behind is dimmed; in the exact middle the HERO OBJECT: the same Eris render lit in neutral white at about 24% of frame height, thin cyan edge glow, no amber. [Style suffix]

VIDEO PROMPT Cut A 0.0-1.5 s (Macro close-up): beat-drop and a 0.4 s silence, then a macro on the "13 SEP 2006" stamp landing; lighting shifts from amber to neutral white; Eris floats in white light.
Cut B 1.5-3.5 s (Cross-section record-card slide): side-on cross-section as the record card slides in with the "Eris" and "IAU" tags; Eris centered, turning.
Cut C 3.5-5.0 s (Top-down arrow): top-down arrow draws from the "Brown" pin to the "IAU" tag; Eris pulses a thin white outline.
Cut D 5.0-7.0 s (Tilted pull-back): tilted pull-back as the amphora icon fades in labeled "strife" and a faint warm tint begins to return; Eris still centered.

[Style suffix]

NARRATION "Records show its discoverers proposed Eris, Greek goddess of strife, and the IAU approved it in 2006." (17 words)

SOUND DESIGN Beat-drop and a 0.4 s silence cut at the start. Cut A: heavy stamp thud after the silence. Cut B: paper slide. Cut C: pen-draw scratch. Cut D: low tone swell, drone dropping out.

TRANSITION Payoff transition: the light warms from neutral white back to amber as the stamps slide left into a timeline that opens Scene 10.

SCENE 10 | 1:03-1:10 | COSMIC LEGACY

IMAGE PROMPT [Realism layer] Dark charcoal chart with a dotted timeline across the lower third, a small ghosted moon labeled "Dysnomia" orbiting close to the hero, and ghosted spheres for Pluto, Haumea and Makemake in a row beside it; warm amber glow; in the exact middle the HERO OBJECT: the same Eris render at about 24% of frame height above the timeline, amber rim light, cyan edge glow. [Style suffix]

VIDEO PROMPT Cut A 0.0-1.5 s (Low oblique timeline start): low oblique along the start of the timeline as a ghosted Dysnomia circles close to Eris; Eris floats at center.
Cut B 1.5-3.5 s (Top-down timeline sweep): top-down timeline sweep across the 2005 and 2006 stamps; Eris centered, turning slowly.
Cut C 3.5-5.0 s (High-oblique sibling slide-in): high-oblique slide-in of ghosted Pluto, Haumea and Makemake beside the hero, each with a small label; Eris pulses its amber outline.
Cut D 5.0-7.0 s (Scale-ladder pull-back): scale-ladder pull-back to the solar-system chart with a warm glow on Eris's orbit; Eris still centered as the final visual.
[Style suffix]

NARRATION "Moon Dysnomia, named for her daughter, orbits Eris, while Pluto, Haumea and Makemake share its rank." (16 words)

SOUND DESIGN Warm resolved chord enters. Cut A: soft whoosh. Cut B: gentle stamp thuds on the years. Cut C: three soft pops as the siblings land. Cut D: warm pull-back sweep.

TRANSITION The warm pull-back dissolves into a macro of a giant pair of hands lifting a celestial globe, opening Scene 11.

SCENE 11 | 1:10-1:17 | FINAL PAYOFF + SEAMLESS LOOP

IMAGE PROMPT [Realism layer] Macro of a giant pair of hands holding a physical celestial globe with a red circle on the Eris region; in the exact middle the HERO OBJECT: the same Eris render hovering above the globe between the hands at about 40% of frame height, same position and angle as Scene 1, amber rim light, cyan edge glow, soft spotlight cone; a faint arc of the solar system at the top edge. [Style suffix]

VIDEO PROMPT Cut A 0.0-1.5 s (High-oblique hands and globe macro): high-oblique macro as the giant hands lift the celestial globe; Eris floats large (about 40% of frame height) between them.
Cut B 1.5-3.5 s (Low oblique globe fly-around): low oblique fly-around the globe following the red circle; Eris floats at center, turning slowly.
Cut C 3.5-5.0 s (Scale-ladder zoom-out): scale-ladder zoom-out from Eris through the scattered disc, solar system, Milky Way, Local Group, Virgo Supercluster and Laniakea with a small "no probe yet" tag; Eris pulses its amber outline.
Cut D 5.0-7.0 s (Top-down macro loop bridge): top-down macro dropping onto the exact position and map angle of Scene 1's red "Eris" tag, with Eris back at about 40% of frame height, the same position and angle as Scene 1 Cut A.
[Style suffix]

NARRATION "No probe has visited yet. Which distant world was named for the goddess of discord?" (15 words)

SOUND DESIGN Warm resolved chord sustained. Cut A: soft whoosh. Cut B: gentle tick on the red circle. Cut C: shimmer accent on each scale step. Cut D: pull-in sweep. The chord does not fully decay at the cut and carries into the Scene 1 drone.

TRANSITION Loop bridge: the macro lands on Scene 1's label-tag position and angle, the chord carries into the drone, and the answer "Eris" is spoken as Scene 1 begins.

(D) Full narration transcript

Word-for-word identical to the per-scene Narration fields.

Scene	Role	Narration	Words
S1 0:00-0:07	SHOCKING HOOK	Eris was photographed from California in 2003, yet nobody noticed it until 2005.	13
S2 0:07-0:14	CURIOSITY EXPANSION	It is a dwarf planet about 2,326 kilometers wide, circling the Sun roughly every 559 years.	16
S3 0:14-0:21	DISCOVERY MYSTERY	Since 1930, Pluto had stood alone as the ninth planet. Could a rival lurk farther out?	16
S4 0:21-0:28	FIRST DISCOVERY + RE-HOOK	Catalogued as 2003 UB313, nicknamed Xena, it was briefly announced as the tenth planet.	14
S5 0:28-0:35	TECHNICAL REVEAL	Brown's team found it drifting in Palomar images on 5 January 2005, wrapped in dazzling ice.	16
S6 0:35-0:42	UNEXPECTED COMPARISON	Palomar sits in California, yet the name is Greek, and a popular tale explains why.	15
S7 0:42-0:49	MID-VIDEO RE-HOOK (THE NAMING TALE)	One popular belief says Xena became its official name; a fan cheers while an astronomer frowns.	16
S8 0:49-0:56	ESCALATING CONSEQUENCE	Headlines repeated Xena for over a year, though skeptics note no official body ever approved it.	16
S9 0:56-1:03	MAIN MYSTERY PAYOFF (DOCUMENTED RECORD)	Records show its discoverers proposed Eris, Greek goddess of strife, and the IAU approved it in 2006.	17
S10 1:03-1:10	COSMIC LEGACY	Moon Dysnomia, named for her daughter, orbits Eris, while Pluto, Haumea and Makemake share its rank.	16
S11 1:10-1:17	FINAL PAYOFF + SEAMLESS LOOP	No probe has visited yet. Which distant world was named for the goddess of discord?	15

Total 170 words across 77 seconds (range 143-187). Loop pair: S11 ends "...Which distant world was named for the goddess of discord?" and S1 answers "Eris was photographed from California in 2003..." (the answer to the question is the topic name, and the last word of S11 flows into the first word of S1).

(D2) Cosmic Data Sheet

Approximate values for a coordinates-driven render (Spline/three.js scene, Processing sketch or camera plan); all marked verify before render. Scene and cut references tell the renderer when each element appears.

id	type	parent / values (approx, verify before render)	scene / cut	animation
eris_label	label tag	red rounded tag "Eris" on its orbit	S1 A	snap-in at 0-0.5 s
eris_orbit	orbit ring	parent Sun; a about 68 AU; perihelion about 38 AU; aphelion about 98 AU; period about 559 yr; inclination about 44 deg; radius about 1,163 km	S1 B, S2 B, S10 D	amber ring draws on
neptune_orbit	orbit ring	parent Sun; about 30 AU; period about 165 yr	S2 B, S3 C	cyan ring, label pops
pluto_orbit	orbit ring + ghost	parent Sun; a about 39.5 AU; period about 248 yr; diameter about 2,377 km	S3 A, S10 C	ghosted pin, then ghost sibling
scattered_disc	region highlight	region beyond Neptune, Eris family	S2 A-B, S3 D	cyan dust halo
ecliptic_plane	translucent disc	reference plane for up-is-north-of-ecliptic logic	S2 A, C	color split vs tilted orbit
inclination_arc	measure arc	about 44 deg	S2 C	arc draws, label pops
size_tag	ruler tag	diameter about 2,326 km (2010 occultation)	S2 C	stamp thud
timeline_1930_2003	dotted timeline	1930 Pluto found; 1992 first Kuiper-belt object found after Pluto; 2003 Eris in survey images	S3 B-C	time-slider reveal, year stamps
palomar_pin	pin (Earth)	Palomar Observatory, San Diego County, California; approx 33.4 N, 116.9 W	S1 C, S4 A-B, S5 A-B	pin drop, cyan highlight
earth_sightline	sightline	Earth to Eris, about 96 AU at discovery	S1 C	pen-draw sightline
plates_2003	survey plates	three frames from survey images taken 21 Oct 2003 (3 frames, moving dot)	S4 A-B	glass plates fan out, dot tracked
name_tags	name cards	"2003 UB313", "Xena", "Tenth planet?"	S4 C	flash cuts with arrow flashes
year_2005_stamp	year stamp	5 Jan 2005, identified in the survey images	S5 A	stamp thud
discoverer_pins	pins	Mike Brown, Chad Trujillo, David Rabinowitz	S5 B, S9 C	pins slide in, arrow to IAU
surface_callout	surface callout	very bright icy surface (albedo about 0.96); no mission imagery; label artist's concept	S5 C	thin callout lines
greece_pin	pin	Greece, source of the mythological name	S6 B-C	pin slide-in, column icon
tv_icon	generic icon	generic TV-screen icon; no character likeness	S6 C, S7 C	pop with question tag
tale_figurines	figurines	fan and astronomer (illustrative devices, not historical persons)	S7 A-D	tilt-shift drops, cheer / head shake

id	type	parent / values (approx, verify before render)	scene / cut	animation
tale_route	dotted route	headline and TV icons carrying the name Xena, 2005 to 2006	S8 A-D	dotted route draws icon to icon
stamps_2006	year stamps	24 Aug 2006 IAU planet definition (Prague); 13 Sep 2006 name Eris approved	S9 A-B	stamp thud, record card slide
dysnomia_orbit	orbit ring	parent Eris; a about 37,000 km; period about 15.8 d; diameter about 700 km; found 2005	S10 A	ghost moon circles close
siblings	ghost spheres	Pluto, Haumea, Makemake (dwarf planets)	S10 C	slide-in with labels
scale_ladder	zoom ladder	Eris, scattered disc, solar system, Milky Way, Local Group, Virgo Supercluster, Laniakea	S1 D, S11 C	zoom-out, shimmer per step
hero_object	floating 3D body	Eris model, same texture and markings in every scene; artist's concept from spectra	S1-S11, all cuts	levitates, slow bob and turn (about 20 deg/s), amber rim light, outline pulse on cut changes
globe_hands	celestial globe macro	Eris region circled in red	S11 A-D	loop bridge to S1 tag position

Render routes: (1) a Spline or three.js scene with camera-focus animations per body, a top-down orbit view and moons that appear on cue (openai/openai-realtime-solar-system), captured to MP4; (2) a Processing simulation driven by this array, frames rendered to MP4 (solar-system simulators); Ishanoshada/Planet3D as a 3D planet viewer reference. Vector orbit charts suit sightlines, region highlights and re-rendering many topics.

Fact notes (verify before publishing): Eris (136199 Eris) is a dwarf planet in the scattered disc, discovered by Mike Brown, Chad Trujillo and David Rabinowitz from survey images taken at Palomar Observatory in California on 21 October 2003 and identified on 5 January 2005; announced 29 July 2005 under the provisional designation 2003 UB313 and widely reported as the tenth planet. The team's nickname was Xena, which was never an official name. The IAU adopted its planet definition on 24 August 2006 and named Eris (after the Greek goddess of strife and discord) on 13 September 2006; the name was proposed by its discoverers. Its diameter is about 2,326 km (from a 2010 stellar occultation), slightly smaller than Pluto's about 2,377 km but more massive; period about 559 years; surface very bright, spectra indicate methane-rich ice. Its moon Dysnomia (goddess of lawlessness, in mythology a daughter of Eris) was found in 2005. No spacecraft has visited. The Xena-as-official-name belief is used as a labeled popular misconception; the fan and astronomer figurines are illustrative devices. Exact distances, dates of the survey images and mission-planning status should be checked against current sources before publishing.

(E) Master Realism Template + Style Suffix

Realism layer (prepend to every image prompt): ultra-detailed photoreal editorial cosmic-map render, accurate orbit order and relative positions, dark charcoal star-chart basemap with cold cyan edge glow and warm amber highlights, accurate names only, the topic body floating above the map as a highlighted scientific render with amber rim light and cyan edge glow, mission-accurate surface where imagery exists, no invented labels, no distorted text.

Style suffix (append to every image and video prompt): vertical 9:16, cinematic documentary space-map aesthetic, realistic depth of field, soft tilt-shift on miniature figurines, clean vector overlays, sharp legible text, high contrast, 4K, smooth camera motion, no watermark, no extra limbs, no garbled lettering, hero object floating and highlighted in frame, no invented features, no sci-fi spacecraft battles.

(F) Viral Thumbnail Package

Concept 1 (recommended): the glowing orbit rings of the outer solar system on a dark star chart, a red label tag "Eris" on its long amber orbit with one arrow along its path, and the topic body floating large and highlighted above it. Text overlay: "TENTH PLANET?!". Image prompt: [Realism layer] top-down dark charcoal star chart, cyan orbit rings, a long amber elliptical orbit with a red rounded label tag "Eris" and one amber arrow along the path; in the exact middle the HERO OBJECT: one photoreal render of Eris (bright off-white frost sphere, artist's concept) at about 40% of frame height with amber rim light, cyan edge glow and soft shadow; bold white all-caps text "TENTH PLANET?!" at the top inside the safe zone. [Style suffix]

Concept 2: two figurines on opposite sides of the chart, a fan and an astronomer, with a ruler and a question-mark tag between them (tale versus record), Eris floating between them. Text overlay: "XENA OR ERIS?". Image prompt: [Realism layer] tilt-shift tabletop star chart, a fan figurine at left and an astronomer figurine at right, a small ruler and a question-mark tag at the base, the HERO OBJECT Eris floating in the middle at about 35% of frame height; bold white all-caps text "XENA OR ERIS?". [Style suffix]

Concept 3: giant hands holding a celestial globe with a red circle on the far outer solar system, Eris floating above it. Text overlay: "THE STRIFE WORLD". Image prompt: [Realism layer] macro of giant hands holding a physical celestial globe with a red circle on the Eris region, the HERO OBJECT Eris hovering above it at about 40% of frame height; bold white all-caps text "THE STRIFE WORLD". [Style suffix]

Recommended pick: Concept 1, because the "tenth planet" claim is the biggest curiosity gap and the single large hero body keeps the thumbnail legible at feed size. One accent color (amber), the orbit ring is the eye path.

(G) English SEO

Title: Eris: The Dwarf Planet Photographed in 2003 but Found in 2005 (Who Named It?)

Description: Eris was photographed from California in 2003, yet nobody noticed it until 2005. In 77 seconds, follow the 3D cosmic map from its tilted orbit in the scattered disc to the Palomar images, the nickname Xena, the briefly announced tenth planet and the documented naming of Eris in 2006. We separate the popular belief from the record. Educational astronomy; speculative details are

labeled and renders marked as an artist's concept. Facts approximate; verify before citing.

Tags: Eris, Eris dwarf planet, dwarf planets, Xena, 2003 UB313, tenth planet, Dysnomia, Mike Brown, Pluto, scattered disc, Kuiper Belt, solar system, how planets are named, planet names, astronomy explained, space facts, space documentary, 3D solar system, cosmic origin map, discovery of Eris

(H) PDF auto-save confirmation

PDF saved: Eris_Cosmic_Origin_Map_Reels.pdf - 11 scenes, 77 s, data sheet, thumbnail package and English SEO included.

(I) Final Quality Control checklist

Exactly 11 scenes, 7 seconds each, 77 seconds total	**PASS**
Four cuts (A/B/C/D) with exact timings, a named map move and the hero state in every Video Prompt; no camera angle repeated back-to-back	**PASS (44 cuts checked)**
Each scene has Image Prompt, Video Prompt, Narration, Sound Design, Transition in that order	**PASS**
Narration 13-17 words per scene, total 170 (143-187), counted by Python	**PASS**
S1 speaks "Eris" as its first word; S4 and S7 are re-hooks; S7 is the labeled tale; S9 is the documented record; S11 ends with the loop question	**PASS**
No two scenes start with the same word; no 3-word phrase repeated (topic name exempt); tale/legend and myth each 4 times or fewer	**PASS**
Discoverer, place, date and namer stated conservatively; no invented names, dates or figures; surface labeled artist's concept	**PASS**
Data Sheet (D2) lists every pin, orbit, sightline, region and scale step used, flagged verify before render	**PASS**
Hero object floating and highlighted in all four cuts of all 11 scenes, same model, never covering the label tag	**PASS**
Science-accuracy lock: no astrology, no invented surface features, no speculation as fact	**PASS**
Thumbnail package, English SEO only (tags without hash symbols), PDF confirmation line present	**PASS**
Last word of S11 (discord) flows into S1's first word (Eris); no on-screen kinetic text field and no somatic line in any scene	**PASS**