

Heavenly Shield and Cosmic Catastrophe: Scientific, Philosophical, and Theological Reflections on Qur'an 22:65

Abstract

The Quran states: *"He (God) keeps the heavens from falling down on the earth without His permission"* (22:65). This poetic verse hints at cosmic protection – a "heavenly shield" that prevents the sky from literally falling on us – while also acknowledging that any celestial calamity occurs only by God's leave. Modern science reveals multiple mechanisms that indeed protect Earth from frequent devastating meteor strikes, effectively keeping "the heavens" from crashing down. Earth's atmosphere incinerates most small meteoroids, and the layout of our solar system (especially giant Jupiter's gravity) diverts many potential impactors ¹ ². These safeguards have made our planet a relatively safe haven for life ³. Yet, when God *"permits"* a cosmic upheaval, it can serve a greater purpose: for example, a single massive asteroid impact 66 million years ago caused the dinosaurs' extinction but paved the way for mammals – and eventually humans – to flourish ⁴ ⁵. This commentary explores the convergence of scripture and science on this topic. We discuss the Quran's depiction of a *"well-secured canopy"* above Earth ⁶ in light of astronomical defenses against meteors, examine the cataclysmic dinosaur-ending impact as a possible fulfillment of divine wisdom, and contrast the Quran's sober descriptions of meteors with the erroneous views and myths prevalent in various cultures ⁷ ⁸. The evidence suggests a remarkable alignment between the Quranic worldview and scientific reality, inviting a deeper reflection on divine compassion, cosmic purpose, and our planet's fortunate place in the heavens.

The Quranic Vision of a *"Protected Sky"*

Islamic scripture presents the cosmos as an ordered, purpose-filled system guarded by divine decree – not a realm of capricious chaos. The Qur'an repeatedly describes the sky as a **protected or well-secured canopy** over the Earth. For example, *"We made the sky a well-secured canopy – yet from its wonders they turn away"* (21:32) ⁶. Likewise, humanity is reminded: *"It is God who has given you the earth for a dwelling place and the heavens for a safe canopy"* (40:64) ⁹. In the verse under discussion (22:65), the Quran emphasizes God's mercy in maintaining cosmic stability:

"Have you not considered how God has made everything on the earth of service to you... and that He keeps the heavens from falling down on the earth without His permission? God is most compassionate and most merciful to mankind." (Qur'an 22:65) ¹⁰

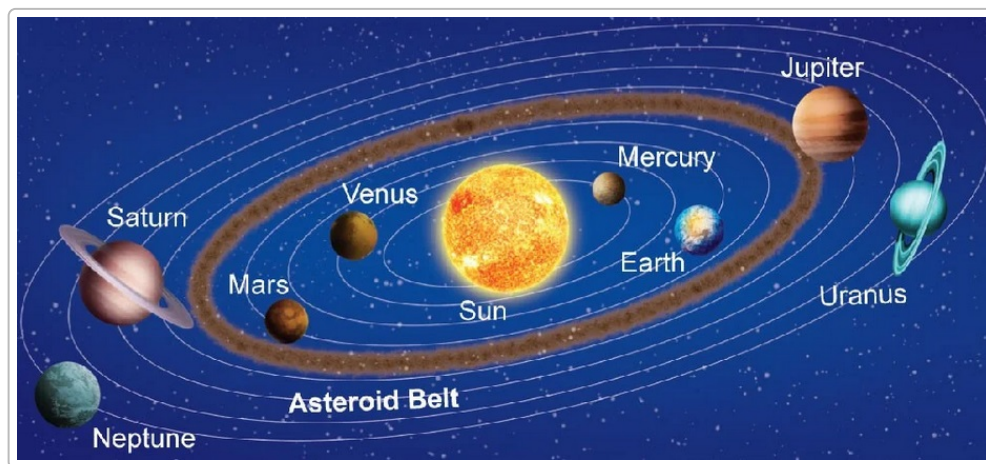
This vivid imagery – "heavens falling down" – can be understood today in relation to celestial bodies (meteoroids, asteroids, comets) that *could* fall upon Earth. The Quran asserts that such disasters are restrained, occurring only by God's leave. Classical commentators, lacking modern astronomy, interpreted

“the sky as a canopy” metaphorically (e.g. as the firmament or the atmosphere), but modern readers see striking scientific resonance in these words ¹¹. Far from containing any myth or error, the Quran’s language is subtly layered: it provided 7th-century Arabs an assurance of divine protection, yet for today’s audience it hints at actual physical safeguards like the atmosphere and celestial order ¹². In other words, the **Quranic vision of the heavens** is one of ordered protection and purpose, not arbitrary peril.

Importantly, the Quran uniquely acknowledges **“all that is between the heaven and the earth”** – a phrase appearing in multiple verses to encompass everything in space between sky and ground ¹³. Contemporary scholars note that this could include meteors, comets, and interstellar material ¹³. Unlike other scriptures, which rarely mention such celestial details, the Quran’s reference to the intermediate space affirms that the entire cosmos (not just Earth and stars) is part of God’s purposeful creation ¹³. *“We did not create the heaven and the earth and all that is between them in play”* (21:17–18) reminds us that no part of the universe is without meaning ¹⁴. Thus, in Islamic theology, even the shooting stars and drifting space rocks are within God’s knowledge and control – not omens of random gods or trivial phenomena. This perspective sets the stage for understanding how, from a scientific viewpoint, our planet is extraordinarily shielded from cosmic harm as if by a merciful design.

Astronomical Mechanisms Minimizing Meteor Impacts on Earth

From what we now know, Earth indeed enjoys an almost providential protection amid a potentially hostile cosmos. Our planet orbits the Sun in what one author calls a “three-dimensional shooting gallery,” yet catastrophic hits are infrequent ¹⁵. The heavily cratered surface of our airless Moon attests to the countless meteorites that have pummeled our neighborhood – many of which would have struck Earth if not for various protective mechanisms ¹⁵. Modern astronomy has identified several layers of defense that keep most of the *“heavens from falling on the earth”* in a destructive way ³:



*Diagram of the inner solar system highlighting Jupiter and the main asteroid belt. **Planetary architecture as protection:*** The configuration of our solar system itself reduces impact risk. Most notably, giant **Jupiter** acts as a gravitational shield. Its immense gravity redirects or captures many incoming comets and asteroids before they reach the inner solar system ¹. For example, Jupiter famously tore apart Comet Shoemaker–Levy 9 in 1994 and absorbed its fragments – a fate that spared Earth ¹⁶. Additionally, the **asteroid belt** between Mars and Jupiter is a mostly stable reservoir of small bodies. Jupiter’s influence locks

many asteroids into non-threatening orbits, and destabilizes others into safe zones (e.g. Kirkwood gaps), limiting the number of rocks that wander toward Earth ² ¹⁷ .

- **Earth's Atmosphere – A Natural Shield:** Our first line of defense is the *atmosphere*. When meteoroids enter at high speed, they compress and heat the air in front of them. This causes most objects under ~25 m in size to burn up completely by **ablation**, while larger ones often explode into fragments before impact ¹⁸ . The fiery streaks we call “shooting stars” are usually harmless dust or pebbles vaporizing overhead. Even substantial meteors can be decelerated or broken by the air. **Angle of entry** also matters – a shallow angle can make a meteor skip off the atmosphere like a stone on water ¹⁹ . A dramatic recent example is the **2013 Chelyabinsk meteor**: a ~20 meter meteoroid that detonated in the upper atmosphere over Russia, producing a huge airburst but only scattered debris on the ground ¹⁸ .



The vapor trail left by the 2013 Chelyabinsk meteor after it exploded in Earth's atmosphere. This event injured over a thousand people with its shockwave but proved the atmosphere's protective power: the object exploded ~30 km above ground, preventing a catastrophic impact. **Had Earth lacked a dense atmosphere,** such a rock would have hit the surface with the force of a nuclear bomb. Thus, the Quranic metaphor of a “sky as a protected roof” finds a literal manifestation in our atmosphere's ability to prevent most celestial debris from reaching us ²⁰ ¹⁸ .

- **Jupiter's Gravitational Shield:** The giant planet Jupiter has aptly been called the solar system's “cosmic vacuum cleaner.” Its massive gravitational field intercepts or deflects many potential intruders. Long-period comets from the Oort Cloud or asteroids perturbed from the outer belt often get caught by Jupiter's gravity ¹ . Instead of barreling toward Earth, they may collide with Jupiter or be flung out of the solar system altogether. The Shoemaker-Levy 9 incident is a case in point – Jupiter's pull ripped that ~2 km comet into fragments which then slammed into Jupiter in July 1994 ¹⁶ , creating huge fireballs in Jupiter's atmosphere but sparing the inner planets. Without Jupiter's presence, Earth would be far more exposed to stray comets. In essence, Jupiter “keeps the heavens from falling” on inner worlds by vacuuming up a large share of dangerous debris.
- **Asteroid Belt Stability:** The **main asteroid belt** itself, lying ~300 million km from the Sun, acts as a buffer zone. While it contains millions of asteroids, they are spread over enormous distances, and

most stay in stable orbits between Mars and Jupiter ². Gravitational resonances with Jupiter (and to a lesser extent Mars) tend to either confine asteroids to specific belts or eject them entirely, rather than letting them roam freely into Earth-crossing paths ². Moreover, subtle forces like the Yarkovsky effect (sunlight warming and re-radiating from an asteroid's surface) can gradually nudge some threatening asteroids into safer orbits over millennia ²¹. These factors together mean relatively few asteroids escape the belt to menace Earth.

- **Tidal Fragmentation and Ejection:** The solar system's dynamics further protect Earth through what might be called gravitational “housekeeping.” If a small comet or asteroid ventures too close to a large planet or the Sun, **tidal forces** can tear it apart ²². A comet that swings near the Sun, for instance, often disintegrates into smaller fragments that pose less threat. Similarly, near passes by Jupiter or other giants can sling objects out of the solar system entirely ²³. Over the eons, many would-be impactors have thus been **ejected** into interstellar space or reduced to rubble by such encounters, thinning out the population of potential Earth-crossers.

- **The Moon – A Silent Cratered Sentinel:** Earth's own **Moon** provides a modest shield. Its surface is covered in craters from asteroid impacts that might otherwise have struck Earth ²⁴. While the Moon is much smaller than Earth, it has still intercepted some incoming meteors simply by being nearby. Every crater on the Moon is a reminder that it acted as a “sacrificial target.” Statistically, the Moon doesn't catch a large fraction of meteors, but its presence is not insignificant – it has undoubtedly diverted certain impacts. In any case, the Moon also testifies to what *did* get through the gauntlet: by studying lunar craters (and Earth's own hidden impact craters), scientists see evidence that the **early solar system** was far more hazardous than today ¹⁷.

- **Early Solar System Clearing:** In the formative days of the solar system (over 4 billion years ago), impacts were rampant – a period aptly named the **Late Heavy Bombardment**. Over time, however, most of that primordial debris was either swept up by planets, flung out of the system, or stuck in stable niches. This “**self-cleaning**” of the solar system left far fewer large bodies on collision courses with Earth ¹⁷. The asteroid belt's empty gaps (like the Kirkwood gaps) show where Jupiter's resonances cleared out or prevented unstable orbits ²⁵. By the time complex life evolved on Earth, the barrage had dramatically lessened. From a faith perspective, one might view this as a merciful arrangement: the cosmos was designed such that Earth's environment became calm enough for life to thrive. The Quran's assurance that “*God has made everything on the earth of service to you*” (22:65) includes this idea that even cosmic timelines and gravitational choreography ultimately serve our habitation.

In summary, multiple **astronomical defenses** ensure that while tiny meteors fall daily as shooting stars, devastating impacts are exceedingly rare. Earth's atmosphere, the giant guardian Jupiter, the structured asteroid belt, gravitational safety valves, and the Moon's presence all work in concert like layers of an cosmic insurance policy ³ ²⁶. Little wonder that the Qur'an calls the sky over us a “*safe canopy*”. This remarkable congruence of natural factors can be viewed through a theological lens as part of “*God's compassion and mercy to mankind*” (22:65) – an example of how divine providence might manifest through the laws of physics. At the same time, science reminds us that Earth is not entirely immune: large impacts, though infrequent, have happened and can happen again. One such divinely “permitted” event in the past dramatically altered the course of life on Earth – to which we turn next.

The Dinosaur-Killing Impact: When the Heavens *Did* “Fall” by God’s Permission

In Earth’s long history, there have been a few occasions when, in the Quran’s terms, the “heavens” were allowed to strike the earth – rare catastrophic impacts that escaped the usual safeguards. The most famous of these is the end-Cretaceous asteroid impact ~66 million years ago, which annihilated the dinosaurs. Though the Quran of course does not explicitly mention dinosaurs or asteroids, believers might see this event as an example of “*without His permission*” in verse 22:65 – implying that God, for His purposes, lifted the usual protection in this instance. Philosophically, this raises profound questions: was this destruction a random accident or part of a deeper plan to pave the way for humankind? The sequence of scientific evidence leans toward the latter interpretation in hindsight, as it was precisely this mass extinction that allowed mammals (and eventually humans) to dominate Earth ⁴.



Artist's impression of the Chicxulub asteroid impact 66 million years ago, which struck Earth with unimaginable force. This cosmic collision – a **10–15 km wide** asteroid slamming into what is now the Yucatán Peninsula in Mexico – released energy on the order of billions of atomic bombs exploding at once ⁵. The impact gouged out a crater about **150 km in diameter** (the **Chicxulub crater**), vaporized trillions of tons of rock, and lofted a cloud of super-heated debris high into the atmosphere ⁵ ²⁷. Immediate effects would have been apocalyptic: **mega-tsunamis** thousands of meters high radiating from the impact site, and global **firestorms** ignited by red-hot ejecta raining back down through the skies ²⁸. Within hours, much of the earth's surface was scorched.

In the aftermath, a shroud of dust, soot, and sulfuric aerosols enveloped the planet, blocking sunlight for months. This induced a “nuclear winter” scenario ²⁹: photosynthesis collapsed, temperatures plummeted, and food chains unraveled. An estimated **75% of all species** perished in the ensuing ecological collapse ³⁰. Not only did all the non-avian dinosaurs die out, but many marine reptiles (like the mosasaurs), flying pterosaurs, and countless plant and plankton species went extinct ³⁰. It was truly the end of an era.

Geological records strongly support this story. A thin worldwide layer of sediment rich in **iridium** (a metal rare on Earth's crust but common in meteorites) marks the 66-million-year-old boundary, evidence of the asteroid's extraterrestrial origin ²⁷. Within this layer are also found **shocked quartz** and microtektites – minerals deformed or melted by titanic pressures – further proof of an immense impact ³¹. In the late 20th century, geologists located the buried **Chicxulub crater** itself, using gravity and magnetic surveys to map its circular shape deep under Yucatán's rocks ³². These findings have made the asteroid impact hypothesis (first boldly proposed by Luis Alvarez and colleagues in 1980) the **scientific consensus** for the dinosaurs' demise ³³.

Ironically, this catastrophic “falling of the sky” was a turning point that benefited us in the long run. With dinosaurs (the previously dominant large animals) gone, ecological niches opened for **mammals** to rapidly diversify and proliferate ³⁴. Our primate ancestors were among those humble mammals that thrived in the post-dinosaur world. Over millions of years, this eventually led to the rise of hominids and modern humans. In a sense, we humans owe our very existence to that fateful asteroid. The Quranic epigraph we began with elegantly notes God's protection but subtly allows that *when* the heavens do fall by His will, it is not in vain – it serves a purpose in His “*intricate plan*” ⁴. The end-Cretaceous impact, however cruel and random it might seem, can be viewed through this lens as a necessary step in Earth's story, one that “*set the stage for the emergence*” of humankind ⁴.

It is sobering to realize that the peaceful world we take for granted was shaped by such violence. Yet, one can discern a profound philosophical point: **creation and destruction are interwoven** in the tapestry of life. The Quran (as well as the Bible) speaks of “*new heavens and a new earth*” and of God's ability to resurrect life from death; in nature, too, renewal often follows catastrophe. The dinosaur-killing meteor, allowed by divine permission, brought devastation yet also renewal – a clearer path for eventually sentient, God-conscious life. This perspective can help reconcile the existence of mass extinctions with a belief in a compassionate Creator: what appears as wrath may hide a mercy in the greater scope of time. In the Quranic worldview, God's mercy is sometimes *behind the scenes*, working through what we perceive as natural events for ends we might only grasp much later.

Cultural Myths and Erroneous Views of Meteors

The sober, scientifically compatible depiction of meteors in the Quran contrasts sharply with how other cultures and religions through history understood “shooting stars.” Without modern knowledge, many civilizations wove imaginative myths around meteors – often attributing spiritual or ominous significance to these streaks of light in the sky. Such interpretations, while fascinating, are now understood to be **erroneous views** born of superstition or symbolism rather than fact. A brief survey of meteor lore across cultures highlights this contrast:

- **Omens of Doom or Change:** In many ancient societies – from Babylon to classical China to medieval Europe – meteors and comets were seen as harbingers of significant events ⁷. A bright shooting star or a blazing comet might be interpreted as a divine message portending the death of a king, the outbreak of war, or natural disasters. For example, the appearance of Halley's Comet in 1066 was feared as an omen of political upheaval in England. These cultures viewed the “heavens falling” with dread, as if the gods were sending warnings. The Quranic perspective, in stark contrast, does not ascribe such astrological superstition to meteors – it never portrays them as omens for earthly events, sticking instead to a naturalistic and theological explanation (meteors as part of God's

creation, even as missiles against devils in a metaphorical sense in one context, but not signs of worldly calamity).

- **Souls or Spirits in Transit:** Some Native American tribes, as well as certain African and other indigenous cultures, believed that meteors represented **spirits**. A shooting star might be seen as the soul of a recently departed person traveling to the afterlife, or an angel/spirit crossing the sky ³⁵. In these traditions, a meteor could be a comforting sign – a loved one’s soul reaching heaven – or occasionally a bad omen if interpreted as a soul cast down. Again, the Quran does not indulge such notions; its emphasis is on personal accountability and direct signs from God, not free-roaming souls streaking through the firmament.
- **Wishing Stars and Good Fortune:** The familiar custom of “*wishing upon a shooting star*” traces back to old European folklore ³⁶. Europeans in the classical and medieval eras sometimes viewed a sudden meteor as a benevolent signal – perhaps a glimpse of divine attention – during which one could make a wish that might be granted. This charming superstition persists today as a cultural trope, even though we know meteors are indifferent natural phenomena. Islam, however, teaches believers to pray directly to God rather than pin hopes on chance celestial events; thus “wishing on stars” has no basis in Islamic practice or Quranic teaching.
- **Divine Weapons or Love Messages:** In Greek and Roman mythology, and even in some Hindu traditions, meteors were occasionally thought to be **symbols of the gods’ actions**. A meteor might be imagined as Zeus hurling thunderbolts, or as a sign of a god’s fleeting presence or favor ³⁷. Some mythologies also saw them as expressions of divine love or drama in the heavens – for instance, a star falling might symbolize a deity descending to earth or a romance between celestial beings. These are rich stories, but they underscore how pre-scientific cultures anthropomorphized natural events. By contrast, the Quranic narrative strips away such fanciful attributions: meteors are simply part of the natural order, created for purposeful functions (one of which, mentioned in Quran 67:5 and 37:6-10, is metaphorically pelting devils – a topic beyond our scope here – but notably even that is framed within God’s dominion, not as chaotic love messages or weapons of capricious deities).

These examples show the human tendency to fill gaps in knowledge with myth and mysticism. Meteors variously became portents, souls, wish-granters, or divine signs in the human imagination. **Crucially, none of these interpretations are scientifically true** – they were cultural narratives for making sense of the unknown. The Quran, revealed in the 7th century, remarkably avoids endorsing any such false ideas. Nowhere does it say that a shooting star will change your fortune or that a meteor portends some earthly event. Instead, the Quran’s mentions of celestial phenomena are either neutral and matter-of-fact or tied to theological lessons that do not conflict with reality. In fact, as discussed, the Quran accurately alludes to protective functions of the sky and acknowledges celestial objects in the space between heaven and earth ^{12 38}. This absence of error or superstition – especially on a topic like meteors which has captivated human fantasy – is noteworthy. It reinforces, for believers, the claim that the Quran is “*beyond doubt and without contradiction*” and is informed by the Creator’s knowledge rather than the Prophet’s milieu. Even a common phenomenon like meteors is situated within a truthful framework: a sign of beauty and part of a purposeful cosmos, not an object of fear or make-believe.

Epilogue: Between Heaven and Earth – Gratitude and Reflection

Looking back up at the night sky, we can appreciate with new depth the Quranic verse, “*He keeps the heavens from falling on the earth without His permission.*” We have seen that this is far more than a poetic flourish. Scientifically, it speaks to the layered security system that shields our fragile world from incessant bombardment – a system that we might call **finely tuned** or even providential ³⁹. Philosophically, it invites us to ponder our place in the universe: how many “coincidences” (from Jupiter’s placement to the thickness of our atmosphere) had to align for Earth to be a cradle for conscious life? The odds of surviving in a cosmic shooting gallery are slim, yet here we are – perhaps not *just* lucky, but protected by design. The verse reminds us that this protection is an aspect of God’s compassion and mercy, one that operates continually without fanfare.

At the same time, the qualifier “*without His permission*” tempers our sense of security with humility. It tells us that while God’s default mode is protection, He may allow disasters for reasons known to Him. The meteor that wiped out the dinosaurs was one such instance – catastrophic, yet ultimately setting the stage for humans to emerge ⁴. Other examples within human history are less drastic but still sobering: the 1908 **Tunguska event** in Siberia, when a ~50 m asteroid exploded and leveled 2,000 km² of forest, reminds us that nature’s fury can strike unexpectedly ³⁹. In 2013, the Chelyabinsk meteor’s shockwave injured people and served notice that even smaller cosmic fragments can impact our modern societies. These events, though minor compared to Chicxulub, are like *divine whispers* that we should not take our safety for granted. They encourage us to use our God-given intellect to further protect ourselves – hence the rise of asteroid monitoring programs and planetary defense initiatives in recent years ⁴⁰. In Islamic thought, trusting in God goes hand in hand with taking responsible action (“*tie your camel first, then trust in Allah*”). Accordingly, while we are grateful for the natural shields God put in place, we also are called to remain vigilant and proactively extend that protection (through science and technology) where we can ³⁹.

In the end, the interplay of **scientific truth and spiritual insight** in Qur’an 22:65 offers a rich field for reflection. It shows how religious texts can harmonize with, rather than oppose, scientific understanding when read in the proper light. It also elevates our appreciation of the night sky: not as a realm of random terror or fanciful omens, but as a deliberately ordered canopy full of signs and safeguards. When we gaze at a shooting star now, we might still feel a sense of wonder – but informed by knowledge, our wonder can transform into **gratitude**. Gratitude for the atmosphere that incinerates most meteors before they ever reach us; gratitude for Jupiter’s silent guardianship out in the dark; gratitude for the rare cosmic sacrifice that cleared the way for our existence; and above all, gratitude to the “*Most Compassionate, Most Merciful*” who arranged the heavens and earth in such perfect balance. In an age where science has mapped asteroid orbits and dated craters, the ancient scripture’s words ring with new meaning: truly, the sky above is a *secure canopy* and the disasters that do befall us never escape God’s permission or wisdom. This realization inspires a humble awe – at once scientific, philosophical, and theological – as we stand *between heaven and earth*, beneficiaries of both cosmic order and divine mercy.

References:

1. The Holy Qur’an, English Translation (references: 21:32, 22:65, 2:22, 40:64, 21:17–18, 46:4, 67:5, etc.)
2. Zia H. Shah, “*The Glorious Quran, A Meteor Strike and the Dinosaurs,*” **The Quran and Science** (March 28, 2025) ⁴ ⁵.
3. Zia H. Shah, “*The Glorious Quran and Astronomical Mechanisms Minimizing Meteor Impacts on Earth,*” **The Quran and Science** (March 28, 2025) ³ ³⁹.

4. Zia H. Shah, "Meteors: Establish the truth of the Holy Quran," **The Quran and Science** (August 5, 2017) ¹⁵ ¹³ .
5. Paul Davies, *The Fifth Miracle: The Search for the Origin and Meaning of Life* – on interstellar molecules (referenced in [12]).
6. Luis Alvarez et al., 1980. *Extraterrestrial Cause for the Cretaceous-Tertiary Extinction*. *Science*, **208**(4448): 1095-1108 – proposal of the dinosaur extinction asteroid hypothesis ³³ .
7. Renne et al., 2013. *Time Scales of Critical Events Around the Cretaceous-Paleogene Boundary*. *Science*, **339**(6120): 684-687 – updated dating of Chicxulub impact and extinction.
8. NASA JPL, "Chicxulub Impact Site" (Press Release, 1998) ⁴¹ – description of the artist's illustration of the impact.
9. Clark R. Chapman & David Morrison, 1994. *Impacts on the Earth by Asteroids and Comets: Assessing the Hazard*. *Nature*, **367**: 33-40 – on the frequency of impacts and Jupiter's role.
10. Yeomans et al., 1997. *The Comet Shoemaker-Levy 9 Incident*. *Astronomical Journal* – analysis of Jupiter's capture of SL9 ¹⁶ .
11. Steel, Duncan, 2015. *Tunguska: Impact of a Mini-Comet*. – discussion on Tunguska 1908 airburst.
12. NASA Planetary Defense Coordination Office – official website on monitoring near-Earth objects ⁴⁰ .

¹ ² ³ ⁶ ⁹ ¹⁰ ¹¹ ¹⁶ ¹⁷ ¹⁸ ¹⁹ ²¹ ²² ²³ ²⁴ ²⁵ ²⁶ ³⁹ ⁴⁰ The Glorious Quran and Astronomical Mechanisms Minimizing Meteor Impacts on Earth – The Glorious Quran and Science

<https://thequran.love/2025/03/28/the-glorious-quran-and-astronomical-mechanisms-minimizing-meteor-impacts-on-earth/>

⁴ ⁵ ⁷ ⁸ ¹² ²⁷ ²⁸ ²⁹ ³⁰ ³¹ ³² ³³ ³⁴ ³⁵ ³⁶ ³⁷ The Glorious Quran, A Meteor Strike and the Dinosaurs – The Glorious Quran and Science

<https://thequran.love/2025/03/28/the-glorious-quran-a-meteor-strike-and-the-dinosaurs/>

¹³ ¹⁴ ¹⁵ ³⁸ Meteors: Establish the truth of the Holy Quran – The Glorious Quran and Science

<https://thequran.love/2017/08/05/meteors-establish-the-truth-of-the-holy-quran/>

²⁰ The Well-Protected Roof – A Miracle of the Quran - إسلام ويب

<https://www.islamweb.net/en/article/235357/the-well-protected-roof-%E2%80%93-a-miracle-of-the-quran>

⁴¹ File:Chicxulub impact - artist impression.jpg - Wikipedia

https://en.m.wikipedia.org/wiki/File:Chicxulub_impact_-_artist_impression.jpg