

Climate Change, Environmental Responsibility, and Islamic Ethical Perspectives A Synthetic Academic Framework Integrating Empirical Climate Science, Eco-Theology, and Shariah Jurisprudence

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HOW TO CITE: | ABSTRACT:

Aneeba Basharat, H.Saman Sarwar, Sumera Sharif, Hafsa Maryam, Shaista Jabeen, Syeda Ayesha Rizvi, Engr.M.Umar Nasir, Meesam Hussain, (2026). Climate Change, Environmental Responsibility, and Islamic Ethical Perspectives A Synthetic Academic Framework Integrating Empirical Climate Science, Eco-Theology, and Shariah Jurisprudence.

International Journal of Special Education, 41(23s), 641 - 648

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Anthropogenic climate change is no longer just a technical or economic issue; it is a profound moral crisis that forces us to re-examine how human societies relate to the natural world. This paper bridges empirical climate data with Islamic eco-theology and jurisprudence. Drawing on recent findings from the IPCC, UNEP, and WMO, we first outline the physical reality of global warming, ocean acidification, and severe ecosystem stress phenomena that disproportionately harm vulnerable communities across the Global South. We then unpack the core tenets of Islamic environmental ethics: Tawhid (divine unity), Khalifah (stewardship), Amanah (trust), Mizan (cosmic balance), and Fitrah (primordial harmony), alongside explicit warnings against Israf (wastefulness). Moving from theology to legal application, the paper demonstrates how Fiqh al-Biah (environmental jurisprudence) and Maqasid al-Shariah (the higher intents of Islamic law) supply practical legal tools like Hima reserves, Haram zones, and Waqf trusts. Finally, by examining milestones like the 2015 Islamic Declaration on Global Climate Change and community-led projects like Eco-Pesantrens, we show how a faith-anchored worldview can meaningfully drive climate action.

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Keywords: Climate Change, Islamic Environmental Ethics, Eco-Theology, Khalifah, Mizan, Maqasid al-Shariah, Fiqh al-Biah, Sustainable Development, Climate Justice.

1. Introduction

The modern ecological crisis presents an unsettling reality. Surging global temperatures, rapid species loss, depleted freshwater supplies, and volatile weather patterns are no longer distant warnings; they are active, human-caused disruptions of our planet's life-support systems (IPCC, 2023; UNEP, 2021). For decades, international responses have leaned almost entirely on market mechanisms, carbon offset schemes, and technocratic policies. Yet, as atmospheric carbon concentrations reach record highs, it has become clear that technological quick-fixes cannot resolve a crisis rooted in deeper cultural habits, economic models, and ethical choices (Khalid, 2019; WMO, 2024).

1.1 The Anthropocene and the Limits of Industrial Modernity

Environmental philosophers and theologians argue that the roots of climate disruption lie in a flawed worldview (Nasr, 1996; Ozdemir, 2003). Industrial modernity has long treated the natural world as an infinite storehouse of raw materials waiting to be extracted, processed, and monetized (Foltz et al., 2003; Khalid, 2019). This strictly utilitarian view severs the relationship between human activity and planetary limits. In response, scholars are revisiting religious and indigenous ethical systems to see how moral and spiritual values might encourage ecological restraint and a deeper respect for the earth (Al-Jayyousi et al., 2022; Foltz et al., 2003).

1.2 Islam's Built-in Environmental Mandate

Islam offers a systematic, legally binding framework for environmental responsibility rooted directly in the Qur'an and the Sunnah (Izzi Dien, 2000; Rakhmat, 2022). In Islamic thought, caring for creation is not an afterthought or a modern political concession it is an essential requirement of faith (Khalid, 2019; Shaleh & Islam, 2024).

With over 1.9 billion Muslims globally, many Muslim-majority regions across Asia, Africa, and the Middle East are experiencing the worst impacts of climate change firsthand, including extreme water scarcity, heatwaves, and soil degradation (Aftab et al., 2024; Katohar et al., 2023). Connecting climate science with Islamic ethics is therefore a practical necessity for policy and development in these regions (Ali & Agushi, 2024; Nasir et al., 2021).

1.3 Research Scope and Structure

This paper examines the intersection of climate science, human moral agency, and Islamic law. Specifically, it aims to:

- Summarize physical climate diagnostics using recent IPCC, UNEP, and WMO data.
- Detail key concepts in Islamic eco-theology, including Tawhid, Khalifah, Amanah, Mizan, and Fitrah.
- Explore Fiqh al-Biah (environmental jurisprudence) and show how legal tools like Maqasid al-Shariah apply to modern environmental governance.
- Review real-world institutional efforts, such as the 2015 Islamic Declaration on Climate Change and community-level Green Mosque initiatives.
- Offer actionable recommendations for policy integration.

2. Physical Realities: Scientific Diagnostics and Tipping Points

Building a moral framework for environmental responsibility requires starting with clear, empirical scientific data. Modern climate science relies on extensive data from satellite tracking, ocean buoys, ice core sampling, and complex atmospheric modeling (IPCC, 2023; WMO, 2024).

2.1 Greenhouse Gas Trajectories and Atmospheric Warming

The IPCC's Sixth Assessment Report confirms that human activity—primarily burning fossil fuels, clearing land, and industrial farming—is the primary driver of global warming (IPCC, 2023). Average surface temperatures between 2011 and 2020 were 1.09°C higher than pre-industrial levels, with individual recent years approaching or exceeding 1.3°C above baseline averages (IPCC, 2023; WMO, 2024).

This warming is caused by rising greenhouse gas concentrations. Atmospheric CO₂ levels have passed 420 parts per million (ppm)—a 150% rise above pre-industrial levels (~280 ppm) (WMO, 2024). Methane (CH₄) and nitrous oxide (N₂O) levels have also increased dramatically, trapping heat in the lower atmosphere and creating a growing energy imbalance across the biosphere (IPCC, 2023; WMO, 2024).

Diagnostic Indicator	Scientific Benchmark	Key Ecological & Socio-Economic Impacts
Global Temperature Rise	+1.1°C to +1.3°C above baseline	Drives severe heatwaves, shifts crop-growing seasons, disrupts rainfall, and fuels intense wildfires (IPCC, 2023).
Atmospheric CO ₂ Levels	> 420 ppm (150% of pre-industrial)	Causes ocean acidification (pH drop of ~0.1 units), weakening marine ecosystems and damaging coral reefs (WMO, 2024).
Sea Level Rise Acceleration	~3.4 mm/year	Increases coastal erosion, contaminates freshwater aquifers with saltwater, and threatens coastal cities (IPCC, 2023).
Biodiversity Depletion	> 1 million species threatened	Disrupts ecosystems, reduces natural pest control, and threatens global crop pollination (UNEP, 2021).

2.2 Planetary Boundaries

UNEP highlights three overlapping crises: warming temperatures, biodiversity loss, and widespread pollution (UNEP, 2021). Scientists warn that humanity has already passed safe operating limits for several Earth systems, including climate stability, land usage, and nitrogen cycles (UNEP, 2021). Pushing past these boundaries risks triggering permanent tipping points, such as thawing permafrost or melting ice sheets, which would release massive additional amounts of carbon and accelerate warming beyond our ability to adapt (IPCC, 2023; UNEP, 2021).

2.3 Regional Vulnerabilities in Muslim-Majority Nations

Climate impacts are unevenly distributed. Developing nations across the Global South contribute relatively little to historical global emissions, yet they face the immediate physical consequences (Aftab et al., 2024; Katohar et al., 2023).

Pakistan's extreme 2022 floods submerged vast areas of land, affected 33 million people, and caused over \$30 billion in infrastructure and economic losses—an event directly tied to intensified glacial melt and shifting monsoons (Aftab et al., 2024; Katohar et al., 2023).

Meanwhile, the Middle East and North Africa are warming at twice the global average rate, leading to worsening groundwater shortages and expanding desertification (Ali & Agushi, 2024; Katohar et al., 2023).

3. Theological Foundations of Islamic Environmental Ethics

Islamic eco-theology views nature not as a collection of random physical objects, but as a purposeful creation designed with balance and intent (Izzi Dien, 2000; Khalid, 2019; Nasr, 1996; Ozdemir, 2003).

3.1 Tawhid: Divine Unity and Nature as 'Ayat'

The core principle of Islam is Tawhid—the absolute oneness and sovereignty of God. Applied to the environment, Tawhid means that God created, owns, and sustains the entire universe. Everything in nature—animals, oceans, plants, and air—is part of an interconnected creation owned by the Creator (Nasr, 1996; Ozdemir, 2003).

Nature is filled with Ayat (divine signs). Natural phenomena point toward the majesty and order of the Creator:

"To Allah belongs whatever is in the heavens and whatever is on the earth. And Allah is ever, of all things, Encompassing."

Surah An-Nisa (4:126)

The Qur'an also describes all natural entities as constantly engaging in silent praise (Tasbih):

"The seven heavens and the earth and whatever is in them exalt Him. And there is not a thing except that it exalts [Allah] by His praise."

Surah Al-Isra (17:44)

Wiping out a species, polluting a river, or destroying a forest is therefore not just physical damage; it actively disrupts a living community of divine praise (Khalid, 2019; Rakhmat, 2022).

3.2 Khalifah and Amanah: Earthly Stewardship

Humanity's role on Earth is defined by Khalifah (stewardship) and Amanah (a sacred trust) (Rakhmat, 2022; Shaleh & Islam, 2024):

"And [mention, O Muhammad], when your Lord said to the angels, 'Indeed, I will make upon the earth a successive authority (Khalifah).'"

Surah Al-Baqarah (2:30)

Being a Khalifah does not grant humans license to exploit nature. Humans are custodians, allowed to use natural resources for basic needs while maintaining and protecting the environment (Aftab et al., 2024; Izzi Dien, 2000). This role comes with strict accountability (Hisab). Neglecting this trust (Amanah) through environmental destruction constitutes Tughyan an abuse of authority (Ahmad et al., 2021; Al-Damkhi, 2008).

3.3 Mizan: Maintaining Ecological Balance

The concept of Mizan emphasizes that God created the universe in precise balance:

"And the heaven He raised and imposed the balance (Mizan), that you not transgress within the balance. And establish weight in justice and do not make deficient the balance."

Surah Ar-Rahman (55:7–9)

Human actions that disrupt these delicate natural balances produce Fasad (corruption/ecological harm):

"Corruption (Fasad) has appeared throughout the land and sea by reason of what the hands of people have earned..."

Surah Ar-Rum (30:41)

Scholars view Surah Ar-Rum verse 41 as a clear diagnosis of environmental degradation: when human greed breaks the natural balance (Mizan), environmental backlashes such as floods and droughts follow, serving as a reminder to return to responsible behavior (Aftab et al., 2024; Katohar et al., 2023).

3.4 Fitrah and Restraint in Daily Life

Fitrah represents the innate, balanced nature of creation. Living in harmony with creation requires inner alignment. To protect this balance, Islam explicitly forbids excessive consumption (Israf) and waste (Tabdhir) (Ahmad et al., 2021; Katohar et al., 2023):

"eat and drink, but be not excessive. Indeed, He likes not those who commit excess (Israf)."

Surah Al-A'raf (7:31)

This restraint applies everywhere. The Prophet Muhammad (peace be upon him) instructed his followers never to waste water, even when performing ablutions (Wudu) beside a flowing river (Sahih Ibn Majah). He also highlighted the continuous spiritual value of planting trees:

"There is no Muslim who plants a tree or sows a seed, and then a bird, or a person, or an animal eats from it, but it is regarded as a charitable gift for him."

Sahih al-Bukhari & Sahih Muslim

4. Fiqh al-Biah: Translating Ethics into Legal Frameworks

Beyond personal ethics, classical Islamic law (Shariah) provides explicit legal tools for governance, known modernly as Fiqh al-Biah (Environmental Jurisprudence) (Ali & Agushi, 2024; Nasir et al., 2021, 2022).

4.1 Maqasid al-Shariah and Environmental Care

Traditional Islamic jurisprudence protects five basic human necessities (Al-Darūriyyāt al-Khamsah):

- Protection of Faith (Hifz al-Din)
- Protection of Life (Hifz al-Nafs)
- Protection of Intellect (Hifz al-'Aql)
- Protection of Lineage/Progeny (Hifz al-Nasl)
- Protection of Wealth/Property (Hifz al-Mal)

Climate disruption threatens each of these areas. Pollution and heatwaves destroy human health (Hifz al-Nafs), climate migration impacts families

(Hifz al-Nasl), and extreme weather damages economic assets (Hifz al-Mal). Consequently, contemporary jurists argue that environmental preservation (Hifz al-Biah) is a necessary foundation for all five necessities (Ali & Agushi, 2024; Nasir et al., 2021, 2022).

4.2 Legal Maxims in Action

Classical legal principles (Qawa'id Fiqhiyyah) offer clear guidance for contemporary climate policies (Nasir et al., 2022; Shaleh & Islam, 2024):

- **'There shall be no harm, nor reciprocating harm' (La darar wa la dirar):** Outlaws industrial practices, toxic runoff, or excessive emissions that cause public harm (Al-Damkhi, 2008; Nasir et al., 2022).
- **'Preventing harm takes precedence over seeking benefits' (Dar' al-mafasid):** Requires that long-term ecological protection take priority over short-term economic profits (Ali & Agushi, 2024).
- **'Liability accompanies gain' (Al-ghurm bi al-ghunm):** Establishes an Islamic basis for the Polluter Pays Principle, holding industries financially responsible for cleanups (Nasir et al., 2022).

4.3 Traditional Conservation Institutions

Classical Islamic governance relied on three specific institutions for resource management (Gari, 2006; Izzi Dien, 2000):

- **Hima (Protected Reserves):** Public lands managed by local authorities to protect forests, watersheds, and wildlife from private exploitation (Gari, 2006).
- **Haram (Inviolable Buffer Zones):** Protected zones around wells, rivers, and cities where construction and dumping were strictly banned to keep water clean (Izzi Dien, 2000).
- **Waqf (Charitable Trusts):** Endowments that permanently fund public wells, municipal forestry, animal welfare, and sustainable farming systems (Gari, 2006; Nasir et al., 2022).

5. Institutional Initiatives and Grassroots Movements

In recent years, scholars and civil groups have worked to translate these principles into active global initiatives (Anabarja & Safil Mubah, 2021; IICCS, 2015).

5.1 The 2015 Islamic Declaration on Global Climate Change

In 2015, scholars, theologians, and climate experts gathered in Istanbul to release the Islamic Declaration on Global Climate Change (IICCS, 2015). Led by scholar Fazlun Khalid, the declaration framed fossil-fuel dependence as a direct violation of cosmic balance (Mizan) (Khalid, 2019; IICCS, 2015). It urged:

- **Global Policymakers:** To set binding emission cuts and phase out fossil fuel reliance (IICCS, 2015).
- **Oil-Producing Nations:** To lead in clean energy investments and support climate adaptation in developing regions (IICCS, 2015).
- **Muslim Communities Globally:** To adopt low-waste lifestyles and treat environmental care as a central duty of faith (IICCS, 2015; Khalid, 2019).

5.2 Community Action and Green Fatwas

- **Eco-Pesantren Programs (Indonesia):** Thousands of Islamic boarding schools across Indonesia now incorporate renewable energy, organic farming, and waste recycling into their everyday operations (Anabarja & Safil Mubah, 2021).
- **Green Mosques:** Projects globally are retrofitting mosques with solar panels, water recycling systems for ablutions, and dedicated sermons on environmental ethics (Aftab et al., 2024; Ali & Agushi, 2024).
- **Environmental Fatwas:** Legal scholars in Southeast Asia and Africa have issued formal legal rulings (Fatwas) declaring illegal logging, wildlife poaching, and river pollution as strictly forbidden (Haram) under Shariah law (Anabarja & Safil Mubah, 2021; Nasir et al., 2022).

6. Comparing Worldviews and Practical Steps Forward

Comparing industrial economic models with Islamic eco-theology reveals clear differences in how nature and human responsibility are understood:

Dimension	Modern Industrial Model	Islamic Framework	Eco-Theological
View of Nature	Nature is a material resource meant for human extraction and economic consumption.	Nature is a creation filled with divine signs (Ayat) and holds intrinsic value.	
Human Role	Humans are owners and consumers driving continuous material growth.	Humans are stewards (Khalifah) holding the earth in trust (Amanah).	
Moral Focus	Market adjustments, carbon pricing, and technocratic policies.	Moral duty, balance (Mizan), waste prevention (Israf), and legal protection.	

6.1 Strategic Policy Recommendations

- **1. Incorporate Environmental Law into Local Legislation:** National legislatures in Muslim-majority countries should formalize legal maxims (La darar) into civil environmental codes to hold polluters accountable (Ali & Agushi, 2024; Nasir et al., 2021).

- **2. Establish Green Waqf Funds:** Mobilize public and private charitable endowments to fund solar energy projects, municipal water infrastructure, and local reforestation efforts (Gari, 2006; Nasir et al., 2022).
- **3. Expand Educational Curricula:** Integrate eco-theology into school curricula and seminary training, helping community leaders

advocate effectively for local environmental protection (Aftab et al., 2024; Anabarja & Safil Mubah, 2021).

7. Conclusion

Addressing the global climate crisis requires more than just better technology and market incentives. While empirical climate science outlines the physical limits of our planet, it takes deeply held values to motivate genuine lifestyle changes and long-term political commitment.

Islamic environmental ethics provides a clear, faith-anchored path forward. By framing ecological protection through Tawhid, Khalifah, Amanah, and Mizan, care for the earth becomes an essential moral and spiritual duty. When paired with concrete legal tools like Fiqh al-Biah and institutional frameworks like Hima and Waqf, these principles offer a practical model for sustainable development across Muslim-majority nations and the broader global community.

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