

# **The Enduring Bastions: How Mountains Forged the Peoples and Politics of the Middle East (Before 2010)**

## **I. Introduction: The Mountainous Tapestry of the Middle East**

### **A. Defining the Geopolitical and Historical Scope of the "Middle East"**

The term "Middle East," a designation of geopolitical convenience rather than inherent geographical definition, has a complex and evolving history, primarily originating from a Western colonial perspective.<sup>1</sup> Initially coined in English, it gradually supplanted the earlier term "Near East," which Western geographers and historians used to describe the lands closest to Europe, extending from the Mediterranean Sea to the Persian Gulf.<sup>1</sup> The shift in terminology gained traction before World War II and was solidified during the conflict, particularly with its use by the British military command in Egypt.<sup>1</sup>

For the purposes of this report, which examines the historical impact of mountains on peoples up to 2010, the "Middle East" will encompass a core group of territories: the Arabian Peninsula, the Levant (including modern-day Syria, Lebanon, Israel, Palestine, and Jordan), Turkey, Egypt, Iran, and Iraq.<sup>1</sup> This geographical scope is adopted because these regions, despite their diversity, share significant historical interconnections and have all been profoundly shaped by their respective mountainous terrains. By the mid-20th century, common definitions often included these states, and sometimes extended to Cyprus, Sudan, Libya, and, due to strong cultural and political ties, even the North African countries of Tunisia, Algeria, and Morocco, or eastward to Afghanistan and Pakistan.<sup>1</sup> The inclusion of Greece has also been noted in historical contexts, particularly concerning the Eastern Question and the decline of the Ottoman Empire.<sup>1</sup>

The very fluidity of the term "Middle East" underscores an important consideration for regional studies. This variability is not merely semantic; it reflects shifting geopolitical lenses and power dynamics, largely of Western origin. Such definitional elasticity can influence how regional histories, including the enduring role of mountains, are framed, potentially leading to anachronistic interpretations or the oversight of crucial connections with areas sometimes excluded. This report acknowledges this inherent fluidity while employing the defined scope to maintain analytical coherence across a vast and historically intertwined landmass.

### **B. An Overview of Dominant Mountain Systems: Zagros, Taurus, Elburz, Lebanon/Anti-Lebanon, Sarawat, Pontic – Their Formation and**

## General Characteristics

The Middle East is characterized by a dramatic and varied topography, dominated by several major mountain systems. These ranges, far from being inert backdrops, are dynamic geological entities whose formation and characteristics have dictated resource availability, climate patterns, and the very pathways of human history.

- **Zagros Mountains:** This extensive range stretches approximately 1,600 km from northwestern Iran, along its western border, into northern Iraq and southeastern Turkey, finally reaching the Strait of Hormuz.<sup>3</sup> Formed primarily by the collision of the Eurasian and Arabian tectonic plates during the Miocene epoch, the Zagros are a classic example of a fold and thrust belt.<sup>3</sup> This geological history has endowed the region with significant petroleum resources, trapped within its folded sedimentary rocks, predominantly limestone.<sup>3</sup> Historically, the Zagros have served as a formidable barrier between the Mesopotamian Plain and the Iranian Plateau.<sup>3</sup>
- **Taurus Mountains:** Located in southern Turkey, the Taurus Mountains run parallel to the Mediterranean coast, separating it from the central Anatolian Plateau.<sup>4</sup> Like the Zagros, they are a product of tectonic plate collision, primarily composed of limestone which has eroded into karstic landscapes.<sup>4</sup> The range is famously traversed by the Cilician Gates (Gülek Pass), a historically vital corridor connecting coastal Cilicia with inner Anatolia.<sup>4</sup>
- **Elburz Mountains:** This range skirts the southern coast of the Caspian Sea in northern Iran, with Mount Damavand (5,610 m) as its, and Iran's, highest peak.<sup>6</sup> Volcanic in origin, the Elburz forms a significant climatic barrier, with its northern slopes receiving ample precipitation, contrasting sharply with its arid southern flanks.<sup>6</sup>
- **Lebanon and Anti-Lebanon Mountains:** These two parallel ranges define much of Lebanon's topography and extend along its border with Syria.<sup>8</sup> Born from the collision of the African and Arabian tectonic plates, these mountains feature dramatic folds and uplifts, creating diverse landscapes of snow-capped peaks and deep valleys.<sup>8</sup> Historically, they have provided refuge for various communities.<sup>8</sup>
- **Sarawat Mountains:** This range runs parallel to the Red Sea coast of the Arabian Peninsula, from Jordan in the north through Saudi Arabia and into Yemen.<sup>10</sup> Part of the Arabian Shield, these mountains are largely composed of volcanic rock and significantly influence the local climate, capturing monsoon rains and supporting agriculture in their wadis.<sup>10</sup>
- **Pontic Mountains (Pontic Alps):** These form an imposing barrier along the southern coast of the Black Sea in Turkey, characterized by high ridges (reaching almost 4,000 meters) and deep, parallel valleys that historically made them difficult to penetrate.<sup>12</sup>

The shared tectonic origins of many of these ranges (Zagros, Taurus, Lebanon/Anti-Lebanon) mean they often exhibit common geological features, such as limestone formations and seismic activity. However, the specific nuances of their formation, coupled with varying erosional histories and climatic influences, have resulted in unique topographies and distinct

distributions of natural resources. This geological diversity has, in turn, necessitated varied human adaptive strategies across the mountainous Middle East, highlighting how deep geological processes are fundamental, yet often unacknowledged, drivers of diverse human-environment interactions.

**Table 1: Principal Mountain Ranges of the Middle East and Their Defining Characteristics**

Mountain Range	Geographic Location (Countries)	Key Peaks/Elevation (approx.)	Dominant Geological Features/Formation	Primary Associated Historical Peoples/Cultures (Examples)
Zagros Mountains	Iran, Iraq, Turkey	Mount Dena (4,409 m) <sup>3</sup>	Fold & thrust belt (tectonic collision), limestone, petroleum deposits	Sumerians (periphery), Elamites, Kassites, Medes, Persians, Kurds, Lurs, Bakhtiari, Assyrians <sup>3</sup>
Taurus Mountains	Turkey	Demirkazık (3,756 m)	Tectonic collision, limestone, karstic landscapes, Cilician Gates	Hittites, Luwians, Hurrians, Romans, Byzantines, Seljuks, Yoruks <sup>4</sup>
Elburz Mountains	Iran	Mount Damavand (5,610 m) <sup>6</sup>	Volcanic origin, climatic barrier, sedimentary series over granite core	Persians, Medes, Nizari Ismailis (Assassins) <sup>6</sup>
Lebanon Mountains	Lebanon	Qurnat as Sawda' (3,088 m) <sup>8</sup>	Tectonic uplift, limestone, dramatic folds	Phoenicians, Maronite Christians, Druze <sup>8</sup>
Anti-Lebanon Mts.	Lebanon, Syria	Mount Hermon (2,814 m) <sup>9</sup>	Tectonic uplift, limestone, chalk	Amorites, Israelites, Arameans, Romans <sup>9</sup>
Sarawat Mountains	Saudi Arabia, Yemen	Jabal An-Nabi Shu'ayb (3,666 m) <sup>11</sup>	Arabian Shield (volcanic rock), escarpment, wadis	Ancient South Arabians, Nabataeans (influence), various Arab tribes <sup>10</sup>
Pontic Mountains	Turkey	Kaçkar Dağı (3,937	Folded zone, part	Hittites

		m)	of Alpid belt, deep valleys	(influence), Pontic Greeks, Byzantines, Ottomans <sup>12</sup>
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C. Thesis Statement

Mountains in the Middle East have served as more than mere geographical features; they have been pivotal, multifaceted agents in shaping the historical trajectory, cultural identities, socio-economic development, resource distribution, political dynamics, and spiritual landscapes of the region's diverse peoples before 2010. Their rugged terrains have acted as cradles of early civilization, barriers to and corridors for movement, sanctuaries for threatened communities, and sources of essential resources and profound spiritual inspiration.

II. Mountains as Cradles, Corridors, and Cul-de-Sacs:  
Shaping Settlement, Culture, and Movement

A. The Mountain's Edge: Early Human Habitation, Agricultural Origins, and Urbanization

The foothills and intermontane valleys of the Middle East's great ranges provided remarkably conducive environments for the earliest phases of human settlement and the dawn of agriculture. These transitional zones offered a unique confluence of resources: reliable water from mountain-fed streams and springs, diverse microclimates fostering a rich variety of domesticable plants and animals, and naturally defensible locations against predators or rival groups.<sup>3</sup> This concentration of resources often reduced the necessity for extensive nomadism, thereby encouraging sedentarization. This shift towards settled life was a critical precursor to the development of systematic agriculture, which in turn led to food surpluses, population growth, and eventually, the emergence of complex societies and the world's first urban centers. Mountains, in this sense, were not passive backdrops but active catalysts in the Neolithic Revolution across significant parts of the Middle East.

The Zagros Mountains stand as a paramount example of this process. Archaeological investigations have unearthed evidence of Lower Paleolithic human occupation, including Neanderthal remains from Shanidar Cave dating back 65,000–35,000 years.<sup>3</sup> Crucially, the foothills of the Zagros show signs of early agricultural practices as far back as 9000 BC.<sup>3</sup> The western slopes, benefiting from a more favorable climate, were particularly suited to agriculture and animal husbandry.<sup>29</sup> It was in such environments that early settlements like Jarmo, and later the cities of Anshan and Susa, took root and flourished.<sup>3</sup> The domestication of key founder crops, including emmer and einkorn wheat, and barley, has strong ties to the mountainous regions of Turkey and the Zagros.<sup>30</sup>

The broader Fertile Crescent, often considered the cradle of civilization, is geographically defined in part by its mountainous peripheries, including the Taurus and Zagros ranges. The

rich alluvial plains of Mesopotamia, watered by the Tigris and Euphrates rivers whose headwaters lie in the Taurus Mountains<sup>31</sup>, became home to the Sumerian civilization around 6,000 years ago.<sup>21</sup> The predictable (though sometimes destructive) flooding of these rivers, fed by mountain snowmelt and rainfall, was fundamental to their agricultural productivity.<sup>21</sup> Thus, the very foundations of urban life and complex state societies in the Middle East are inextricably linked to the resources and environmental conditions shaped by its mountain systems.

## **B. Isolation and Diversification: The Genesis of Distinct Cultural, Linguistic, and Genetic Landscapes in Mountainous Enclaves**

The formidable and often fragmented topography of Middle Eastern mountain ranges has played a crucial role in fostering and preserving a remarkable degree of cultural, linguistic, and genetic diversity among the region's peoples.<sup>21</sup> The physical isolation imposed by rugged peaks, deep valleys, and difficult passes naturally limited sustained interaction between communities inhabiting different mountain enclaves, as well as between mountain dwellers and lowland populations.<sup>21</sup> This isolation acted as a powerful brake on cultural homogenization and the expansionist agendas of empires, allowing distinct traditions to evolve and persist over millennia.<sup>21</sup>

These mountainous regions effectively became "islands" for human populations, reducing gene flow and linguistic borrowing from external, often larger or more dominant, lowland groups. Over extended periods, this isolation facilitated unique patterns of genetic drift and allowed for the independent evolution or tenacious preservation of distinct languages, dialects, and cultural practices.<sup>3</sup> Consequently, many mountain areas in the Middle East have served as living laboratories of ethno-linguistic evolution and resilience, becoming reservoirs of ancient linguistic and genetic diversity that might otherwise have been erased on the more accessible and frequently contested plains.

The Zagros Mountains, for example, are home to a mosaic of distinct groups such as the Kurds, Lurs, Bakhtiari, and Assyrians, each possessing unique linguistic heritages and cultural traditions that have been shaped by their long history within this mountainous territory.<sup>3</sup> Genetic studies corroborate this pattern, indicating that populations like the Iraqi Kurds show closer genetic affinities with other groups from the Iranian plateau (itself largely mountainous) than with geographically nearer Levantine or Arabian populations, suggesting that the mountains have channeled or restricted gene flow.<sup>35</sup> Similarly, the ancient Near East was a region of immense linguistic diversity, with mountains providing shelter for numerous language families and isolates, such as Hurrian and Elamite, which were historically associated with the Zagros region.<sup>3</sup> While the later spread of major languages like Arabic, Persian, and Turkish overlaid some of this ancient diversity, many distinct linguistic forms continued to thrive in mountain refugia.<sup>37</sup> This preserved diversity, nurtured in the isolation of the mountains, has significantly contributed to the complex ethnic tapestry of the Middle East and has often formed the bedrock for distinct national or sub-national identities that have demonstrated remarkable persistence despite subsequent waves of migration, conquest, or

cultural influence. The mountains, therefore, did not merely passively shelter these groups; they actively shaped their distinct identities by limiting external pressures and fostering internal cohesion and unique evolutionary trajectories.

### **C. Pathways Through Stone: Mountain Passes, Trade Routes (Silk Road, Incense Routes), and the Flow of Peoples and Ideas**

Despite their inherent nature as barriers, the mountain ranges of the Middle East were not insurmountable obstacles to human movement. Instead, they were frequently traversed by vital trade routes, migration pathways, and military expeditions, all channeled through a network of natural passes and valleys. These corridors, often difficult and dangerous, were the arteries of economic exchange, cultural diffusion, and the spread of ideas across the region and beyond, linking disparate civilizations and shaping the course of history. The concentration of movement through these limited channels made them extraordinarily valuable strategic assets. Control over a key pass often translated into control over trade, the ability to monitor or restrict migrations, and a significant defensive advantage against invasions. This strategic importance inevitably led to the fortification of passes and made them frequent theaters of conflict. Beyond their military and economic significance, these passes also became intense zones of cultural interaction, where diverse peoples, goods, and ideas were brought into close and sustained contact, thereby accelerating cultural diffusion along these trans-montane arteries.

The **Zagros Mountains**, for instance, while separating Mesopotamia from the Iranian Plateau, were crisscrossed by routes that facilitated trade and cultural exchange.<sup>3</sup> Archaeological evidence, such as remnants of a stone-paved Roman road near Behbahan<sup>3</sup> and records of interaction between Mesopotamian civilizations and the peoples of the Zagros (like the Elamites and Kassites)<sup>3</sup>, attests to this ancient connectivity. The migration of the Kura-Araxes peoples in the Early Bronze Age also followed routes along the Zagros.<sup>42</sup>

In Anatolia, the **Taurus Mountains** were bisected by the renowned Cilician Gates (Gölek Pass). This pass served as a principal commercial and military artery for millennia, utilized by a succession of peoples and empires including the Hittites, Greeks, Persians, Alexander the Great, Romans, Byzantines, and Crusaders.<sup>4</sup> Its strategic importance is underscored by ancient fortifications like Yumuktepe, which guarded its approaches from as early as 4500 BCE.<sup>5</sup> The pass was indispensable for land travel between Syria and the Anatolian interior.<sup>45</sup>

The **Elburz Mountains** of northern Iran, though formidable, were also part of larger trade networks. The city of Bandar Turkman, situated near the eastern end of the range, functioned as a significant trade entrepôt connecting the Middle East with Central Asia, forming a segment of the famed Silk Road.<sup>6</sup> The Silk Road itself, a vast network of routes linking China with the Mediterranean world, had to navigate numerous high mountain ranges, including the Pamirs and Karakoram, with crucial branches passing through Persia and Anatolia, often skirting or crossing ranges like the Elburz and Taurus.<sup>46</sup> The challenging terrain of these routes, including those traversed by the later Trans-Iranian railway, shaped the nature of the trade and the resilience required of those who undertook such journeys.<sup>52</sup>

Further south, the **Sarawat Mountains** of the Arabian Peninsula played a pivotal role as a corridor for the ancient frankincense trade. This lucrative route conveyed precious resins from southern Arabia northwards towards Mesopotamia and the Mediterranean basin.<sup>10</sup> Later, the Yemeni Hajj route, a significant pilgrimage path, also passed through these mountains.<sup>10</sup> The **Caucasus Mountains**, forming a northern boundary to parts of the Middle East, possessed critical passes such as Daryal (the Alan Gate) and Derbent (the Caspian Gates). These were vital for migrations of peoples like the Cimmerians and Scythians from the Eurasian steppes into the Middle East, and for trade.<sup>54</sup> The strategic value of these passes is evident in the extensive Sasanian fortifications built at Derbent to control movement along this corridor.<sup>55</sup> Similarly, the **Pontic Mountains** along the Black Sea coast, while isolating, were paralleled by coastal routes and connected to the maritime trade of the Black Sea.<sup>57</sup> The existence and use of these mountain passes demonstrate a consistent pattern: where geography constrained movement, these "pathways through stone" became focal points for human activity, control, and exchange, profoundly influencing the economic and cultural landscapes of the surrounding regions.<sup>59</sup>

### III. Refugia and Ramparts: Mountains in Conflict and Coexistence

#### A. Sanctuaries of Survival: Mountains as Havens for Minority and Persecuted Communities

Throughout the tumultuous history of the Middle East, the rugged, inaccessible, and defensible nature of its mountain ranges has repeatedly offered sanctuary to a wide array of ethnic and religious minorities. These groups, often facing persecution, assimilation pressures, or political upheaval in the more exposed lowlands, found in the mountains a degree of security that allowed them to preserve their distinct cultures, religious practices, and a measure of autonomy.<sup>21</sup> While providing critical havens for survival, this very isolation could also, over the long term, contribute to the political and economic marginalization of these communities. By retreating into less accessible, often less fertile, and resource-scarce highland areas, these groups could maintain their identity and independence from dominant lowland states. However, this often meant being distanced from major trade routes, centers of imperial power, and broader socio-economic developments occurring in the plains. This dynamic could perpetuate a cycle where mountain communities remained relatively less powerful and more vulnerable when lowland states did manage to exert control, such as through taxation or military campaigns.<sup>61</sup> The safety afforded by the mountains thus sometimes came with the potential cost of peripheralization, a factor that significantly shaped their interactions with larger polities for centuries.

The **Lebanon and Anti-Lebanon Mountains** are prime examples, having historically served as refuges for Maronite Christians and the Druze.<sup>8</sup> The Druze, an esoteric offshoot of Isma'ili Islam, particularly sought out defensible mountain tops to protect their nascent and often

persecuted community.<sup>23</sup> The distinct demographic and cultural landscape of Mount Lebanon eventually led to its recognition as a semi-autonomous province (Mutasarrifate) within the Ottoman Empire.<sup>22</sup>

The vast **Zagros Mountains** have been a long-standing homeland and refuge for the Kurdish people, whose history is marked by a persistent struggle for cultural preservation and political autonomy in the face of successive empires.<sup>21</sup> The mountainous terrain provided a natural buffer and a base for resistance. Assyrian Christians also found sanctuary within the Zagros. In Anatolia, the **Taurus Mountains**, with their challenging terrain, likely offered refuge to various groups, although specific instances for communities like the Yoruks or early Christians are less explicitly detailed in the provided sources compared to other ranges.<sup>4</sup> The ancient Hurrians, however, are thought by some scholars to have had their origins in this mountain system.<sup>4</sup> Further north, the **Pontic Mountains (Pontic Alps)** were crucial for the Pontic Greeks, who managed to preserve their distinct language, Orthodox Christian faith, and cultural identity for centuries along the frontiers of the Byzantine and later Ottoman Empires.<sup>12</sup> The difficult terrain of the Pontic Alps significantly slowed the processes of Islamization and Turkification that were more pervasive in other parts of Anatolia.<sup>12</sup> During the deportations and violence of World War I, some Pontic Greeks fled into these mountains for safety.<sup>69</sup> The **Elburz Mountains** of northern Iran became the stronghold of the Nizari Ismailis, often known as the Assassins. From formidable mountain fortresses like Alamut, they established a resilient, state-like entity that maintained its independence and influence for nearly two centuries, defying larger empires.<sup>19</sup>

In the Arabian Peninsula, the **Sarawat Mountains** offered a secure and defensible environment, enabling local populations to maintain autonomy and protect themselves from external invaders. This was particularly evident in the 19th century when communities built fortified "hanging villages" in the most inaccessible areas to seek refuge from Ottoman raids.<sup>10</sup>

The **Sinjar Mountains** in northwestern Iraq hold profound religious significance for the Yazidi community and have historically served as their spiritual homeland and a critical place of refuge during periods of intense persecution.<sup>70</sup>

This recurring pattern across the Middle East underscores the vital role mountains played not just in shaping the physical landscape, but in preserving the region's rich human and cultural diversity.

**Table 2: Mountain Ranges as Historical Refuges in the Middle East (Pre-2010)**

Mountain Range	Peoples/Groups Seeking Refuge	Key Historical Periods	Primary Reasons for Seeking Refuge
<b>Lebanon &amp; Anti-Lebanon Mts.</b>	Maronite Christians, Druze, other persecuted sects <sup>8</sup>	Medieval to Ottoman periods, and into modern era	Religious persecution, political conflict, preservation of autonomy, escape from imperial control <sup>22</sup>



<b>Zagros Mountains</b>	Kurds, Assyrians, Lurs, Bakhtiari <sup>21</sup>	Ancient times through Ottoman and modern periods	Imperial expansion, ethnic/cultural preservation, political autonomy <sup>67</sup>
<b>Pontic Mountains (Alps)</b>	Pontic Greeks <sup>12</sup>	Byzantine, Ottoman, early 20th century (WWI) <sup>12</sup>	Preservation of Orthodox Christianity & language, escape from Turkification/Islamization, genocide <sup>12</sup>
<b>Elburz Mountains</b>	Nizari Ismailis (Assassins) <sup>19</sup>	11th - 13th centuries	Religious/political dissent, establishment of an independent state, defense against Seljuks/Mongols <sup>19</sup>
<b>Sarawat Mountains</b>	Local Arab tribes/communities <sup>10</sup>	Antiquity through 19th century (e.g., Ottoman raids)	Defense against external invaders, preservation of autonomy, secure trade halts <sup>10</sup>
<b>Sinjar Mountains</b>	Yazidis <sup>70</sup>	Medieval times to modern era (e.g., ISIS attacks post-2010)	Religious persecution, genocide, preservation of unique faith and culture <sup>70</sup>
<b>Taurus Mountains</b>	Hurrians (possible origin) <sup>4</sup> , potentially others	Ancient to various periods	(Less specifically documented for refuge in snippets but implied by terrain) <sup>4</sup>

## **B. The Strategic High Ground: Natural Defenses, Fortifications, and Mountain Warfare**

Mountains, by their very topography, offer inherent military advantages: commanding observation points, rugged terrain that impedes the advance of conventional armies, and natural choke points at passes that can be more easily defended.<sup>21</sup> These characteristics were consistently recognized and exploited throughout Middle Eastern history, leading to the development of sophisticated defensive strategies, the construction of formidable fortifications, and unique forms of mountain warfare. The inherent defensive qualities of mountains spurred a continuous interplay with human ingenuity; as military technologies and imperial ambitions evolved, so too did the scale and sophistication of mountain fortifications. This co-evolution ranged from simple watchtowers in the Sarawat <sup>10</sup> to complex castle systems like Alamut in the Elburz <sup>19</sup>, and extensive defensive lines such as those built by the

Sasanians in the Caucasus<sup>55</sup>, demonstrating an adaptive process where natural defenses were consistently augmented by human design.

The **Zagros Mountains** frequently served as a natural defensive barrier for empires on the Iranian Plateau, such as the Achaemenid Empire, protecting them from invasions from the west.<sup>59</sup> Control over the passes within the Zagros was crucial for managing troop movements and responding to threats.<sup>59</sup> Even in modern conflicts, such as the Iran-Iraq War in the 1980s, the difficult terrain of the Zagros significantly hindered Iraqi armored advances into Iran.<sup>73</sup>

The **Taurus Mountains** in Anatolia were similarly pivotal. The Cilician Gates, a narrow pass through the range, was a strategic military artery for millennia.<sup>5</sup> Its importance is highlighted by the presence of extremely ancient fortified settlements like Yumuktepe (dating to c. 4500 BCE) guarding its approaches.<sup>5</sup> The ancient city of Termessos, nestled high in the Taurus, successfully leveraged its fortified mountain position to repel the formidable forces of Alexander the Great in 333 BC.<sup>72</sup> Later, Armenian kingdoms constructed significant fortresses such as Gülek Kalesi (Kuklak) and Anahşa in and around the Cilician Gates to control this vital passage.<sup>5</sup>

In northern Iran, the **Elburz Mountains** provided the setting for the legendary fortress of Alamut, the main stronghold of the Nizari Ismailis (Assassins).<sup>19</sup> This and other mountain castles allowed a relatively small group to project power and resist much larger forces for centuries. The strategic city of Ray (Rhages), located in a fertile lowland between the Zagros and Elburz ranges, commanded vital routes across and around these mountains, making it a key to controlling Persia.<sup>18</sup>

The **Sasanian Empire** provides a striking example of systematic mountain defense. To protect their northern frontiers from nomadic incursions from the Eurasian steppes, the Sasanians constructed massive defense lines and fortifications in the passes of the Caucasus Mountains, most notably at Derbent (between the Caspian Sea and the mountains) and in the Darial Gorge.<sup>55</sup> These defenses were critical components of their imperial military strategy.

In the Arabian Peninsula, the inhabitants of the **Sarawat Mountains** developed their own defensive architecture. In response to local wars and external threats, such as Ottoman raids in the 19th century, they constructed watchtowers and fortified "hanging villages" in the most inaccessible and defensible mountainous locations.<sup>10</sup>

Beyond fixed fortifications, mountainous terrain has always favored irregular warfare. Guerrilla tactics, leveraging superior local knowledge, mobility, and the element of surprise, have been effectively employed by mountain-dwelling communities or resistance groups throughout history.<sup>74</sup> For instance, Iranian guerrilla movements in the 20th century utilized the rugged mountains of Gilan (part of the Elburz system) as operational bases.<sup>75</sup> The ability of smaller, more agile forces to harass and evade larger, conventional armies in mountain landscapes has been a recurring theme in Middle Eastern military history.

### **C. Mountain Peoples and Imperial Powers: Dynamics of Resistance, Autonomy, and Integration**

The relationship between the often fiercely independent communities dwelling in mountainous

regions and the centralized lowland-based empires that sought to control them has been a defining feature of Middle Eastern history. This dynamic was rarely one of simple domination; instead, it was a complex interplay of resistance, negotiated autonomy, and varying degrees of integration or subjugation. Lowland empires, despite their military and economic might, seldom achieved total, direct, and continuous control over remote and rugged mountain territories.<sup>21</sup> The challenging terrain, the resilience of local populations often bound by strong kinship ties and a spirit of independence (see 'Asabiyyah, Section VI.A), and the sheer cost of sustained military campaigns in such environments meant that imperial rule was frequently indirect, reliant on local intermediaries, or periodically contested. This resulted in mountains often functioning as persistent frontiers—not just physical, but also political and cultural—where the limits of imperial power were constantly tested and renegotiated. This ongoing negotiation fostered unique political cultures within mountain communities, frequently characterized by a strong sense of self-reliance and distinct governance structures that differed markedly from the more direct administrative systems feasible in accessible lowland agricultural heartlands.

The **Achaemenid Persian Empire**, itself originating from nomadic Persian tribes associated with the Zagros region<sup>15</sup>, had to manage a diverse array of mountain peoples within its vast domain. While utilizing ranges like the Zagros as defensive buffers and sources of resources<sup>59</sup>, they also incorporated various tribal groups into their imperial structure.<sup>14</sup>

The **Roman Empire** extended its dominion over the mountainous regions of Anatolia and the Levant.<sup>76</sup> While they constructed strategic roads through mountains like the Taurus to facilitate military movement and trade (e.g., via the Cilician Gates<sup>5</sup>), their governance often involved a degree of local autonomy, allowing indigenous elites to manage internal affairs effectively, provided Roman suzerainty was acknowledged and taxes paid.<sup>76</sup>

The **Sasanian Empire** faced significant challenges from mountain tribes in both the Elburz and Zagros ranges. The Parthian king Phraates I, a predecessor state, had subdued the Mardi people of the Elburz.<sup>18</sup> During the Arab conquest of Persia, the Zagros Mountains served as a crucial defensive line and a retreat for the Sasanian emperor Yazdegerd III after the fall of Mesopotamian cities.<sup>18</sup> To secure their northern frontiers, the Sasanians invested heavily in fortifying Caucasian mountain passes against groups like the Alans.<sup>55</sup>

The **Ottoman Empire's** control over its mountainous territories was often nominal, particularly in regions like Mount Lebanon.<sup>61</sup> While urban centers might be directly administered, much of the countryside, especially rugged mountain areas, was effectively ruled by local tribal chieftains who were primarily responsible for collecting taxes for the Sultan.<sup>61</sup> The Ottomans employed the *millet* system, which granted considerable religious and legal autonomy to non-Muslim communities, many of which were concentrated in mountainous refugia.<sup>61</sup> This system, however, did not preclude conflict. The Ottomans faced resistance from groups such as the Pontic Greeks in the Pontic Alps<sup>12</sup> and the Druze in Mount Lebanon.<sup>23</sup> Specific administrative arrangements were sometimes made, such as the Yörük Sanjak for the nomadic Yörük tribes in the Taurus Mountains, which was an organizational rather than territorial unit.<sup>80</sup> Ottoman military pressure also spurred defensive constructions in places like the Sarawat

Mountains.<sup>10</sup>

The **Kurds**, inhabiting the expansive and rugged territories of the Zagros and Taurus mountains, have a long and complex history of interaction with successive empires. They have largely maintained their tribal social structures and have frequently striven for autonomy or independence.<sup>40</sup> Various Kurdish principalities and dynasties emerged in the Zagros region during the medieval period.<sup>68</sup>

In **Mount Lebanon**, the Maronite Christian and Druze communities cultivated distinct social and political structures, maintaining a significant degree of autonomy under various ruling powers, including the Mamluks and Ottomans.<sup>22</sup> This culminated in the establishment of the Mount Lebanon Mutasarrifate (1861–1918), an autonomous district within the Ottoman Empire, created under European diplomatic pressure following sectarian conflicts.<sup>66</sup> This arrangement acknowledged the unique demographic and political realities of this mountainous region.

## IV. Sustaining Life in Vertical Worlds: Mountain Economies and Resource Management

### A. The Gift of Water: Rivers, Springs, Snowmelt, and Ingenious Water Management (Qanats, Terracing, Wadi Systems)

In the predominantly arid and semi-arid landscapes of the Middle East, mountains function as vital "water towers," capturing atmospheric moisture as rain and snow, and subsequently releasing it through rivers, springs, and groundwater recharge.<sup>3</sup> This concentration of water resources in elevated regions, contrasting with the aridity of surrounding lowlands<sup>82</sup>, has been fundamental to sustaining life and agriculture for millennia. However, harnessing this precious resource, especially in challenging terrains, often necessitated the development of sophisticated and labor-intensive water management technologies. Systems like *qanats* and extensive terracing were not merely technical solutions but also required significant communal organization, specialized knowledge (such as that of the *Muqanni*, or *qanat* diggers<sup>84</sup>), and often, centralized authority or cooperative structures to manage water distribution, maintenance, and dispute resolution.<sup>32</sup> Thus, mountains did not just passively provide water; they actively spurred the development of complex socio-technical systems centered around hydraulic management, forming a cornerstone of agricultural societies and profoundly influencing settlement patterns, social organization, and power structures throughout the region.<sup>21</sup>

The **Zagros Mountains**, with annual precipitation ranging from 400–800 mm and significant winter snow accumulation, feed numerous rivers and streams crucial for agriculture in Iran and Iraq.<sup>3</sup> Similarly, the **Taurus Mountains** serve as the primary watershed for the mighty Tigris and Euphrates rivers, whose waters, augmented by snowmelt, have irrigated the plains of Mesopotamia for millennia.<sup>4</sup> The **Elburz Mountains** act as a climatic barrier, trapping moisture from the Caspian Sea, resulting in substantial snow and rain that nourish rivers like the Kizil Uzen (Sefid Rud) and support the lush Hyrcanian forests on their northern slopes.<sup>6</sup>

In Lebanon, the porous limestone geology of the **Lebanon Mountains** absorbs winter rains and snowmelt, which then emerge as numerous springs feeding mountain streams – the country's primary source of irrigation water.<sup>85</sup> Rivers such as the Litani and Orontes originate in or carve through these mountainous terrains.<sup>8</sup> The **Sarawat Mountains** in the Arabian Peninsula benefit from monsoon winds, receiving higher rainfall than surrounding areas, which supports agriculture in terraced fields and wadi systems.<sup>10</sup>

To manage these water resources, Middle Eastern peoples developed ingenious techniques:

- **Qanats (Kariz):** This ancient Persian system involves gently sloping subterranean tunnels that tap into groundwater sources, often at the foothills of mountains or in alluvial fans fed by seasonal runoff.<sup>82</sup> Qanats transport water over considerable distances with minimal evaporation, making them ideal for arid environments and enabling the settlement of otherwise uninhabitable areas.<sup>82</sup> Their construction required immense skill and communal effort.<sup>84</sup>
- **Terracing:** Across the mountainous regions of the Middle East, from Lebanon<sup>85</sup> to the Sarawat Mountains<sup>10</sup>, slopes were meticulously terraced to create level plots for cultivation. Terracing helped to conserve precious soil, manage water runoff, enhance infiltration, and maximize the use of limited arable land.
- **Irrigation Canals and Dams:** Since antiquity, civilizations have constructed canals and dams to divert and control water from mountain-fed rivers, such as the Tigris and Euphrates, for large-scale irrigation of lowland plains.<sup>31</sup>

These water management systems represent a profound adaptation to the environmental conditions shaped by mountains, allowing civilizations to thrive in regions that would otherwise be barren.

## **B. Cultivating the Slopes: Mountain Agriculture, Pastoralism, and Transhumance**

The diverse environments within and around Middle Eastern mountains supported specialized forms of agriculture adapted to varied altitudes, slopes, and microclimates, often existing in a symbiotic relationship with pastoral nomadism and transhumance. This environmental mosaic, featuring arable land in valleys and on lower slopes alongside pasturelands on higher elevations and plateaus<sup>10</sup>, likely fostered interdependence rather than outright competition between settled agriculturalists and mobile pastoralists in many mountain regions. Pastoral groups could utilize higher, less arable lands for grazing, moving seasonally (transhumance) to prevent overgrazing and access fresh pastures.<sup>3</sup> This system allowed for the efficient use of diverse ecological niches. Simultaneously, agricultural communities in the valleys focused on crop cultivation. This co-existence would have facilitated trade and exchange of goods—such as animal products (meat, dairy, wool) for grains, fruits, and crafted items—creating more resilient and diversified mountain economies than either practice could sustain in isolation. These interactions undoubtedly shaped the social and economic networks within and between mountain communities.

Mountain Agriculture:

The foothills and valleys of the Zagros Mountains were particularly conducive to early agriculture, with evidence of wine production dating back to 3500–5400 BC.<sup>3</sup> Wild ancestors of many staple crops like wheat, barley, lentils, almonds, and various fruits are native to this region.<sup>3</sup> The Taurus Mountains also contained fertile valleys suitable for cultivation.<sup>16</sup> The northern slopes of the Elburz Mountains, especially in Gilan province, are known for their humidity and fertility, supporting lush vegetation and agriculture.<sup>6</sup> The Lebanon Mountains, with their varied elevations, enabled the cultivation of a wide range of crops, from tropical fruits along the coast to European varieties at higher altitudes, often on terraced lands.<sup>85</sup> The Sarawat Mountains, benefiting from monsoon rains, developed into a prosperous agricultural zone with orchards, gardens, and cereal cultivation on elaborate terrace systems.<sup>10</sup> Staple crops across these regions often included olives, figs, citrus fruits, grapes, and various vegetables and grains.<sup>21</sup>

Pastoralism and Transhumance:

Transhumance, the seasonal movement of livestock between fixed summer and winter pastures, is a practice deeply embedded in the history of Middle Eastern mountain communities.<sup>87</sup> This adaptive strategy allowed pastoralists to exploit seasonal variations in pasture availability and climate.

The Zagros Mountains have been home to pastoralist groups like the Lurs, Bakhtiari Lurs, Kurds, and Qashqais for millennia. These groups traditionally practiced transhumance, moving their herds between summer highland pastures (Yeylāgh) and winter lowland pastures (Gheshlāgh).<sup>3</sup>

The Taurus Mountains were the traditional grounds for Yörük nomadic tribes, who migrated seasonally with their livestock, primarily cattle, sheep, and goats.<sup>16</sup> The Yörüks, a Turkish ethnic subgroup, also inhabited other mountainous areas of Anatolia and extended into the Balkans.<sup>80</sup>

In the arid peripheries and some mountainous zones of the Sinai Peninsula and the Hejaz, Bedouin tribes have historically engaged in nomadic pastoralism, herding camels, sheep, and goats. Some Bedouin groups practiced transhumance where winter rainfall patterns and pasture availability allowed for seasonal movements to highland areas.<sup>93</sup> This intricate dance between settled agriculture and mobile pastoralism, dictated by the rhythms of mountain environments, defined the socio-economic fabric of many highland communities.

### **C. Forests of Antiquity and Beyond: Timber, Cedars, and Ecological Significance**

The mountain ranges of the Middle East, benefiting from higher precipitation and cooler temperatures than the surrounding lowlands, historically supported significant forest ecosystems. These forests provided essential resources like timber for construction and fuel, valuable non-timber products, and played a crucial ecological role in soil conservation, water regulation, and biodiversity maintenance. The high demand for specific, high-quality mountain timbers, most notably the Cedars of Lebanon <sup>21</sup>, by powerful lowland civilizations such as the Egyptians, Mesopotamians, and Israelites <sup>95</sup>, transformed these forests from mere local resources into significant geopolitical assets. Control over, or reliable access to, these timber

resources became a factor in regional power dynamics and economic prosperity. For timber-poor empires like Pharaonic Egypt, securing Lebanese cedar was a strategic imperative for shipbuilding, monumental construction (such as temples), and religious practices like mummification (using cedar resin).<sup>95</sup> This demand fueled extensive trade networks but also led to imperial ambitions and potential conflicts to ensure a steady supply. This illustrates how a specific mountain resource could project influence far beyond its geographical origin, creating interregional dependencies and rivalries that shaped the contours of ancient Middle Eastern history. The extensive deforestation observed over millennia<sup>95</sup> is a direct and lasting consequence of this high and sustained demand.

The **Lebanon Mountains** were anciently renowned for their extensive forests of Lebanon cedar (*Cedrus libani*), trees that became a symbol of the country.<sup>24</sup> This timber was highly prized by the Phoenicians for their merchant fleets, by the Egyptians for shipbuilding and funerary practices, and by King Solomon for the construction of the First Temple in Jerusalem.<sup>21</sup> Successive empires, from the Assyrians to the Romans and Turks, exploited these forests, leading to significant deforestation over centuries, though vestiges like the "Cedars of God" in the Kadisha Valley survive in protected groves.<sup>8</sup>

The northern slopes of the **Elburz Mountains** in Iran are home to the Caspian Hyrcanian forests, a unique temperate deciduous forest ecoregion characterized by its lushness and biodiversity.<sup>6</sup> These forests once harbored now-extinct species like the Caspian Tiger.<sup>6</sup>

The **Zagros Mountains** historically featured oak-dominated woodlands and pistachio-almond steppelands, providing timber and other forest products to local populations and contributing to the resources available to ancient empires like the Achaemenids.<sup>3</sup> The **Pontic Mountains** along Turkey's Black Sea coast also supported considerable forest cover, forming part of the region's distinctive environment.<sup>12</sup> Even the Tigris-Euphrates river system, with headwaters in mountainous regions, historically sustained riparian forests along its banks.<sup>97</sup>

The exploitation of these forest resources was often geographically constrained; timber, being bulky, was primarily harvested near centers of consumption or where water transport was feasible.<sup>98</sup> However, mountain forests also faced pressures from local populations through overgrazing, tree lopping for fodder and fuel, burning for land clearance, and shifting cultivation.<sup>98</sup> While such practices could be detrimental, it is also recognized that conservatively managed and exploited forests can continue to fulfill their vital protective functions, sometimes better than entirely unmanaged ones.<sup>98</sup> Historical records and ecological evidence point to significant deforestation across many parts of the Middle East over the long term, driven by both local needs and large-scale imperial demands, fundamentally altering landscapes and ecosystems.<sup>96</sup>

## **D. Treasures of the Earth: Historical Mining and Mineral Exploitation**

The geological processes that formed the mountain ranges of the Middle East also concentrated a variety of valuable mineral and stone deposits. The extraction and processing of these resources, dating back to prehistoric times, spurred early technological innovation, the development of specialized labor, and the establishment of long-distance trade networks,

significantly impacting the economic and material culture of the region. The quest for metals like copper, tin, silver, and gold, and for quality building stone, drove early humans to explore and exploit mountainous terrains, leading to advancements in mining techniques (such as tunneling and fire-setting<sup>99</sup>), ore processing (grinding and smelting<sup>100</sup>), and metallurgy (including alloying to create bronze and cupellation to refine silver<sup>102</sup>). These technological developments, often centered in or near mountain sources, had profound effects on toolmaking, weaponry, art, and overall societal complexity. The Kestel tin mine in the Taurus Mountains, for example, with tunnels reportedly small enough to be worked by children, points to early forms of labor specialization driven by mining activities.<sup>100</sup>

The **Zagros Mountains** are renowned for their substantial petroleum deposits, a result of their specific tectonic history and sedimentary rock formations.<sup>3</sup> Salt domes, also common in the Zagros, have been another target for resource exploitation.<sup>3</sup>

The **Taurus Mountains** in Anatolia were a significant source of metals in antiquity. The site of Kestel provides crucial evidence for Bronze Age tin mining, a mineral essential for the production of bronze, which revolutionized tools and warfare.<sup>4</sup>

The **Iranian Plateau**, a largely mountainous region, was a major center for early silver production. Archaeological sites like Arisman, Tepe Sialk, and the Nakhlak mine indicate that silver was extracted from silver-bearing lead and lead-zinc ores using the cupellation process from as early as the 4th millennium BCE.<sup>103</sup> Some scholars suggest this region was the birthplace of this silver extraction technology.<sup>103</sup>

In **Egypt**, the mountainous Eastern Desert was rich in mineral wealth. Gold mining in areas like Wadi Hammamat dates back to predynastic times, making Egypt a major gold producer for millennia.<sup>99</sup> Copper was mined in the Timna Valley in the Sinai Peninsula, and beryl (the source of emeralds) was extracted from sites like Wadi Sikait, particularly during the Ptolemaic, Roman, and Byzantine periods.<sup>99</sup> Egypt's mountains also provided vast quantities of building stone: granite from Aswan, limestone and sandstone from the Nile Valley cliffs (geologically part of the broader uplifted regions), and marble, alabaster, and diorite, all crucial for the construction of pyramids, temples, and statues.<sup>99</sup>

The **Hajjar Mountains** in the southeastern Arabian Peninsula (Oman and UAE) were an important source of copper during the Bronze Age. Sites like Wadi Al Helo show evidence of extensive mining, smelting, and casting operations, producing highly refined copper that was traded across the Arabian Gulf region and played a key role in local technological and economic development.<sup>101</sup> Further north, in present-day Jordan, copper was mined at Wadi Faynan from the Chalcolithic period through Roman times.<sup>106</sup>

While tin was relatively scarce in the Middle East itself, often requiring importation from distant sources like the British Isles to facilitate bronze production<sup>102</sup>, the discovery and exploitation of local metal sources like iron ore by the Hittites in Anatolia marked another significant technological advancement originating from mountain resources.<sup>102</sup> The pursuit of these "treasures of the earth" embedded mountains deeply within the economic and technological narratives of Middle Eastern civilizations.

## **V. The Sacred Summits: Mountains in Middle Eastern**



# Myth, Religion, and Cosmology

## A. Abodes of the Divine: Sacred Mountains and Sites of Revelation across Faiths

Across cultures and throughout history, mountains have been imbued with profound spiritual significance, often perceived as liminal spaces bridging the terrestrial and celestial realms, the human and the divine. Their towering height, imposing presence, and association with powerful natural phenomena like storms and springs made them natural candidates for sacred sites—places of revelation, theophany, and direct encounter with deities or supernatural forces.<sup>107</sup> This universal tendency found potent expression in the Middle East, where numerous mountains became central to the foundational narratives, laws, and identities of Judaism, Christianity, Islam, Zoroastrianism, and earlier Mesopotamian and Levantine faiths. The association of key mountains with pivotal divine encounters and the bestowal of sacred laws—such as the Ten Commandments on Mount Sinai<sup>107</sup> or the initial Quranic revelations to Prophet Muhammad on Jabal al-Nour<sup>110</sup>—transformed these physical landmarks into powerful, enduring symbols. These symbols became deeply embedded in the collective consciousness and moral framework of entire civilizations and religious traditions. The tangible, enduring presence of a sacred mountain served as a constant, physical reminder of divine covenants, historical origins, and ethical obligations. This sacralization of specific peaks helped to solidify group cohesion, legitimize religious and social norms, and transmit core values across generations, thereby profoundly shaping the ethical and spiritual landscapes of millions in the Middle East and, through the Abrahamic faiths, much of the world. These mountains were not merely locations where significant events occurred; they became integral to the event's enduring power, meaning, and ability to shape identity.

- In **Mesopotamia**, while the flat alluvial plains lacked natural mountains, the concept of the sacred mountain was so powerful that artificial temple-mounds called ziggurats were constructed, designed to mimic mountains and serve as links between earth and sky, facilitating communication with the gods.<sup>107</sup>
- **Mount Sinai (Jabal Musa)** in the Sinai Peninsula is preeminently sacred in Judaism, Christianity, and Islam as the location where Moses received the Ten Commandments from God.<sup>107</sup> It is also associated with God's revelation to Moses in the Burning Bush.<sup>107</sup>
- **Mount Ararat**, a volcanic massif in eastern Anatolia (modern Turkey), is traditionally identified in Judeo-Christian and Islamic belief as the resting place of Noah's Ark after the Great Flood, as mentioned in the Book of Genesis.<sup>107</sup> For Armenians, Ararat is a paramount national symbol and a sacred mountain, historically considered the home of their gods in pre-Christian Armenian mythology and central to their identity as the "people of the Ark".<sup>113</sup>
- **Mount Zion** and the **Temple Mount (Mount Moriah)** in Jerusalem hold supreme sanctity in Judaism as the site of Abraham's binding of Isaac and the location of the First and Second Temples, the focal point of Jewish worship and national identity.<sup>107</sup> It

also holds significance in Christianity and Islam.

- **Mount Hermon**, at the nexus of modern-day Lebanon, Syria, and Israel, was revered in various ancient Near Eastern religions. It is linked to the Ugaritic god Baal, whose palace was said to be on Mount Saphon (often identified with Jebel Aqra, but Hermon also had sacred connotations).<sup>25</sup> It is mentioned in Hittite treaties and frequently in the Hebrew Bible (as Siryon or Senir).<sup>25</sup> Christian tradition associates it with the Transfiguration of Jesus, and the apocryphal Book of Enoch names it as the site where the Watcher angels descended to Earth.<sup>25</sup>
- The **Elburz Mountains** in Iran, particularly **Mount Damavand**, are central to Zoroastrian cosmology and Persian mythology. The range is identified with the mythical Hara Berezaiti ("High Watch"), the primordial world mountain from which all other mountains grew, the source of all waters, the pivot of the stars, and the dwelling place of deities like Mithra.<sup>6</sup> Mount Damavand itself is the scene of many Persian legends, including the imprisonment of the tyrannical Zahhak by the hero Fereydun.<sup>6</sup>
- In Islam, **Jabal al-Nour** ("Mountain of Light") near Mecca is profoundly sacred as it houses the Cave of Hira, where the Prophet Muhammad is believed to have received the first revelations of the Quran from the angel Jibril (Gabriel).<sup>110</sup>
- **Mount Uhud**, near Medina, holds special significance in Islam as the site of the Battle of Uhud. A saying attributed to Prophet Muhammad, "This is a mountain that loves us, and we love it," endows it with a unique emotional and spiritual resonance for Muslims.<sup>121</sup>
- The **Sinjar Mountains** are sacred to the Yazidi people, who believe it to be the place where Noah's Ark came to rest and consider it a spiritual homeland and a place of pilgrimage and refuge.<sup>70</sup>
- For the Druze, the **Khalwat al-Bayada**, their central sanctuary and historical theological school, is situated in a mountainous area near Hasbaya in Lebanon, reflecting the community's deep historical ties to mountain refugia.<sup>123</sup>
- Ancient **Nabataean** religion also involved worship at sacred high places, often on mountaintops or prominent rock formations in their desert and mountain territories.<sup>125</sup>

**Table 3: Sacred Mountains and Their Significance in Middle Eastern Belief Systems (Pre-2010)**

Mountain Name/Site	Associated Religion(s)/Mythology	Key Figures/Events/Beliefs	Geographic Location (Country/Region)
Mount Sinai (Jabal Musa)	Judaism, Christianity, Islam <sup>107</sup>	Moses receiving Ten Commandments, Burning Bush revelation <sup>107</sup>	Sinai Peninsula, Egypt <sup>111</sup>
Mount Ararat	Judeo-Christian-Islamic tradition, Armenian pre-Christian &	Resting place of Noah's Ark; home of Armenian gods; symbol	Eastern Anatolia, Turkey <sup>113</sup>

	Christian mythology <sup>113</sup>	of Armenian identity <sup>113</sup>	
<b>Mount Zion/Temple Mount (Moriah)</b>	Judaism, Christianity, Islam <sup>107</sup>	Site of Abraham's binding of Isaac; First & Second Temples; Al-Aqsa Mosque/Dome of the Rock; Messianic prophecies <sup>107</sup>	Jerusalem <sup>115</sup>
<b>Mount Hermon (Siryon/Senir/Saphon)</b>	Ancient Canaanite/Ugaritic, Amorite, Israelite, Christian, Enochic traditions <sup>25</sup>	Baal's palace (Saphon); boundary of Promised Land; Transfiguration of Jesus; descent of Watchers <sup>25</sup>	Lebanon, Syria, Israel/Golan Heights <sup>9</sup>
<b>Elburz Mts. (Hara Berezaiti/Damavand)</b>	Zoroastrianism, Persian Mythology <sup>6</sup>	Cosmic mountain, home of Mithra, source of waters; Fereydun & Zahhak legend <sup>117</sup>	Northern Iran <sup>6</sup>
<b>Jabal al-Nour (Cave of Hira)</b>	Islam <sup>110</sup>	Prophet Muhammad's first Quranic revelation <sup>110</sup>	Near Mecca, Saudi Arabia <sup>110</sup>
<b>Mount Uhud</b>	Islam <sup>121</sup>	Site of Battle of Uhud; "Mountain that loves us, and we love it" (Prophetic saying) <sup>121</sup>	Near Medina, Saudi Arabia <sup>122</sup>
<b>Sinjar Mountains</b>	Yazidism <sup>70</sup>	Resting place of Noah's Ark (Yazidi tradition); sacred homeland and refuge <sup>70</sup>	Northwestern Iraq <sup>70</sup>
<b>Khalwat al-Bayada</b>	Druze Faith <sup>123</sup>	Central Druze sanctuary and theological school; historical site of early Druze teachings <sup>123</sup>	Near Hasbaya, Lebanon <sup>123</sup>
<b>Taurus Mountains</b>	Ancient Anatolian (Hittite, Luwian, Hurrian) religions <sup>4</sup>	Temples of storm gods (e.g., Tarhun, Adad); origin of Hurrian storm gods <sup>4</sup>	Southern Turkey <sup>4</sup>
<b>Nabataean High Places</b>	Nabataean polytheism <sup>125</sup>	Worship of deities like Dushara and al-Uzza <sup>125</sup>	Petra and other Nabataean sites (Jordan, etc.) <sup>125</sup>

## B. Echoes in Mythology: Mountains in the Narratives of Mesopotamia, Persia, Anatolia, and the Levant

The imposing presence and often mysterious nature of mountains deeply permeated the mythological and folkloric traditions of ancient Middle Eastern societies. These narratives frequently depict mountains not merely as geographical features but as powerful, liminal, and often perilous zones—the dwelling places of gods, spirits, primordial monsters, or the gateways to other worlds. In many of these mythologies, mountains serve as active arenas where fundamental cosmic struggles between forces of order (represented by divine power, creation myths, and heroic figures) and chaos (embodied by monsters, underworld deities, or "barbarian" outsiders) are played out. The inherent ruggedness, perceived impenetrability, and association with dramatic weather phenomena made mountains fitting symbolic locations for these primal conflicts. Such myths served multifaceted purposes: they offered explanations for natural phenomena, such as storms emanating from the Taurus Mountains attributed to storm gods<sup>4</sup>; they helped define the boundaries between the known, civilized world and the untamed wilderness; and they articulated a culture's deepest understanding of good versus evil, the sacred, and the profane. Thus, mountains became inscribed with a culture's foundational narratives, anxieties, and aspirations, reflecting and reinforcing their worldview.

In **Mesopotamia**, the **Zagros Mountains** to the east held an ambiguous place in the collective imagination. They were simultaneously envisioned as the gateway to mythical lands of immense wealth, the region from which the sun god Utu/Shamash emerged daily, and as an impenetrable, wild domain inhabited by "barbarians" possessing subhuman traits.<sup>3</sup> The entrance to the Mesopotamian underworld itself was believed to be located within the eastern Zagros.<sup>3</sup> The Sumerian myth "Lugalbanda in the Mountain Cave" portrays the Zabu (Zagros) Mountains as a formidable and sacred landscape, a place of trial and divine encounter for the hero Lugalbanda during a military campaign.<sup>129</sup> The Epic of Gilgamesh features Mashu, a great cedar mountain with a tunnel through which the hero journeys, and also describes Mount Hermon and Lebanon splitting after the defeat of the forest guardian Humbaba.<sup>25</sup>

For the ancient **Persians**, the **Elburz Mountains**, particularly the towering peak of Mount Damavand, were identified with the mythical Hara Berezaiti of Zoroastrian cosmology.<sup>6</sup> Hara Berezaiti was conceived as the primordial world-mountain, the axis mundi around which the stars revolved, the source of all waters, and the dwelling place of divine beings like Mithra and the mythical Simorgh bird. It was on these sacred heights, according to legend, that the hero Fereydun chained the malevolent three-headed dragon-king Zahhak.<sup>117</sup>

In **Anatolia**, the **Taurus Mountains** were intimately linked with powerful storm gods in Hittite, Luwian, and Hurrian belief systems.<sup>4</sup> The bull, a creature of immense power, was a common symbol of these weather deities, and the very name "Taurus" reflects this association. Ancient temples dedicated to storm gods like Tarhun (Hittite/Luwian) and Adad (Syrian/Mesopotamian, whose influence extended to Anatolia) were located within the Taurus range.<sup>4</sup> The Hurrians, considered by some scholars to be the originators of many Near Eastern storm-god cults, are

thought to have had their earliest homeland in or near the Taurus Mountains.<sup>4</sup> Mount Zaliyanu, near the Hittite cult center of Nerik, was considered sacred to a local storm god, son of the sun goddess of Arinna.<sup>127</sup>

In the **Levant**, mountains also featured prominently in myth and religious narrative. **Mount Hermon** (also known as Sirion or Senir) appears in Ugaritic texts as a source of cedars for Baal's palace on Mount Saphon and is mentioned in Canaanite and Israelite traditions as a majestic and sacred peak.<sup>25</sup> The famed **Cedars of God** on **Mount Lebanon** are not only historically significant but also appear in ancient narratives, including the Epic of Gilgamesh, which describes a divine cedar forest guarded by demigods and contested by humans.<sup>95</sup> These mythological associations underscore the profound impact of mountainous landscapes on the spiritual and imaginative worlds of Middle Eastern peoples.

## VI. Societies Forged in Altitude: Governance, Law, and Identity in Mountain Communities

### A. Social Structures: Tribalism, Kinship, and 'Asabiyyah (Group Cohesion)

The challenging environments of Middle Eastern mountains—often characterized by resource scarcity, difficult terrain, and potential threats from more powerful lowland states—frequently fostered the development and persistence of strong tribal structures and kinship-based societies. Within these communities, a high degree of internal cohesion, or what the 14th-century scholar Ibn Khaldun termed *'Asabiyyah*, was often paramount for survival and collective action.<sup>132</sup> *'Asabiyyah*, signifying social solidarity, group consciousness, and a shared sense of purpose, was not merely a social characteristic but a crucial adaptive mechanism. Born from shared ancestry, common experiences of hardship, and the necessity for mutual support in defending territory and resources, this powerful group feeling enabled mountain tribes to maintain their distinct identities, resist external domination, and, at times, project political power.<sup>132</sup> The mountains, in effect, acted as crucibles for forging and tempering this potent social adhesive, which in turn shaped the political agency and resilience of their inhabitants.

Historically, tribal autonomy, often based on principles of balanced opposition where kin groups provided mutual protection, has been a distinctive and enduring pattern of social organization in the Middle East, particularly prominent in its desert and mountainous peripheries.<sup>135</sup> These tribal affiliations and structures often predated, and subsequently transcended, the boundaries of modern nation-states.<sup>134</sup>

The **Kurds**, inhabiting the extensive Zagros and Taurus mountain ranges, have a long history characterized by tribal social organization, whether as nomadic pastoralists or settled agriculturalists.<sup>40</sup> Their economic activities and political allegiances have often been aligned with the geographical contours of these mountain systems, fostering a strong sense of distinct Kurdish identity.<sup>41</sup> Similarly, the **Lurs** and **Bakhtiari** peoples of the Zagros have

maintained robust tribal structures, with many continuing traditional pastoral nomadic lifestyles well into the 20th century.<sup>3</sup> Bakhtiari society, for example, while generally patriarchal, is noted for allowing women a considerable degree of freedom within the tribal framework.<sup>90</sup> The **Qashqai**, another significant Turkic-speaking pastoralist group of the Zagros, also organized themselves along tribal lines.<sup>3</sup>

In Anatolia, the **Yörüks**, semi-nomadic Turkish tribes with origins tracing back to the Altai mountains, traditionally inhabited the Taurus Mountains and other highland regions.<sup>80</sup> While some accounts describe elected village headmen (*muhtars*) rather than hereditary chiefs leading certain Yörük groups, the family unit remained the core of their social structure, and tribal membership (Yörük meaning "those who walk" but also denoting tribal and politico-religious allegiance) was a defining aspect of their identity.<sup>80</sup>

The **Druze** and **Maronite** communities of Mount Lebanon developed highly distinct communal identities and social structures, deeply rooted in kinship networks and religious affiliation, within the protective confines of their mountainous heartland.<sup>8</sup> Druze society, in particular, has historically been characterized by strong ascriptive kinship groups that played a central role in their political organization and periods of regional hegemony.<sup>63</sup> The "Maronite-Druze dualism" emerged as a key socio-political system in Mount Lebanon.<sup>64</sup>

Even among the **Bedouin** tribes, who primarily inhabited desert regions but whose territories often extended into mountainous areas like the Sinai and Hejaz, social organization was firmly based on patrilineal clans (*'ašā'ir*) and a powerful sense of shared ancestry and collective responsibility.<sup>93</sup> Their famous adage, "I am against my brother; my brothers and I are against my cousins; my cousins and I are against the stranger," encapsulates the hierarchical nature of these loyalties, which were essential for survival in harsh environments.<sup>93</sup> These deeply ingrained social structures, forged in response to and reinforced by the demands of challenging landscapes, proved remarkably resilient over centuries.

## **B. Political Landscapes: Autonomy, Customary Law, and Relations with Lowland States**

The distinct social structures of mountain communities, often characterized by strong tribal cohesion and geographic remoteness, frequently translated into unique political landscapes. These were typically marked by a significant degree of local autonomy, the enduring practice of customary law, and complex, often tense, relationships with the centralized lowland states that periodically sought to exert control over them. The persistence of customary law systems within these communities was not simply an anachronism but a vital instrument for maintaining social order and self-governance in regions where state law was often perceived as distant, inapplicable, or an unwelcome intrusion. These indigenous legal frameworks, intimately tied to local social structures like kinship ties and tribal honor codes, and adapted to the specific ecological and economic realities of mountain life, provided effective mechanisms for dispute resolution, resource management, and collective defense.<sup>136</sup> By effectively self-regulating through their own unwritten or traditional laws, mountain communities could reduce their dependence on, and often resist the full encroachment of,

lowland state authorities. This legal autonomy was thus intrinsically linked to their political autonomy and the preservation of their cultural distinctiveness.

Mountain ranges often served as natural bulwarks against the complete imposition of imperial agendas, allowing local cultures and political entities to maintain a degree of separation and independence.<sup>21</sup> As previously noted, oppressed minorities frequently found refuge in these highlands, preserving not only their cultural and religious practices but also forms of self-governance.<sup>21</sup> The Druze of Mount Lebanon, for example, enjoyed considerable autonomy under Ottoman rule and often engaged in rebellions to protect their interests.<sup>23</sup> Similarly, Kurdish tribes in the Zagros and Taurus mountains have a long history of striving for self-rule, leveraging the difficult terrain to resist assimilation by larger empires.<sup>41</sup>

The reach of centralized lowland states often diminished in mountainous peripheries. Ottoman administration in regions like Mount Lebanon, for instance, was often nominal, with real power resting in the hands of local tribal chieftains and feudal families, such as the Maans and later the Shihabs, who were primarily tasked with collecting taxes for the Sultan but otherwise managed their own affairs.<sup>61</sup> This system of indirect rule was a pragmatic adaptation by empires to the challenges of governing difficult terrains and resilient populations.

Even powerful Persian empires, such as the Achaemenids, who themselves originated from tribal groups in mountainous areas like the Zagros<sup>15</sup>, had to carefully manage their relationships with the diverse mountain tribes residing within their vast territories.<sup>14</sup> The interaction was not always one of straightforward domination but often involved negotiation, alliance-building, or punitive expeditions when tribal groups challenged imperial authority. The enduring importance of tribal structures and their associated customary laws is evident even in the formation of more modern states. In Saudi Arabia, for example, traditional politics involved consultation with tribal leaders, reflecting the deep-rooted influence of these social units.<sup>138</sup> In Jordan, tribal law continues to operate as a parallel system to state law, particularly in resolving communal disputes, with tribal shaykhs playing a crucial role in mediation and maintaining social harmony.<sup>137</sup> This suggests that similar customary legal systems were likely prevalent and functional in many other tribal mountain communities across the Middle East, providing an alternative or complementary framework to state-imposed legal structures. The historical dynamic described by Ibn Khaldun, involving a cyclical interplay between the *'Asabiyyah* (group cohesion) of peripheral tribal groups (often from mountains or deserts) and the decadent, weakening centers of established empires, further illuminates these relationships.<sup>132</sup> Strong, cohesive tribal confederations from the mountains could, and sometimes did, challenge and overthrow established lowland powers when the latter showed signs of decline, leading to the rise of new dynasties that often originated from these very mountain peripheries.

### **C. Mountain Refugia as Incubators of Alternative Social and Political Orders**

The relative isolation and inherent defensibility of mountain refugia in the Middle East did more than just ensure the physical survival of persecuted or marginalized groups; these

environments often served as incubators for the development, preservation, and evolution of alternative social, political, and even religious systems that stood in contrast to, or in direct opposition to, the dominant norms of lowland societies.<sup>21</sup> Lowland empires and states typically promoted centralized authority, often intertwined with state-sponsored religious orthodoxy, and economies primarily based on settled agriculture in fertile plains.<sup>139</sup> In stark contrast, mountain communities frequently nurtured decentralized forms of governance, such as tribal confederations or councils of elders<sup>40</sup>, and were often havens for unique religious interpretations, heterodox sects, or entirely distinct faiths that were suppressed elsewhere. Their economies, too, were uniquely adapted, often combining terraced agriculture with extensive pastoralism and transhumance.<sup>3</sup>

These alternative systems were not merely different by circumstance; they often represented implicit or explicit challenges to the hegemonic order of the plains. The mountains, by providing a degree of insulation from the coercive power of empires and the homogenizing pressures of dominant cultures, allowed these "dissident" forms of social, political, and religious life to take root, adapt, and evolve over long periods. This process contributed significantly to the region's complex political and cultural pluralism, ensuring that the Middle Eastern landscape was not a monolithic entity but a mosaic of varied human experiences and societal forms.

The **Druze** and **Maronite** communities in **Mount Lebanon** exemplify this phenomenon. Over centuries, they developed unique socio-religious structures and cultivated a strong sense of communal identity, which enabled them to achieve a significant degree of political autonomy. This culminated in formal arrangements like the Mount Lebanon Mutasarrifate in the Ottoman era, an administrative district that recognized the distinct character of its mountain-dwelling populations.<sup>22</sup>

Similarly, the **Nizari Ismailis (Assassins)**, under leaders like Hasan-i Sabbah, transformed remote fortresses in the **Elburz Mountains**, such as Alamut, into the nerve centers of a formidable politico-religious organization.<sup>19</sup> This mountain-based entity, with its distinct hierarchical structure, esoteric doctrines, and effective use of unconventional warfare, successfully challenged the authority of major contemporary empires like the Seljuk Sultanate for nearly two centuries.

The long history of **Kurdish** tribal structures, their distinct linguistic and cultural heritage, and their persistent aspirations for self-governance have been profoundly shaped by their heartlands in the **Zagros and Taurus Mountains**.<sup>41</sup> These ranges provided the space for Kurdish society to maintain its unique characteristics and resist complete assimilation into larger state structures.

While the concept of "climate refugia" in ecological studies refers to areas where species can persist during periods of adverse environmental change<sup>140</sup>, a parallel concept of "cultural refugia" can be applied to mountainous regions. These areas acted as sanctuaries where diverse human societal forms, alternative belief systems, and unique political arrangements could survive and even flourish, sheltered from the standardizing pressures often exerted by dominant lowland powers. The mountains thus served as vital crucibles for social and political experimentation and preservation, enriching the overall human tapestry of the Middle East.



## **VII. Conclusion: The Enduring Imprint of Mountains on the Middle Eastern Psyche and Landscape**

### **A. Synthesis of the multifaceted roles of mountains in shaping the region's history and peoples before 2010**

The mountains of the Middle East, far from being passive geographical features, have been dynamic and pivotal agents in the long historical narrative of the region's diverse peoples up to 2010. Their rugged topographies served as some of the earliest cradles of human settlement and agricultural innovation, particularly in the fertile foothills and valleys of ranges like the Zagros. Through their capacity to isolate communities, mountains fostered an extraordinary richness of cultural, linguistic, and genetic diversity, acting as natural laboratories for human societal evolution. Yet, paradoxically, their passes and valleys also functioned as critical corridors for trade, migration, and the diffusion of ideas, connecting disparate regions and civilizations via legendary routes like the Silk Road and the Incense Route, which navigated these challenging terrains.

In times of conflict and persecution, these same mountains consistently offered sanctuary, becoming vital refugia for ethnic and religious minorities seeking to preserve their identities and autonomy from the reach of dominant lowland powers. This role as havens contributed to the complex mosaic of cultures that characterizes the Middle East. Militarily, the strategic high ground afforded by mountains made them natural defensive ramparts and sites for formidable fortifications, from ancient hillforts to medieval castles and extensive imperial defense lines, shaping the course of countless conflicts and imperial strategies.

Economically, mountains were the wellsprings of life-giving water in an often-arid region, their snowmelt and springs feeding the great rivers and ingenious irrigation systems like qanats and terraced fields that sustained agriculture and urban life. They supported unique mountain economies based on specialized agriculture, extensive pastoralism with ancient traditions of transhumance, and the exploitation of valuable forest resources, such as the famed Cedars of Lebanon. Furthermore, the geological processes that created these ranges also endowed them with mineral wealth—copper, tin, gold, silver, and building stone—the extraction of which spurred technological development and trade from the earliest periods of civilization.

Spiritually and mythologically, the summits of the Middle East have loomed large in the human imagination. They were perceived as abodes of the divine, sites of sacred revelation, and the settings for epic myths of creation, cosmic struggle, and heroism. From Mount Sinai and Mount Ararat to Hara Berezaite and Jabal al-Nour, these sacred peaks became foundational to the belief systems and moral orders of Judaism, Christianity, Islam, Zoroastrianism, and numerous ancient faiths, deeply embedding themselves in the collective psyche of the region. The social and political organization of mountain communities, often characterized by strong tribal cohesion (*'Asabiyyah*), customary legal traditions, and a persistent striving for autonomy, reflected a profound adaptation to, and interaction with, their highland environments.

## **B. Reflection on the persistent influence of these mountain-shaped legacies**

The profound and multifaceted impacts of mountains on the peoples of the Middle East did not cease to be relevant in 2010; rather, these deep historical legacies continue to resonate and shape the region in numerous ways. The patterns of settlement established millennia ago in fertile mountain valleys and defensible highland locations often persist, influencing contemporary demographic distributions and land use. Cultural identities forged in the isolation or unique interactive zones of mountain environments remain vibrant, contributing to the rich but sometimes contentious ethnic and sectarian diversity of modern Middle Eastern states.

The drawing of modern national boundaries, often by colonial powers with limited regard for traditional ethnic or tribal territories, frequently bisected historic mountain homelands. This has, in several instances, led to ongoing political tensions, movements for cultural rights or autonomy, and cross-border affiliations among mountain peoples such as the Kurds, whose traditional lands span across Turkey, Iran, Iraq, and Syria. The legacy of mountain-based customary laws and resilient tribal social structures continues to interact, and sometimes clash, with the centralized legal and administrative systems of modern states, particularly in more remote highland areas.

The economic importance of mountain resources, especially water, remains critical. Competition over water originating in mountainous regions is a significant factor in contemporary regional geopolitics. Traditional agricultural and pastoral practices, while adapting to modern pressures, still form the livelihood for many mountain communities, and the knowledge systems associated with them represent valuable cultural heritage. Moreover, the sacred mountains of the Middle East have lost none of their spiritual potency. They continue to be powerful symbols, sites of pilgrimage, and focal points of religious devotion for millions globally, their ancient sanctity interwoven with contemporary faith and identity. The historical role of mountains as zones of refuge and resistance also echoes in modern conflicts, where rugged terrain can still offer advantages to insurgent groups or become theaters for protracted struggles.

Ultimately, the mountains of the Middle East stand as living archives of a long and intricate co-evolution between humanity and the environment. They bear the indelible imprints of millennia of human settlement, adaptation, conflict, resource exploitation, and spiritual aspiration. Understanding this deep historical entanglement—the ways in which these enduring bastions have forged peoples and polities—is indispensable for comprehending the socio-political, cultural, and environmental realities of the Middle East today. The mountains are a testament not only to the formidable power of nature in shaping human destiny but also to the remarkable resilience, ingenuity, and enduring spirit of the diverse peoples who have made these vertical worlds their home.

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194. <sup>3</sup> Religious beliefs, mythologies, or sacred sites associated with the Zagros Mountains by ancient Mesopotamians, Elamites, Kassites, or later groups like Zoroastrians or local communities, including beliefs about the underworld. (Internal Bing Search).
195. <sup>4</sup> Mythological significance of the Taurus Mountains, particularly connections to ancient Near Eastern storm gods (e.g., Tarhun, Adad), Hurrian beliefs, and any sacred sites or mountain cults. (Internal Bing Search).
196. <sup>25</sup> Mythological and religious significance of Mount Hermon, including its mention in the Epic of Gilgamesh, Ugaritic texts (Baal's palace on Saphon), Hittite treaties, the Hebrew Bible (Siryon/Senir), and its association with the Transfiguration of Jesus and the descent of the Watchers in the Book of Enoch. (Internal Bing Search).
197. <sup>113</sup> Religious significance of Mount Ararat, particularly its identification with Noah's Ark's resting place in Judeo-Christian-Islamic tradition, its importance in Armenian identity and mythology, and any pre-Christian beliefs associated with it. (Internal Bing Search).

198. <sup>70</sup> The role of the Sinjar Mountains in Yazidi religious beliefs, including connections to sacred figures, pilgrimage, and its function as a spiritual homeland and refuge. (Internal Bing Search).

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