

## Geology

### Mountains are like Pegs (Stakes)

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*Have We not made the earth as a bed, and the mountains as pegs? (An-Naba':6-7) (Awtad = pegs)*

Dr. Frank Press (Science Adviser to President Carter) in his book 'Earth' illustrates the mountain in a wedge-shape, deeply rooted in the ground....mountains stabilize the earth crust.

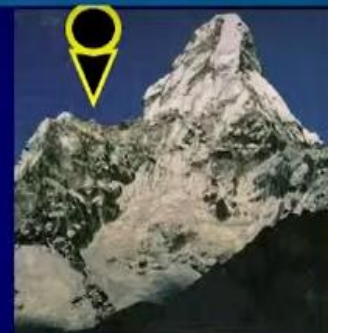


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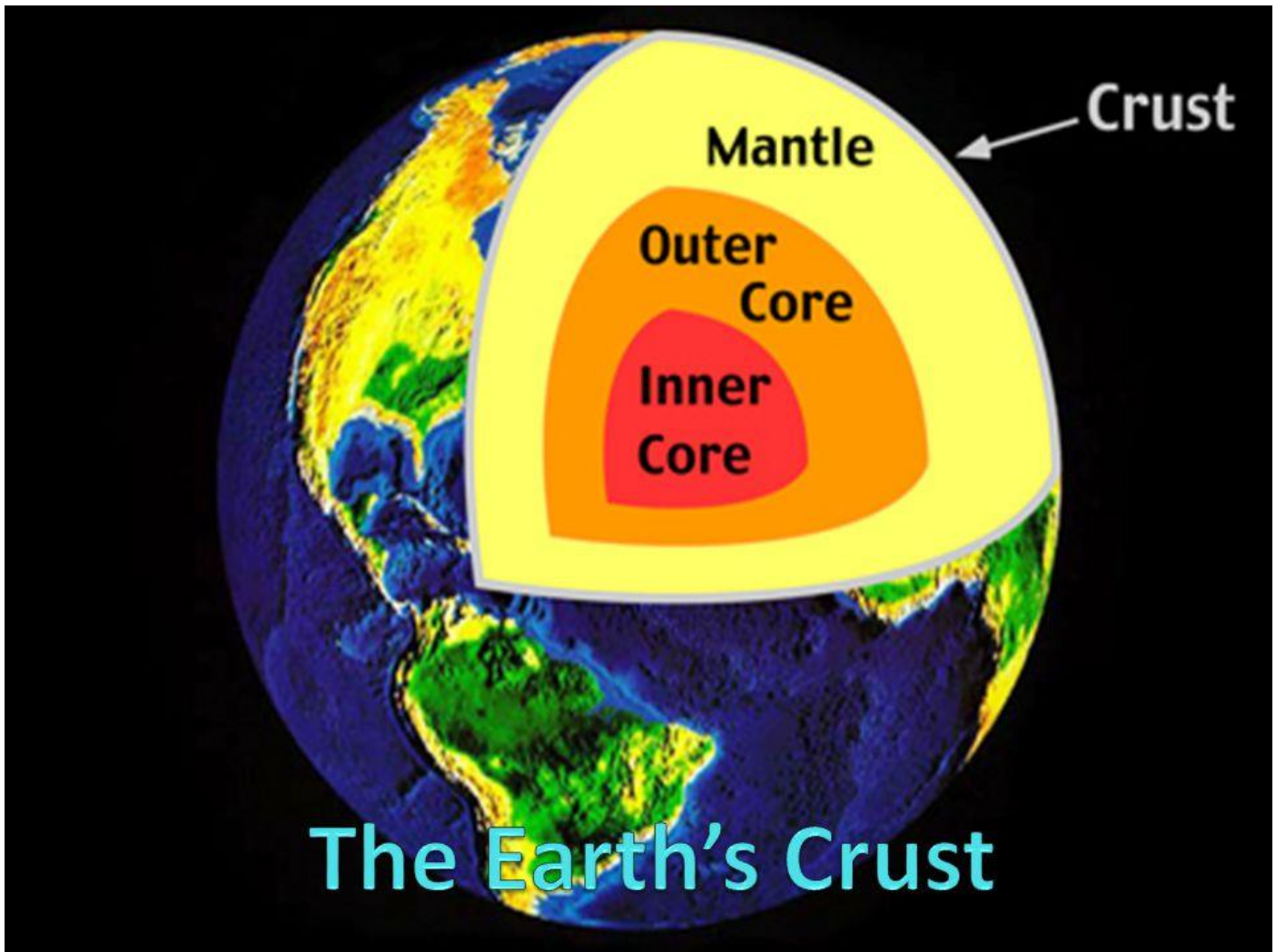
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وَجَعَلْنَا فِي الْأَرْضِ رَوَاسِيَ أَنْ تَمِيدَ بِهِمْ

And We have placed on the earth firm mountains.  
(Al-Anbiya':31)



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- **Earth's inner Core** is solid ball with a radius of about 1220 kms, which is about 20% of earth's radius. Temperature about  $5430^{\circ}$ , which is about the temperature of surface of sun.
- **Earth's Outer core** is a fluid layer of about 2400 kms radius, which is 40% of earth's radius.
- **Earth's mantle** lies between dense super-heated core and its thin outer layer. It is about 2900 kms radius, 40% of earth's radius and about 84% of earth's volume.
- **Earth's Crust** is a thin shell on the outside of earth, accounting less than 1% of Earth's volume. Crust ranges from 5 to 70 kms is depth.

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**Mountains are like Pegs (Stakes) mentioned in holy Quran**

**Assalamu Alaikum Wa Rahmatullahe Wa Barakatuhu**

**Bismillahir Rahmanir Rahim**

**Today's topic: "Mountains are like Pegs (Stakes) mentioned in holy Quran"**

**It is revealed in the Holy Quran: Sura An-Naba 78:6 and 7**

أَلَمْ نَجْعَلِ الْأَرْضَ مِهْدًا

**Have We not made the earth as a wide expanse, (Sura An-Naba 78:6)**

وَالْجِبَالِ أَوْتَادًا

**And the mountains as pegs? (Sura An-Naba 78:7)**

**It is revealed in the Holy Quran: Sura Al-Amabya 21:31**

وَجَعَلْنَا فِي الْأَرْضِ رَوَاسِيَ أَنْ تَمِيدَ بِهِمْ وَجَعَلْنَا فِيهَا فِجَاجًا  
سُبُلًا لَعَلَّهُمْ يَهْتَدُونَ

**And We have set on the earth mountains standing firm, lest it should shake with them, and We have made therein broad highways (between mountains) for them to pass through: that they may receive Guidance.**

**(Sura Al-Amabya 21:31)**

**It is revealed in the Holy Quran: Sura An-Naml 27:88**

وَتَرَى الْجِبَالَ تَحْسَبُهَا جَامِدَةً وَهِيَ تَمُرُّ مَرَّ السَّحَابِ صُنِعَ اللَّهُ  
الَّذِي أَتَقَنَ كُلَّ شَيْءٍ إِنَّهُ خَبِيرٌ بِمَا تَفْعَلُونَ

**Thou seest the mountains and thinkest them firmly fixed: but they shall pass away as the clouds pass away: (such is) the artistry of Allah, who disposes of all things in perfect order: for he is well acquainted with all that ye do.**

**(Sura An-Naml 27:88)**

**It is revealed in the Holy Quran: Sura Al-Ghashiyah 88:17 to 20**

أَفَلَا يَنْظُرُونَ إِلَى الْإِبِلِ كَيْفَ خُلِقَتْ

**Do they not look at the Camels, how they are made?**

**(Sura Al-Ghashiyah 88:17)**

وَالِى السَّمَاءِ كَيْفَ رُفِعَتْ

**And at the Sky, how it is raised high? (Sura Al-Ghashiyah 88:18)**

وَالِى الْجِبَالِ كَيْفَ نُصِبَتْ

**And at the Mountains, how they are fixed firm? (Sura Al-Ghashiyah 88:19)**

وَالِى الْأَرْضِ كَيْفَ سُطِحَتْ

**And at the Earth, how it is spread out? (Sura Al-Ghashiyah 88:20)**

- In Geology, the phenomenon of folding is a recently discovered fact.
- Folding is responsible to the formation of mountain range.
- The earth's crust, on which we live, is like a solid shell.
- The earth's deeper layers are hot and fluid.
- It is also known that the stability of the mountains is linked to the phenomenon of folding.
- For it was the folds that were to provide foundations for the reliefs that constitute the mountains.
- Geologists tell us that the radius of earth is about 3,750 miles.
- And the crust on which we live is very thin. Ranging between 1 to 30 miles.
- Since the crust is thin it has a high possibility of shaking.
- Mountains act like stakes or tent pegs that hold earth's crust and give it stability.
- **أوتاد** (Autad) means Peg. And the mountain are deep foundations of geological holds.
- Dr Frank Press (science advisor to president carter) in his book "Earth" (1986) illustrates the mountain in a wedge-shaped, deeply rooted in the ground maintains stabilize the Earth Crust.
- The book "Earth" (1986) is considered as a basic reference text book.
- This book of geology is taught in many universities around the world.
- Mr. Frank Press was the president of the Academy of Sciences in the USA for 12 years and was the science advisor to former president Jimmy Carter.
- The height of Mount Everest is about 9 km and has Peg of 12.5 km rooted in the ground of Earth.

In this book he illustrates the mountains play an important role in stabilizing the crust of the earth.

The Quran clearly mentions the function of the mountains in preventing the earth from shaking in verse 21:31.

The Quranic description are perfect agreement with modern geological data.

So, brothers and sisters, let us think deeply about the creations of Allah. Let us be Allah conscious. Let us fear Allah. Let us thank Allah for His innumerable favours on us. Let us do what He likes and refrain from what He dislikes. Let us not associate anyone with Allah.

**Ameen**

**Assalamu Alaikum Wa Rahmatullahe Wa Barakatuhu**

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