Which Scientist is Correct

Below you will see three claims from each quarter: space, Earth’s structure, Effects of water, Human impact. Two of the claims are false, one is true. For each false claim, correct it. Your correction must include scientific reasoning.

Quarter 1: Space

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| Claim | T/F | Correction |
| The universe is stationary and has always looked the way it does today. |  |  |
| The sun is an average star and is mostly burning Hydrogen into Helium. |  |  |
| One day, the sun will go Supernova destroying all the planets in the solar system. |  |  |

Quarter 2: Earth’s Structure

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| Claim | T/F | Correction |
| The continents move due to the spreading of the seafloor as new mantle is created. |  |  |
| Due to the opening of the crust, mid-ocean ridges are the deepest parts of the oceans. |  |  |
| Oceanic volcanoes, like those found in Hawaii, have high viscosity, meaning that the lava is very sticky and does not flow very easily. |  |  |

Quarter 3: Effects of Water

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| Claim | T/F | Correction |
| Weathering and Erosion are synonyms and mean that rock is getting cracked. |  |  |
| Cracks in the road are solely the cause of frost wedging when water freezes in the winter. |  |  |
| As streams get older, they slow down and get curvier in nature. |  |  |

Quarter 4: Human Impact

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| Claim | T/F | Correction |
| Humans are not responsible for climate change. The warming is due to natural cycles in temperature. |  |  |
| Due to human impact, carbon which normally would be stored in the ground for millions of years is being released into the atmosphere at an unsustainable rate. |  |  |
| All energy sources are equally impactful to the environment so there is little point in spending the money in changing the current system. |  |  |