

## EDITORIAL

# Climate Change and Natural Disasters: Are they linked?

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Geology, the science of earth – rocks, minerals, soils, and water within atmosphere and lithosphere encompasses a number of geological phenomena evolved over the geological time. Key components include sedimentation, stratification, volcanism, magmatism, metamorphism, weathering and erosion when reinforced by tectonic deformation episodes results in natural disasters such as earthquakes and tsunami among others. Subsequently when these geological processes get exposed to extreme climate, natural disasters such as landslide and flood or wildfire are inevitable. In recent years, frequency as well as intensity of such disaster events is increasing across the globe notably with the onset of global climate change having severe socioeconomic impacts particularly in the underdeveloped and/or developing countries. Realizing these facts, the *Journal of Geological Research* (JGR-A) is being continued by placing towards supporting the research community at the heart of everything we do, we strive for a future where researchers are motivated to work together, empowered with the tools and services they need to do so, and freed from any barriers that stand in their way. We aim to maximize the impact of scientific research through openness and global collaboration as we truly believe that science works best when research is open. In line with this

strategic policy guideline, JGR-A calls to all contributors for a more innovative geological research in the backdrop of recent global climate change scenario triggering severe natural disasters across the globe.

This Vol 3 Issue 3 focuses on to publish three papers from Nigeria within underdeveloped African continent. It includes: a) innovative research towards developing a computer program to calculate the horizon loop electromagnetic (HLEM) method responses for optimal conductor model with known values of coil separations (L), depth of burial (z) and angle of dip of the target for different geological scenarios in the Ilesha area of Osun State in the southwestern part of Nigeria. This will contribute to enhance further computer program in delineating the geometry and position of the causative body precisely <sup>[1]</sup>; b) detailed study on mineralogy and petro-genesis of Beka basaltic lava situated in the Adamaoua Plateau of Cameroon in central Africa for the first time. This contributes to understand the mineral assemblage, geochemistry and geodynamics of central Africa leading towards discovery of new mineral prospects in future <sup>[2]</sup>; c) evaluate the quality of aquifer located at Adum West Area of Benue State, Nigeria. Important information emerged from this paper is extremely useful for the local community people. They

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are: i) aquifer is considered vulnerable to contamination from the surface and aquifer protective capacity fell within poor to moderate category"; ii) the pH values were below WHO permissible limit and at some sampling points TDS values above WHO limit; and iii) groundwater is characterized to be temporary to permanent hard<sup>[3]</sup>.

All these published papers from the geological research community of African continent are apparently contributing towards overall socioeconomic development and humankind across the globe - a strategic policy of JGR platform.

## References

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