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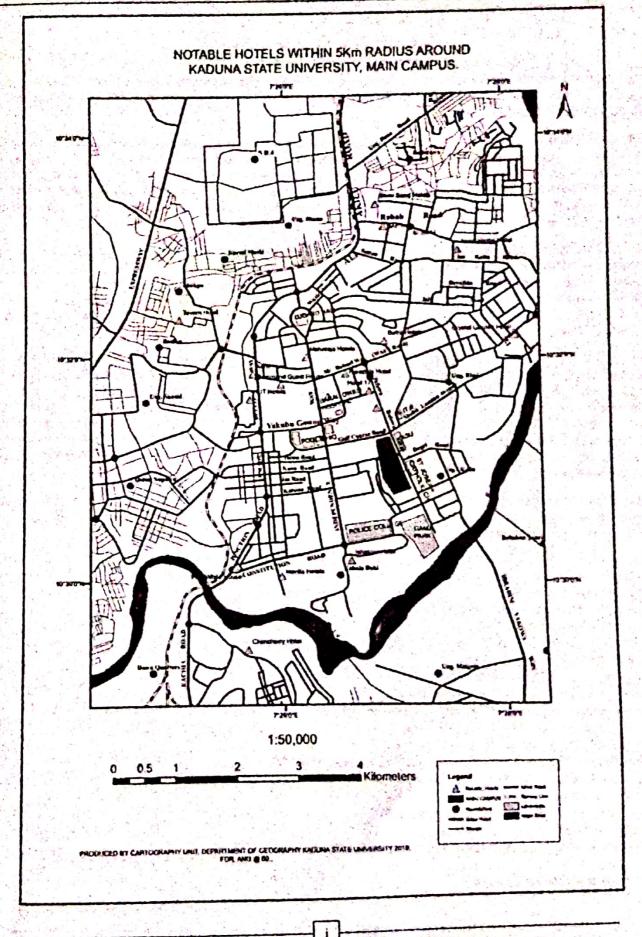
ASSOCIATION OF NIGERIAN GEOGRAPHERS
ANNUAL CONFERENCE

245019

GEOGRAPHY AND DISASTER MANAGEMENT

DATE: SUNDAY 13TH - THURSDAY 17TH OCTOBER, 2019 VENUE: KADUNA STATE UNIVERSITY, KADUNA

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ANG AT A GLANCE

The Association of Nigerian Geographers (ANG), formerly Nigerian Geographical Association (NGA) is one of the earliest underella academic Associations in Nigeria having been formed in 1957. It is a non-peofic seamific and scheduly Association that aims at advancing the study of Geography in Nigeria. Its members share minerists in the theory, methods and practice of geography and geographic education. Currently, the Association has more than 1,400 members from all parts of Nigeria and beyond, and represent the interests of Geographics in the country. ANG members are geographers and related professionals who work in the public, private, and academic sections. They work in a wide range of currers, such as university scholars, between soiliges, trachers of geography, researchers and analysis, planners, cartographers, scientists, non-profit workers, emergeneous, businesspeople, bunkers, graduate students, retirees and many others.

The Nigerian Geographical Journal (NGI) and is the Association's flagship Journal. It has been the major publication outlet of Geographics in Nigeria since the formation of the Association. Annual Conferences Since its formation, the Association continues to hold its conferences annually on different campuses across the country. The Conferences offer opportunities for geographers to present, especially, their research outputs on issues from local to global scale, and on topics in the physical, human and development geography and as well as on methodological issues and technologies such as the Remote Sensing and the Geographical Information System (RSGGS).

Methodology Lectures are now prominent features during the Conferences so are Field Trps. Moreover, in order to catch-them-young, students of secondary schools age are treated to National Geo-Quiz and also Poster Compenitions. At these Annual Conferences, Annual General Meetings (AGM) are held. During such meetings, matters of concern to the geography community are openly discussed and decisions taken. Thus, the Annual Conferences are excellent avenues to, not only present one's own research works, they also provide avenues for the young and the old to network.

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GROUP TWO
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HOTSPOTS MOBILITY THEORY (HMT)

Muzammil Ahmed Khalid,
Department of Geography, Faculty of Earth and Environmental Science Sciences, Bayero University Kano, Nigeria.

ABSTRACTS
Hazards poide by carthquakes, voicanoes and landslides have always been with us
Hazards poide by carthquakes, voicanoes and landslides have always been with us
Hotopots are isolated areas of volcanic activities usually not associated with plate boundaries. They are attributed to rising
Hotopots are isolated areas of volcanic extivities usually not associated with plate boundaries. They are regions deep within the Earth's
columns of warm nandle material (plames) originating at the base of the mantle. They are regions deep within the Earth's
nandle from which heat rises through the process of convection. But in this theory, hotspots are referred to any geologically
mandle from which heat rises through the process of convection. But in this theory, hotspots volcanic eruptions, folding,
active, unstable and vulnerable portion of the earth is careas more prone to seismic events, volcanic eruptions, folding,
active, unstable and vulnerable parts of the world today compared to other parts of the world,
elevated lands are mostly geologically the hotspots over space and time. Plate margins, mountainous regions and highly
elevated lands are mostly geologically of the hotspots over space and time. Plate margins, mountainous regions and highly
the theory discovered that places overlain by new geological formations are more prone or vulnerable to geologic instability
formations (either overlain or exposed) are more stable and less vulnerable geologically than other areas overlain by postformations (either overlain or exposed) are more stable and less vulnerable geologically unstable than older formations. Hotspots move
Cambrian formations. Younger geological formations are more geologically unstable than older formations. Hotspots move
Cambrian formations. Younger geological formations donter and they would continue to shift in the future. Stress-strain
over the geological periods from one geo-location to another and they would continue to shift in the future. Stress-strain
over the geological periods from one g

Key words: hotspots, vulnerable areas, seismic events, volcanic eruption

A REVIEW OF GPS-BASED ZENITH PATH DELAY ESTIMATION AND ITS APPLICATION IN NIGERIA

Ibrahim, J. S., Danlami D. and Opaluwa Y. D. Department of Surveying and Geoinformatics, Federal University of Technology Minna, Nigeria Corresponding author: james.shekwoladu35@gmail.com

As the GPS signals traverse the tropospheric layers to the receivers on the ground, they are refracted and bend, thereby causing delay on their arrival time and in turns affecting positioning accuracy in the horizontal and vertical components. This delay which is one of the sources of positioning errors in GPS observation is known as Zenith Path Delay (ZPD). Estimation of ZPD during GPS data analysis is crucial for improving GPS positioning accuracy and assimilation into Numerical Weather Prediction (NWP) models for improved weather outlook and climate studies. This is remarkable, especially for tropical region noted for highly dynamic weather and climate system due to high moisture contents. However, the development of GPS infrastructure in Nigeria is relatively new. The NIGerian reference GNSS NETwork (NIGNET) is a network of GPS continuously operating reference stations (CORS) which was set up as a surveying infrastructure by the Federal Government of Nigeria through the Office of the Surveyor General of the Federation in about a decade ago. Nevertheless, there exist very limited numbers of literatures discussing GPS-based estimation of ZPD and its applications over Nigeria. Therefore, this paper presents a review of literature on ZPD estimation and its applications over Nigeria. A systematic review approach is adopted, literature materials were downloaded from five (5) web-based archives: Google Scholar, web of science, Ebesco, Scopus and Pubmed.

Keywords: Zenith Path Delay, Nignet, GPS CORS Numerical Weather Prediction

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A REVIEW OF APPLICATION OF UNMANNED AERIAL SYSTEM IN MAPPING DISASTER AREA

- Muhammad Bala, I Musa Ahmad2

 Department of Surveying and Geoinformatics, school of Environmental Technology, Niger State polytechnic Department of Surveying and Geoinformatics, School of Environmental Technology Federal University of Technology Minna, amusa 22 gmail com 09035314040

ABSTRACT

BestRACT
Besides the commercial and military application of drones, UAVs can be used efficiently to support emergency management. Information is vital and plays an important role in crisis management and relief effort for natural and man-made disaster the data collection for disaster management. UAV fashioned a lot of advantages among which are the gains in terms of time and human resources, as they can fee rescue teams from time consuming data collection tasks and assist research operations with more insightful and precise guidance courtesy of advanced sensing capabilities. This paper focuses on operational and focuses on 6 disasters: floods carthquakes, wildfires, hazardous chemical splits, structural damage and nuclear accident. An survey. Drones can be deployed quickly, generate high-resolution and 3D mapping, identify bottopt and than account than acrial time to coordinate relief efforts. Floods are typical for a slow onset disaster, managing floods is a very complex and difficult task. It requires continuous monitoring of dykes, flooded and threatened areas. Drone can help managers largely keeping an area under observation. Forest fires are disasters, where the tactical application of monitoring. In case of nuclear accident or hazardous malerial leakage drone is already well developed. Drone can be used for fire detection, intervention monitoring and also for post-fire monitoring. In case of nuclear accident or hazardous malerial leakage drone is already well developed. Drone can be used for fire detection, intervention monitoring and also for post-fire monitoring. In case of nuclear accident or hazardous malerial leakage drone is already well developed. Drone can be used for fire detection, intervention monitoring and also for post-fire monitoring. In case of nuclear accident or hazardous malerial leakage drone is also a very effective or can be the only one tool for supporting disaster management.

Keywords: Disaster management, floods, earthquakes, hazardous chemical spills, wildfires, Drone

FIRE SAFETY AWARENESS AND PREPAREDNESS AMONG TERTIARY INSTITUTIONS IN KANO

Karimatu Umar Adamu, Abba Sani Abdullahi, Mahmoud Zubair Imam & Dr Hindatu AbdulKadir Geography Department, Sa'adatRimi College of Education Kumbotso, PMB 3218 Kano, Nigeria 08065674310 <u>karimatuumaradamu@gmail.com</u>

ABSTRACT
Fire outbreak is one the sudden and common disasters that causes human, material, economic and environmental losses. Fire safety measures includes those that are intended to prevent ignition of fire and those that are used to limit the development of the effects of fire after it starts. The objectives of this paper is to assess awareness of fire safety among students and the level of preparedness of fire outbreak in four tertiary institutions in Kano. The population is the Geography students in Sa'adattriii College of Education Kumbotso, Federal College of Education, Kano; Aminu Kano School of Islamic Legal Studies and Bayero University Kano; and heads of the works department in the institutions. Simple random sampling would be used to select fifty respondents from each of tertiary institution using purposive sampling making a total of 200 respondents. Multiple sources of evidence would be used in data collection, namely literature review, questionnaire, observation and interviews. Data would be analyzed using descriptive statistics and presented in percentages and tables. Recommendation on how to address the challenges would be raised. challenges would be raised.

Key words: Fire safety, Awareness, preparedness, Tertiary institutions