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Oral Type of Contribution

PREDICTABILITY AND PREDICTION OF HYDROLOGICAL FORECAST AND ITS IMPLICATION FOR MARCH 2012 : A CASE STUDY IN NIGERIA.

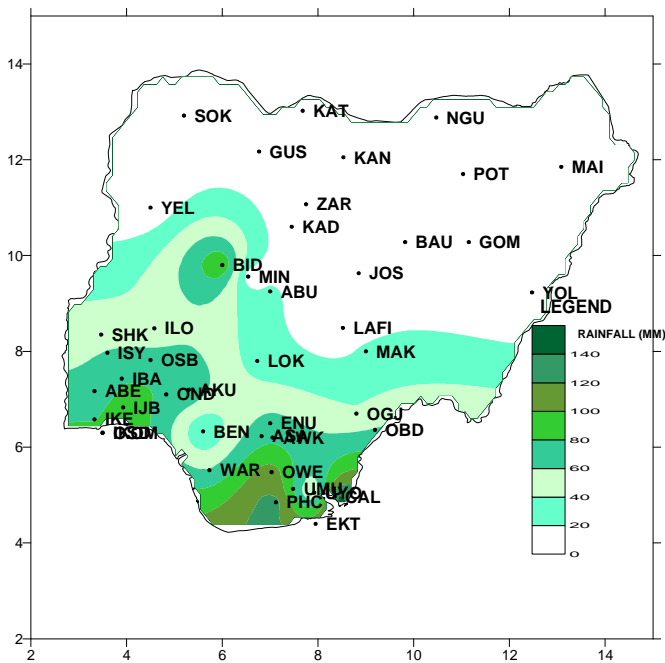


FIG.3: NORMAL RAINFALL DISTRIBUTION FOR MARCH, (1971-2000)

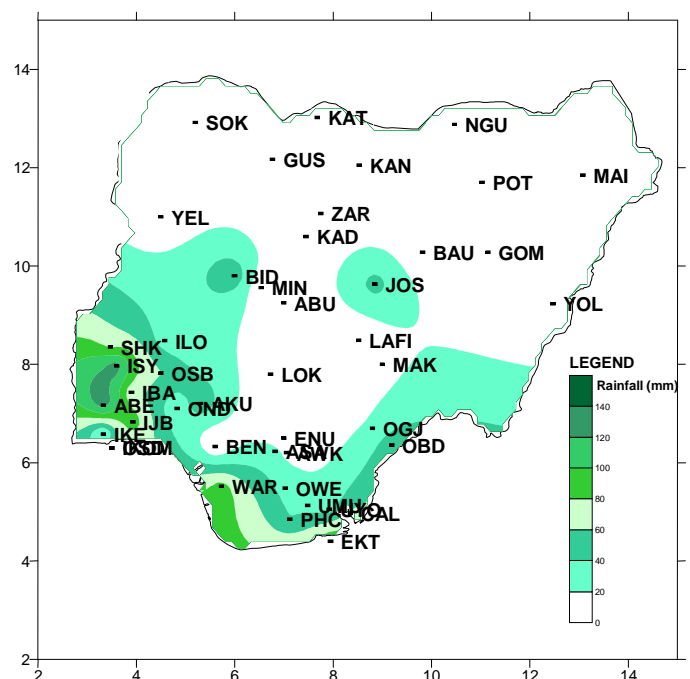


FIG.1: ACTUAL RAINFALL DISTRIBUTION FOR MARCH 2010

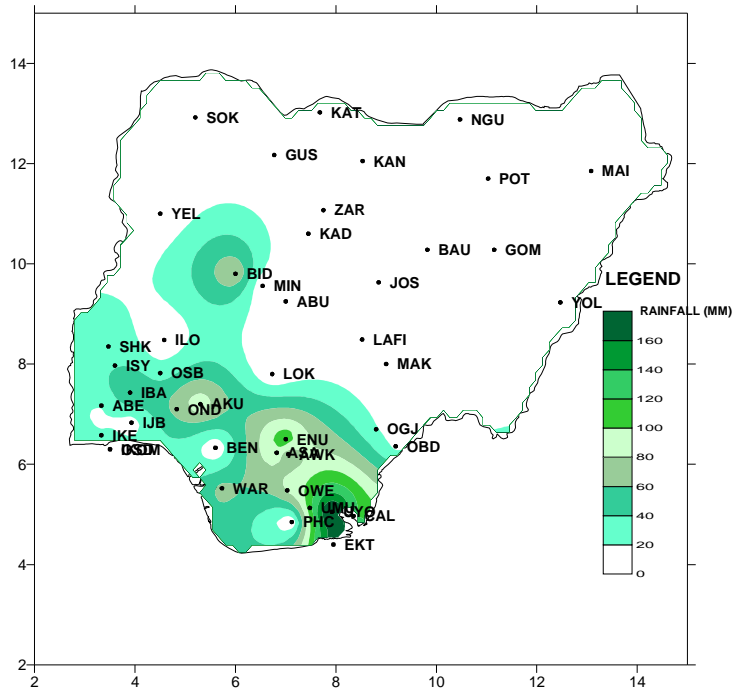
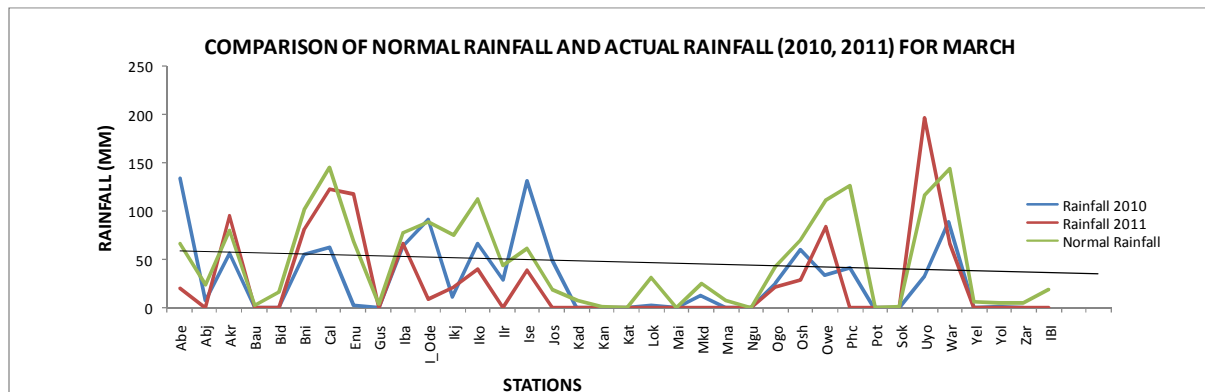


FIG.2: ACTUAL RAINFALL DISTRIBUTION FOR MARCH, 2011.



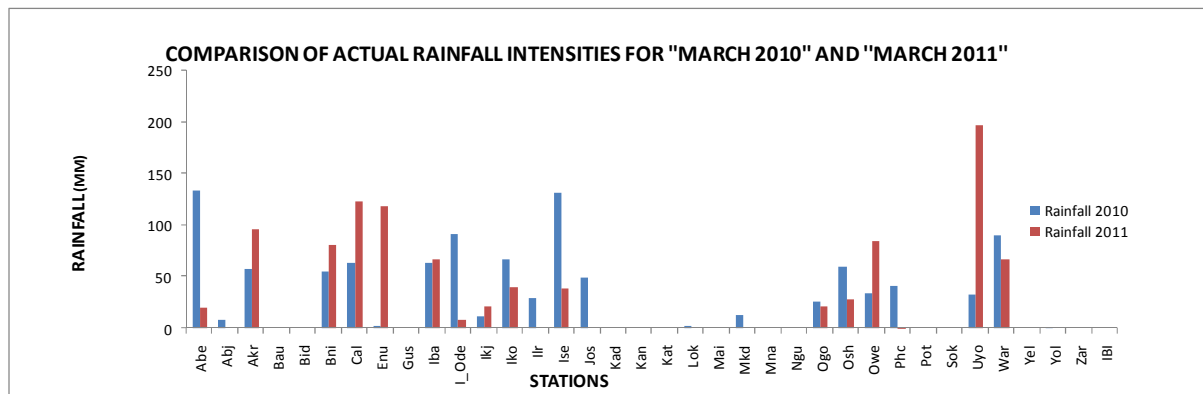


FIG.5

Hydrological Forecast

By the analysis of Rainfall from previous years 2010, 2011 for March showing in **fig: 1,2,3,4,5**, show that the level of Rainfall distribution in the month of March, 2012 are much concentrate around the coastal region of the country, where the threaten of floods will be possible as a result of Rainstorms resulting from climate change effect that affected system of weather in the country.

But few stations in other part of country like Southwest, South south will experiences a moderate Rainstorms while some part of Central States will dry and deficiencies in groundwater system.

The level of groundwater in the month March will till be very low in extreme North of the country and some part of Central States, except the coastal region where the local reservoir will be saturated with water.

Rainstorms

The possible rainstorms in March, 2012 will only experiences in coastal region, and some States in Southwest and South south because is the only primary source of flooding in this part of the country, therefore a detailed knowledge of its regime is an important pre-requisite for the occurrence of flooding. The problem is also related to irregularities in the onset/cessation, distribution and amount of the rains.

Groundwater Recharge

When rain falls, a portion of the water reaches the ground and enters the earth's surface through infiltration to enhance moisture content of the soil as well as reach the groundwater body. During this period (March), there will be no groundwater recharge in most part of the country especially central and northern part of the country, but the coastal region is expected to replenish the already depleted level of moisture.

General Public

This month (March) of the year are known for low intensity and low level of rainfall both in the southern, central, and northern part of the country. But this period (March) coastal region are known for high intensity and the volume of water in rivers, streams and lakes is on the increase and at most times overflow their artificial banks and inundate areas adjacent to them, resulting in loss of lives and properties. Rainstorms that will occur around coastal parts of the country this month is resulted from effect of climate changes.