SUDAN

Amani Sanhouri Eerayah
SUDAN METEOROLOGICAL AUTHORITY
Email: amanisan@yahoo.com
The area: The area of Sudan is about 1,886,068 km².

The Population:

due to the last census (2008), the population of Sudan is 30,894,000.

Climate of Sudan:

Sudan lies roughly between 4° N and 23° N and from 23° E to 39° E.

The rainy season is generally short extending for three to four months in most parts of the country. Rainfall increases from less than 100 mm in the north to more than 1400 mm in the extreme south (Adam and Abdalla, 2007).
The mean annual temperature ranges from 30° C to 40° C in summer and from 10° C to 25° C in winter (A.K.El Daw.)

The evapotranspiration ranges from 3000 mm in the north to 1700 mm in the extreme south.

The climate of the Sudan is complex in space and time. It is like many other parts of the tropics is prone to extreme climate events such as drought and floods. These events have in the past had severe negative impacts on key socio-economic sectors.
Met Stations
DATA TYPES AND SOURCES :-

The data collected from the data bank of the Sudan Meteorological Authority. It consists of total daily data of rainfall and temperature from about 26 synoptic stations covering the period (1961-2011). These stations are well distributed and represent the different climatic zones (regions) of the Sudan, except the Northwestern part of the country, which is a desert area. (Fig.2).