

SUB-SAHARAN - SAHEL (AFRICA)

REASONS FOR MIGRATION - PUSH FACTORS

DESERTIFICATION

DUETO

and Human factors

Deforestation - to open up more land for farming
 - fuel wood
 - building materials

- opens up land for more wind + water erosion + loss of soil/soil erosion/soil degradation.

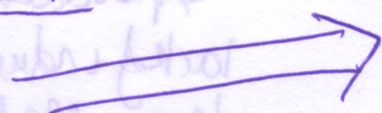
- less interception, more overland flow
 - lower humidity, less water recycling
 = lower rainfall

Overstocking/Overgrazing

lowers veg cover opens up land for erosion
 greater numbers of cattle per ha eventually above the carrying capacity of the land

Overcultivation and poor farming method. Shortening of fallow period in rain fed Ag areas.

Excessive irrigation lowers water table, water shortages, yields fall
 water logging + salinisation of soil



CLIMATE/ENVIRONMENT

- A savanna/semi-arid climate

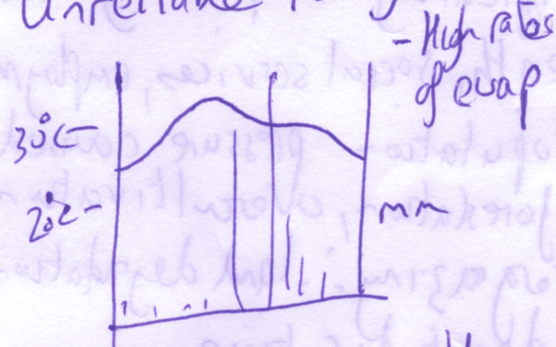
- High temps all year, summer $> 30^{\circ}\text{C}$

- Low rainfall total

- Seasonal rainfall, 90% in summer season, cool season drought

- Variability of rainfall/high

- Unreliable rainfall



- Periods of drought common

- climate change global warming - human induced CC

+ El Nino oscillation leads to greater variability

- More drought/more flooding

- 1970 - 2002 temp up 1°C

" " rainfall 100-200mm less

Sudan last 25 yrs - desert has moved 50km south

- 60m ha of land degraded