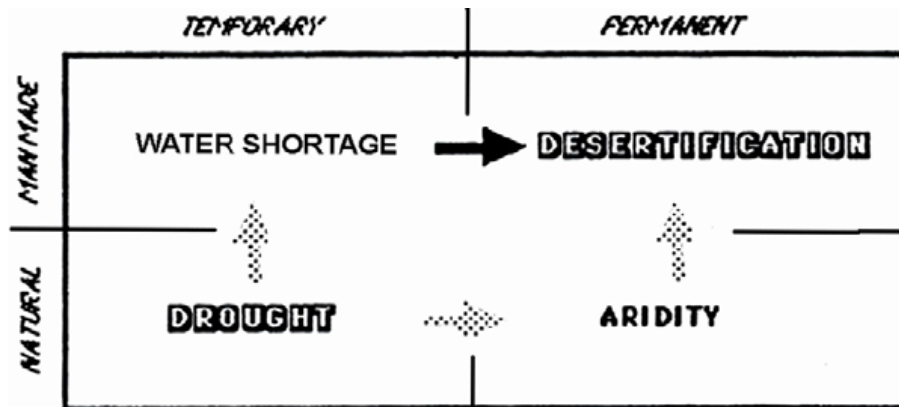


DROUGHT UNDER CLIMATE CHANGE

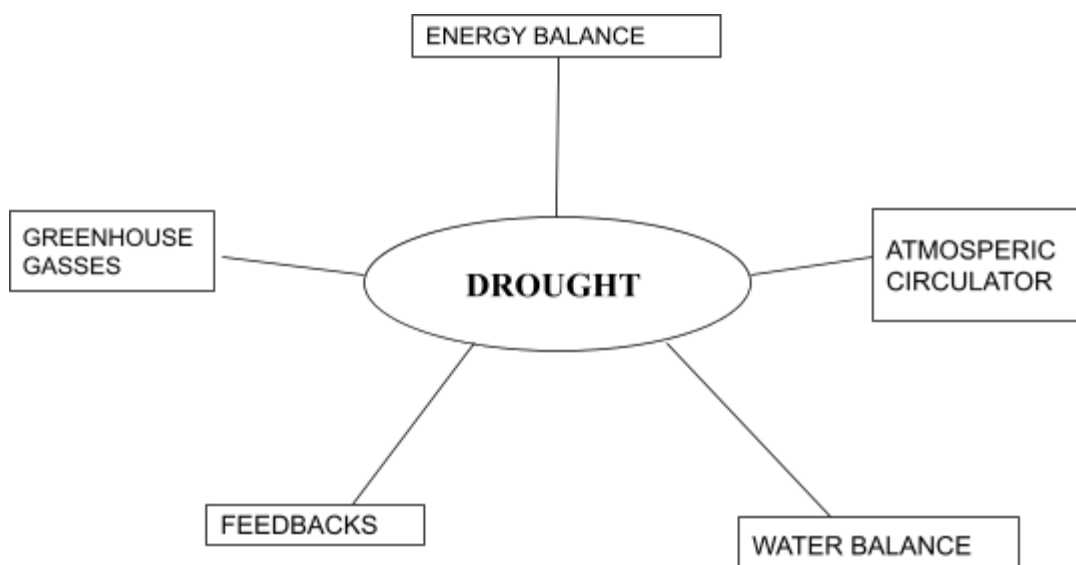
By Sergio Vicente Serrano
4 April 2022



Drought and aridity are not the same thing:

- Drought is a temporal anomaly and is caused by water shortage. There are two types of drought:
 1. The natural drought.
 2. The human induced drought.
- Aridity is a chronic lack of water that causes water scarcity and desertification

Due to the complexity of this phenomenon it's really difficult to measure and analyse the causes, consequences, and characteristics. It is also really difficult to know if the drought it's increasing or decreasing.



The effects of drought:

They are social, economical, but most importantly environmental. Some examples are:

- More than 450.000 human deaths in Africa caused by a really long period of drought.
- The damage caused by the drought affects the economy, costing more than 100.000 millions of euros to the world economy.

Even though you might not think of drought as the main cause of natural disasters, it actually is the first among the other natural phenomena

In the last few years there were two big droughts:

→ In 2011 in the USA and in Mexico

→ In 2018 in the Netherlands and in the Scandinavian countries

In a warmer world the weather will be more humid

The impact in the weather:

- Our atmosphere is demanding more water.
- Atmospheric evaporation is increasing.
- Agricultural droughts are increasing.

Future projections:

It's uncertain

In a new climate there will be more droughts and less humidity.

María Usieto, Mireia Camarero, Tessa van Veller, Agnese Assaloni.