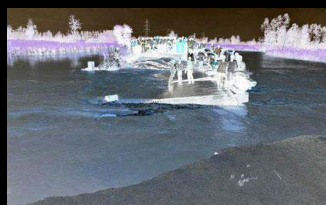
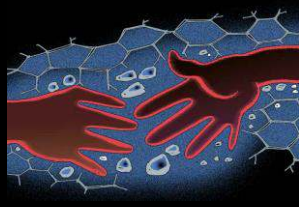


These Slides Accompany the YouTube Video Tutorial:  
<https://www.youtube.com/watch?v=DWJ3qKbk5n0>

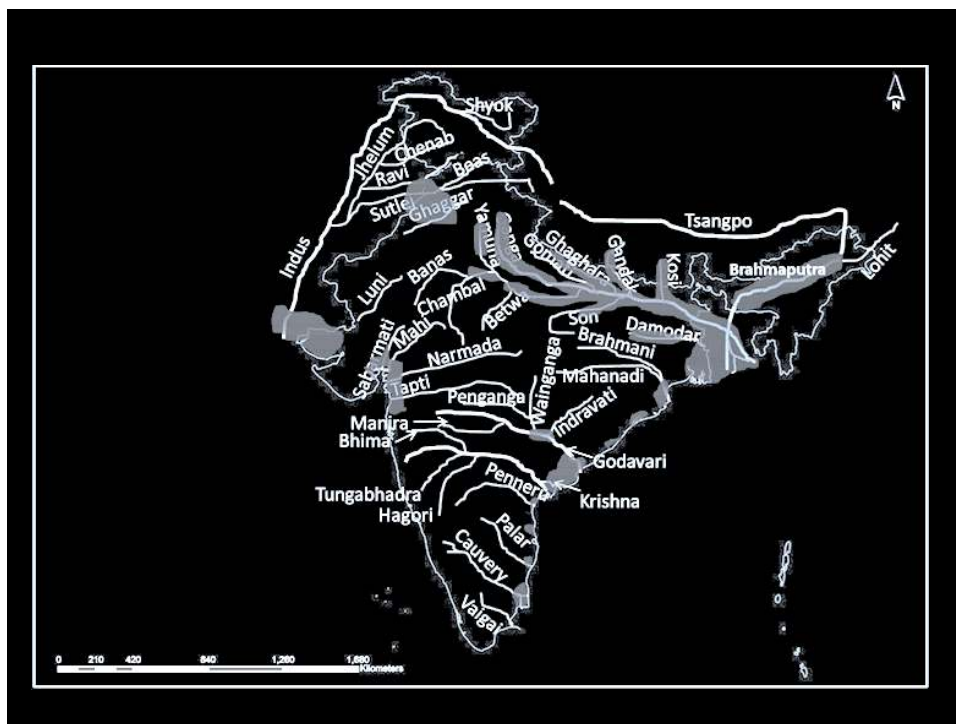
# Floods & Droughts



## Factors Affecting Floods

- Meteorological Factors
- Geomorphic Factors
- Anthropogenic Factors

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<https://www.youtube.com/watch?v=DWJ3qKbk5n0>



## Flood Control

- Forecasting
- Runoff ↓
- Volume ↓
- Levels ↓ – Channelization/Diversion
- Embankments
- Prohibit construction
- Green Belts
- Flood Plain Zoning

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<https://www.youtube.com/watch?v=DWJ3qKbk5n0>

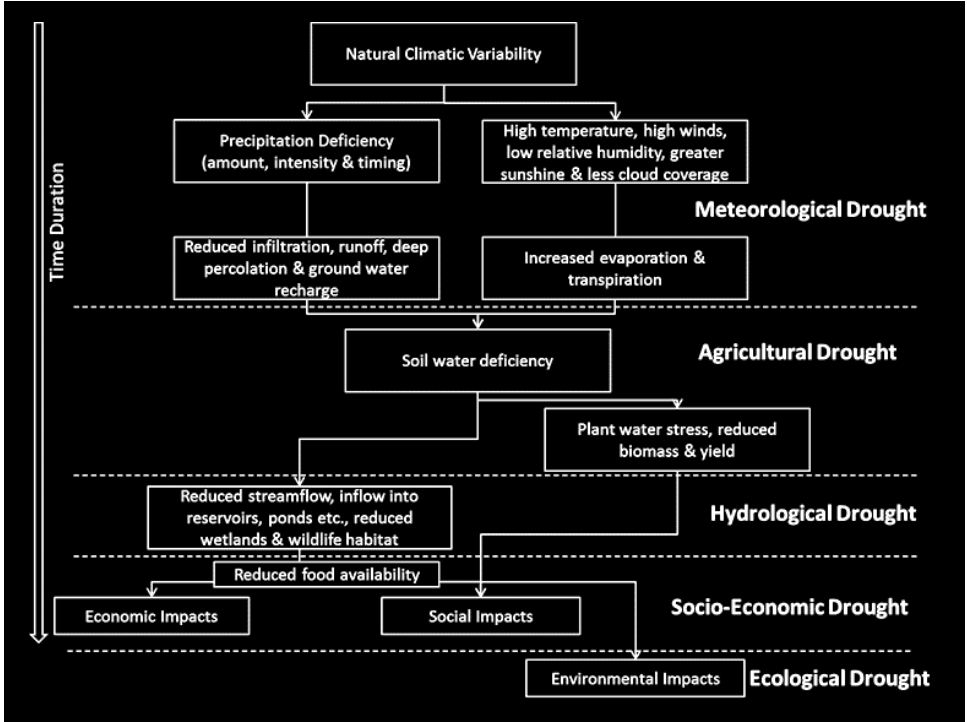
## Flood Control Programs

- Immediate
- Short Term
- Long Term
- Post Flood Management

## Drought Types

- Meteorological
- Hydrological
- Agricultural
- Soil Moisture
- Socio-Economic
- Famine
- Ecological

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# Cause & Effects of Droughts

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### Drought Relief

Protects entitlement of the affected population giving physical & economic access to food by relief projects & PDS

Relies on socio-economic indicators like crop production data, price rise, migration of drought-affected people & higher crimes rates

Intervene only in November & December when the rainy season is over & kharif crops are harvested

### Drought Management

It ensures entitlement to produce food so as to remove the need for adhoc relief projects

Relies on hydro-agriculture indicators, like rainfall, water level of reservoirs & progress of cropping pattern to detect early signs of developing drought situation

Intervene in monsoon season itself

## Drought Management Plans