

# Threat management for wetland

Natural processes (fire, floods,  
cyclon, drought)

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## Content of session

- What are natural processes
- Processes existing in or produced by nature
- Natural disturbances on site and of site
- Fires, floods, cyclones, droughts?

# What do the natural processes cause in wetlands?

- Fires?
- Floods?
- Cyclones?
- Droughts?

What do the natural processes cause in wetlands?

- Fires – destruction of wetland vegetation, erosion, wetland filling, invasive species?
- Floods - destruction of wetland vegetation, erosion, wetland filling, change of water quality invasive species?
- Cyclones – destruction of wetland vegetation, erosion, wetland filling, invasive species?
- Droughts – destruction of wetland vegetation?

## Extreme weather – droughts, floods

Stimulated by human activities *in situ*:

- Drainage for agriculture,
- Dredging, channelization
- Conversion for agriculture and other land uses
- Groundwater abstraction
- Burning, fires
- Tourism
- Construction of roads

## Extreme weather – droughts, floods

Stimulated by activities *ex situ*:

- Deforestation, degradation of upper watershed
- Inappropriate land uses in upper watershed
- Hydrological alterations by road, barriers encircling wetlands
- Overextraction of groundwaters
- Infrastructure projects – roads, power plants

Flooding (and flood damage) is much greater when streams are straightened and riparian vegetation has been removed.



# Threat management

- Fires, floods, cyclones, droughts produce:
  - destruction of wetland vegetation,
  - erosion,
  - wetland filling,
  - change of water quality
  - invasive species



Thank You!