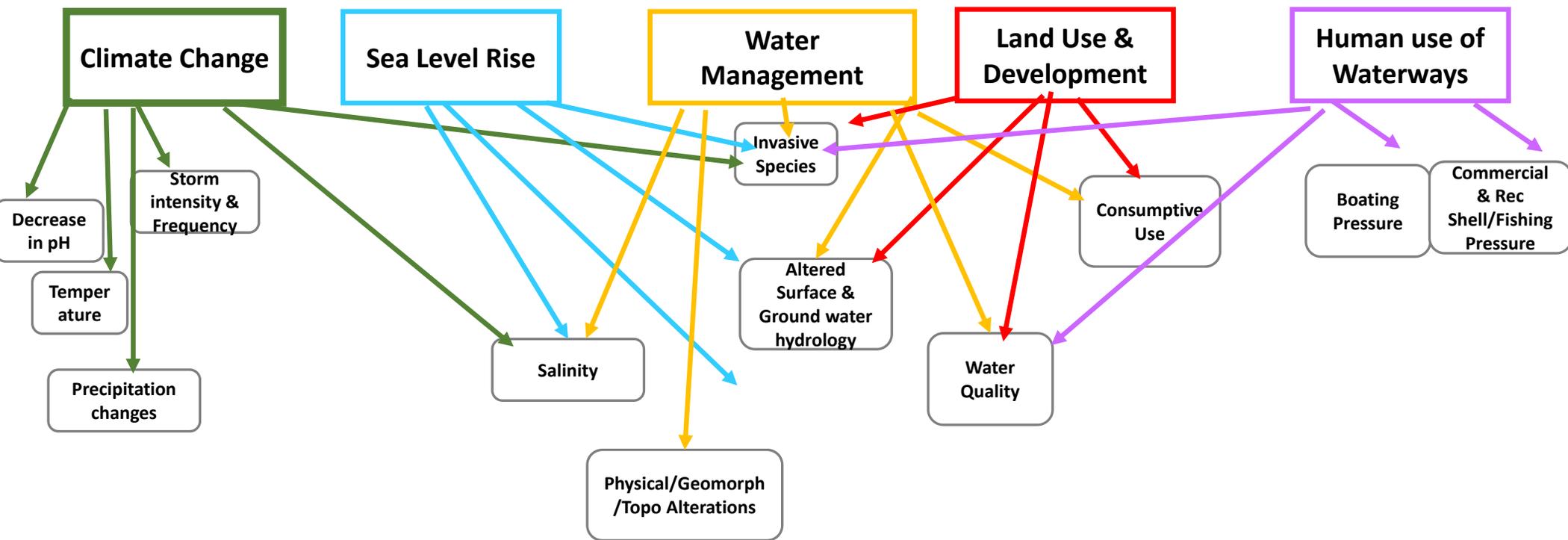
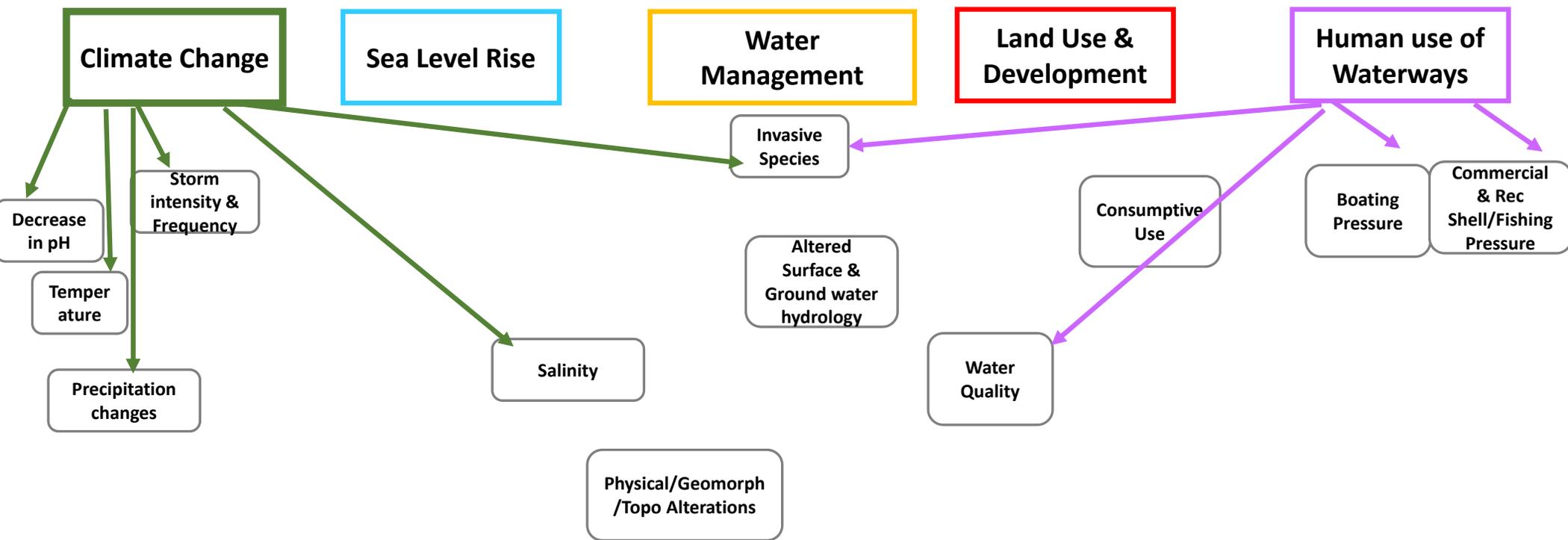
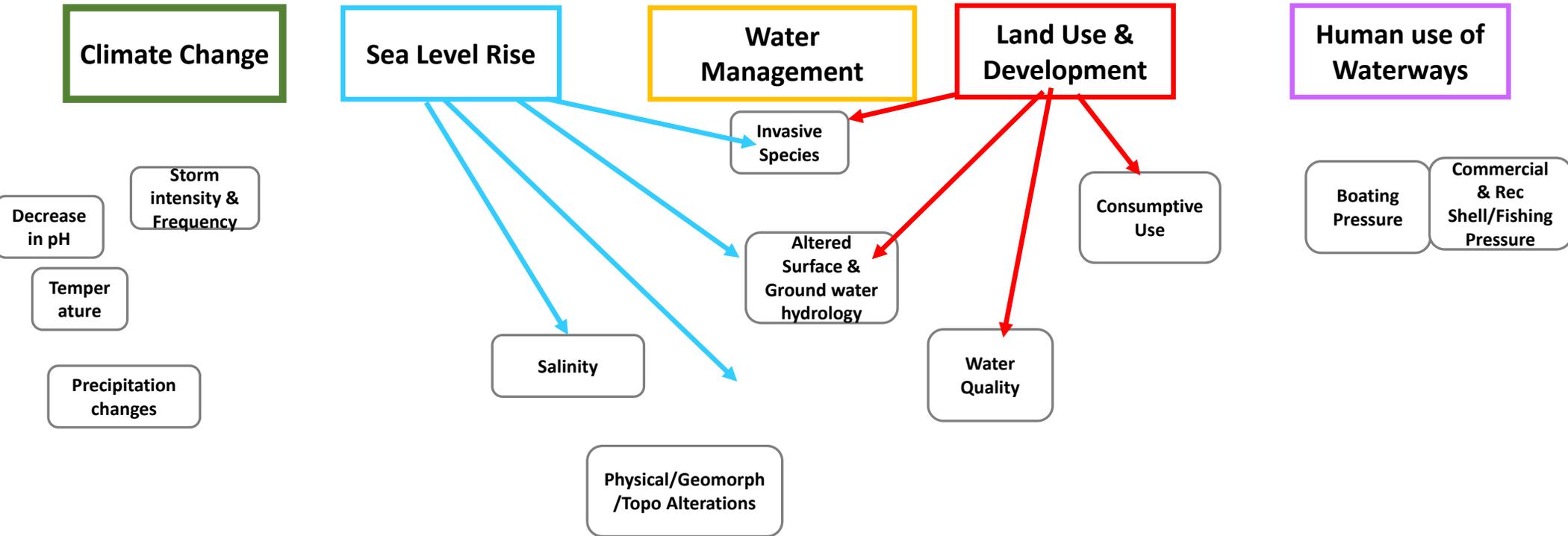


Northern Estuaries

ST. Lucie, Caloosahatchee, Loxahatchee







Climate Change

Sea Level Rise

Water Management

Land Use & Development

Human use of Waterways

Decrease in pH

Storm intensity & Frequency

Temperature

Precipitation changes

Salinity

Physical/Geomorph /Topo Alterations

Invasive Species

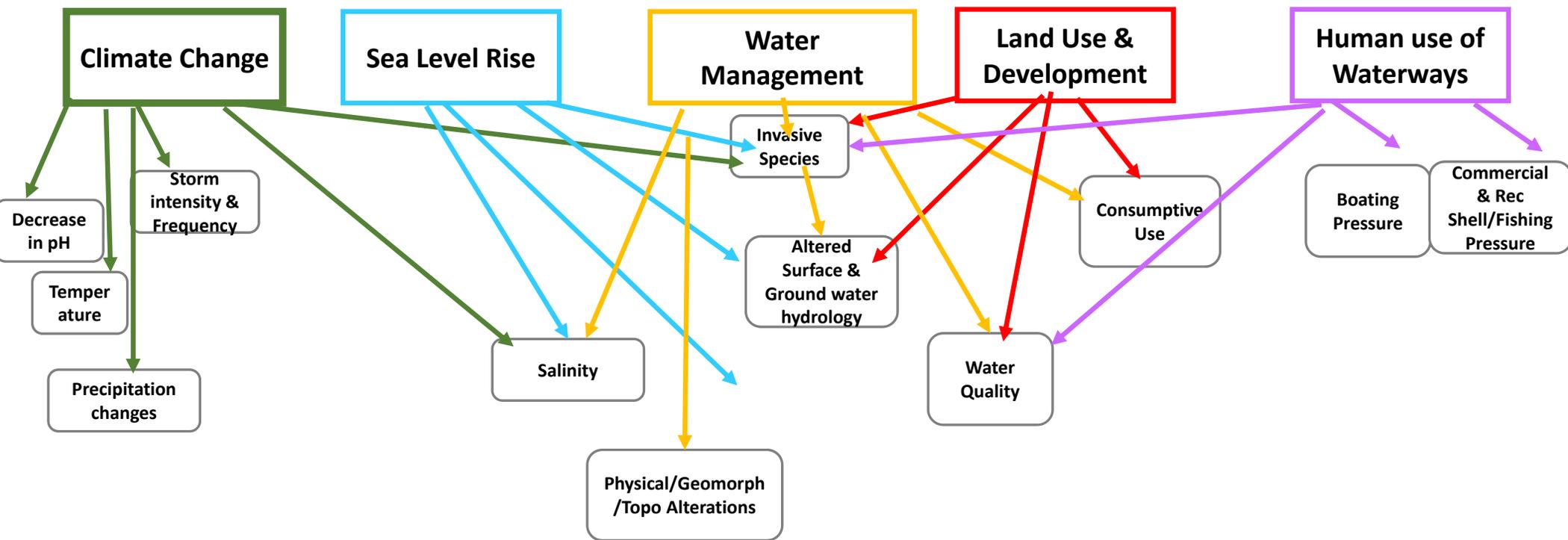
Altered Surface & Ground water hydrology

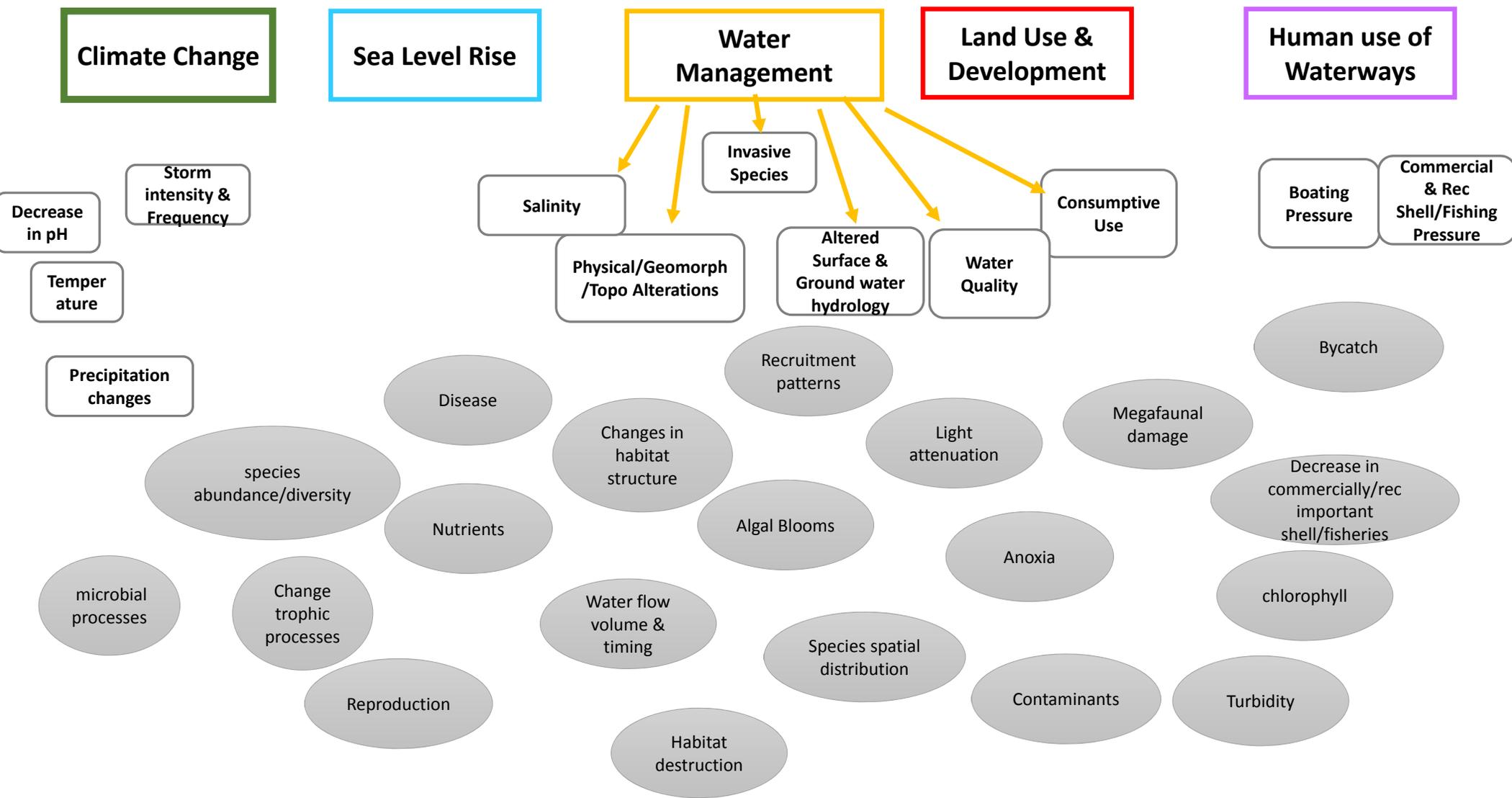
Water Quality

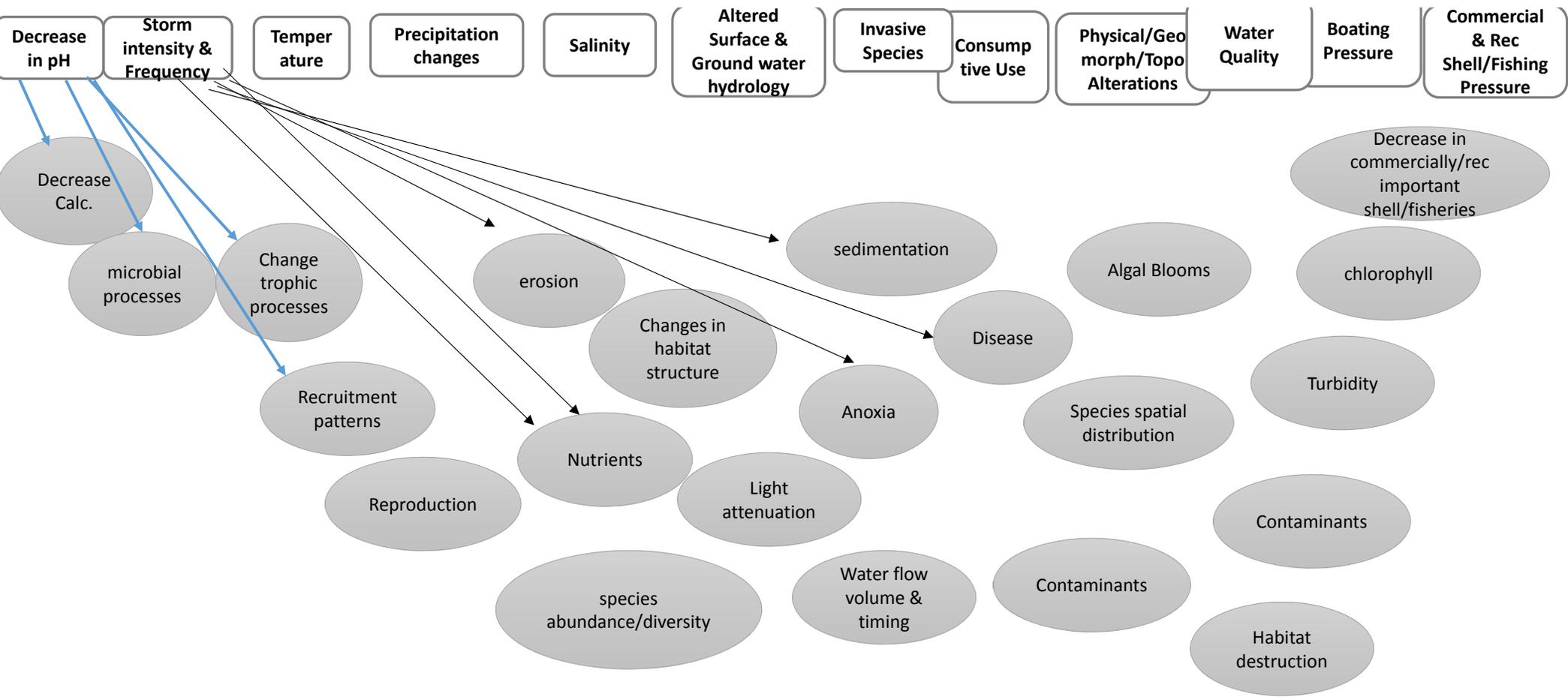
Consumptive Use

Boating Pressure

Commercial & Rec Shell/Fishing Pressure







Decrease Calc.

microbial processes

Change trophic processes

Recruitment patterns

Reproduction

Nutrients

species abundance/diversity

erosion

Changes in habitat structure

Light attenuation

Water flow volume & timing

sedimentation

Anoxia

Disease

Contaminants

Species spatial distribution

Algal Blooms

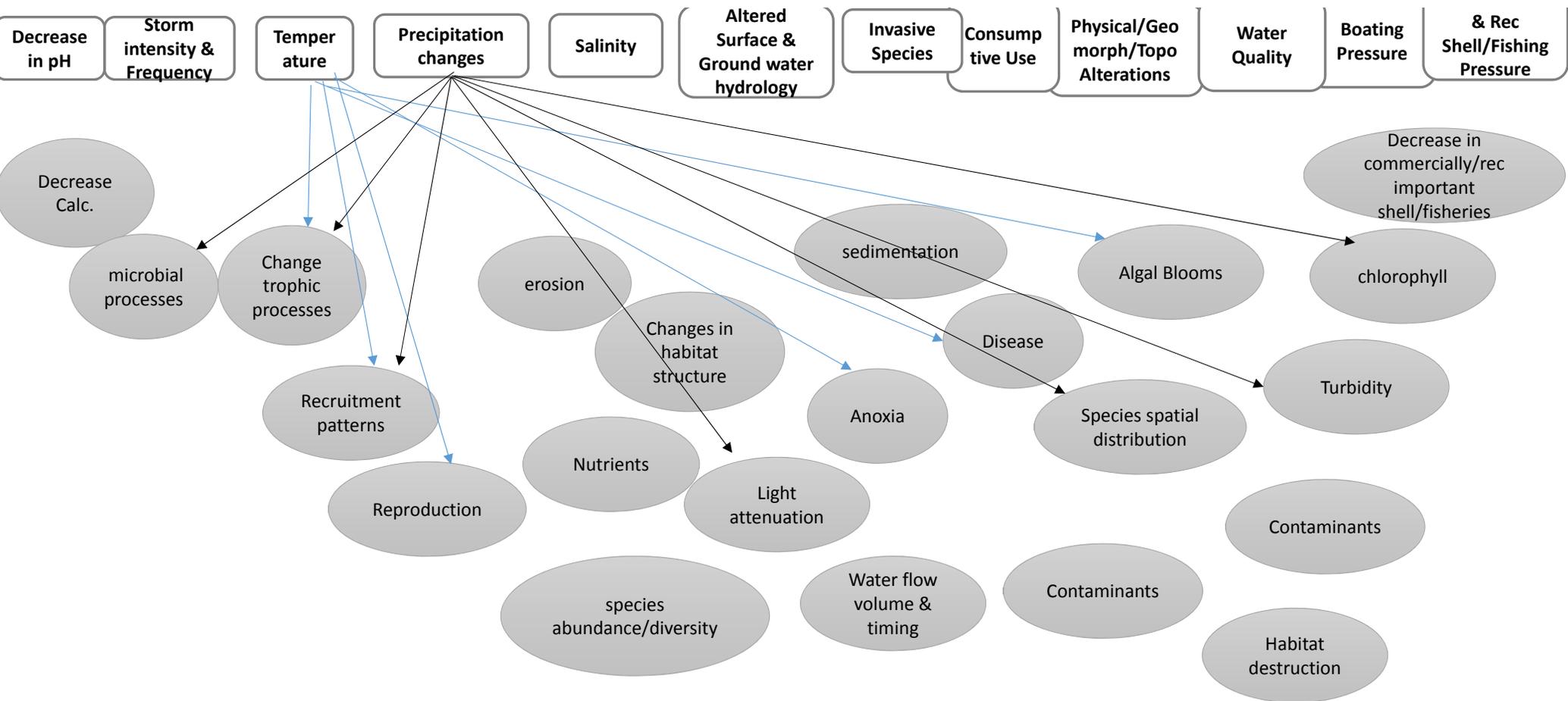
Habitat destruction

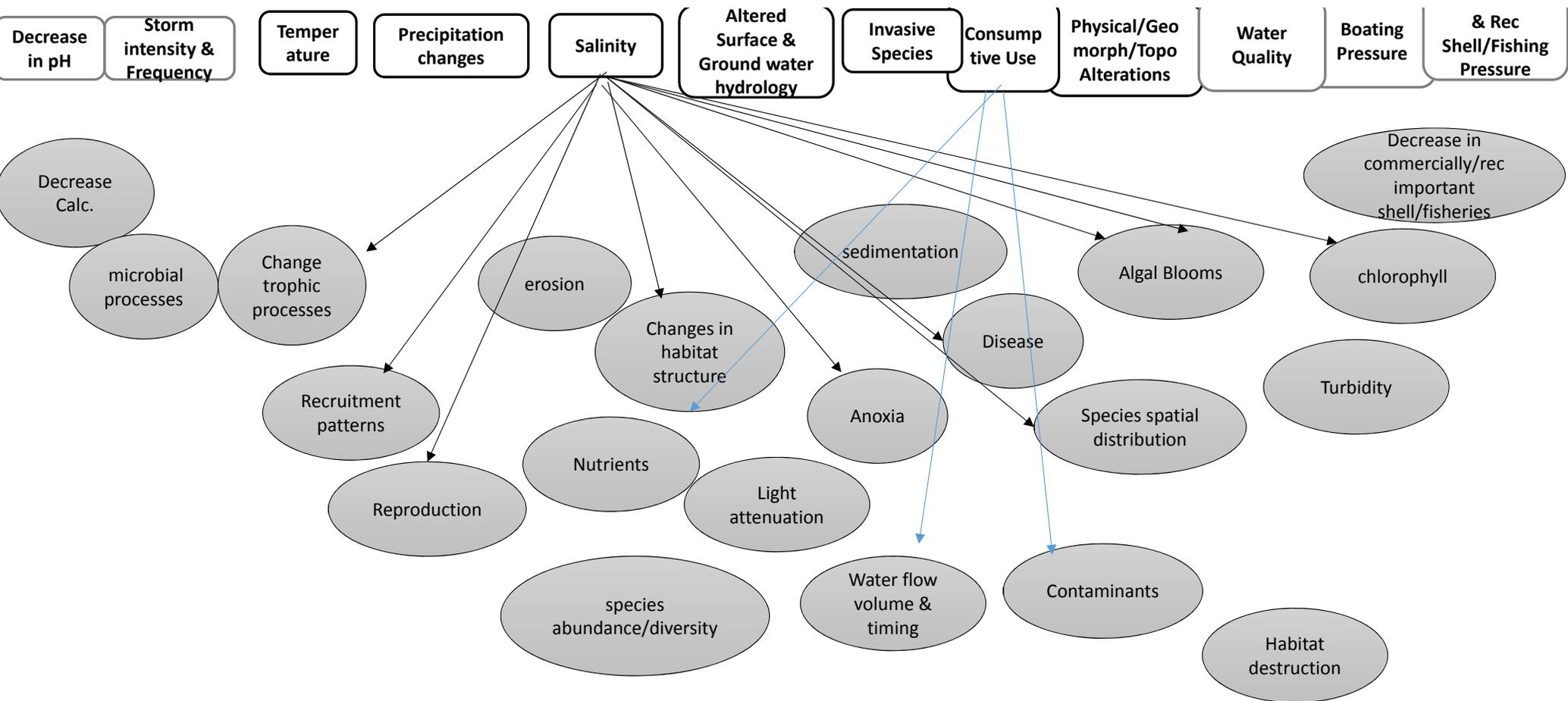
Contaminants

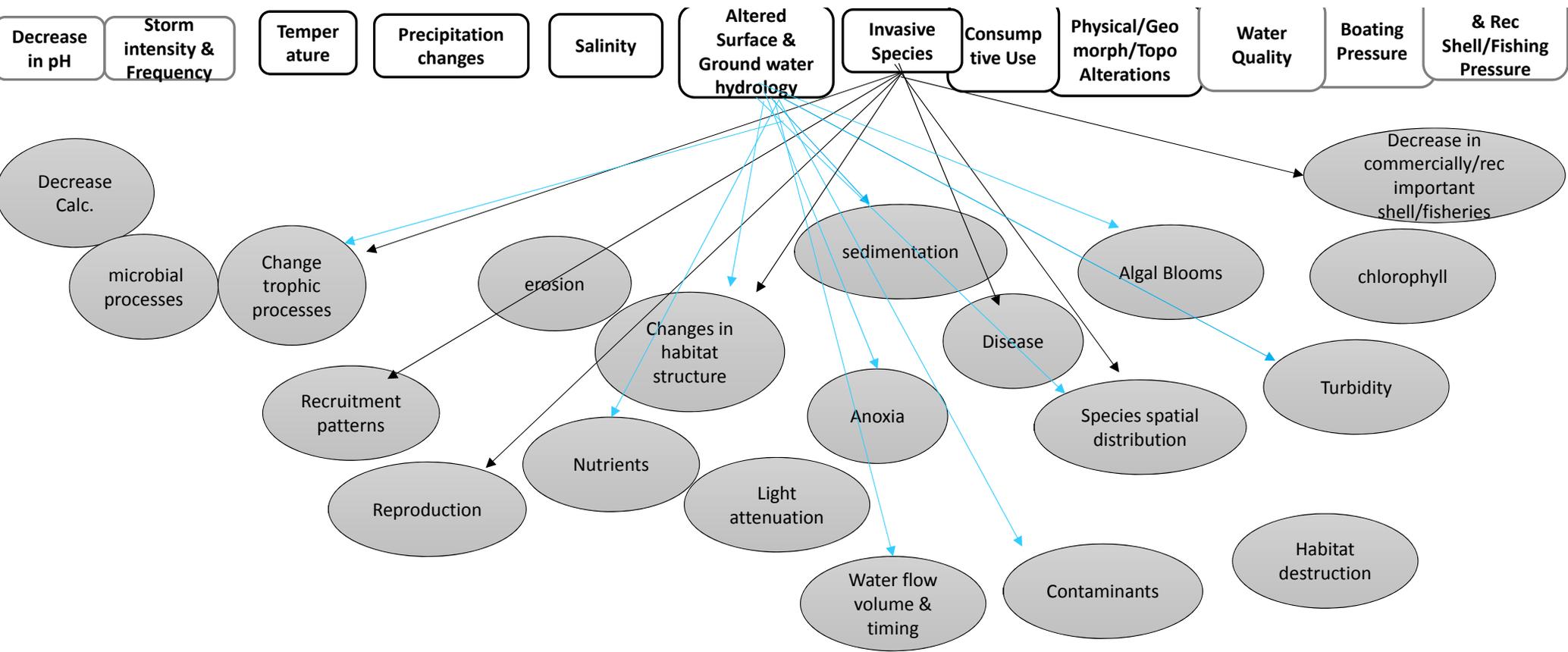
Turbidity

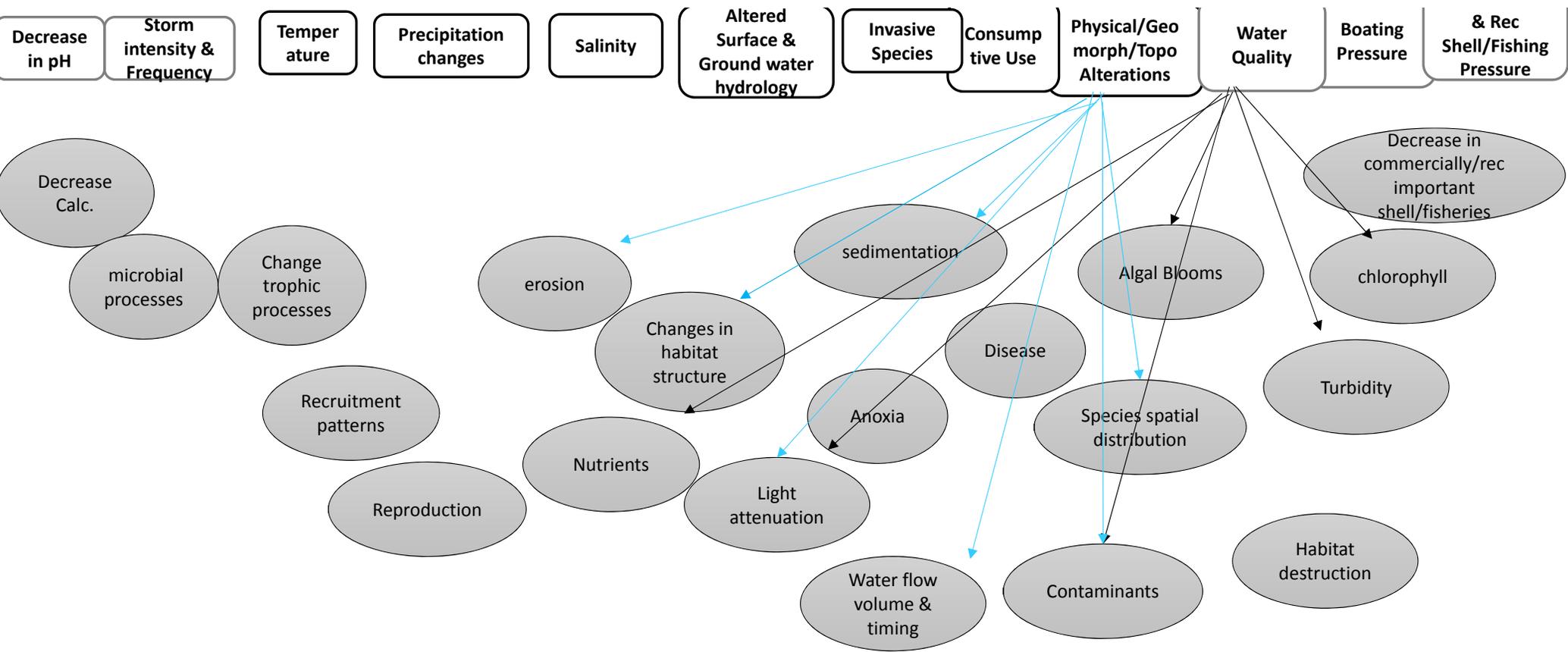
chlorophyll

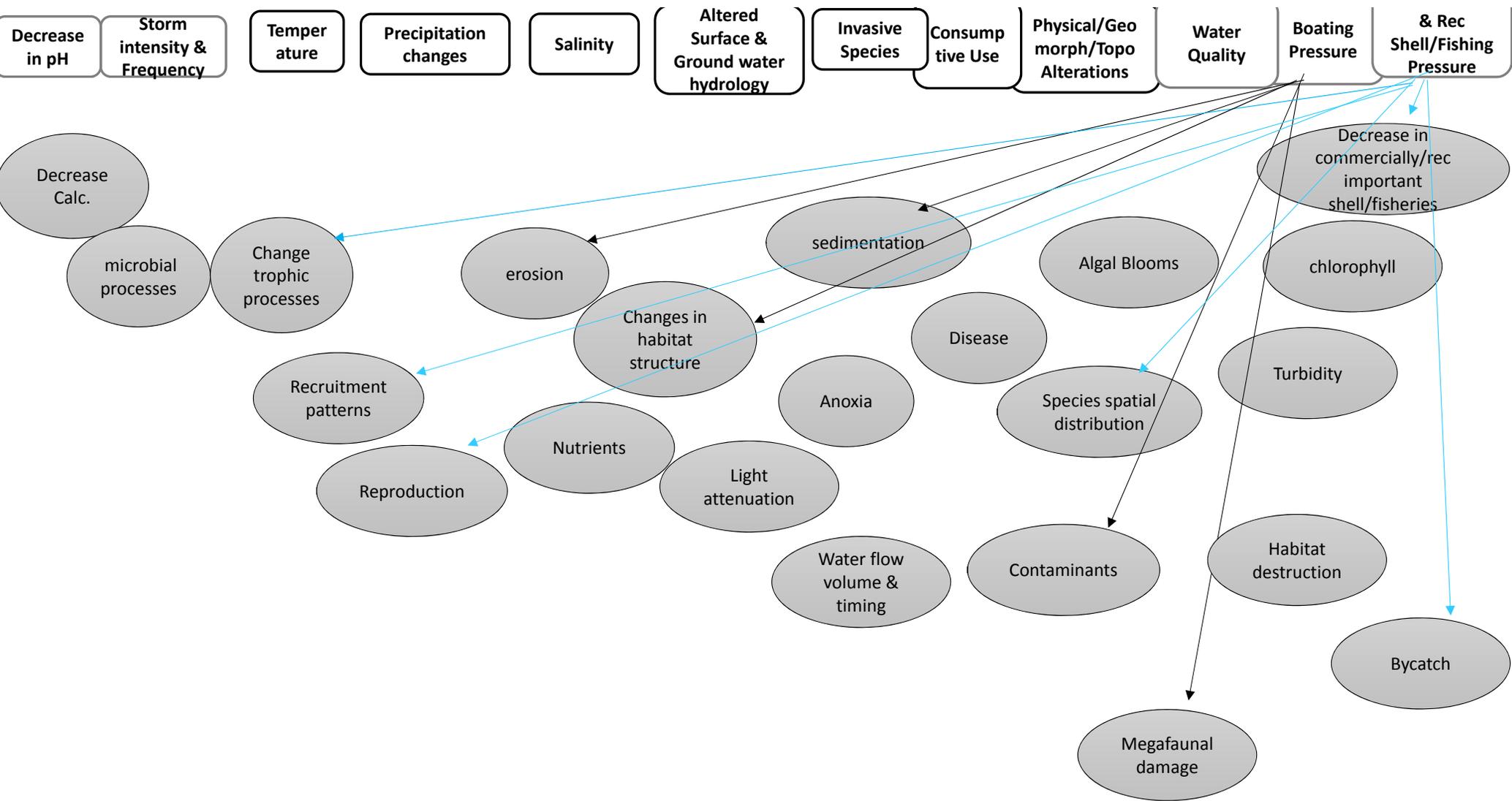
Decrease in commercially/rec important shell/fisheries











Attributes

- Fish community
- Submerged aquatic vegetation
- Oysters
- Other shellfish
- Marine/ aquatic megafauna
- Nearshore Reef/hard bottom
- Benthic community
- Shoreline habitat (Mangroves, marsh, tidal mudflats)
- Bird Community
- Planktonic communities
- Herps.