Keywords description

Spatial information (The location of study sites indicates where the studied organisms were collected or the location of the natural communities investigated)

Latitudinal location
- **Polar** (above 66° 33' 39" N, below 66° 33' 39" S)
- **Temperate** (above 23° 26' 22" N, below 23° 26' 22" S)
- **Tropical** (below 23° 26' 22" N, above 23° 26' 22"

Geographical location
- **North Atlantic**
- **South Atlantic**
- **North Pacific**
- **South Pacific**
- **Arctic**
- **Antarctic**
- **Indian Ocean**
- **Mediterranean Sea**
- **Baltic Sea**
- **Red Sea**
- **Not applicable** (geographical region not clearly indicated or organism(s) considered no longer representative of the study area, e.g. strains of phytoplankton cultured for many generations in the lab, or organisms collected in one region and transferred to another geographical region for the experiments)

Living compartment
- **Benthos**
- **Pelagos**

Marine habitat
- **Brackish waters** (partially enclosed coastal body of brackish water with one or more rivers or streams flowing into it, and with a free connection to the open sea)
- **Coast and continental shelf** (all habitats other than estuaries with depth below 200 m)
- **Open ocean** (the whole ocean below 200 m)
- **Deep-sea** (restrict to benthic organisms living on the deep seafloor)
- **Laboratory strains** (experiments using organisms which have been cultured for a long time in the laboratory)

OA natural analog (ONLY for field experiment and field observation)
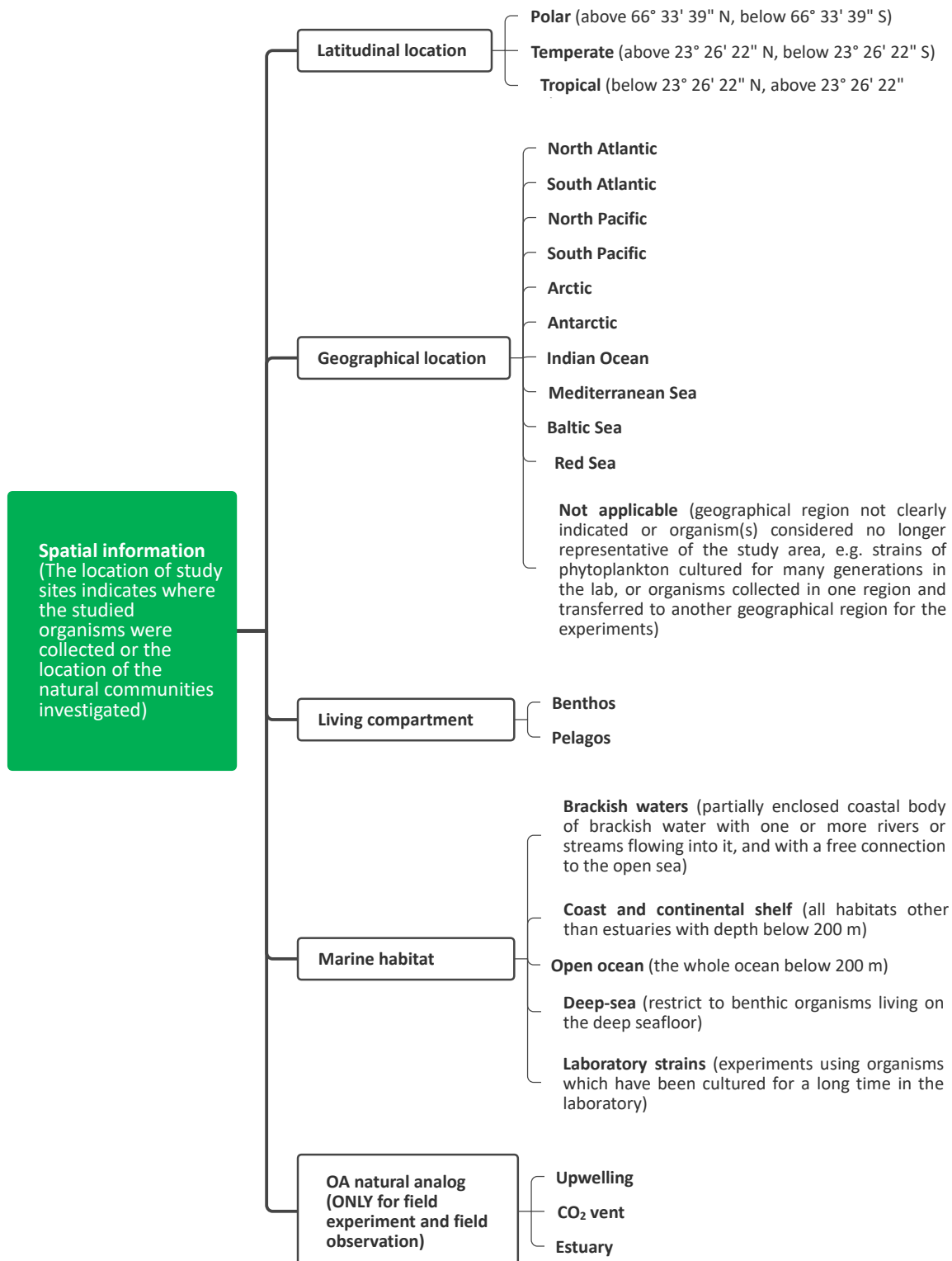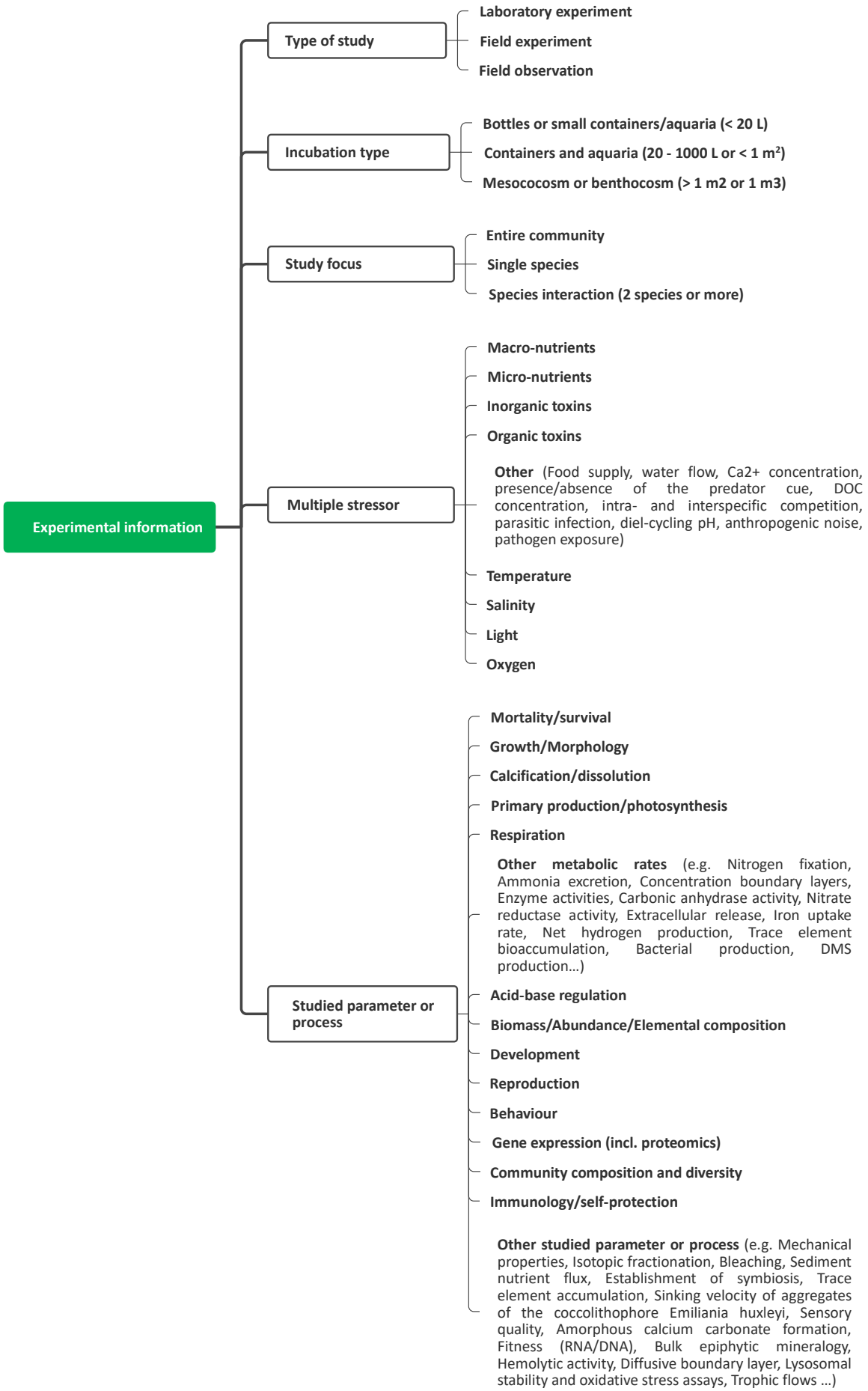- **Upwelling**
- **CO$_2$ vent**
- **Estuary**

Experimental information

Type of study
- Laboratory experiment
- Field experiment
- Field observation

Incubation type
- Bottles or small containers/aquaria (< 20 L)
- Containers and aquaria (20 - 1000 L or < 1 m²)
- Mesococosm or benthocosm (> 1 m2 or 1 m3)

Study focus
- Entire community
- Single species
- Species interaction (2 species or more)

Multiple stressor
- Macro-nutrients
- Micro-nutrients
- Inorganic toxins
- Organic toxins
- **Other** (Food supply, water flow, Ca2+ concentration, presence/absence of the predator cue, DOC concentration, intra- and interspecific competition, parasitic infection, diel-cycling pH, anthropogenic noise, pathogen exposure)
- Temperature
- Salinity
- Light
- Oxygen

Studied parameter or process
- Mortality/survival
- Growth/Morphology
- Calcification/dissolution
- Primary production/photosynthesis
- Respiration
- **Other metabolic rates** (e.g. Nitrogen fixation, Ammonia excretion, Concentration boundary layers, Enzyme activities, Carbonic anhydrase activity, Nitrate reductase activity, Extracellular release, Iron uptake rate, Net hydrogen production, Trace element bioaccumulation, Bacterial production, DMS production…)
- Acid-base regulation
- Biomass/Abundance/Elemental composition
- Development
- Reproduction
- Behaviour
- Gene expression (incl. proteomics)
- Community composition and diversity
- Immunology/self-protection
- **Other studied parameter or process** (e.g. Mechanical properties, Isotopic fractionation, Bleaching, Sediment nutrient flux, Establishment of symbiosis, Trace element accumulation, Sinking velocity of aggregates of the coccolithophore Emiliania huxleyi, Sensory quality, Amorphous calcium carbonate formation, Fitness (RNA/DNA), Bulk epiphytic mineralogy, Hemolytic activity, Diffusive boundary layer, Lysosomal stability and oxidative stress assays, Trophic flows …)

Biological information

- **Type of community (only apply to benthic communities)**
  - Soft-bottom community
  - Rocky-shore community

- **Targeted group (does not apply to communities)**
  - Heterotrophic prokaryotes
  - Nekton
  - Phytoplankton
  - Zooplankton (also include the larva of coral/mollusks/echinoderms/crustaceans)
  - Microphytobenthos
  - Macroalgae
  - Seagrass
  - Benthic animals

- **Targeted kingdom (does not apply to communities, based on WoRMS (http://www.marinespecies.org))**
  - Virus
  - Archaea
  - Bacteria
  - Chromista
  - Protozoa
  - Fungi
  - Plantae
  - Animalia

- **Targeted phylum (does not apply to communities, based on WoRMS (http://www.marinespecies.org))**
  - Chordata
  - Echinodermata
  - Arthropoda
  - Annelida
  - Mollusca
  - Nematoda
  - Platyhelminthes
  - Cnidaria
  - Ctenophora
  - Porifera
  - Chlorophyta
  - Rhodophyta
  - Phaeophyta
  - Ochrophyta
  - Haptophyta
  - Tracheophyta
  - Cyanobacteria
  - Myzozoa
  - Bryozoa
  - Charophyta
  - Foraminifera
  - Brachiopoda
  - Xenacoelomorpha
  - Proteobacteria