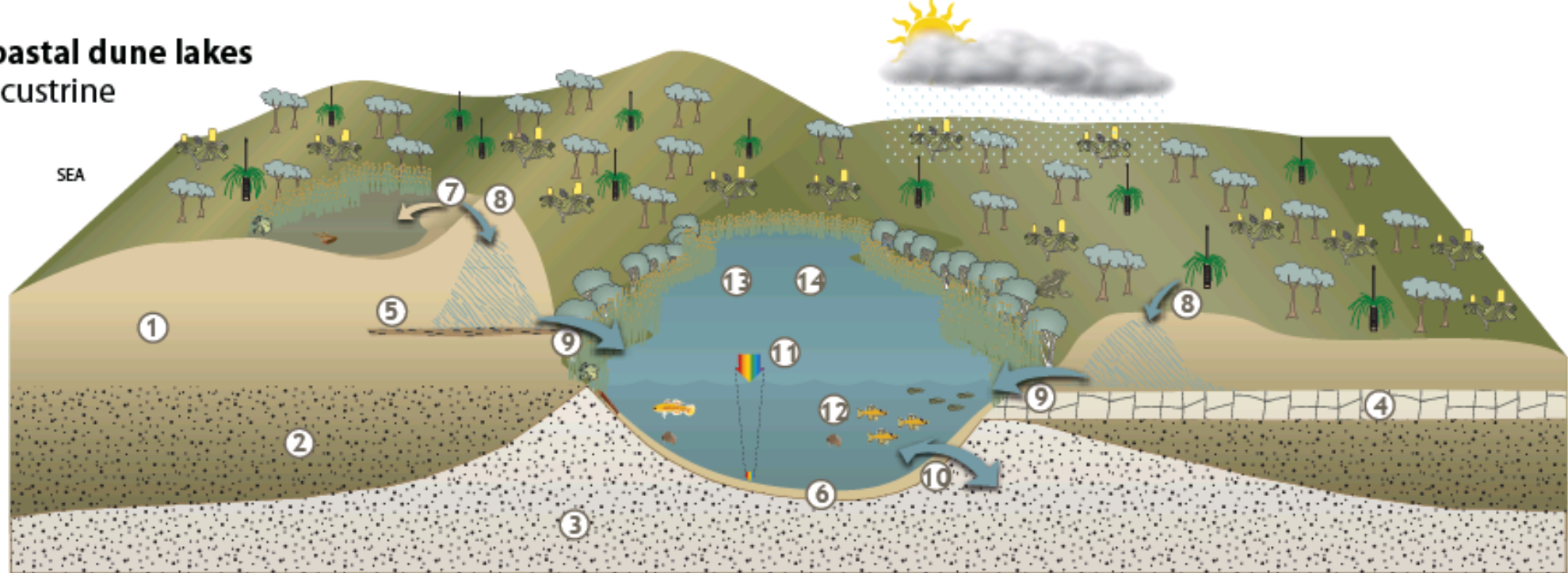


Coastal dune lakes

Lacustrine



The lake is mostly driven by local groundwater and generally shallow
 The larger systems are often saline, while the smaller systems are freshwater
 The major threats to the systems are rising salinity, vegetation clearance, grazing and groundwater extraction
 Very little submerged vegetation
 The banks are shaded with dense Melaleuca
 Location: Seagull Lake, Lake Noolan, SE Lake Bonney

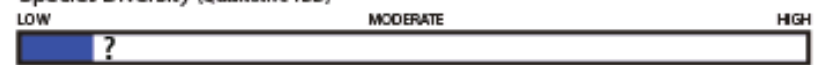
Features

- ① Sediments
- ② Unsaturated porous media
- ③ Aquifer: Saturated porous media
- ④ Limestone
- ⑤ Clay lense prevents the water to permeate through to recharge the aquifer, creates a local water table, and discharges into the lake
- ⑥ Silica sand substrate

Processes

- ⑦ Sand dunes may fall into the lakes, primarily into lakes within actively moving dune systems
- ⑧ Rain water seeps down through the sand
- ⑨ The clay lense or limestone layer create a local watertable and discharges into the lake
- ⑩ Groundwater-surface water interaction
- ⑪ Waters are very clear and therefore light transmission is very high
- ⑫ Low species richness and abundance but home to rare taxa
- ⑬ pH is quite low (5-6) and biota are adapted to the acidic environment
- ⑭ Conductivity and nutrient levels are very low

Species Diversity (Qualitative TBD)



Species Endemism (Qualitative TBD)



Salinity Threshold

