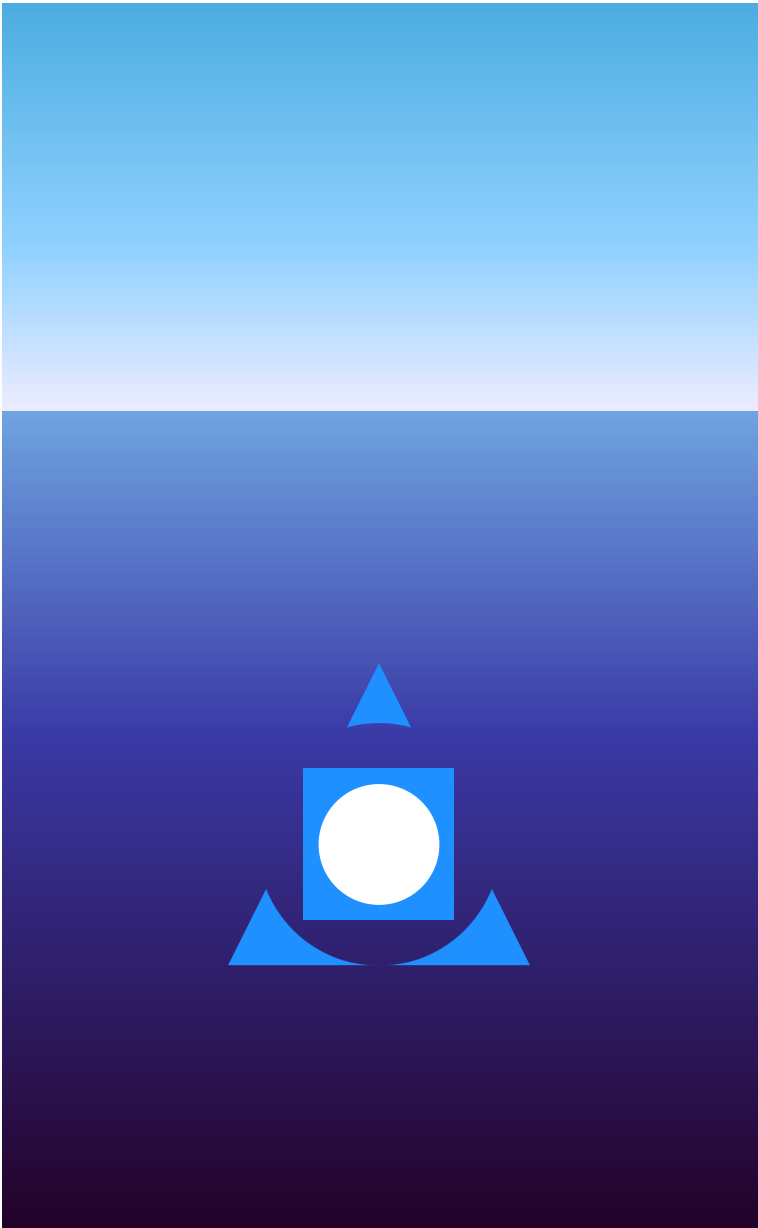


CLIMATOPIA

cover inside placeholder

# SECTION 1: CLIMATOPIA





# SECTION 2:

# ATLANTIS

**When coastal cities, islands and entire nations slowly go under in the rising sea, how will human life there change and continue?**

Global warming is causing sea levels to rise due to three primary factors<sup>[1]</sup>:

- **Thermal expansion:**  
As the temperature of seawater increases, it expands.
- **Melting glaciers:**  
The balance between summer runoff and winter snowfall is being disrupted, as glaciers melt at a faster rate than they are replenished.
- **Melting ice shields:**  
The vast ice shields in Greenland and Antarctica are melting, adding large volumes of water to the ocean.

This trend of rising sea levels is not only increasing yearly but accelerating.

The consequences of this trend are severe and far-reaching. Islands across the globe are gradually disappearing underwater. Additionally, thousands of coastal cities face the imminent threat of being submerged. This situation calls for urgent action and adaptation strategies.

Section introduction

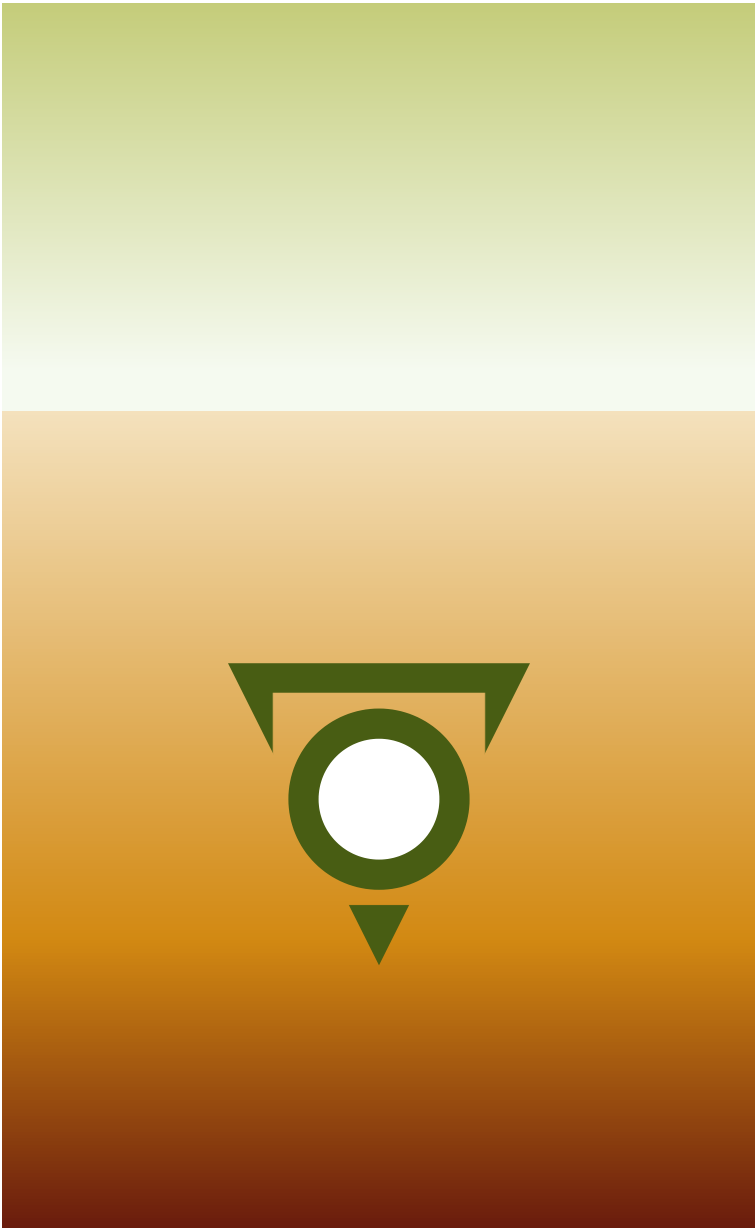
1. SROCC. 2019 IPCC Special Report on the Ocean and Cryosphere in a Changing Climate (eds H-O Pörtner et al.). In press.



## **Defensive architecture and seabed destruction**

Defensive architecture and seabed destruction









# SECTION 3:

# CACTUS

## When potable water slowly becomes a rare resource in many regions, how will human life there change and continue?

Due to climate change the availability of potable water is increasingly threatened in many regions by various factors:<sup>[2]</sup>

- **Droughts:**  
The frequency and intensity of dry periods and droughts are increasing globally
- **Floods and water-caused damages:**  
Increasingly frequent floods cause damage to infrastructures and ecosystems, consequentially affecting water safety
- **Glaciers and snowmelt:**  
The accelerated melting of glaciers and decreased snowfall are threatening water security in regions that depend on meltwater.

This trend of extreme weather conditions of all types is accelerating.

The consequences of this trend are severe and far-reaching. Not only are already disadvantaged groups and populations especially affected by these developments, but no demographic or geographic group including the richest and most developed regions are spared from the threat of water scarcity. This situation calls for urgent action and adaptation strategies.

Section introduction

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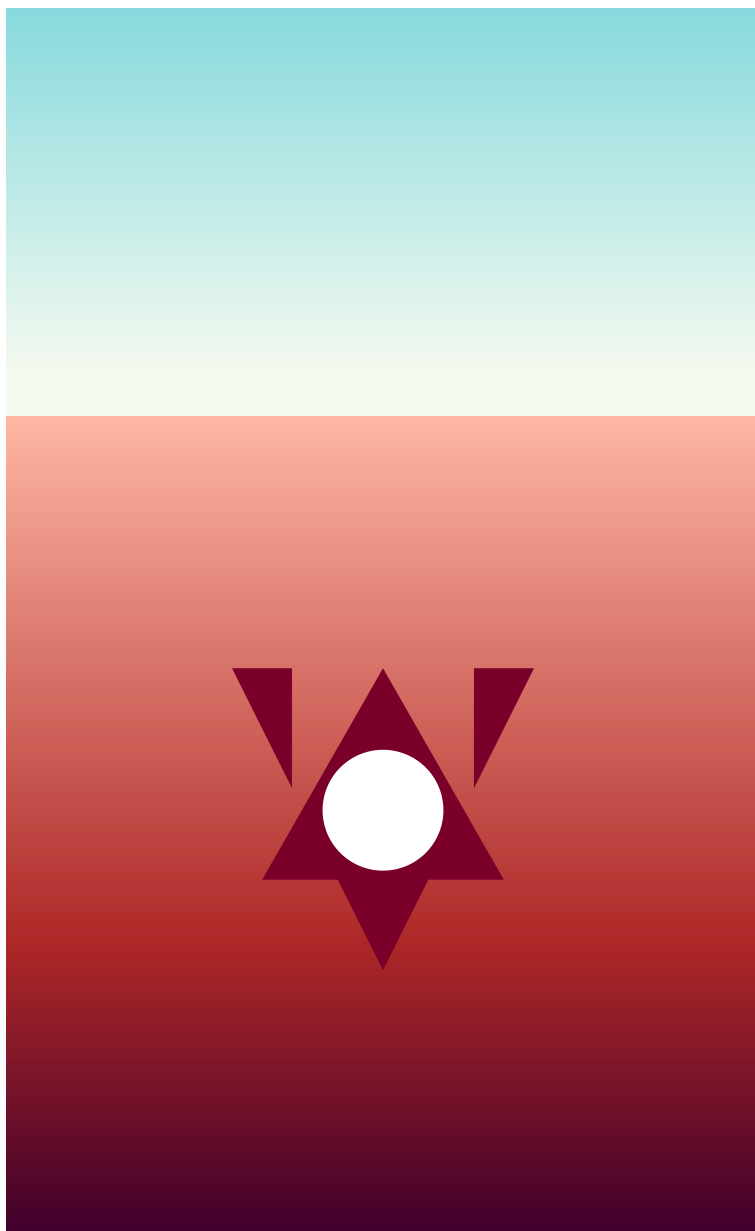
<sup>2</sup>. Water. 2022. Climate Change: Impacts, Adaptation and Vulnerability. Contribution of Working Group II to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change (eds Caretta, M.A. et al.).



Cactus - growing water scarcity

Section introduction







# SECTION 4:

# PHOENIX

**When cities, seas and air slowly heat up to unprecedented levels in most areas, how will human life there change and continue?**

Sea-levels are rising as a result of three factors all caused by global warming<sup>[3]</sup>:

- **Thermal expansion:** seawater expands due to increasing temperatures
- **Melting glaciers:** summer runoff isn't balanced by winter snowfall anymore
- **Melting ice shields:** the ice shields in Greenland and Antarctica are melting

This trend is increasing, with the yearly rise in sea-level accelerating.

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<sup>3</sup>. SROCC. 2019 IPCC Special Report on the Ocean and Cryosphere in a Changing Climate (eds H-O Pörtner et al.). In press.



## Phoenix - increasing temperatures

Section introduction



this is the back-cover