

85 scientists from 20 countries of the Network of Mediterranean Experts on Climate and Environmental Change (MedECC) present:

1st

SCIENTIFIC ASSESSMENT REPORT ABOUT CLIMATE AND ENVIRONMENTAL CHANGE IN THE MEDITERRANEAN

FOOD SECURITY

Food demand is set to increase as yields of crops, fish and livestock decline

90% of commercial fish stocks are already overfished, with the average maximum body weight of fish expected to shrink by up to **half by 2050**

WATER RESOURCES

Within 20 years, **250+ million people** will be classified as **'water-poor'**

Fresh water availability is to **decrease by up to 15%** among the largest decreases in the world

SEA LEVEL

Sea level rises may exceed 1 metre by 2100, impacting **1/3 OF THE REGION'S** population

Half of the 20 global cities set to suffer most from **sea level rises by 2050** are in the Mediterranean

ECOSYSTEMS

The Mediterranean basin is **ONE OF THE MOST PROMINENT hotspots of climate and environmental change**

700+ non-indigenous animal species recorded due to warmer conditions

Increasing water acidification causes **mass deaths of marine species**

Mega fires have destroyed record areas of forest due to climate change

The Mediterranean REGION IS WARMING **20% faster** than the global average

Regional temperature increase of

→ **2.2°C**

by 2040 with current policies

→ Paris Agreement's target of 1.5°C

HEALTH AND SECURITY

Increase in **frequency, intensity and duration** of **HEAT WAVES** imply significant **health risks** for vulnerable populations, especially in cities

Increasing frequency in droughts since the 1950s has played a **significant role in the current regional crisis**

Conflicts concerning limited natural resources **may increase** large-scale human migrations

