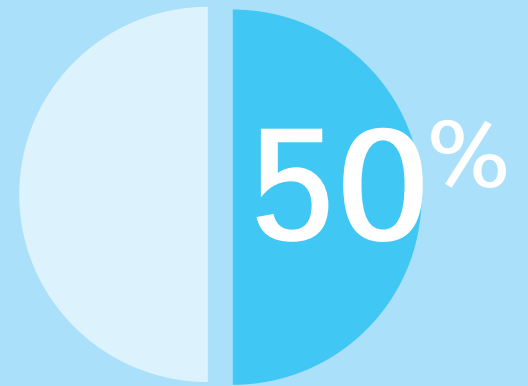


Did you know that the **entire ocean covers 70 percent** of the surface of our planet, and the **deep sea 50 percent**? The area of the Pacific Ocean alone is larger than the entire land area of the Earth.







03: M

Did you know that high-resolution multibeam echo sounder data are only available for just under **20 percent of the entire seafloor?**

Echo sounders are the only method to map the large areas of the seafloor directly.



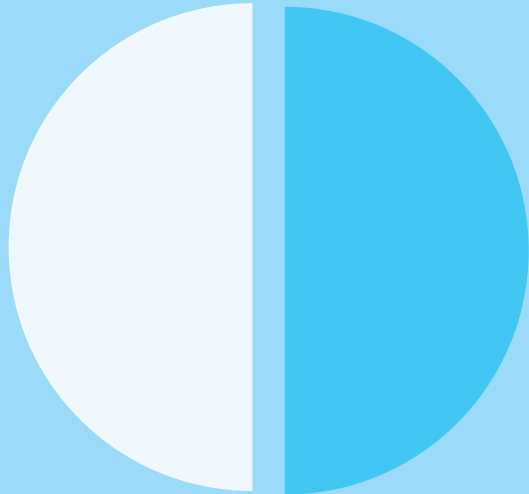


05: 0

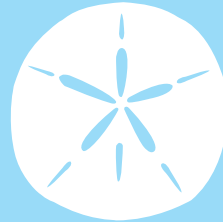


F

Did you know that **half of the oxygen current generated by photosynthesis** is produced in the ocean? The phytoplankton, i.e. microscopic plants, are essentially responsible for this process.



0





Did you know that the ocean is delaying the effects of climate change by absorbing more than **90 percent of the extra**



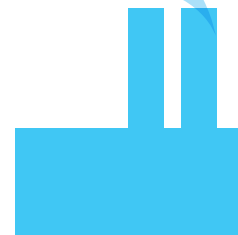


07: C

S

Did you know that the ocean has absorbed about  
**30 percent of the carbon dioxide**

CO<sub>2</sub>





08. A

CO<sub>2</sub>

Did you know that the **pH value in the ocean has decreased from 8.2 to 8.1** due to the previous uptake of CO<sub>2</sub>? This seems to be a small difference but it already corresponds to an **increase in acidity of 30 percent**.

A

1820



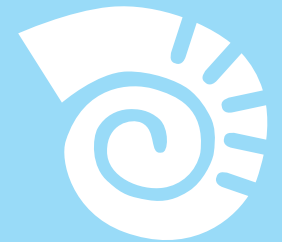
+30%

2020

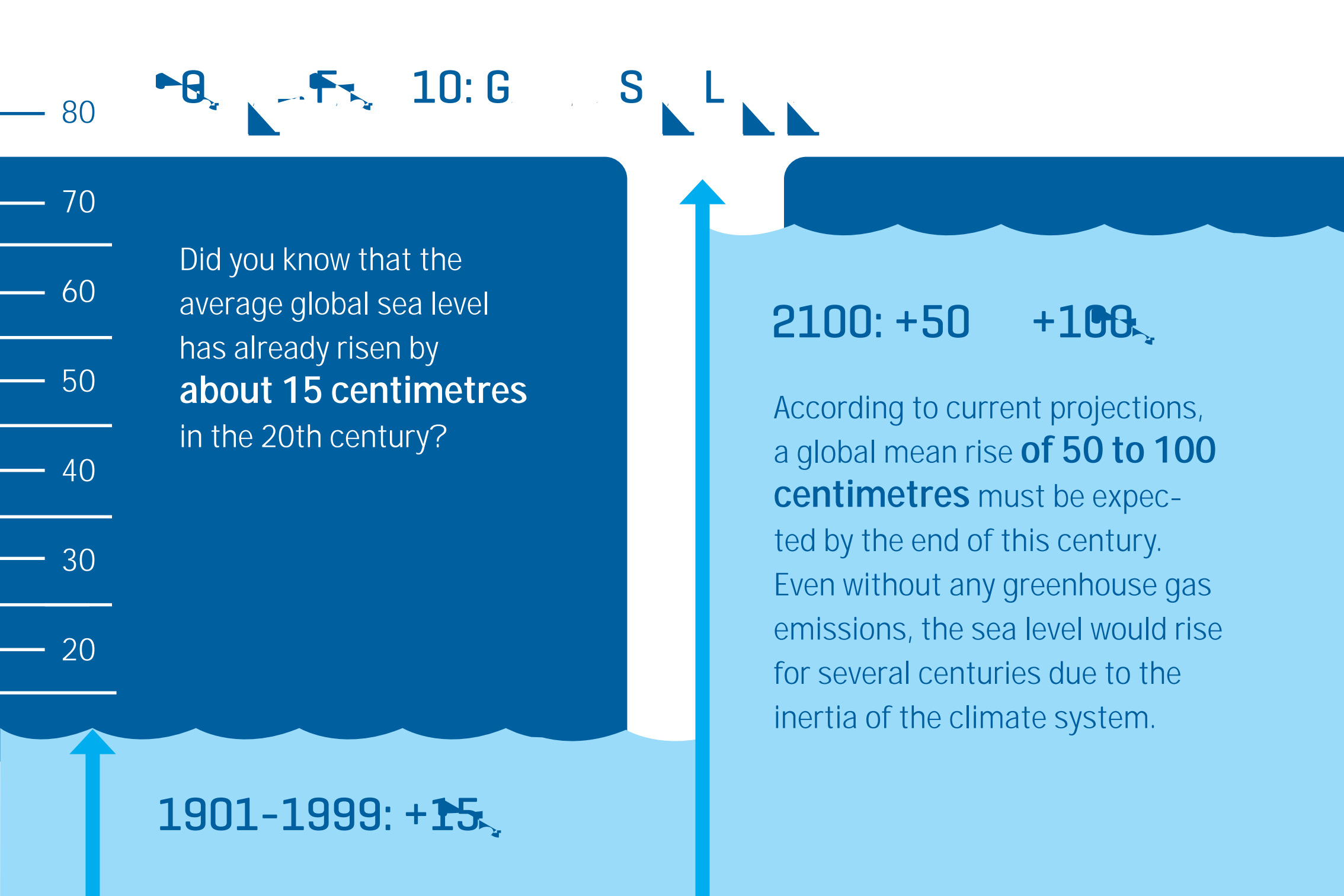
+150?%

2100

By the end of the century, the pH value could probably drop by another 0.3 to 0.4 units, making seawater **100 to 150 percent more acidic**. This would become in particular an increasing problem for calcifying organisms, even leading to the disappearance of entire species.







80

70

60

50

40

30

20

Did you know that the average global sea level has already risen by **about 15 centimetres** in the 20th century?

1901-1999: +15

2100: +50 +100

According to current projections, a global mean rise of **50 to 100 centimetres** must be expected by the end of this century. Even without any greenhouse gas emissions, the sea level would rise for several centuries due to the inertia of the climate system.