Why is sea-level rise important?

Sea-levels are rising because of climate change



Thermal expansion

Warmer water expands, therefore global warming is causing the water in our oceans to expand



Melting ice

Global warming is melting our glaciers and the Greenland and Antarctic land-based ice sheets



_ _b _

Higher sea levels

The amount of sea-level rise depends on the amount of climate change

Sea levels are now 19 cm higher

than they were at the beginning of the 20th century

and

will continue to rise over the next centuries

half a metre or more by the end of the century; around 6 m if the Greenland ice sheet melts completely



however

if we limit our emissions,

sea-level rise could be reduced

but not for many decades, even centuries because oceans respond very slowly to change Sea-level rise creates risks for our coasts

Higher water levels











Threats

to land, roads, railways, hospitals, schools, houses

A rough rule of thumb

Approximately a 1 cm rise in sea level on a gently sloping beach...

...will bring the water 1 m further landward

1 1 cm

Sea level rise is a key consideration for future planning for our coasts. Further information and planning tools are available at www.coastadapt.com.au



