



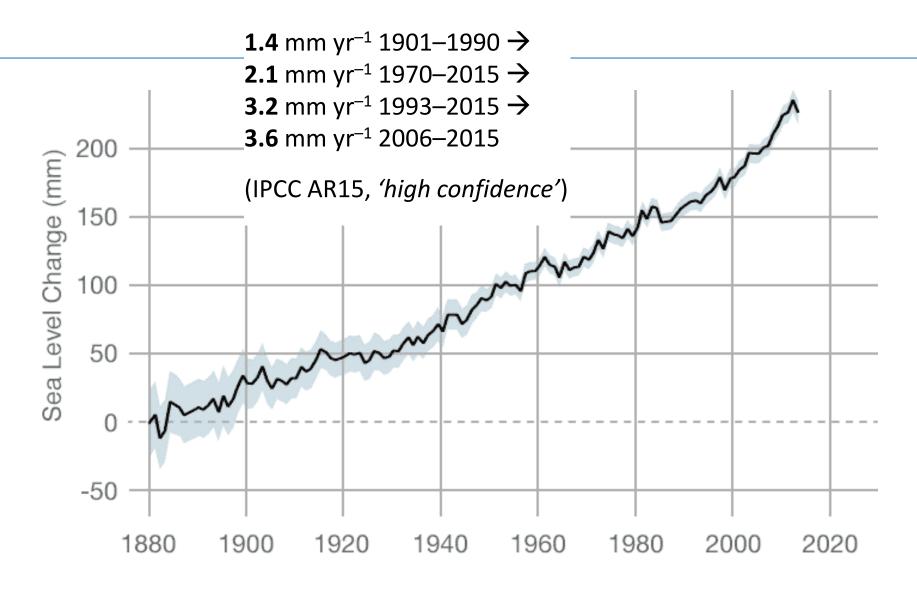
Green and Sustainable Coasts

Managing 'life on the edge' at a time of extreme environmental change

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Global Mean Sea Level



Human Drivers of Change

Economic priorities, short planning horizons, and a 'control' mindset?

"...more intense and frequent
Extreme Sea Level events, together
with trends in coastal development
will increase expected annual flood
damages by 2–3 orders of
magnitude by 2100 (high
confidence)."*

→ Increased exposure and vulnerability to Sea Level Rise and Extreme Events (very high confidence*)



Marine Drive, Scarborough (c.1928)

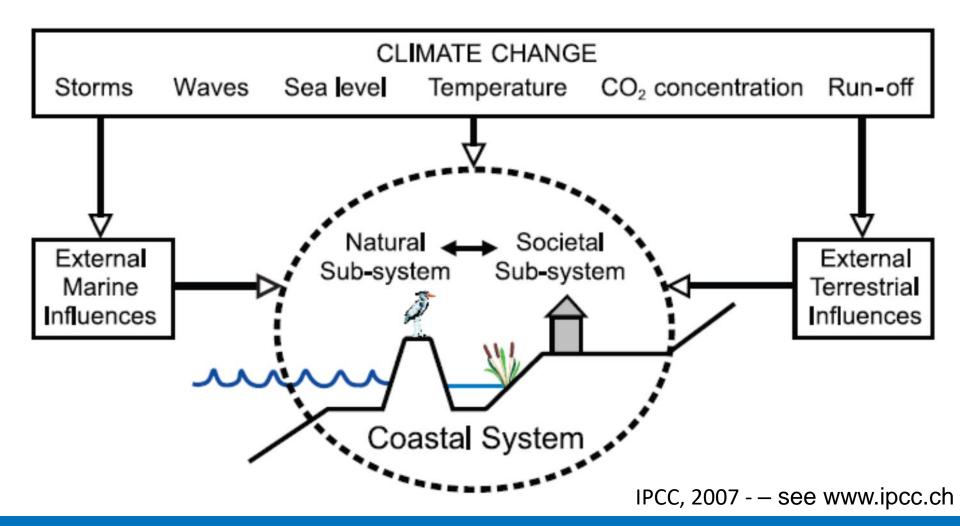
Edificio Costa del Sol, Pingueral, 2020 (by <u>alvaroarriagada.com</u>, licensed under CC)



^{*}Oppenheimer et al. 2019: Sea Level Rise and Implications for Low-Lying Islands, Coasts and Communities. In: IPCC SROCC.

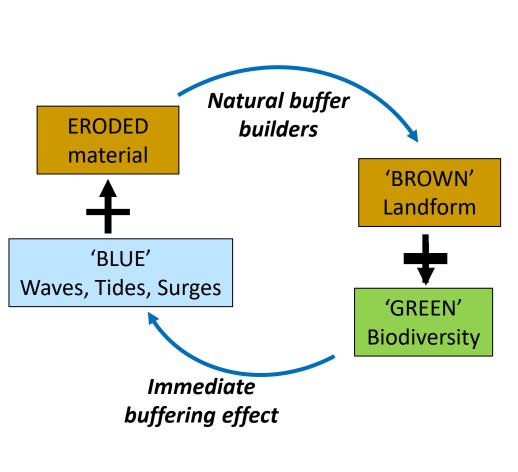
Climate Change and the Coastal Sub-System

Dynamism and Complexity



Turning Threat into Opportunity

Biodiversity and Landforms: Interconnected and Dependent on Dynamism





Coastal Change in Action:

Benacre Ness migrating out of conservation site boundaries

1992-2016

