

# Workshop rising sea levels

Kring 2018, Ystad Sweden

# Questions:

1. Which projections/scenarios are you using in your country/organization for global mean sea level rise by 2100?
2. What is the highest projection/scenario for global mean sea level rise by year 2100 you are using?
3. Which time perspectives are you considering?

Country/organization	Projection/scenario	Sea level rise 2100	Time perspective
Germany (Schleswig-Holstein)	IPCC AR 5	High-end scenario + <b>1.5 m</b> from 2000 until 2100	2050 and 2100
Portugal (EA)	IPCC AR5 with safety factor	+ <b>1.5 m</b> from 2000 until 2100	2050 and 2100
Denmark (Coastal authority)	All, especially lowest and highest	+ <b>1.2 m</b> from 2000 until 2100	Technical lifetime
Netherlands (Deltares/RWS)	KNMI 14' based on IPCC AR5 (In 2021, new KNMI scenarios, new Deltares report)	+ <b>1 m</b> from 2000 until 2100 (high uncertainty; +2°C, + <b>0.3 – 1.9 m</b> in 2100; + 4°C <b>0.7-3.2 m</b> in 2100; until 2050 no significant effects)	2030, 2050 and 2100
Netherlands (HHNK)	KNMI 06	+ <b>0.85 m</b> for maintenance zones, + <b>0.6 m</b> construction works	Managment zones 50 – 200 years; construction lifetime about 25 – 100 years
Netherlands (Tauw)	KNMI 06 W+	Compared to 2017: <b>0 m</b> until 2023; <b>0.25 m</b> until 2050; <b>0.75 m</b> until 2100	Lifetime, most projects 2075 - 2100
Belgium	Projections are derived from KNMI & Deltares report	Vision: Protection scenario for 2100 is + <b>3 m</b> worst case, + <b>2 m</b> moderate case. Masterplan: + <b>0.3 m</b> till 2050 and + <b>0.8 m</b> till 2100	Masterplan Coastal Safety (works in progress) 2050 Complex project kustvisie (long term vision) 2100
Sweden (Ystad)	IPCC AR5	+ <b>1 m</b> from 1990 until 2100	2025, 2050, and 2100
England (EA)	UKCP09 based on IPCC AR 4, later this year UKCP18 based on IPCC AR 5	High sea level rise scenario H++, + <b>0.9-1.9 m</b> by 2100.	Guidance until 2100, new research about projections until 2300

# Discussion

- Formulate design conditions and strategies for flood protection of a city with 20,000 inhabitants with respect to sea level rise. The time perspective is 150 years.