

Map 3
Flood risk management
and freshwater tasking



Tasking

Flood risk management

- repair flood defence system, major tasking
- repair flood defence system
- flood defence system management
- preserve sandy coastal system
- ⬆ storm surge barrier maintenance tasking
- ↗ maintain water discharge into Wadden Sea
- limit the consequences of flooding: ensure climate-proof or water-robust design

Freshwater

freshwater issues

- no freshwater supply and falling groundwater levels
- limited freshwater supply and falling groundwater levels
- salinisation of intake points
- excessive demand on IJsselmeer lake water buffer
- river water levels too low (summer)
- salinisation and no freshwater supply

Climate-proof city

- limit the consequences of drought, heat and heavy precipitation

Causes

- ⬆ 0.35-0.85 m rise in sea level
- ⬇ soil subsidence
- ↗ salt wedge
- coastal sedimentation and erosion
- ⬆ river sedimentation and erosion
- ↗ HT = increased peak river discharge
Rhine: 16,000 → 18,000 m³/s
Meuse: 3,800 → 4,600 m³/s
- ↗ LT = decreased low river discharge
Rhine: 1,000 → 600 m³/s
Meuse: 20 → 10 m³/s
- longer periods of heat/drought, increased and more extreme precipitation

Basic map

- freshwater
- saltwater / brackish water
- area outside the dykes
- dunes
- border