Extreme weather in project
The West Link

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Project
“The West Link”

- 8 km (5 miles) new railway
- 6 km (4 miles) in tunnel
- Three new stations
- Construction 2017/2018
- Traffic 2026
Illustrationsexempel på uppgång till Station Haq. Illustration: Abako Arkitektkontor
Havets nivå 2013-01-21

Inverse barometer applied, GIA corrected

Rate = 3.2 ± 0.4 mm/yr
Seasonal signals removed

University of Colorado 2013_re1

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Sea water levels in Stockholm in years 1774-2012

Annual average water level [cm]
Water level

Water level [cm]

Global water level

Uplift

Nettoändring

Göteborg
Levels at station Haga

- High scenario
- Uncertainty
- Todays extreme events
- Future rise in sea level

Protection level

Water level for train service

Construction 2018-2028

Prepared higher level

Future rise in sea level
Flooded areas
Rain event 150 mm på 2 timmar in centre of Gothenburg

Water levels from short rain
Rain event 150 mm på 2 timmar in centre of Gothenburg

Water finds its way
High sea level + rain?

Not at the same time
Risks from high flows in river Mölndalsån and high sea level
Gothenburg is looking forward

Year 2026

Year 2100