

Stear Peninsula

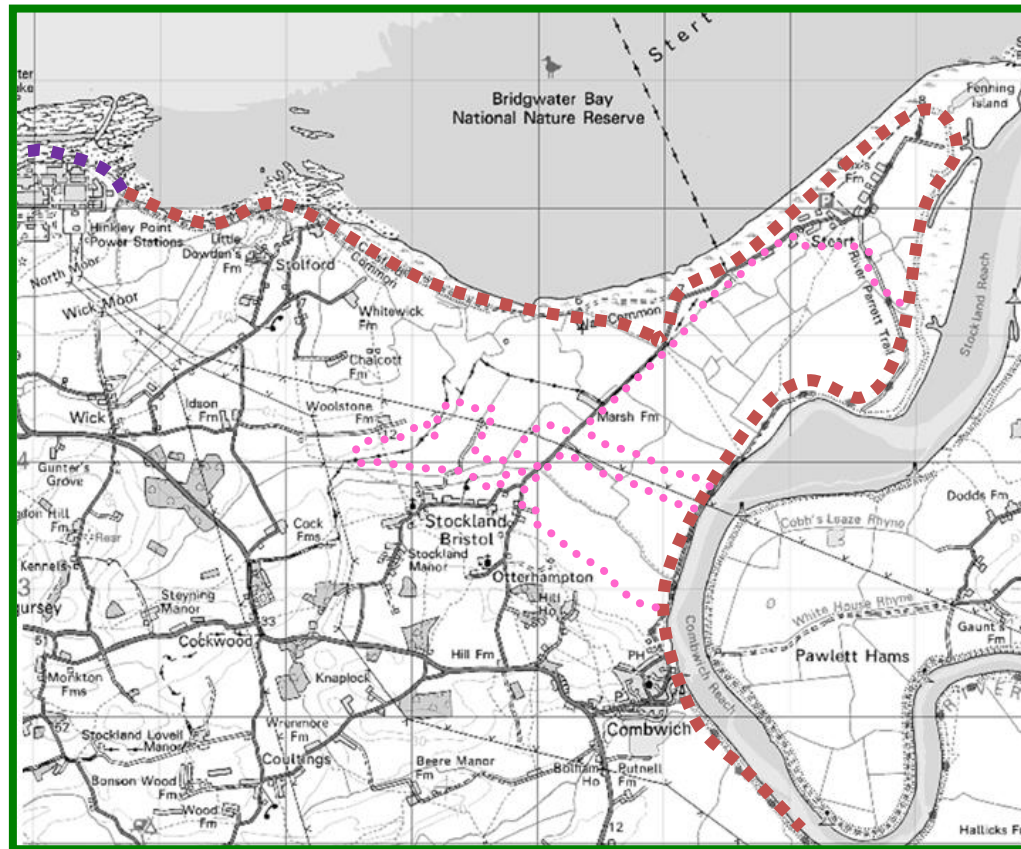
Existing defences and probability of flooding

At Wickmoor the existing probability of flooding is 1 in 200 in any year.

At Stolford the probability of flooding is 1 in 25 in any year, however there are some properties at risk from a 1:10 storm.

The probability of flooding further east on the Peninsula is 1 in 20 in any year. By 2030 the chance of overtopping will increase to around 1 in 5 in any year. By 2110 this could increase to annual flooding.

With continued maintenance, we expect the defences at Steart to be effective in the short term. The risk of significant damage which is beyond our capacity to repair will further increase, and increased overtopping of defences may be noticeable beyond 2030. We are completing the Steart Coastal Change project (2013-14) which will deliver flood defence benefits (new banks shown in pink on the map).



Key

- ■ ■ ■ ■ Existing defences maintained by EA
- ● ● ● ● EA Steart Coastal Change Project
- ■ ■ ■ ■ Other defences

Ongoing local discussions

There is ongoing local discussion with the community and stakeholders as the Steart Coastal Change project develops.

What can be done?

The defences at Stolford and Combwich will be maintained and improved to keep pace with climate change, as funds allow.

We are investigating the feasibility of improving the defences at Stolford.

The defences on the Severn frontage at Steart Village will continue to provide protection, but after 2030 we are unlikely to be able to improve flood protection as risks increase. At that time the options available to the community will be:

- Working in partnership between public authorities, landowners and community to maintain and/or improve the existing defence.
- Landowners taking on responsibility for the maintenance and/or improvements of the defences (subject to the appropriate consents or permissions being obtained).
- Adapting properties, property access and providing routes for floodwater, to become more resilient to flooding.
- Doing nothing and live with an increasing flood risk.

Sea level rise note

The UKCP09 medium emissions scenario projects about 0.1m of sea level rise by 2030, about 0.3m by 2060, and about 0.7m by 2110.

Currently sea level is rising at about 2 to 2.5mm a year. If this rate were to continue, sea level rise would be less than what is projected by the UKCP09 medium emissions scenario.

How these options were reached

The defences on Steart Peninsula cannot be maintained in their current alignment. However, realignment of banks under the Steart Coastal Change project will deliver intertidal and freshwater habitats, whilst improving flood defences for the community at the same time (marked in pink on the map).

We have developed detailed managed alignment proposals through negotiation with the community and landowners.

Other projects planned in the area will benefit the flood defences including the proposal for a new