

Back to the Future – 🤖  
Towards a more natural Selsey Coast 😊  
and  
what this might mean for underwater 🤔

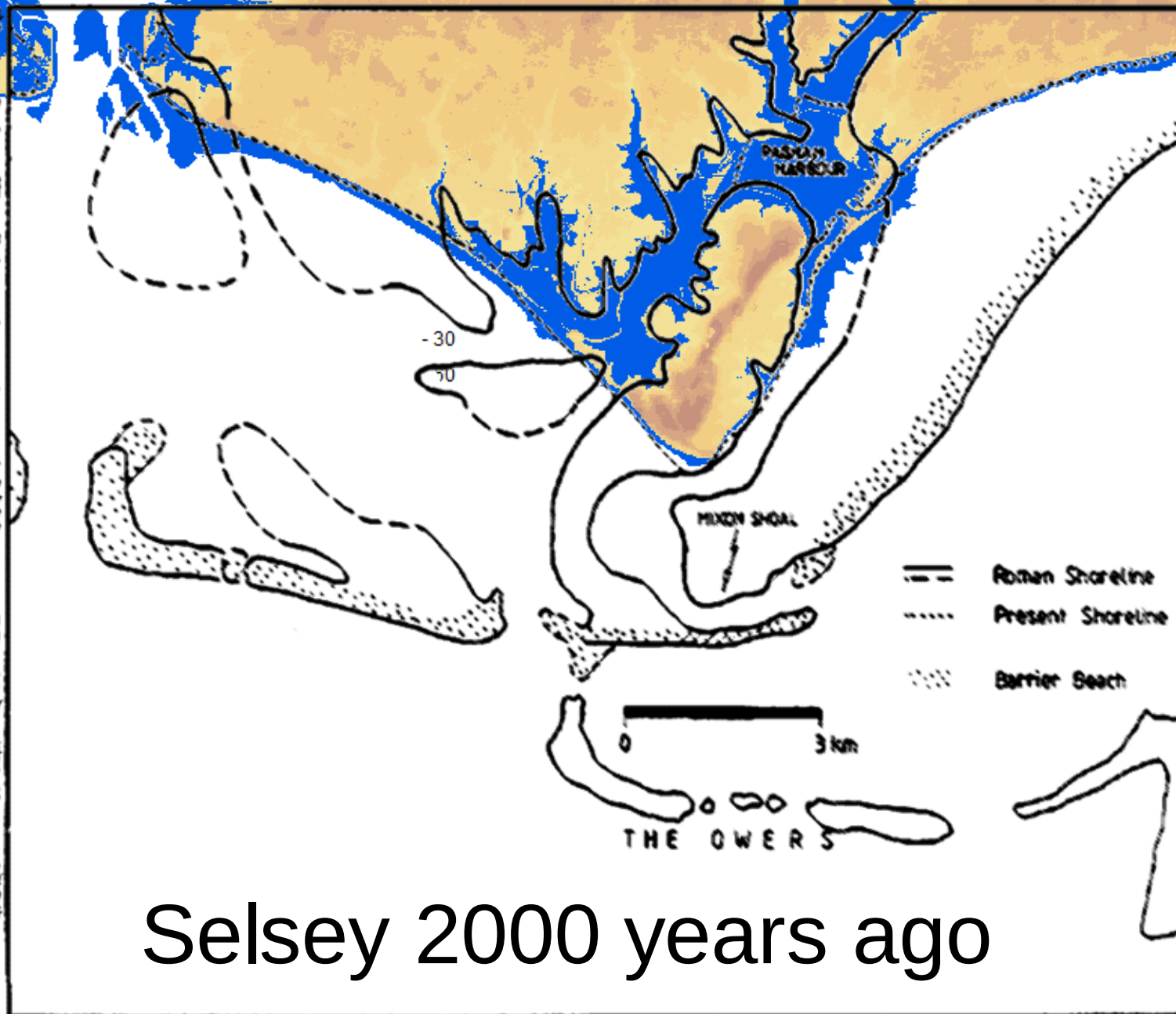


# Summary

1. Historically the coast has changed, releasing sediment into the marine realm
2. Over the last half century or so, the coast has been fossilised with no/very reduced input
3. With climate change, coastal change is inevitable and changes are starting to take place already so sediment is released again.

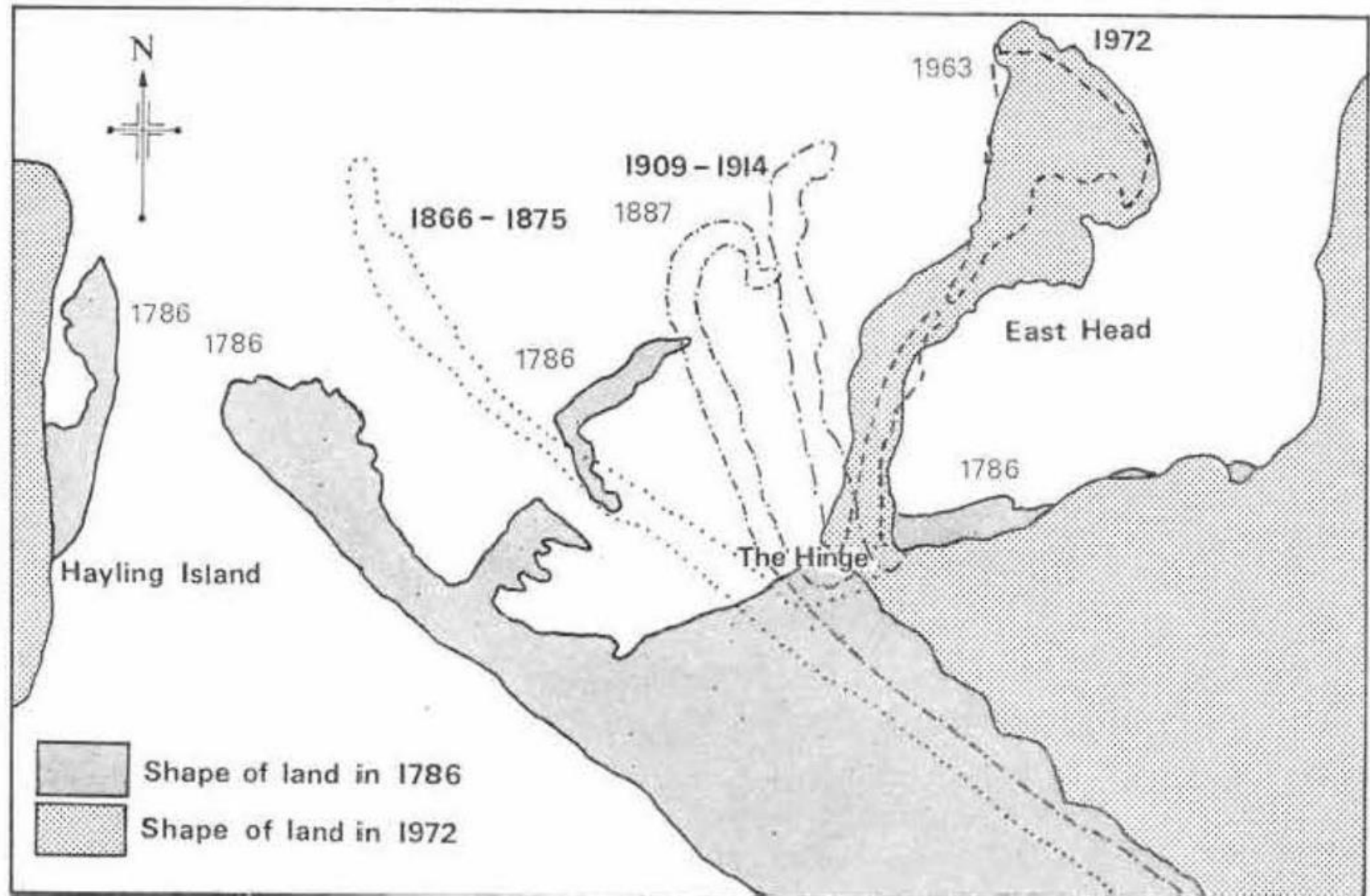


Figure 2.4 The Selsey Area Around 2000 years BP. (After Wallace, 1988)



Selsey 2000 years ago

# Last centuries at East Head



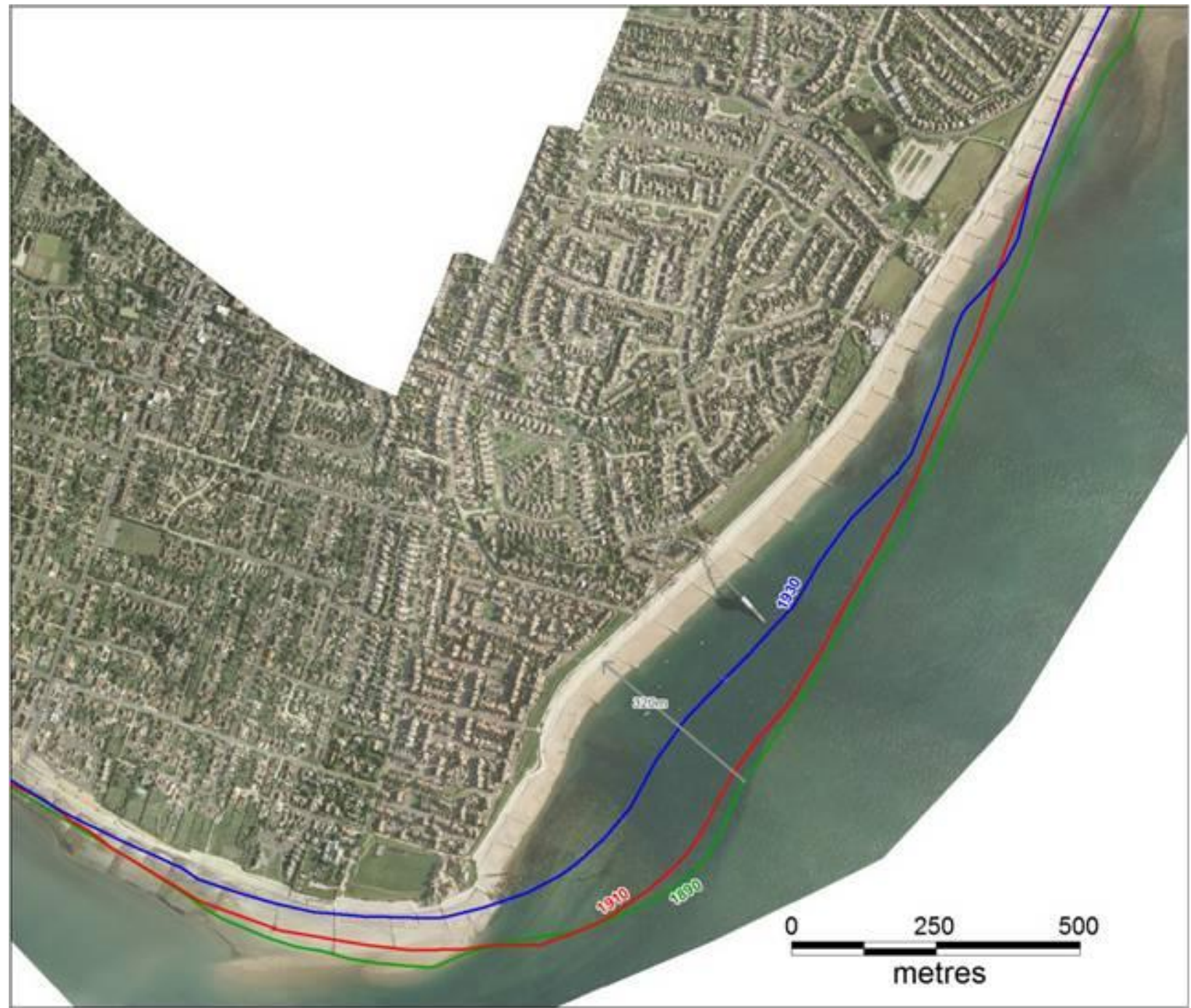
Searle, S.A., 1975. The Tidal Threat - East Head Spit, Chichester Harbour. Chichester.



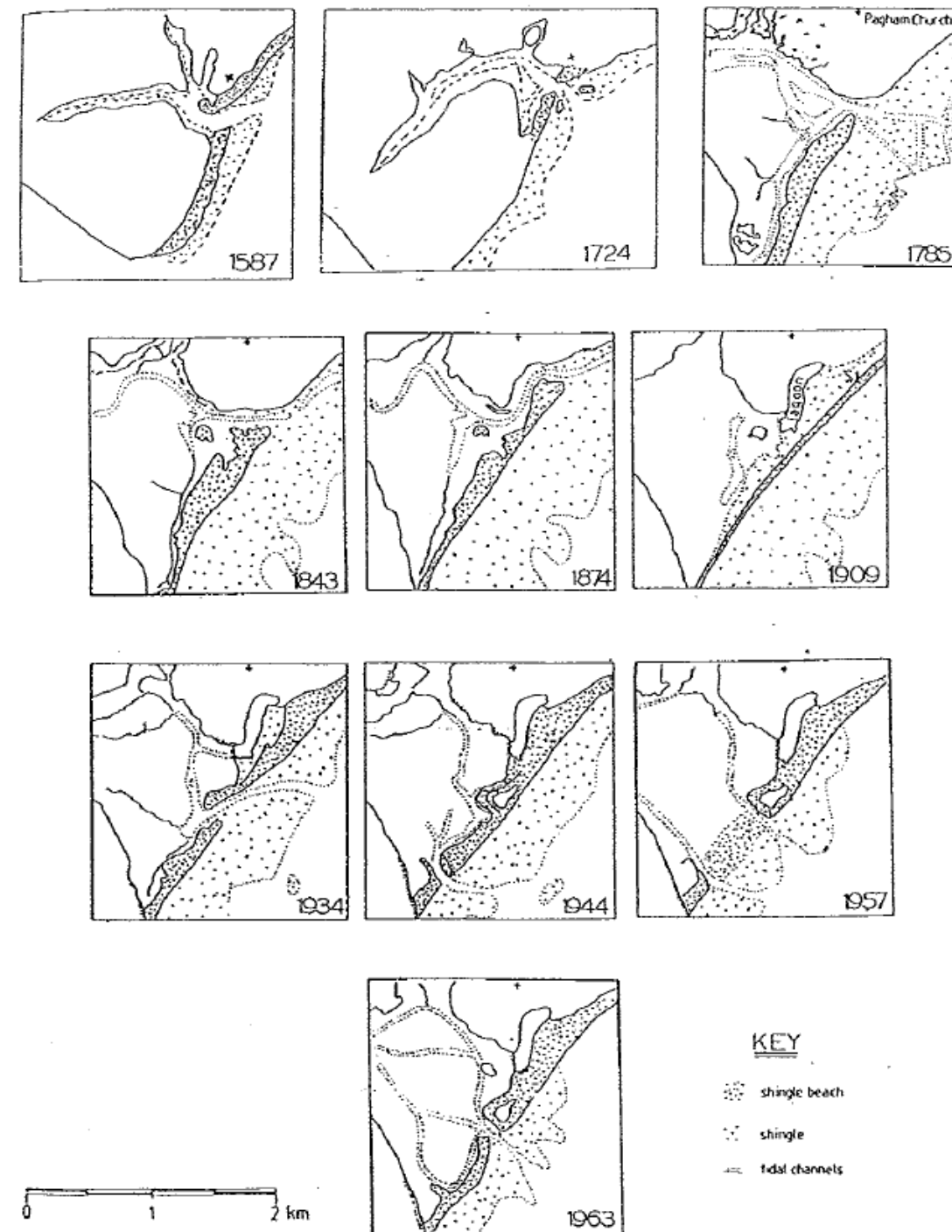




# Last century at Selsey



# Last centuries at Pagham



Barcock, N.W.S., Collins, M.B., 1991. Coastal erosion associated with a tidal inlet: Pagham, West Sussex (No. SUDO/TEC/91/3NC).  
Southampton University Department of Oceanography.

# REPORT

on

## COAST PROTECTION

with special reference

to the

## Coast Protection Act

1949

### Works of First Priority.

#### Work 1. SELSEY - WEST. Medmerry to Marine Hotel.

6300 lineal feet of sea wall £143,000.

Groynes £ 52,000.

#### Work 2. SELSEY - EAST. The Bill House to East Beach Estate.

6400 lineal feet of sea wall £147,000.

Groynes £ 53,000.

£405,000.

#### Work 5. EAST WITTERING.

5900 lineal feet of sea wall £109,000.

Groynes £ 51,000.

#### Work 6. BRACKLESHAM.

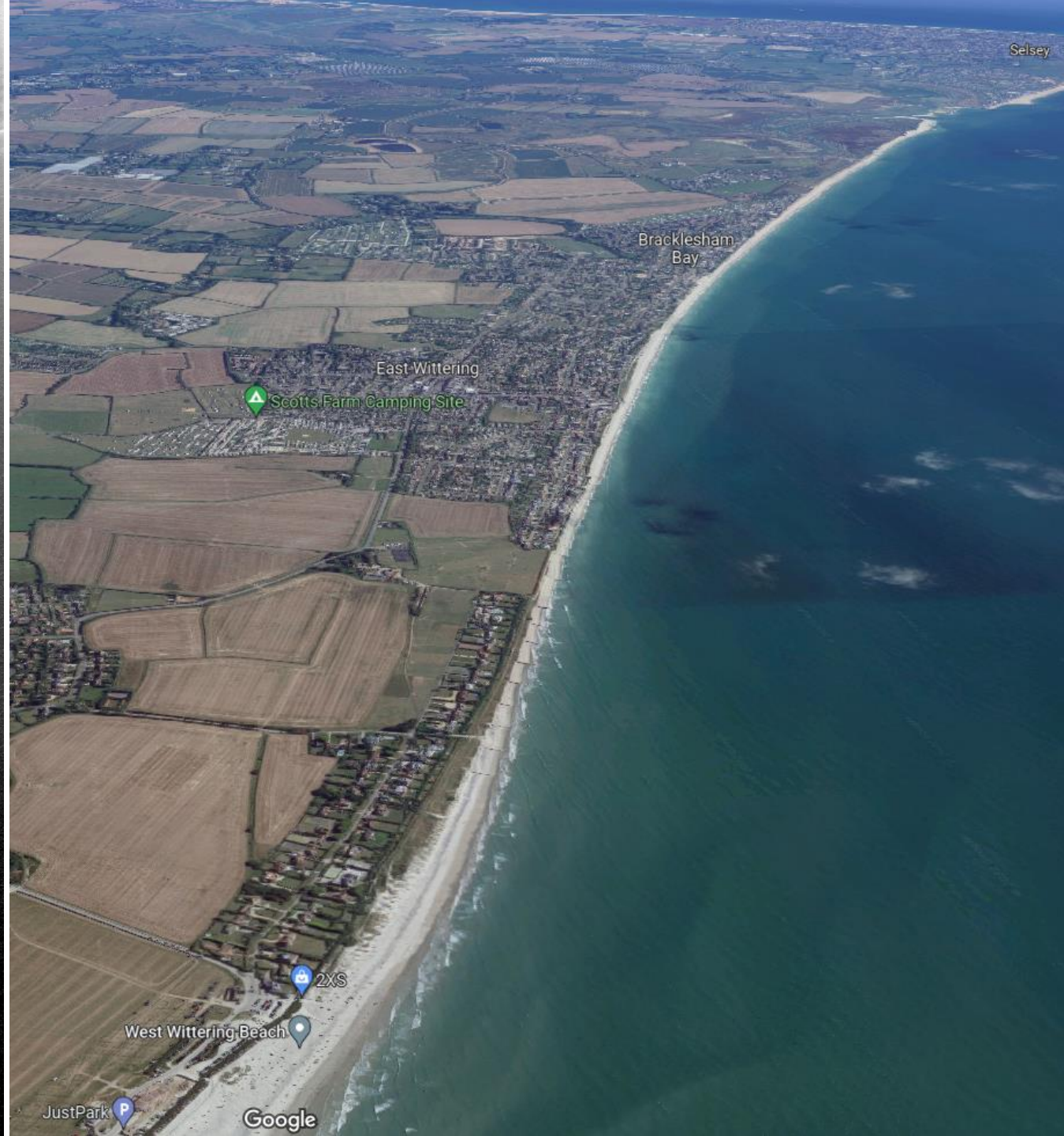
6300 lineal feet of sea wall £117,000.

Groynes £ 58,000.

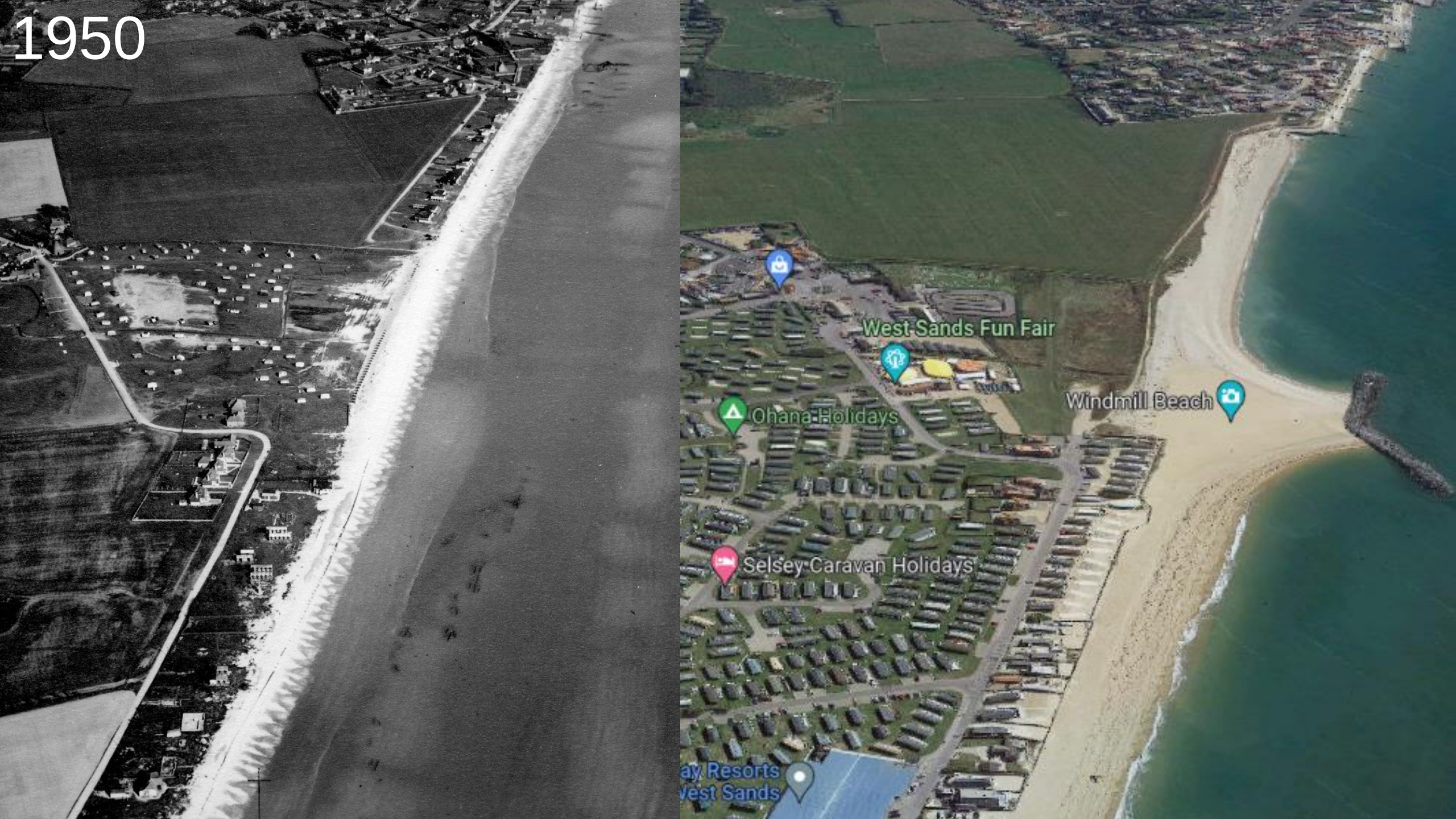
Almost 8 km of seawalls  
Numerous groynes in front of  
seawalls and areas without  
seawalls

→ Complete protection

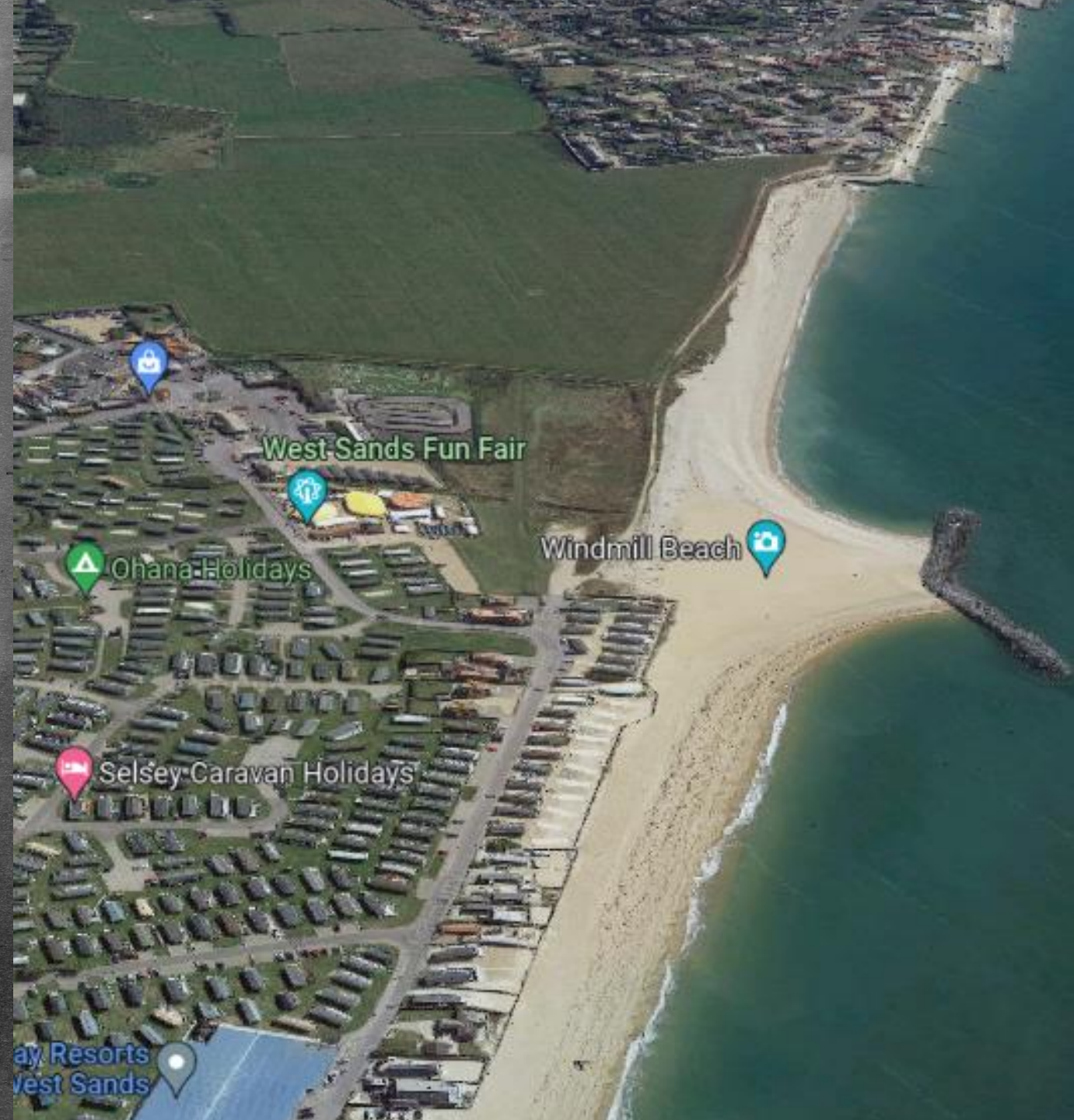








1950



West Sands Fun Fair

Ohana Holidays

Windmill Beach

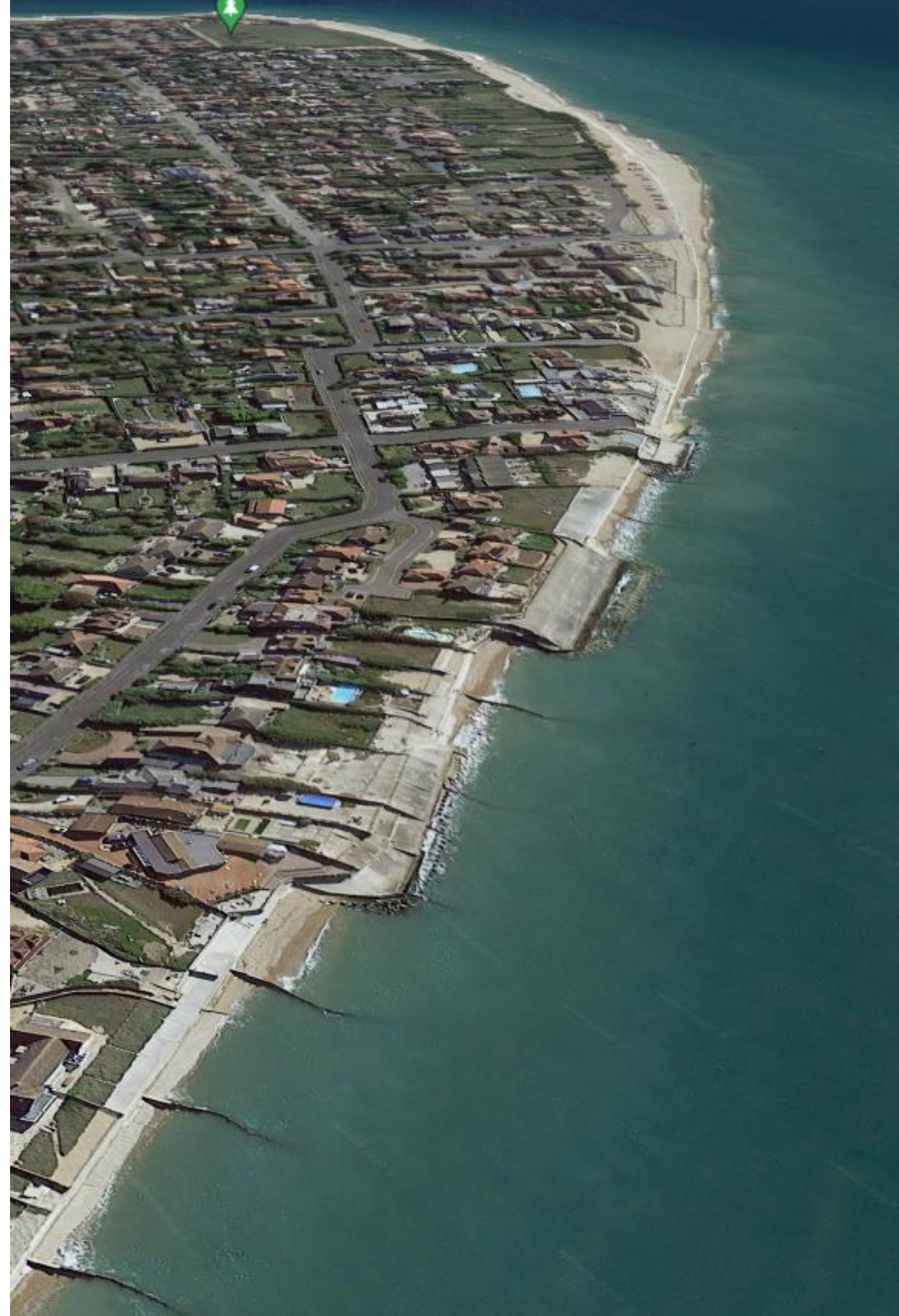
Selsey Caravan Holidays

ay Resorts  
West Sands

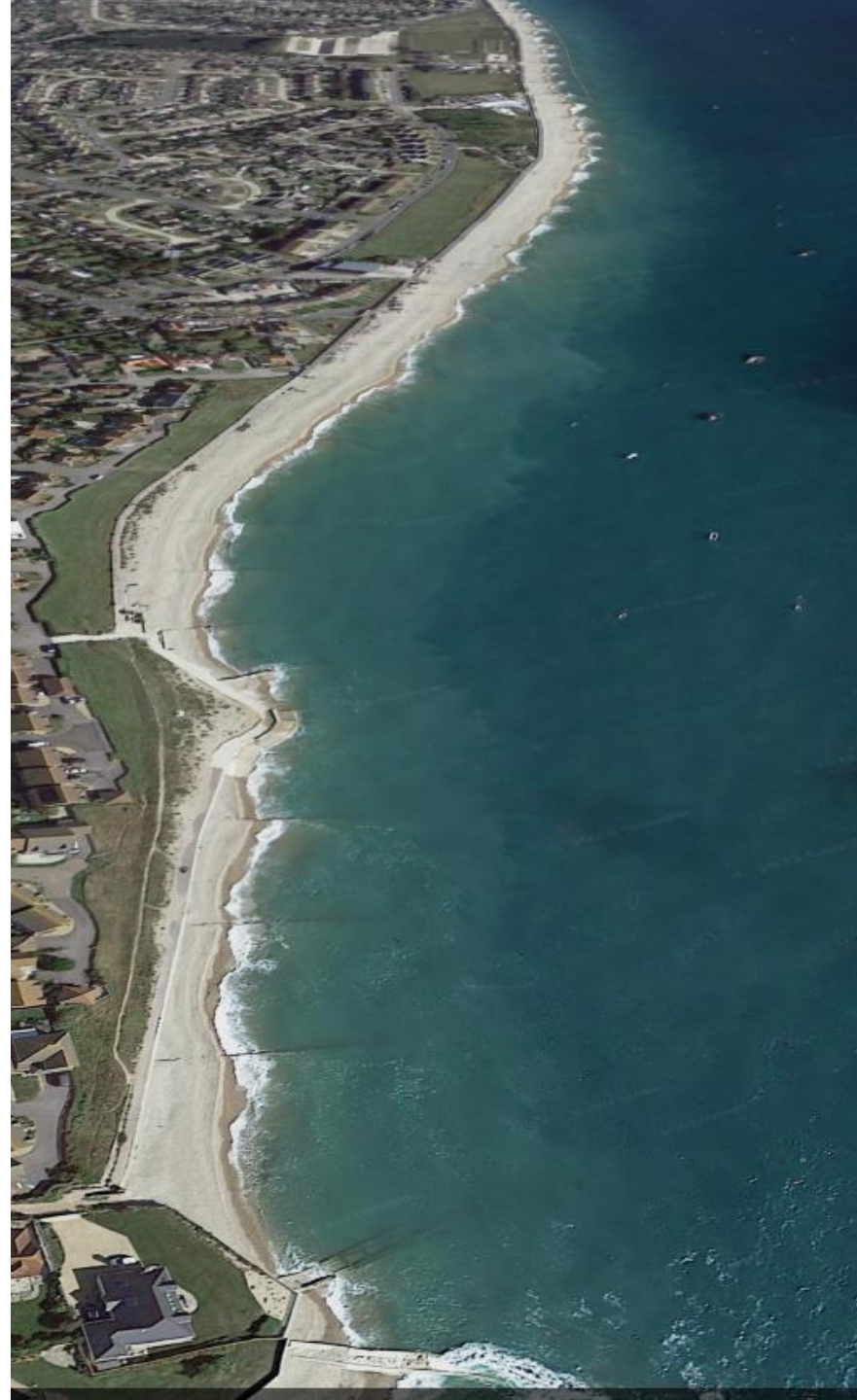








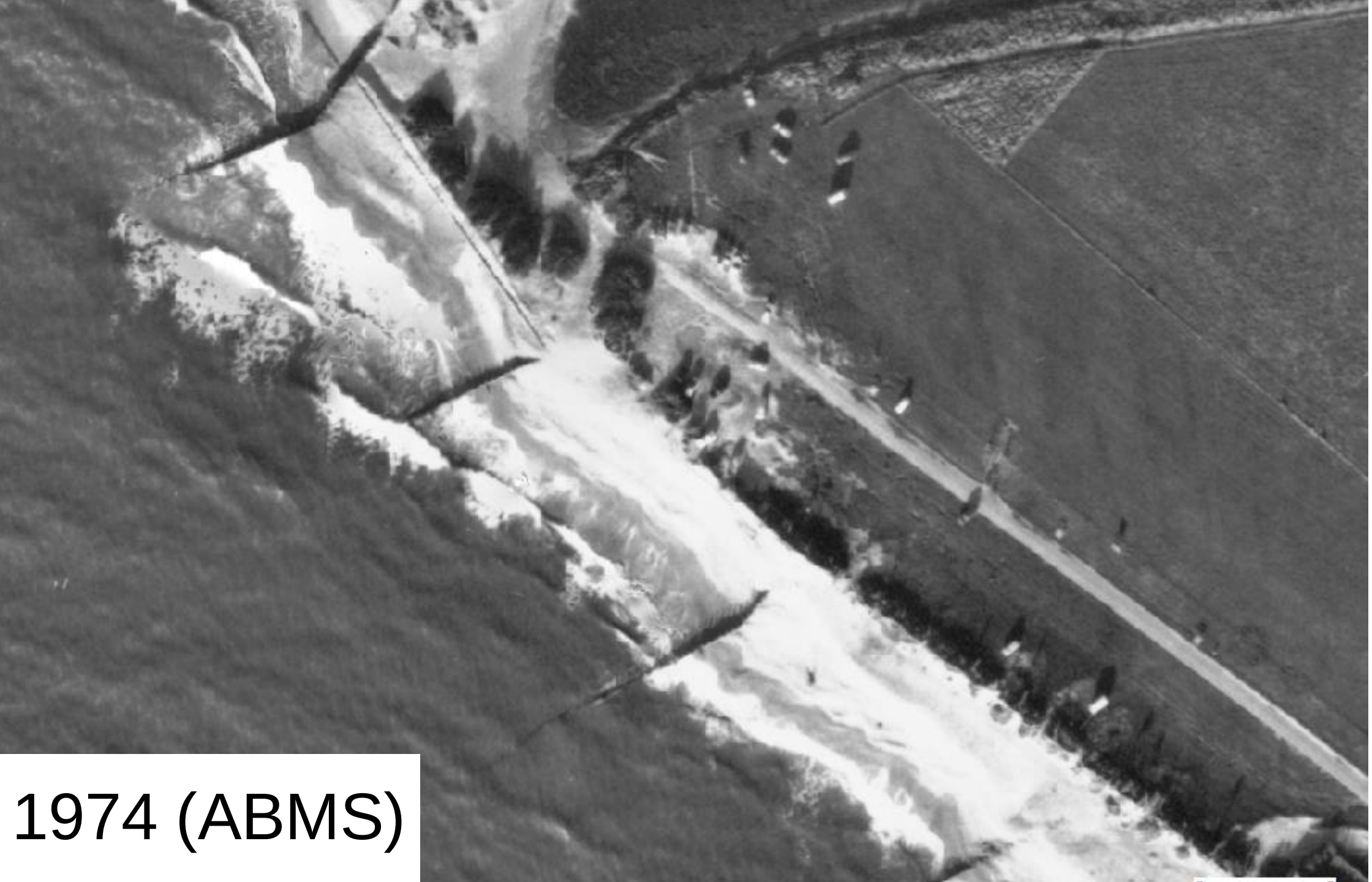












1974 (ABMS)





1999 (ABMS)





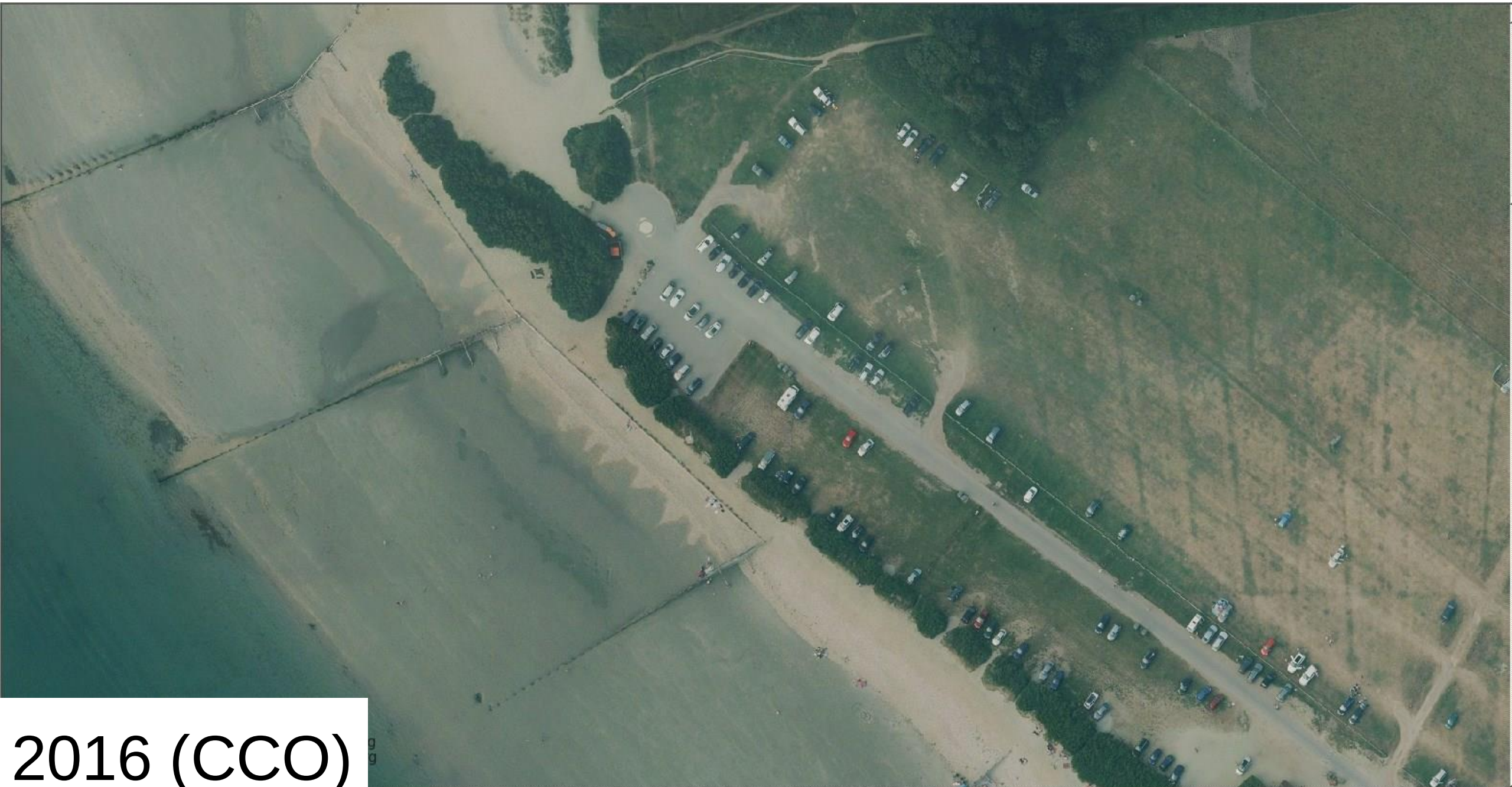
2008 (CCO)



2014







2016 (CCO)





2020 (CCO)





2021-01-25 (WWE)





2022-03-16 (WWE)





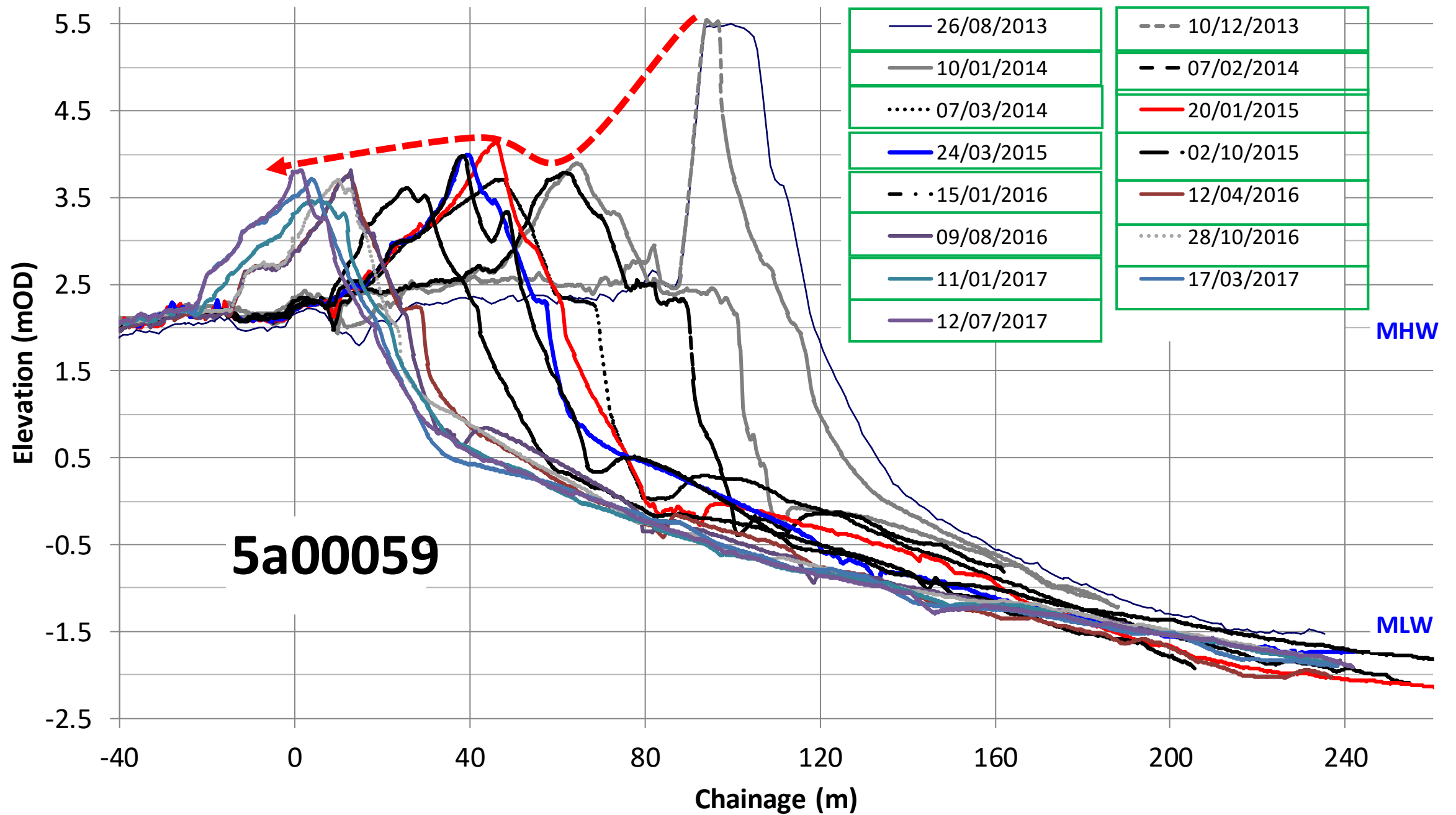


# Medmerry Managed Realignment



2013-2021  
loss of  $\sim 450,000 \text{ m}^3$  of clay;  
this is decreasing









Inner Owers

Kirk Arrow 'Spit'

Mixon Rocks



# Kirk Arrow 'Spit' and 'muddy' water







**Thank you**