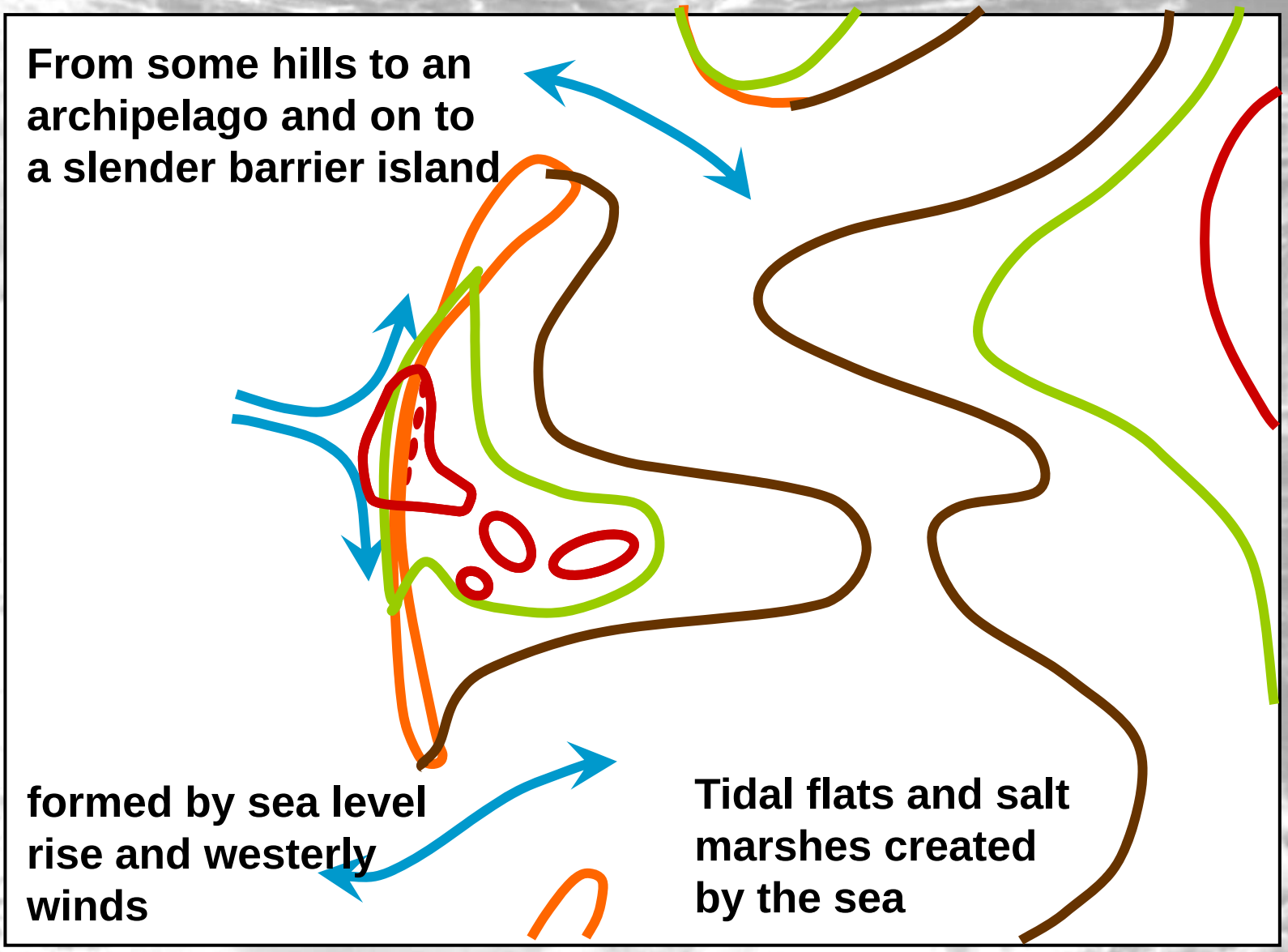

Mainland
Wadden Sea
Sylt
North Sea
GAF (euromap)

Geological development of Sylt



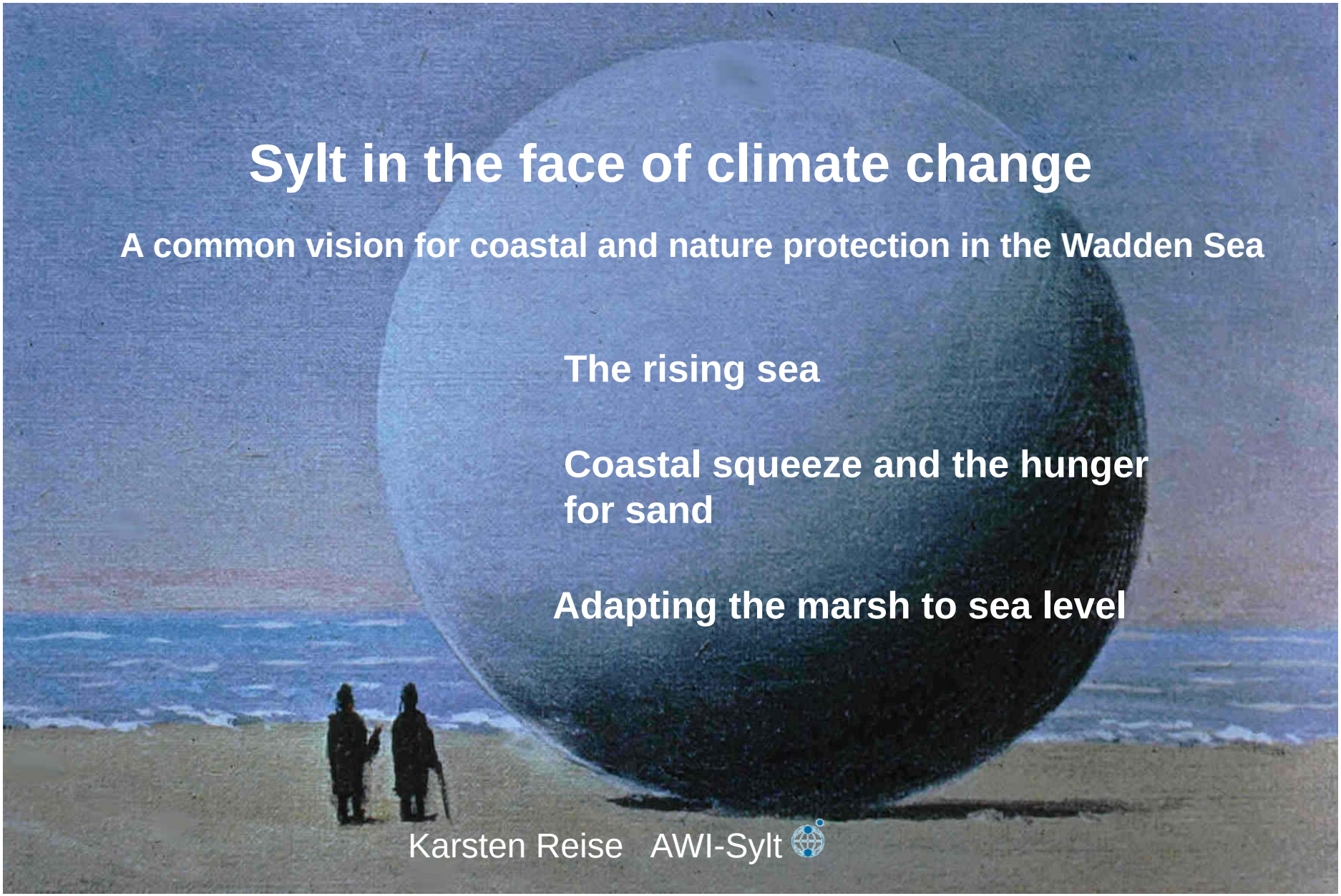
Sylt in the face of climate change

A common vision for coastal and nature protection in the Wadden Sea

The rising sea

Coastal squeeze and the hunger for sand

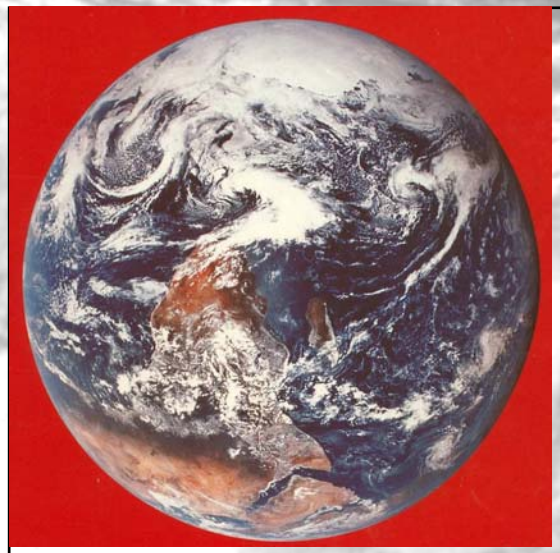
Adapting the marsh to sea level



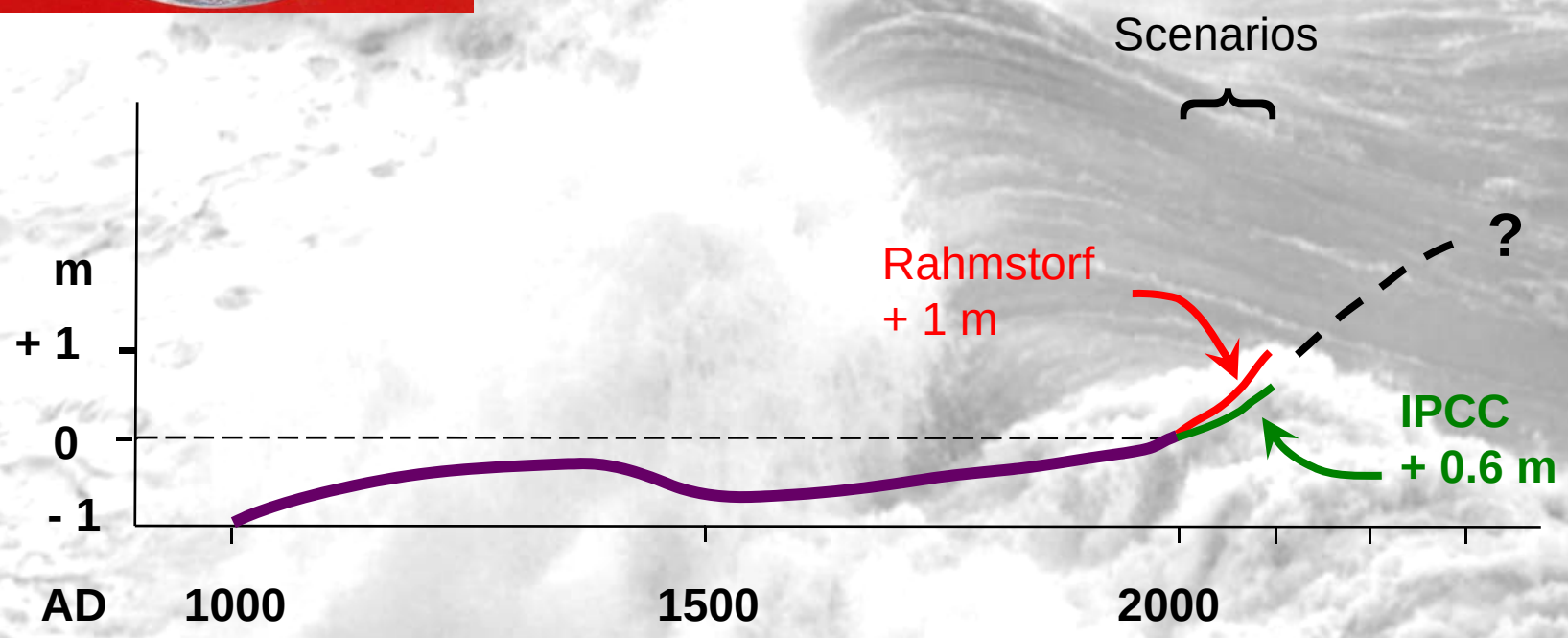
Karsten Reise AWI-Sylt

René Magritte

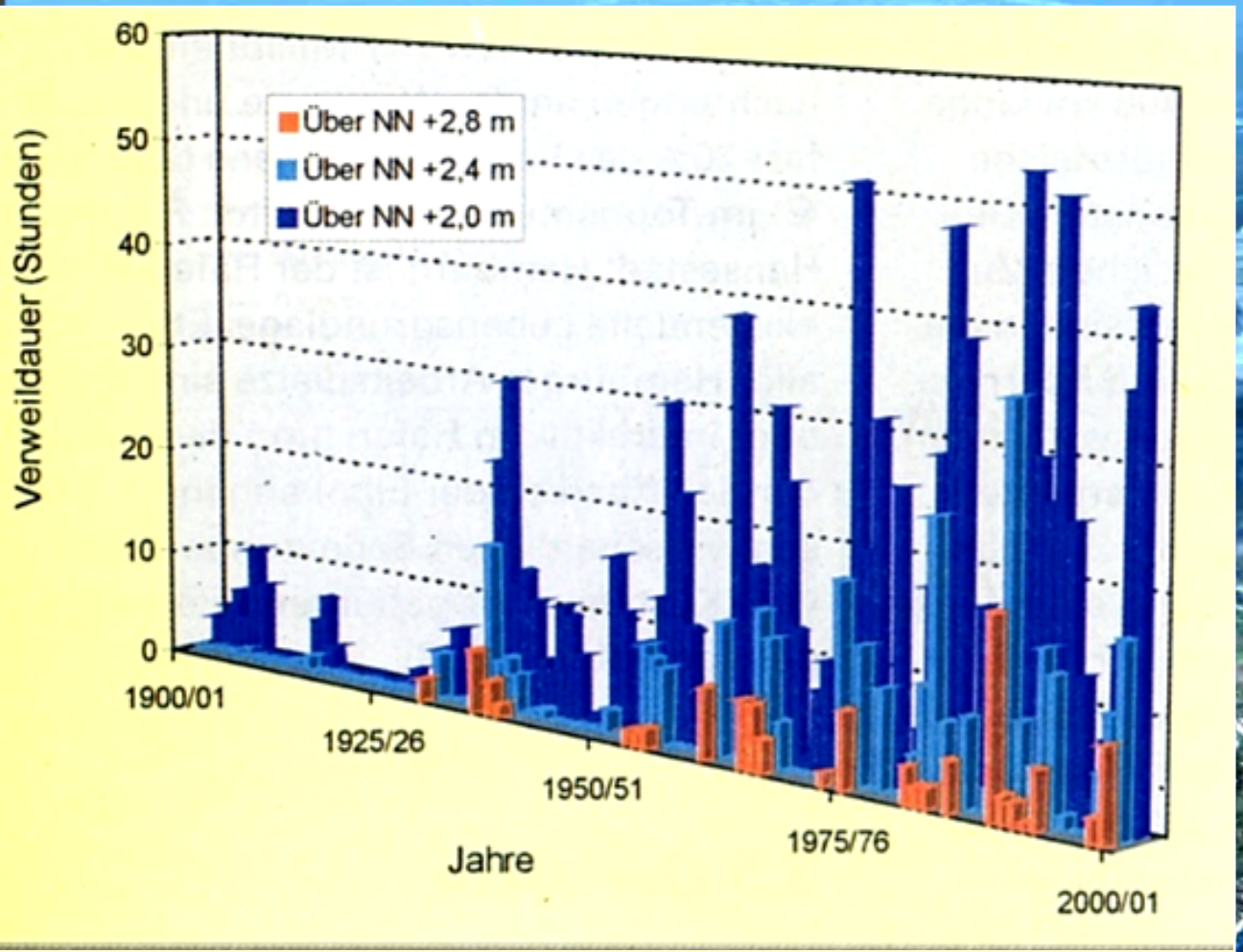
The rising sea



+ ca. 25% German Bight



Stormy North Sea



Duration of storm surge water levels at List tidal gauge since 1900

aus: Generalplan Küstenschutz SH 2001

Sylt needs more sand from the sea

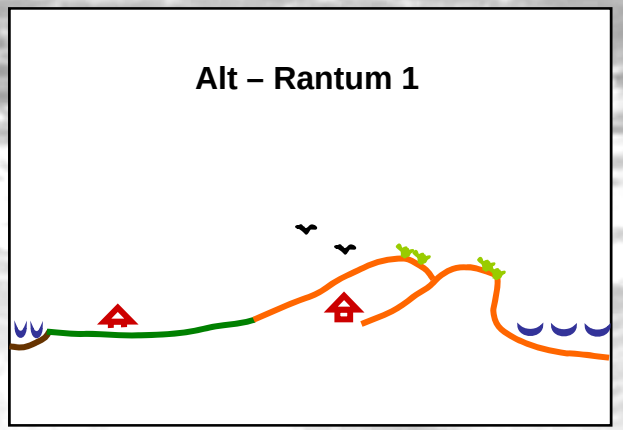
High tide level may rise up to 1 m in this century

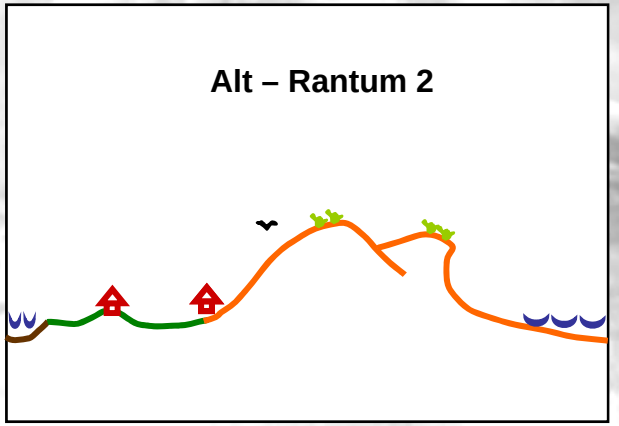
because of global warming,

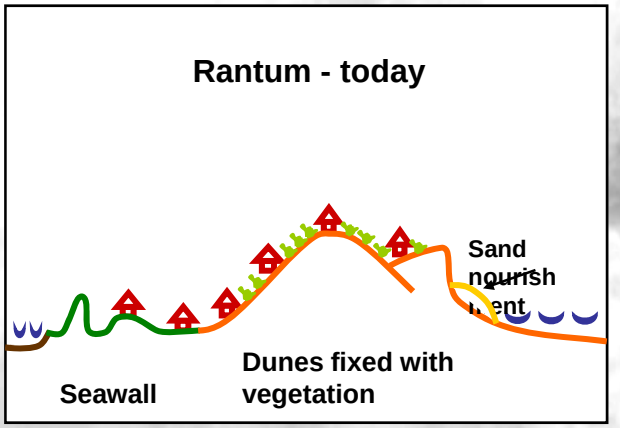
onshore winds, and

seawalls and causeways.

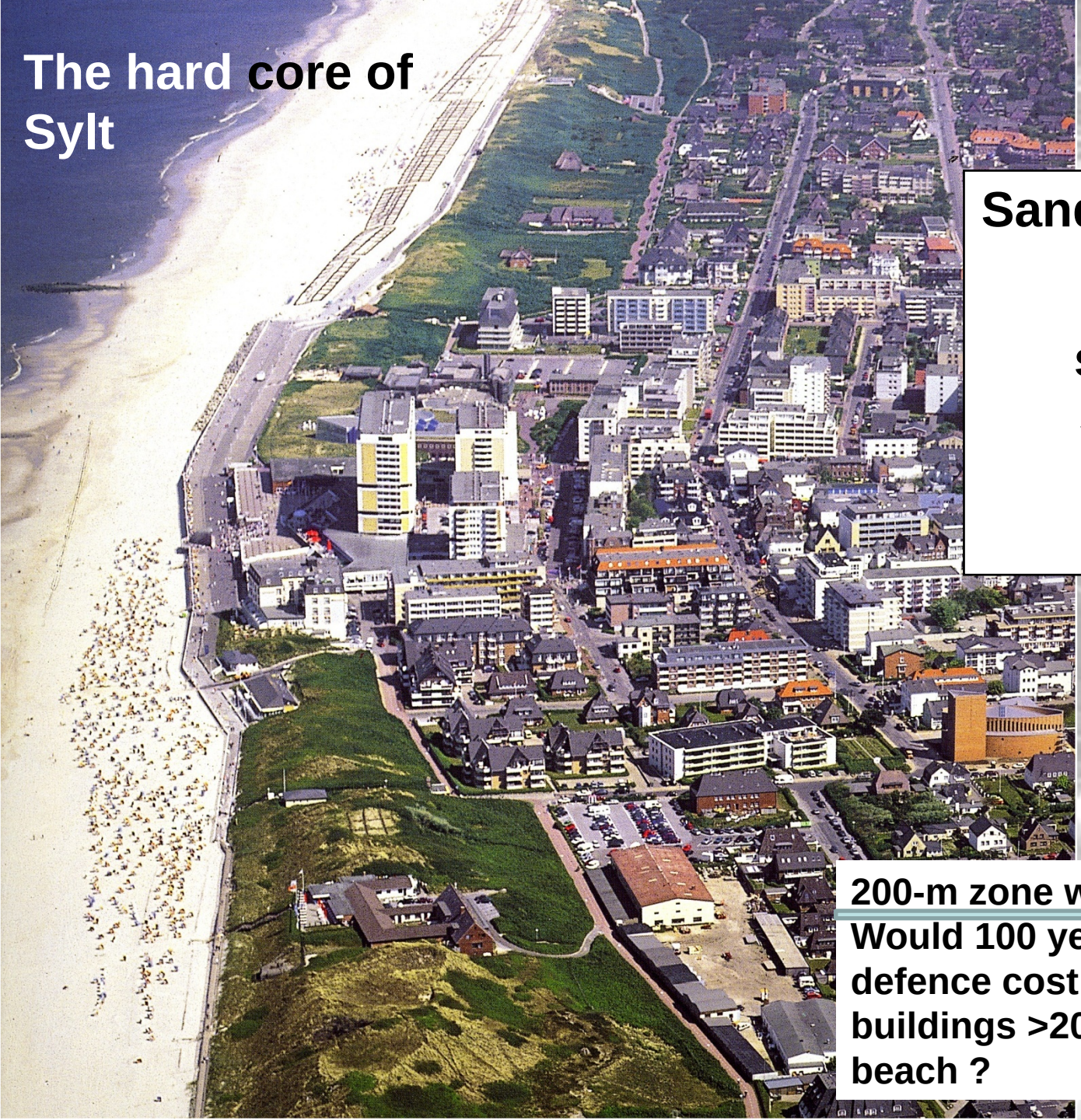
History of Rantum







Luxury for some but many have to pay.



The hard core of Sylt

Sand nourishment for Sylt

since 1972
36 Mill. m³
for
146 Mill. €

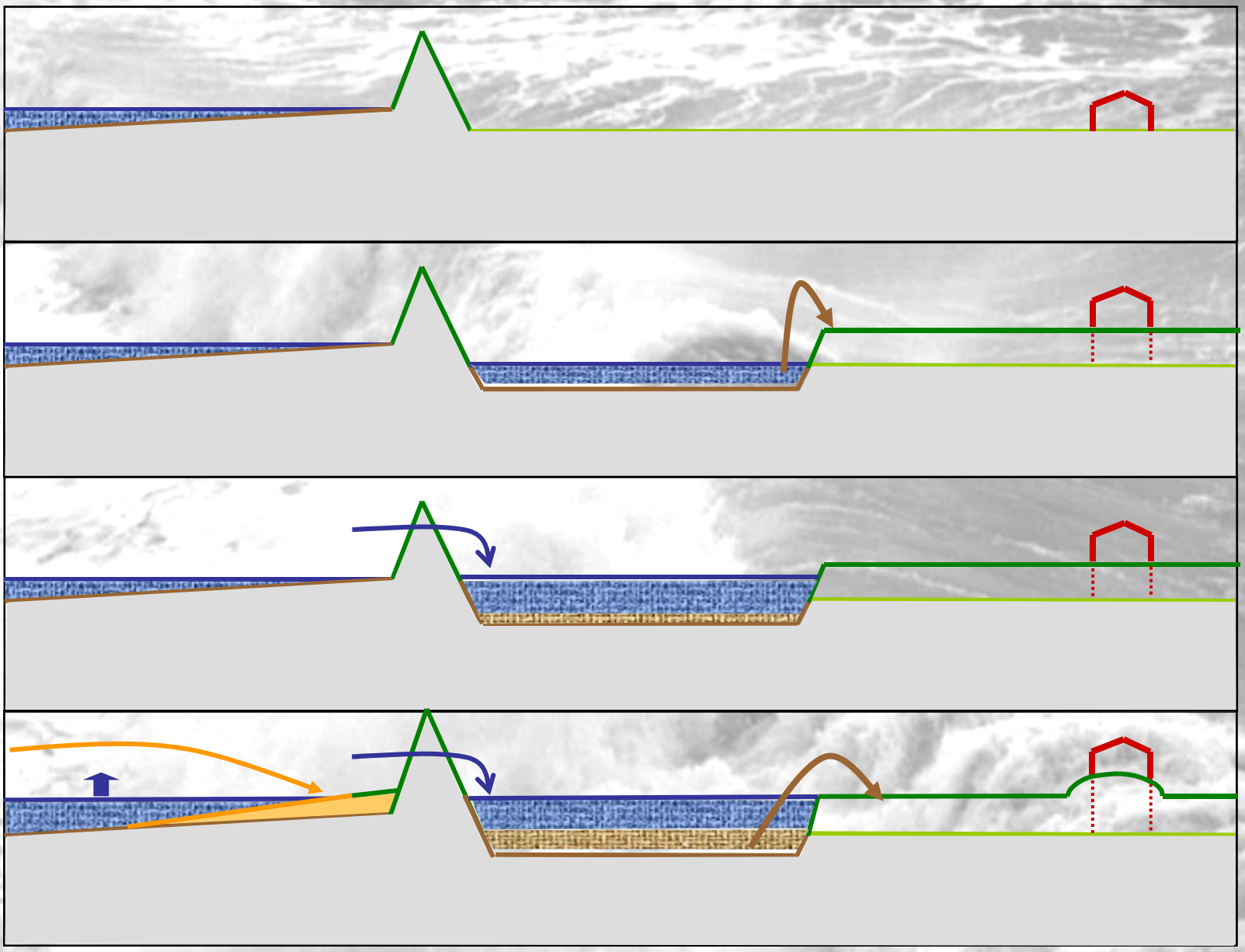
200-m zone without buildings:

Would 100 years of coastal defence cost more than new buildings >200 m away from the beach ?

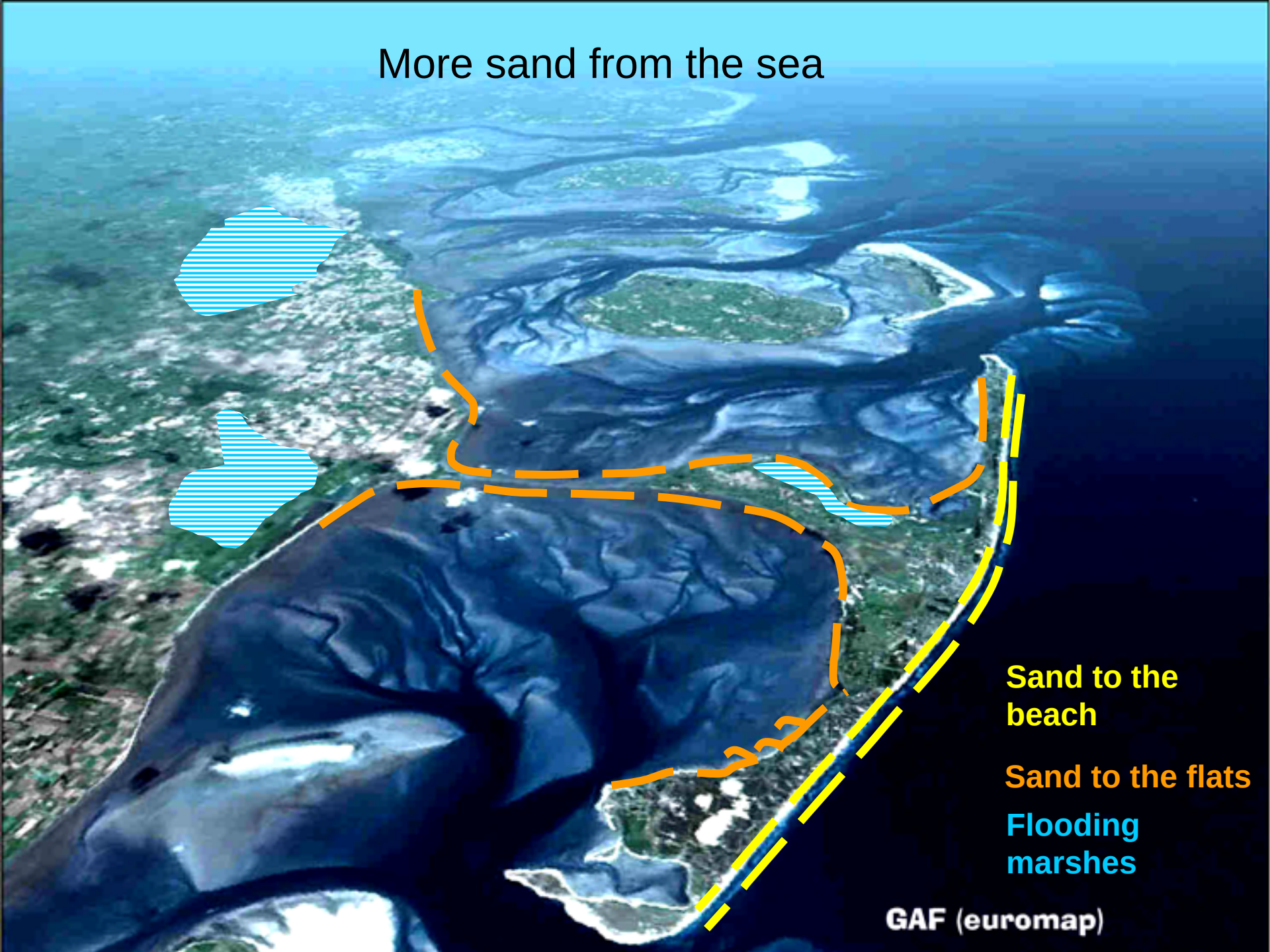

Rantumer Bucht with sandy islets from 1972


Watt
Eingedeichte Marsch
GAF (euromap)

Marshes need to rise with the sea



More sand from the sea



Sylt and climate change:

a chance ?

Reducing greenhouse gas emissions

More sand from the sea

Buildings for a limited time

Sea-landscape without barriers