

# Stormfloden 1872

## - i nyt lys

Peter Aakjær og Erik Buch

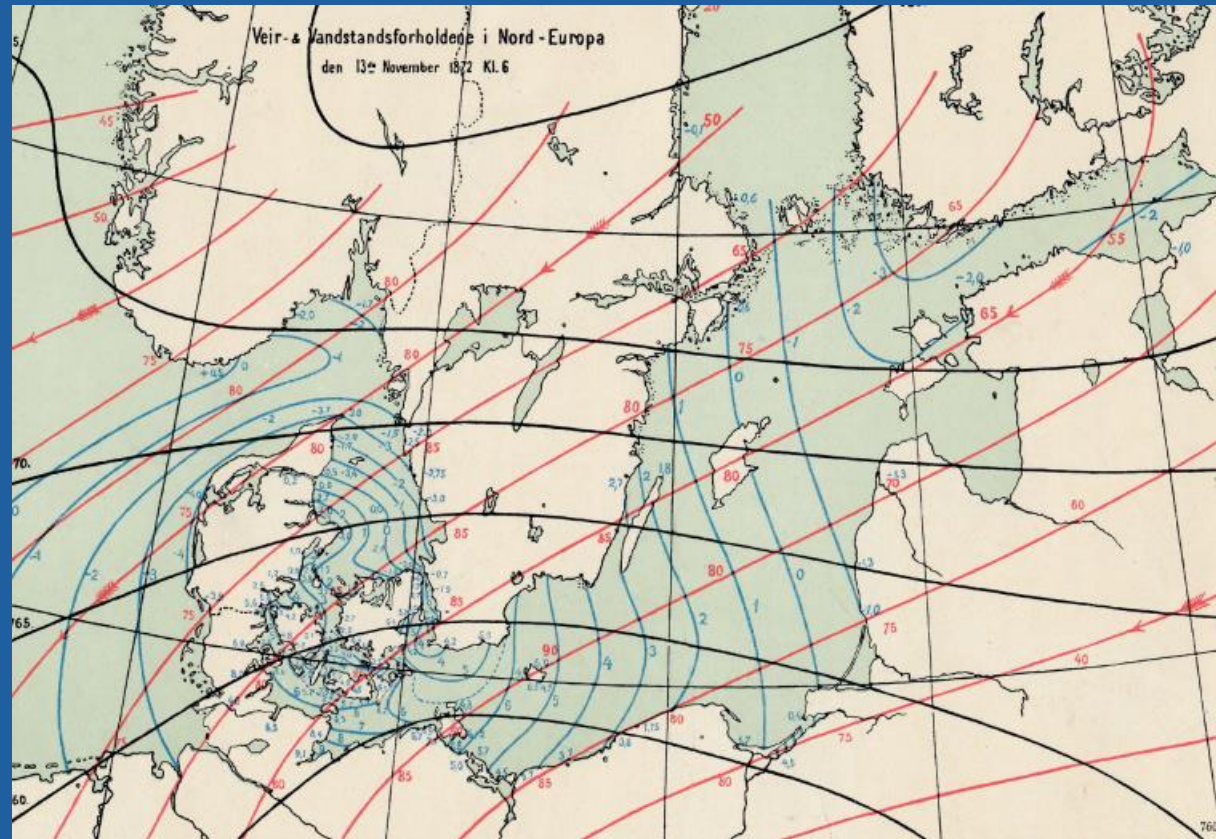
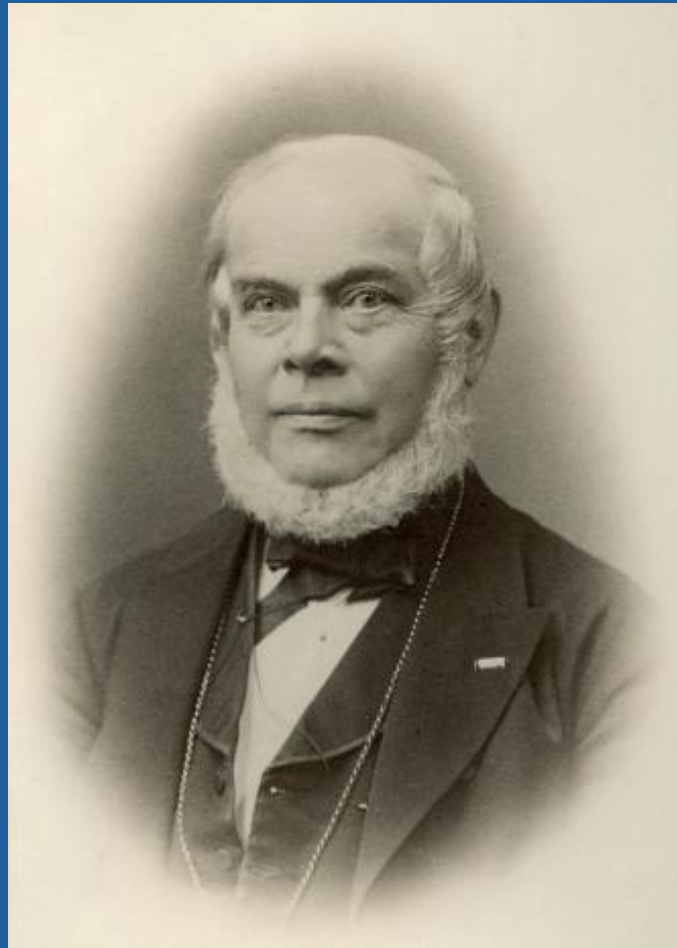
DM 14 marts 2023

# Indhold

- Præsentation
- Orkanen
- Stormfloden
- Ødelæggelserne og hjælpen
- Kan det ske igen?

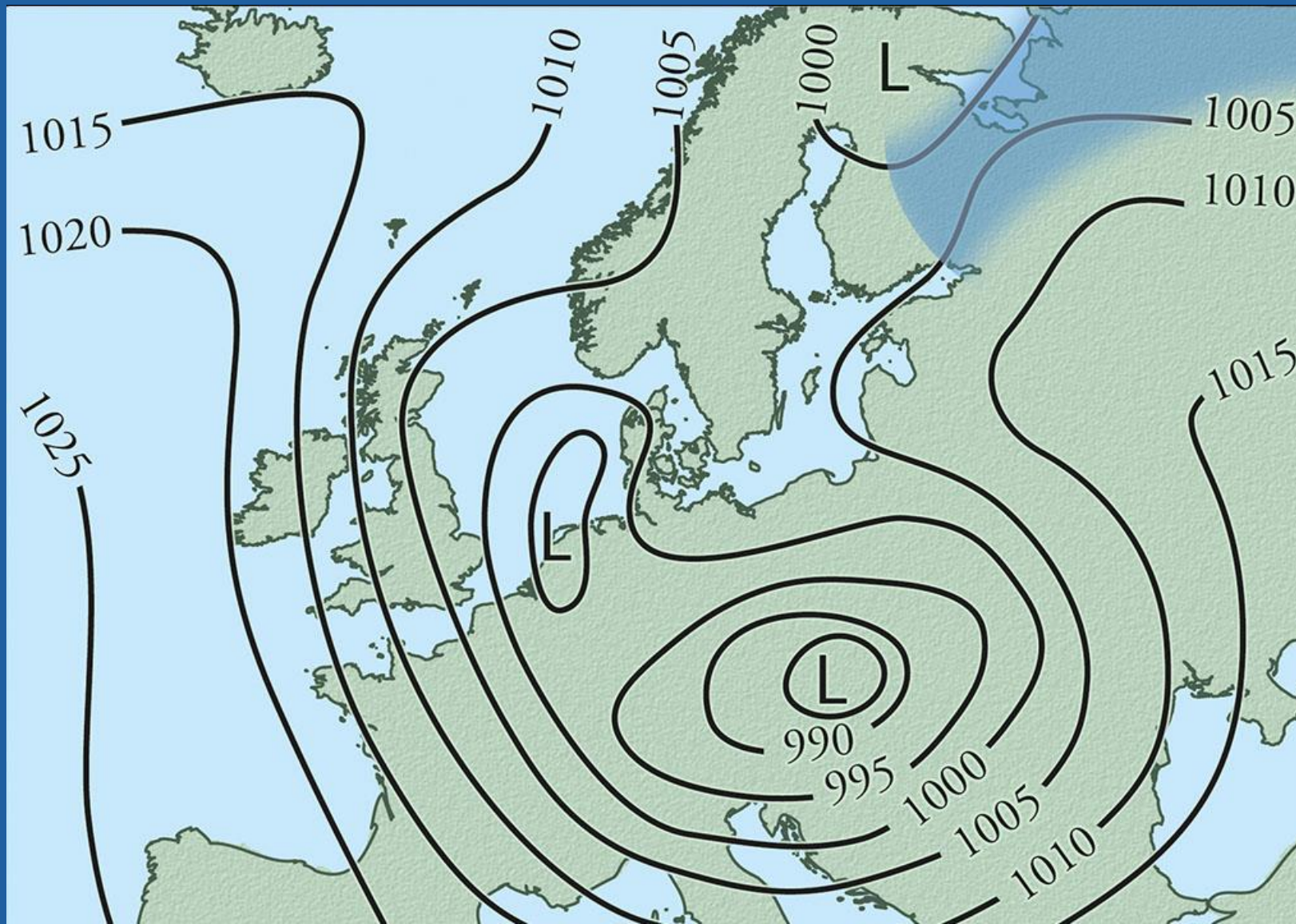
- stor tak til Jens Smeds Oceanografiske Fond

# Ludvig August Colding (1815-1888)

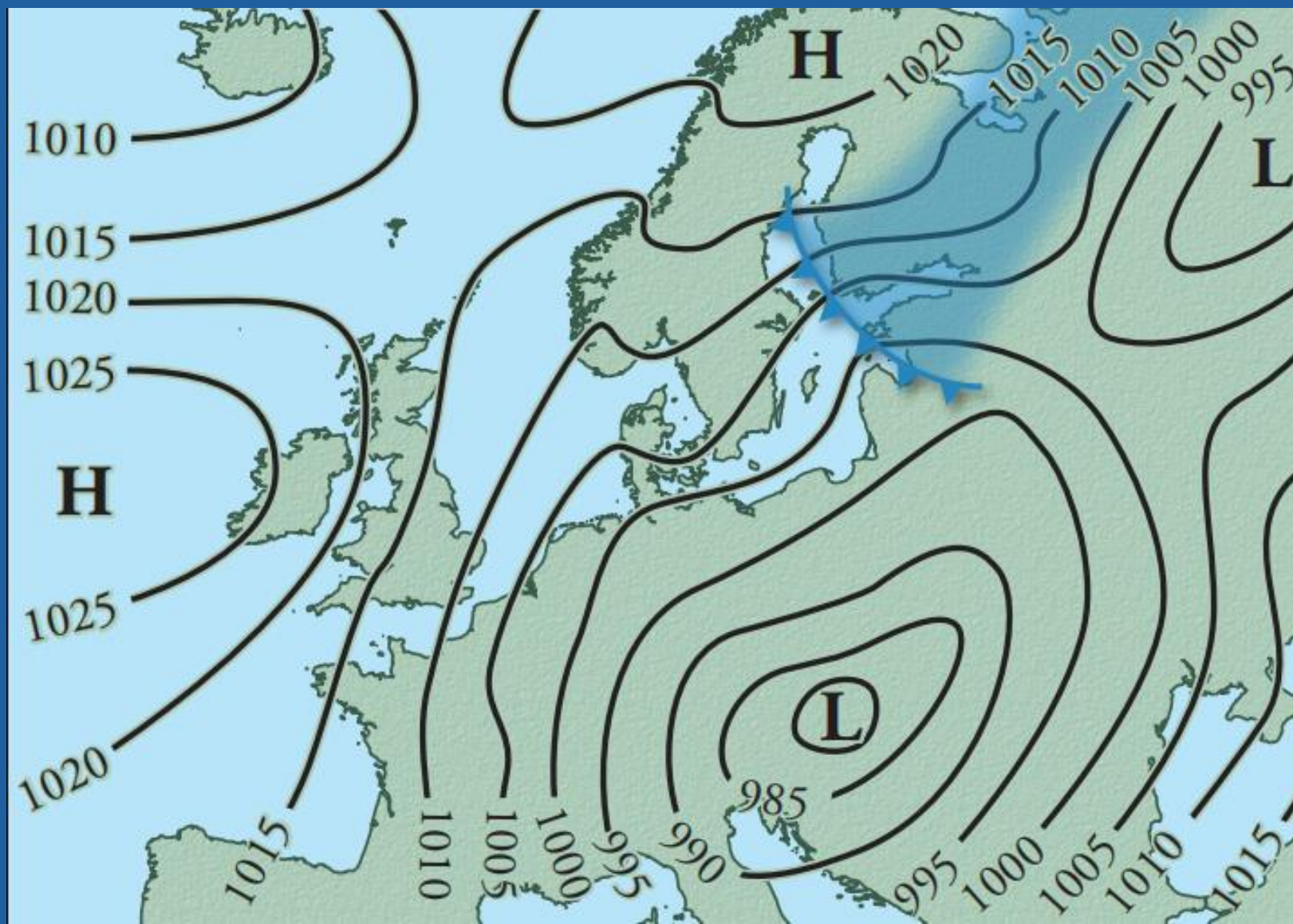




# Vejret den 10. november

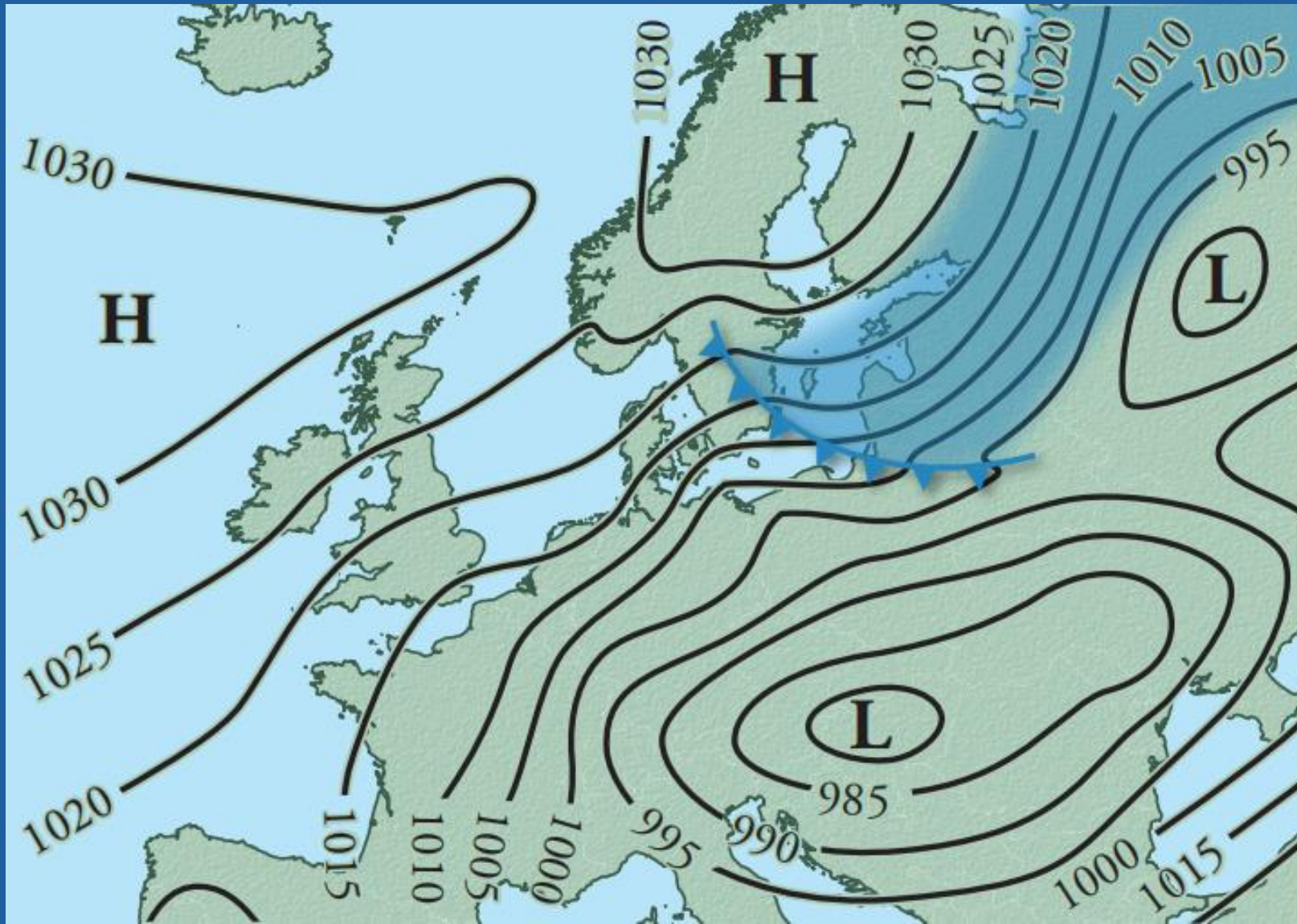


# Vejret den 11. november

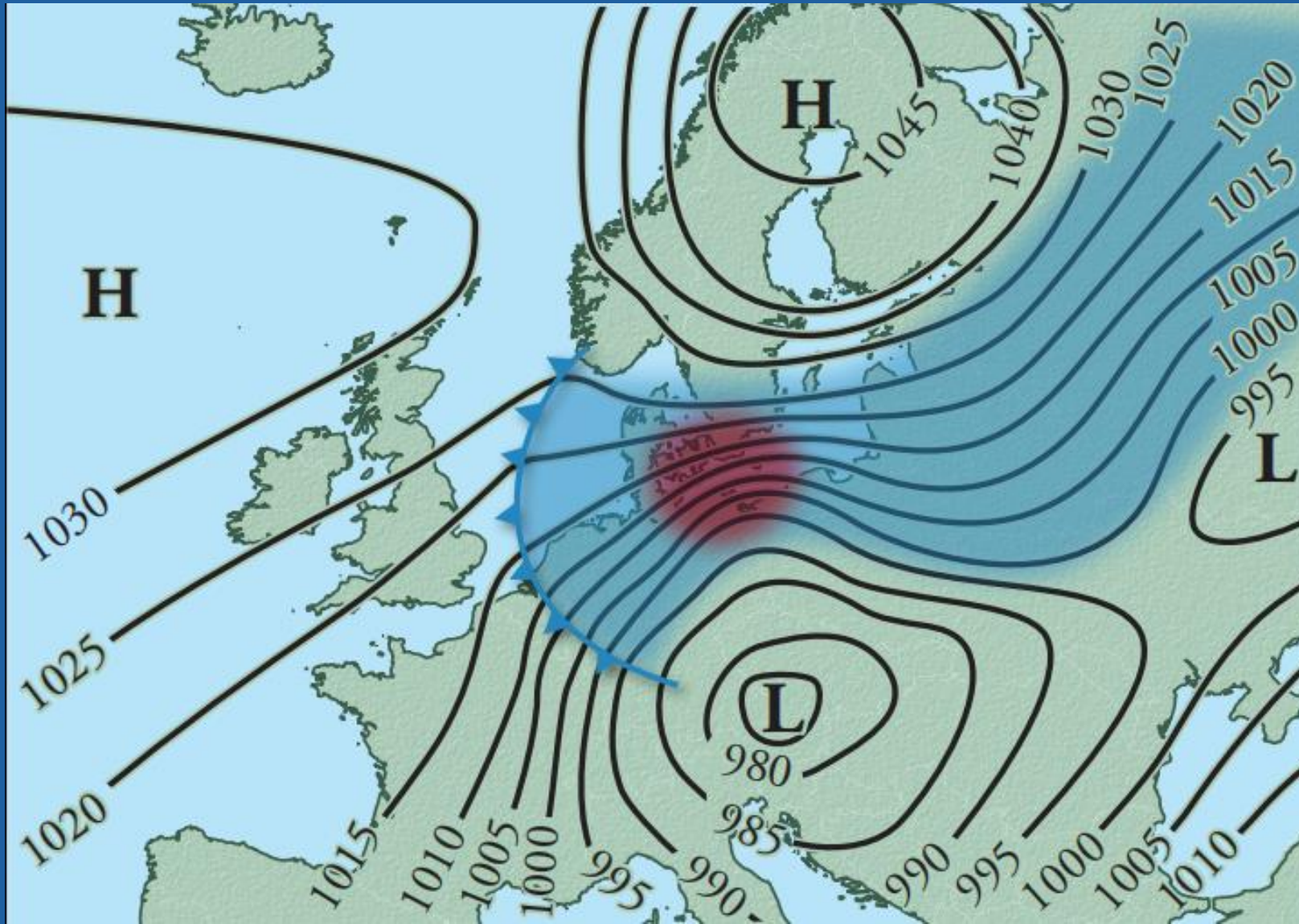




# Vejret den 12. november

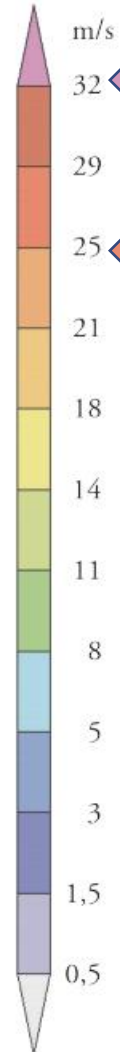
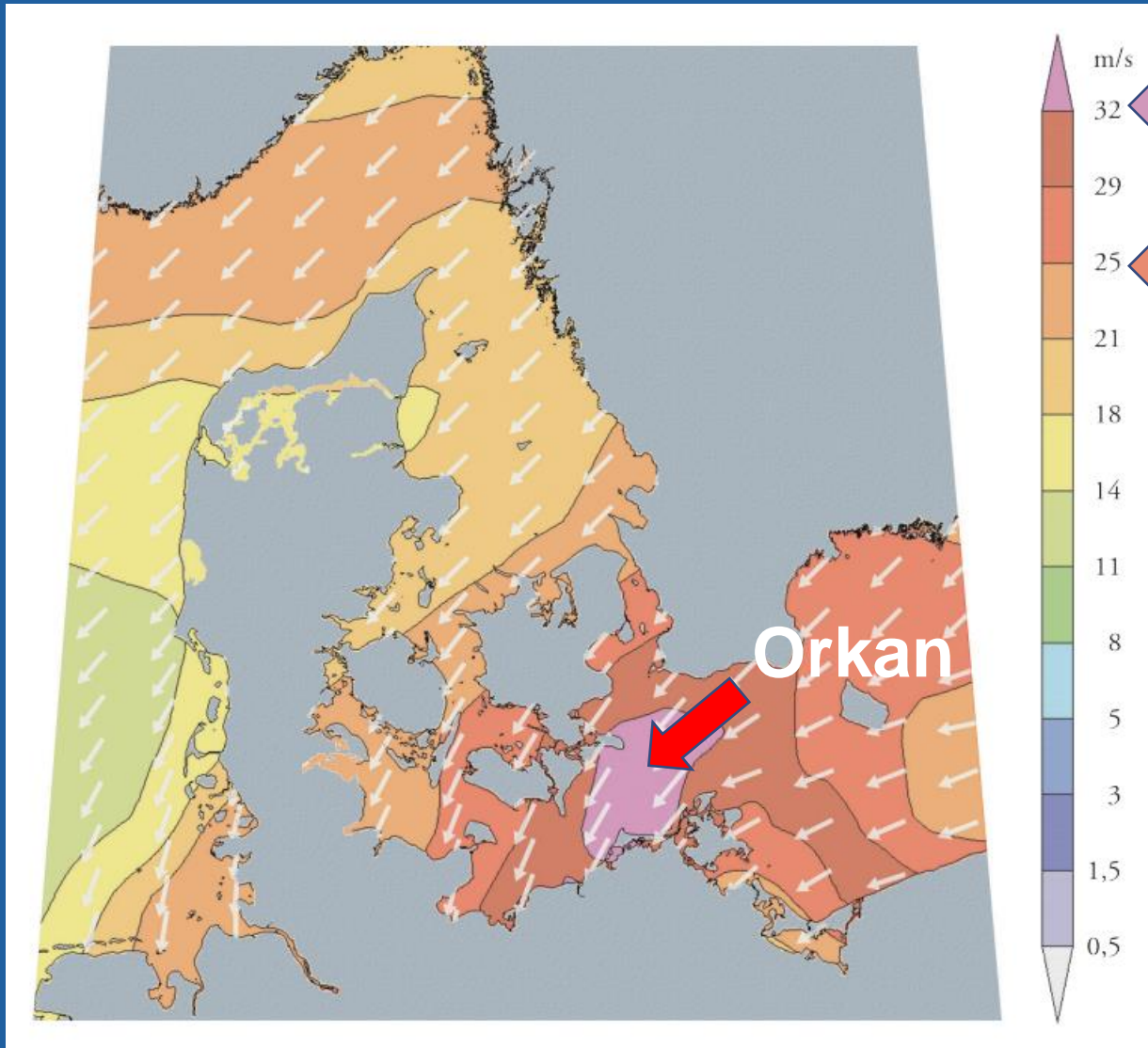


# Vejret den 13. november





# Vinden den 13. november kl. 6

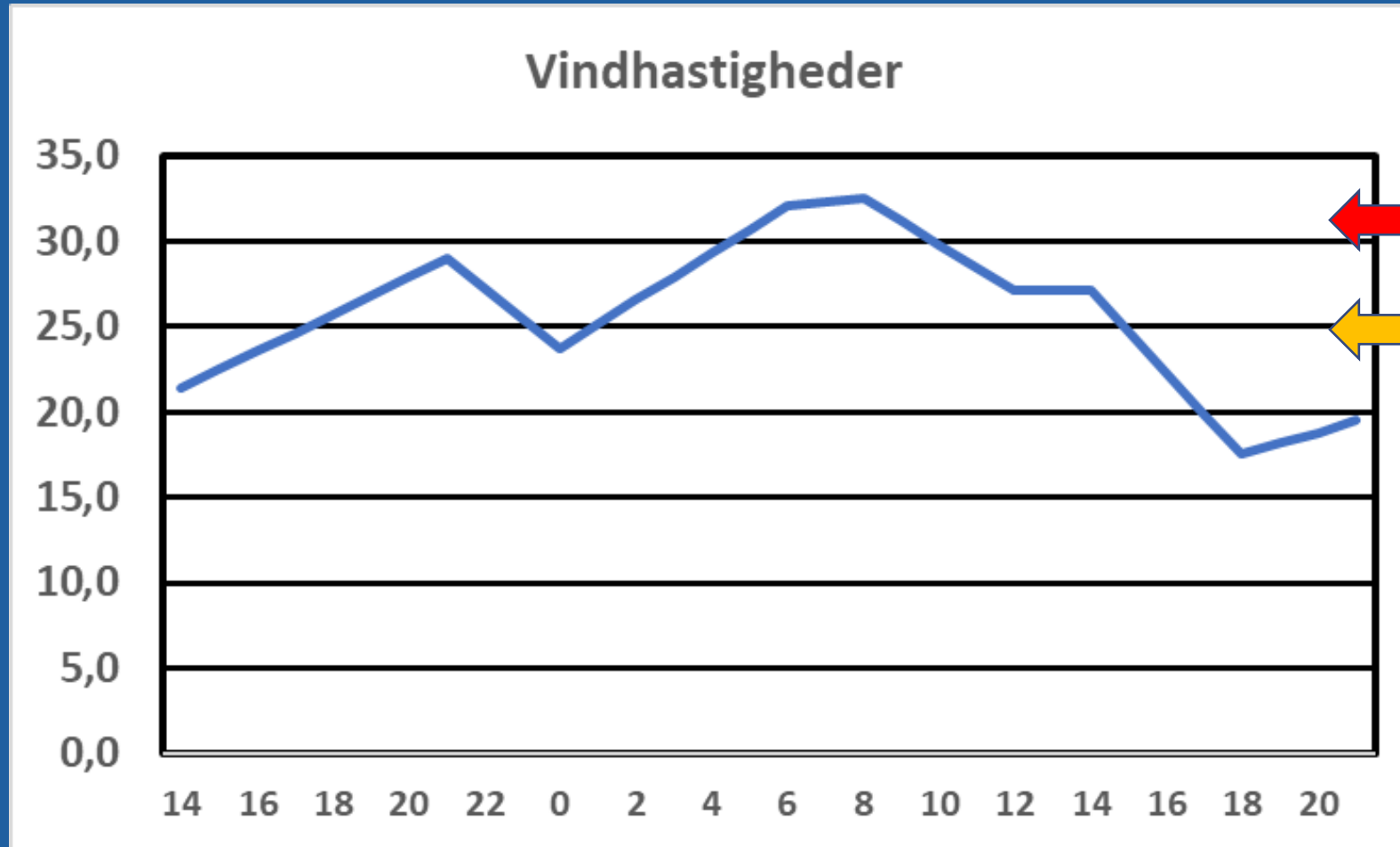


Orkan: over 32 m/s

Storm: 25 m/s eller højere



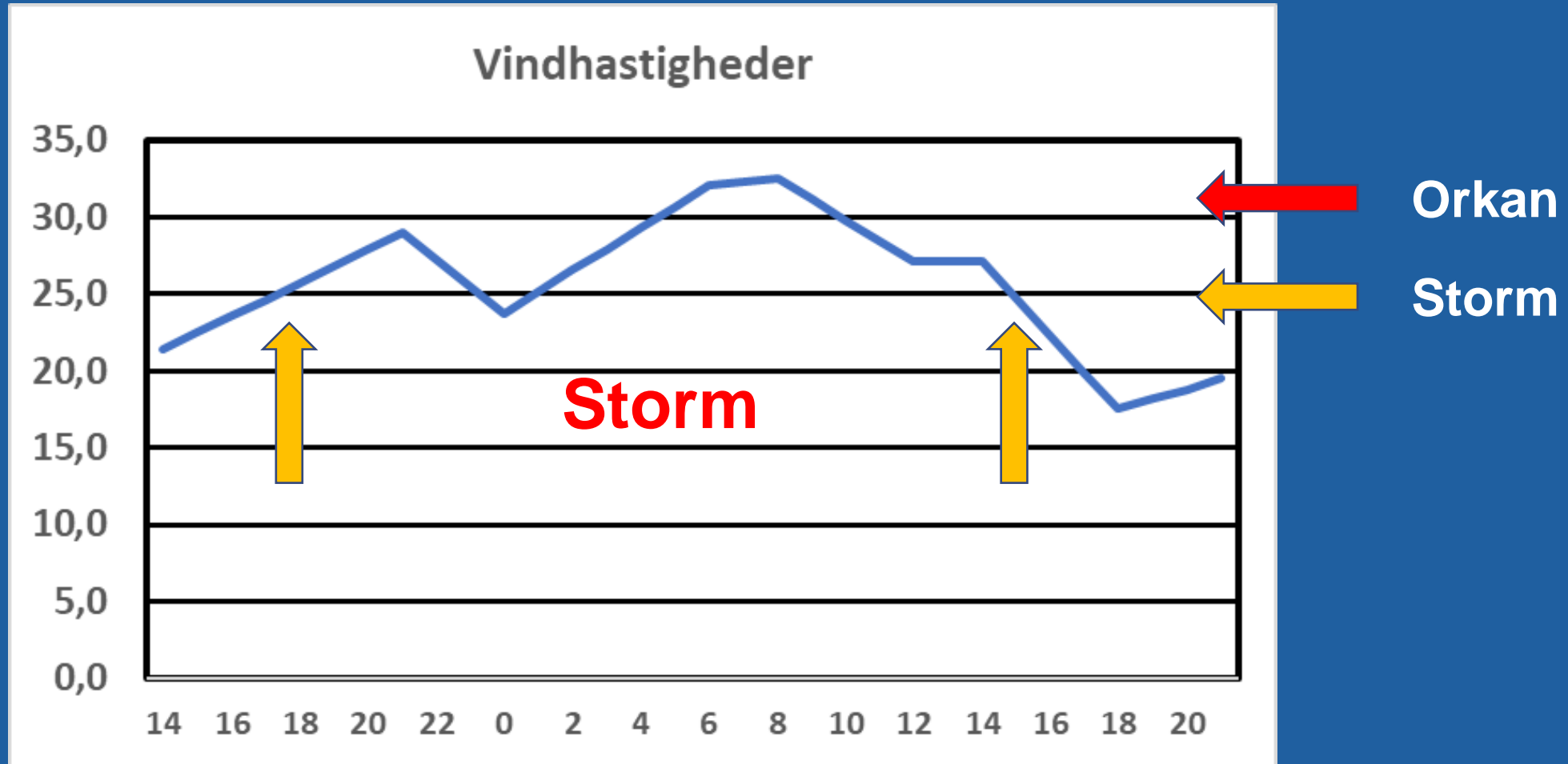
# Vinden ved Falster



Orkan

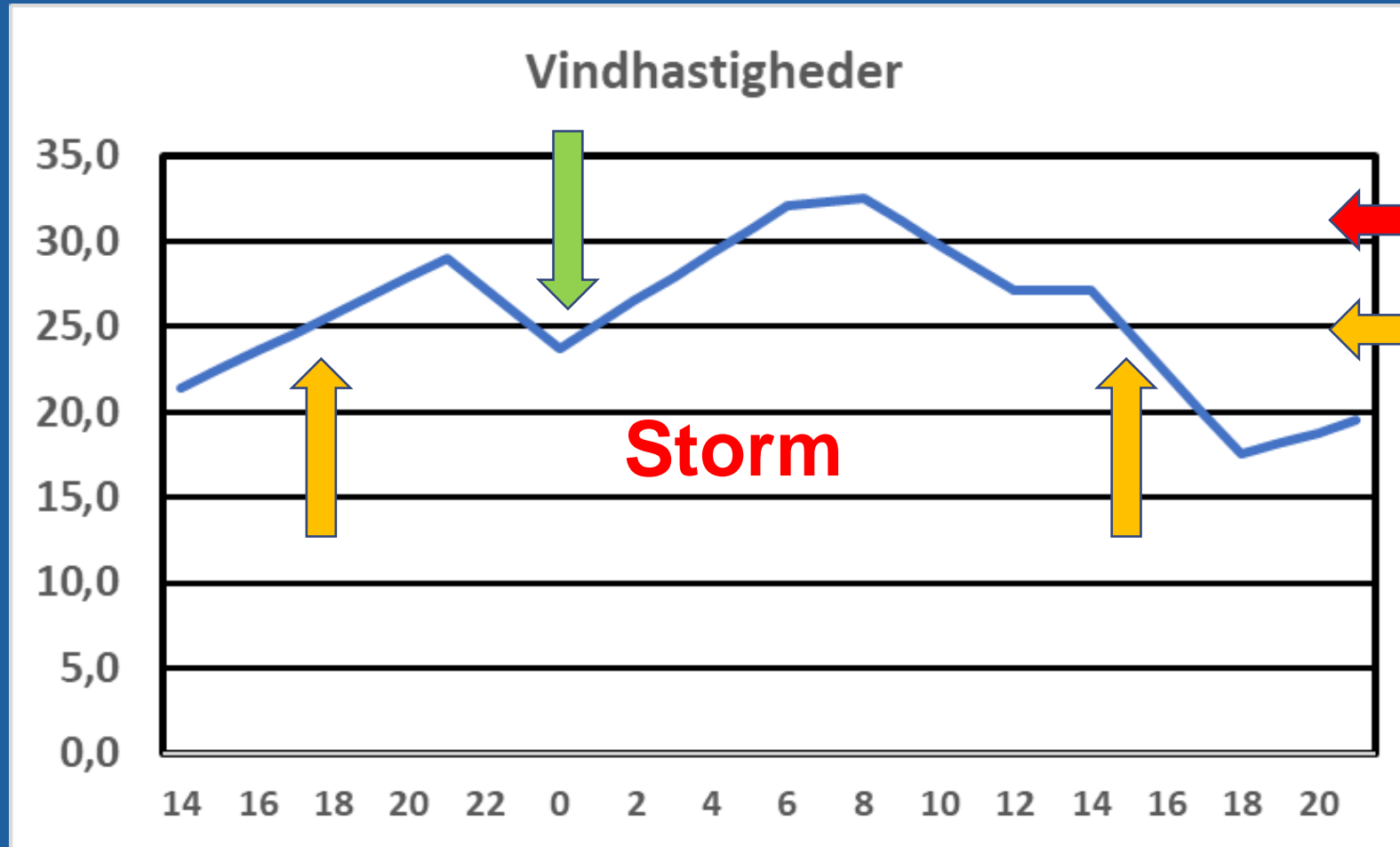
Storm

# Vinden ved Falster





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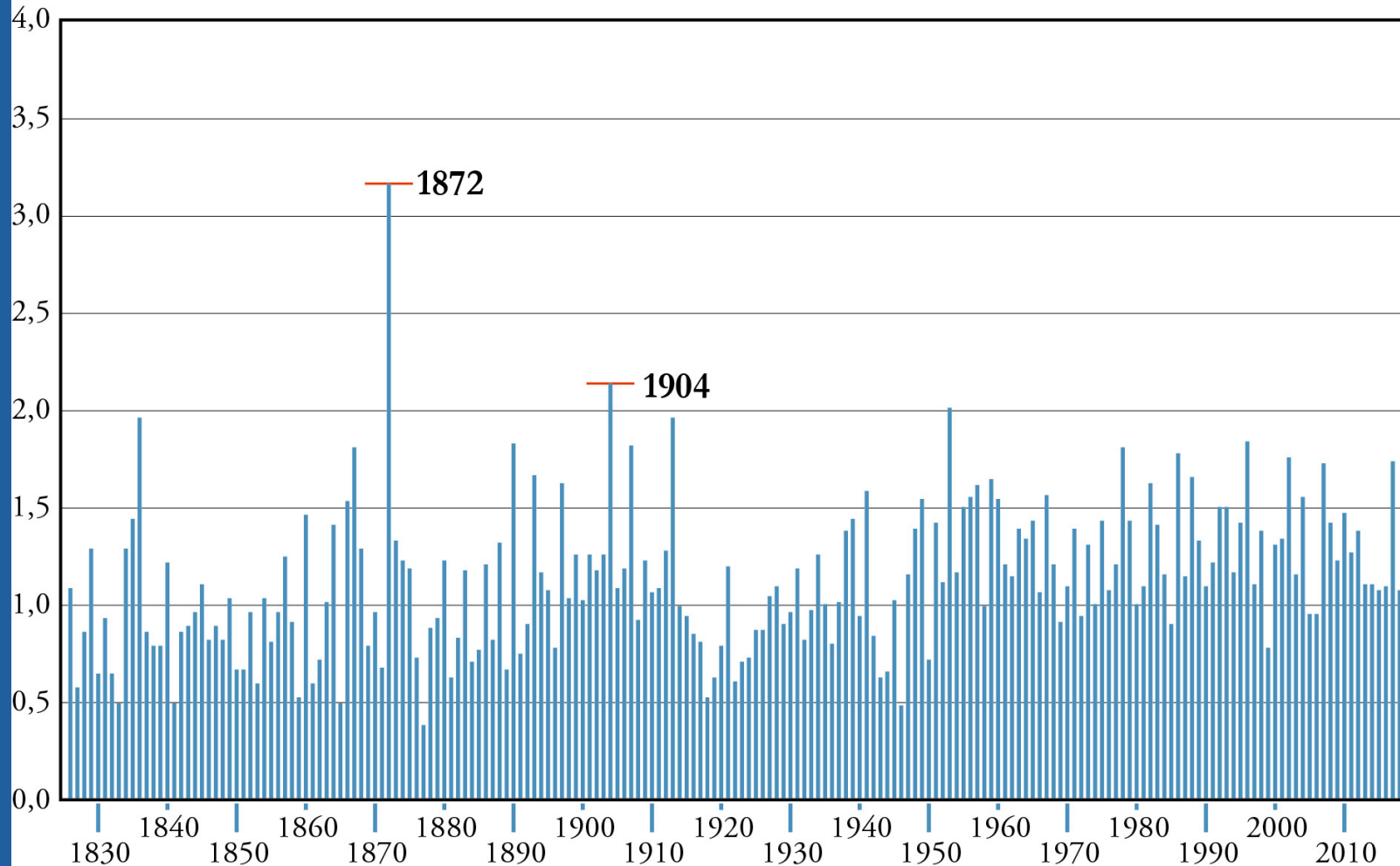


# Stormfloden



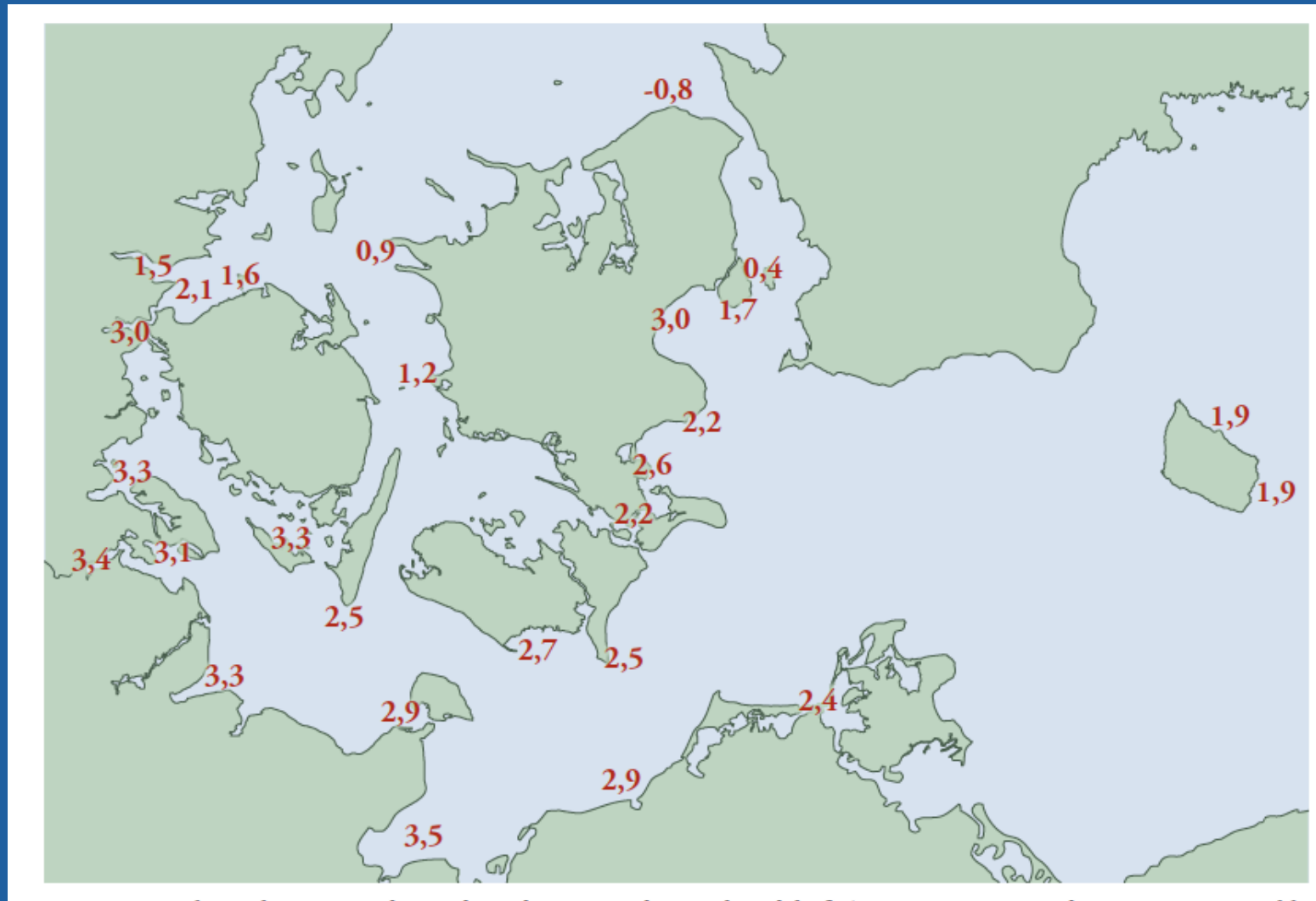
# Super-stormflod – vandstand over 3 meter

Maksimal vandstand i m



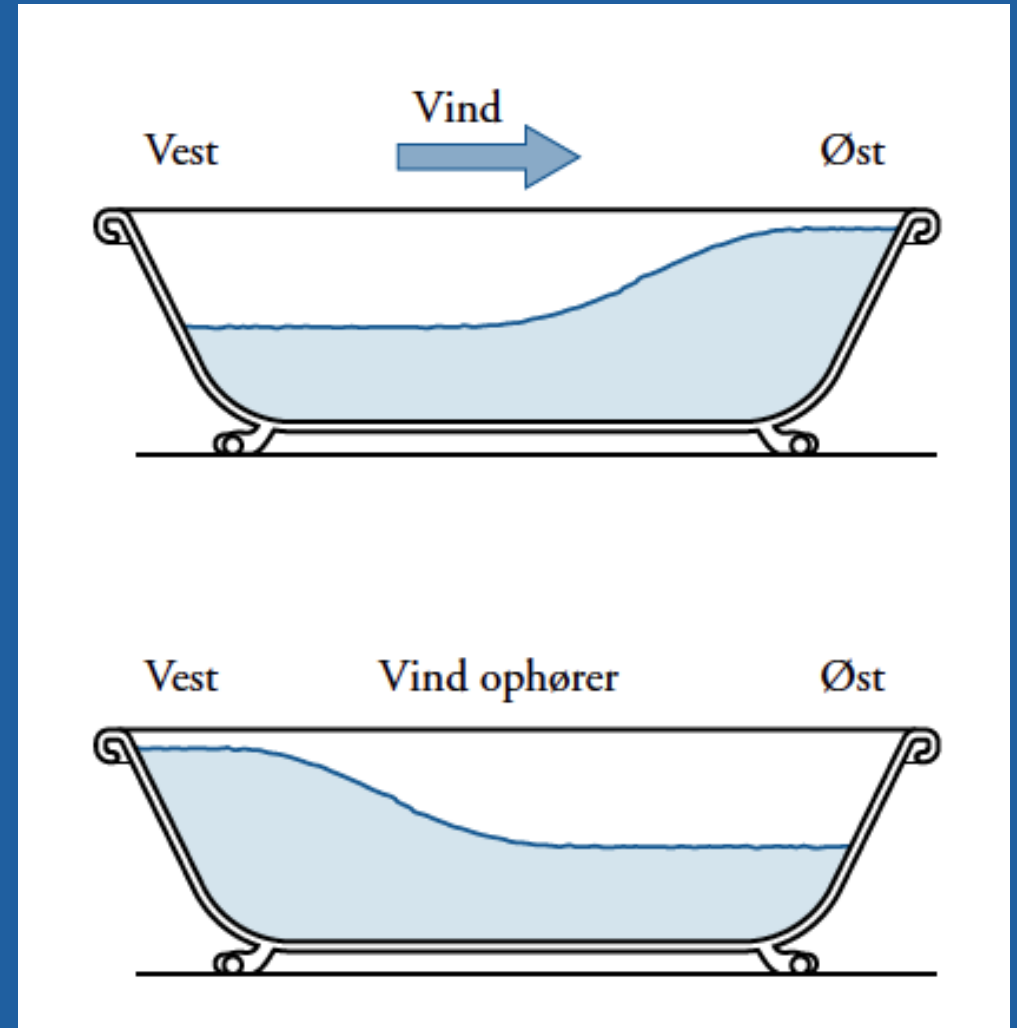
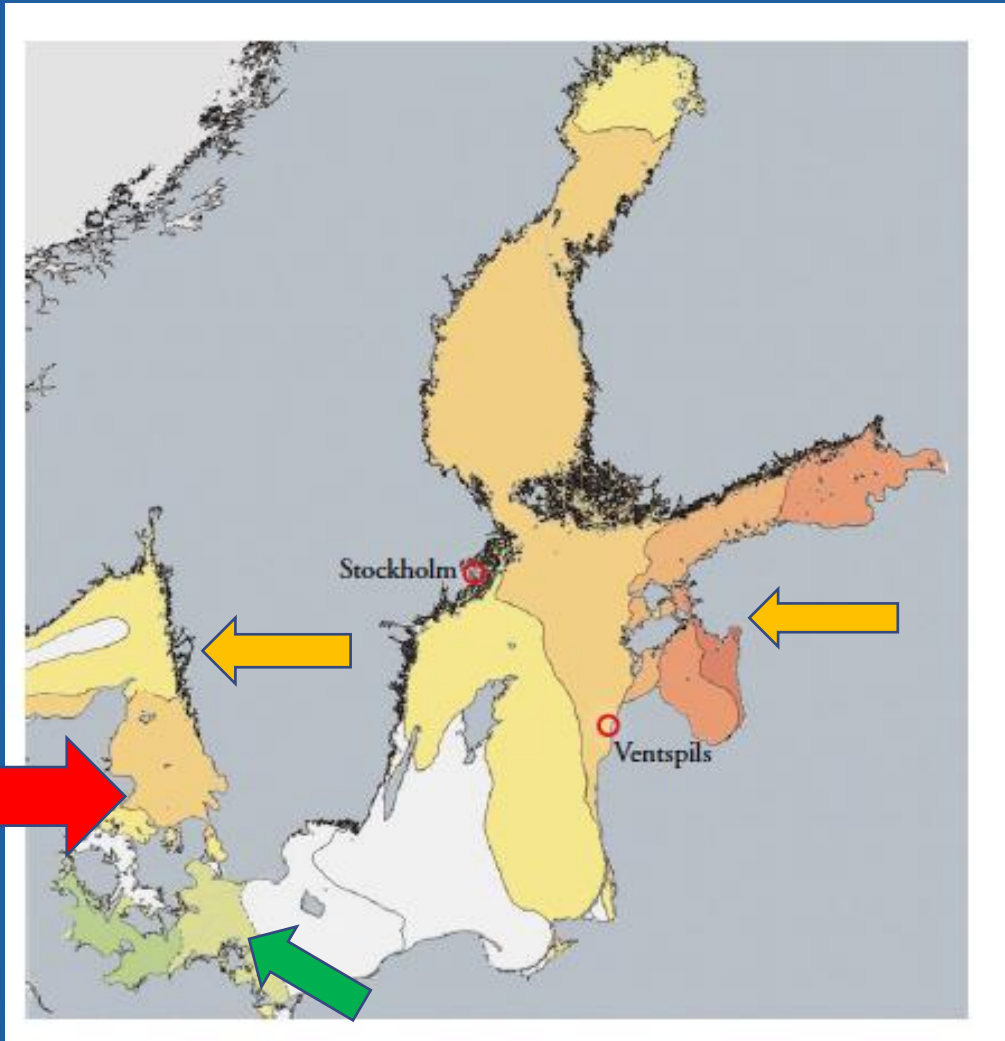
Travemünde i Nordtyskland  
1826-2019

# Maksimal vandstand

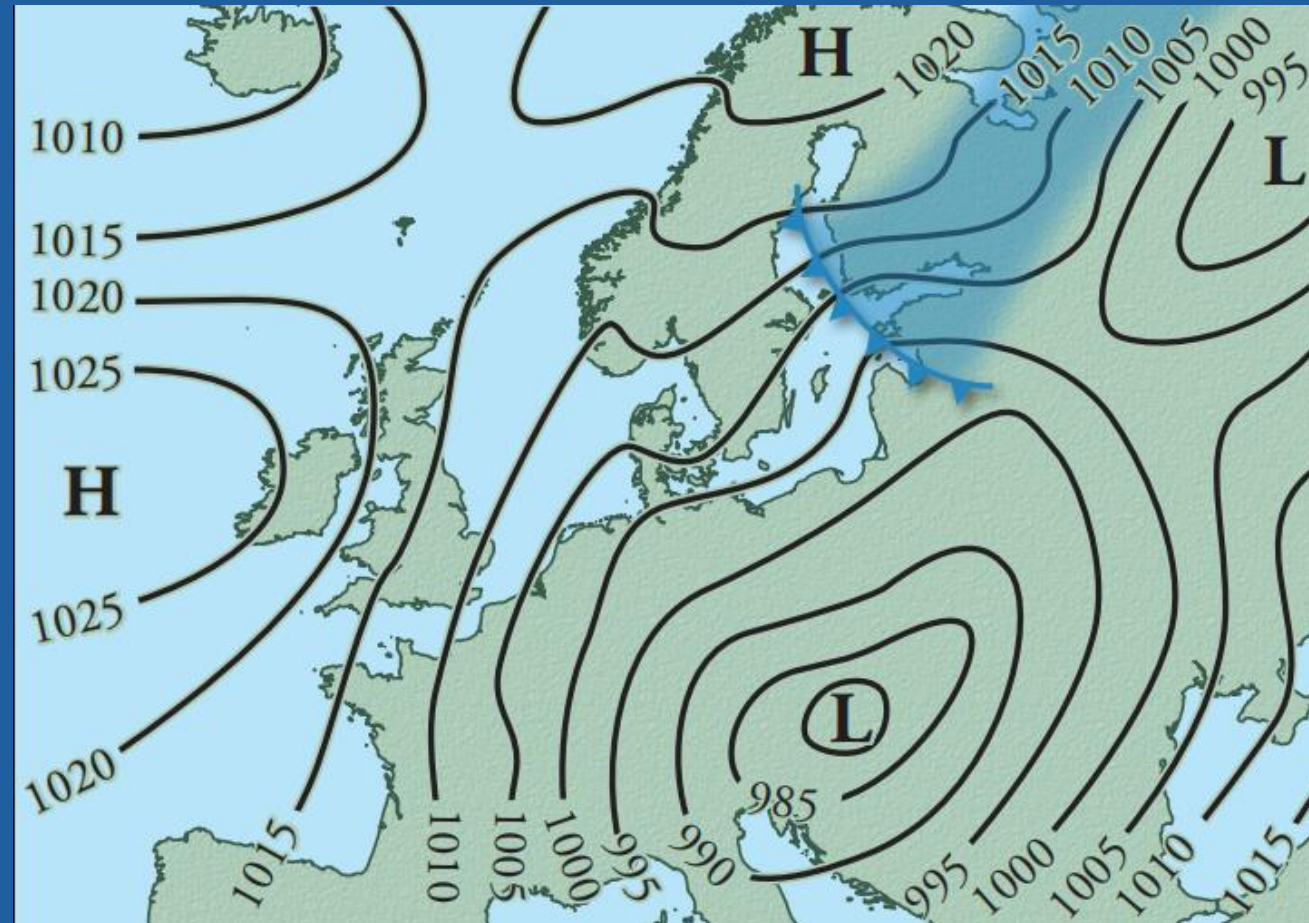
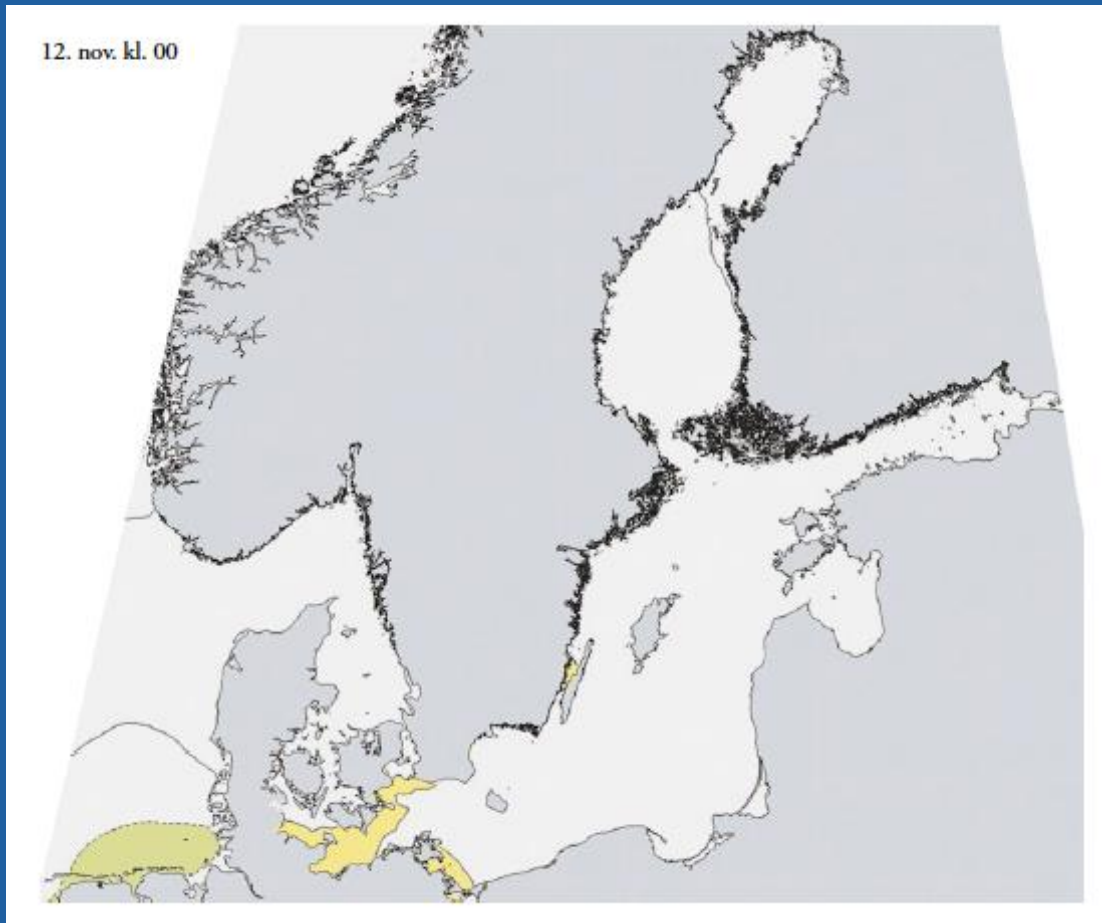




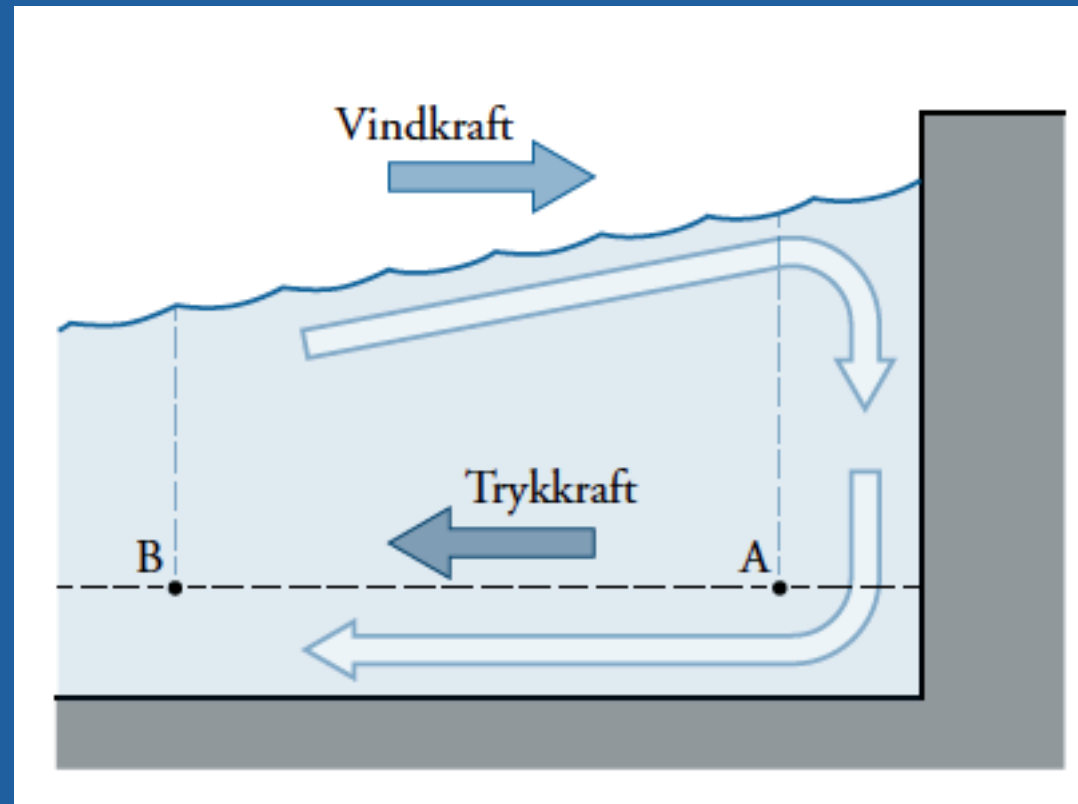
# Badekarseffekten



# Ingen opstuvning af vand mod øst

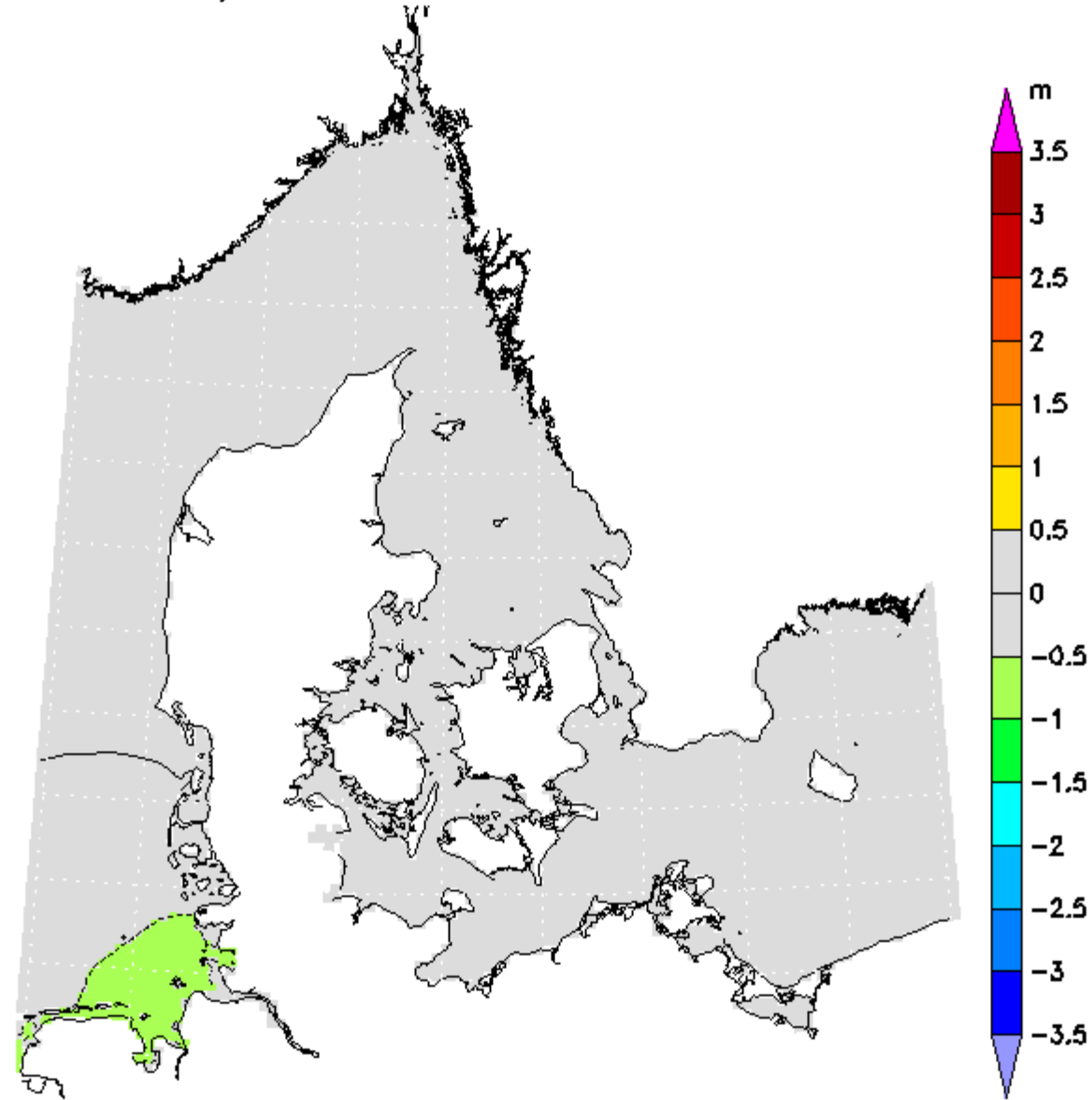


# Vindskabt højvande



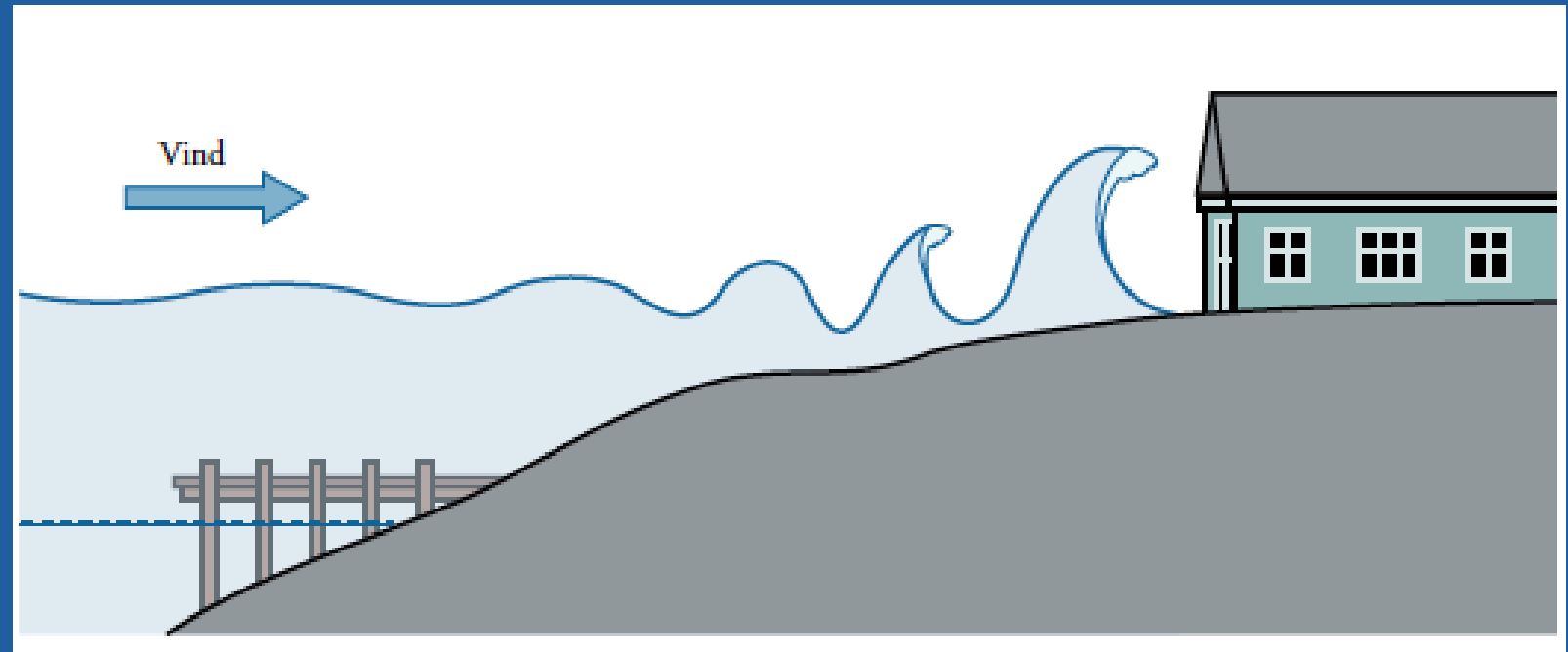
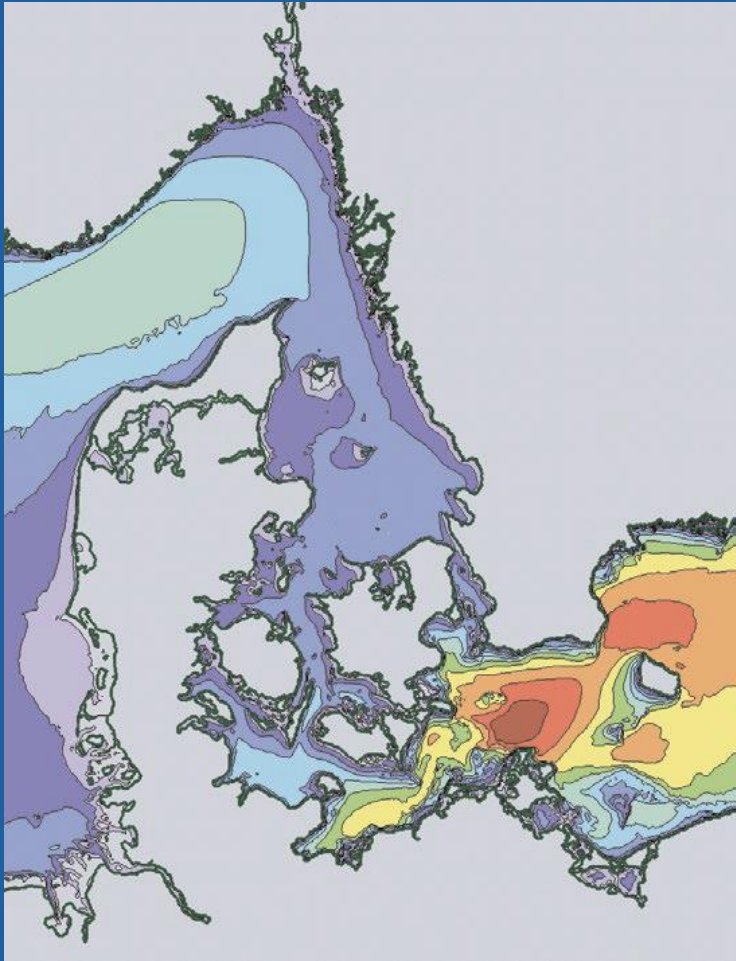
HAVNIVEAU / SEA LEVEL

1872 NOV 11 00GMT





# Bølger





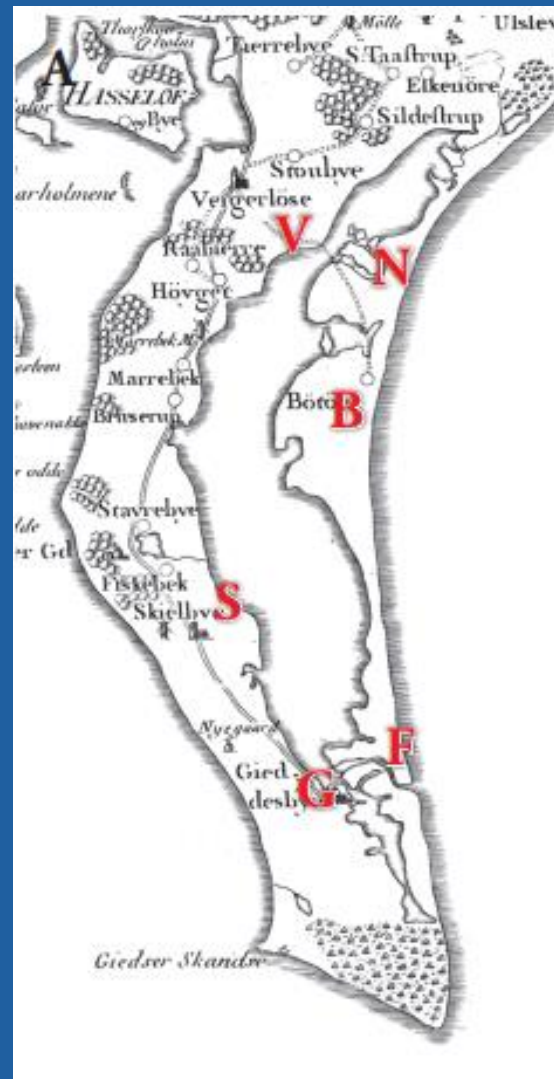
# Ødelæggelserne



En Hvalfær samt Økserne des 11de November 1822

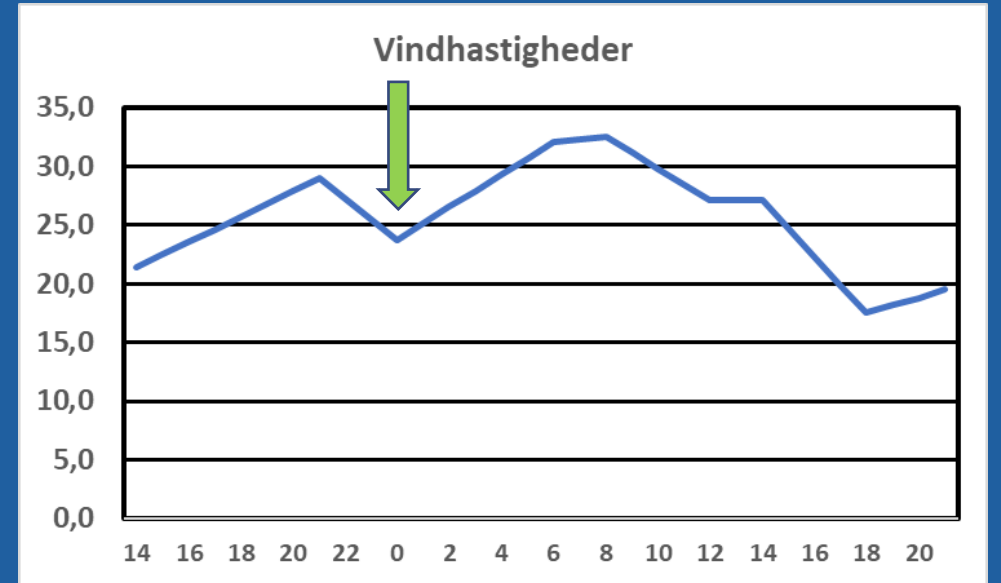
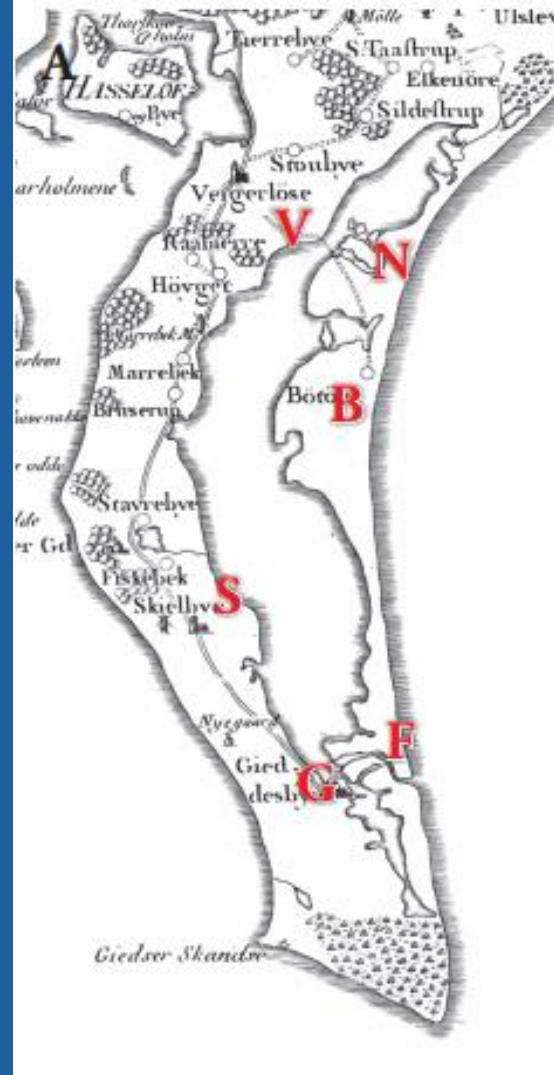


# Falster





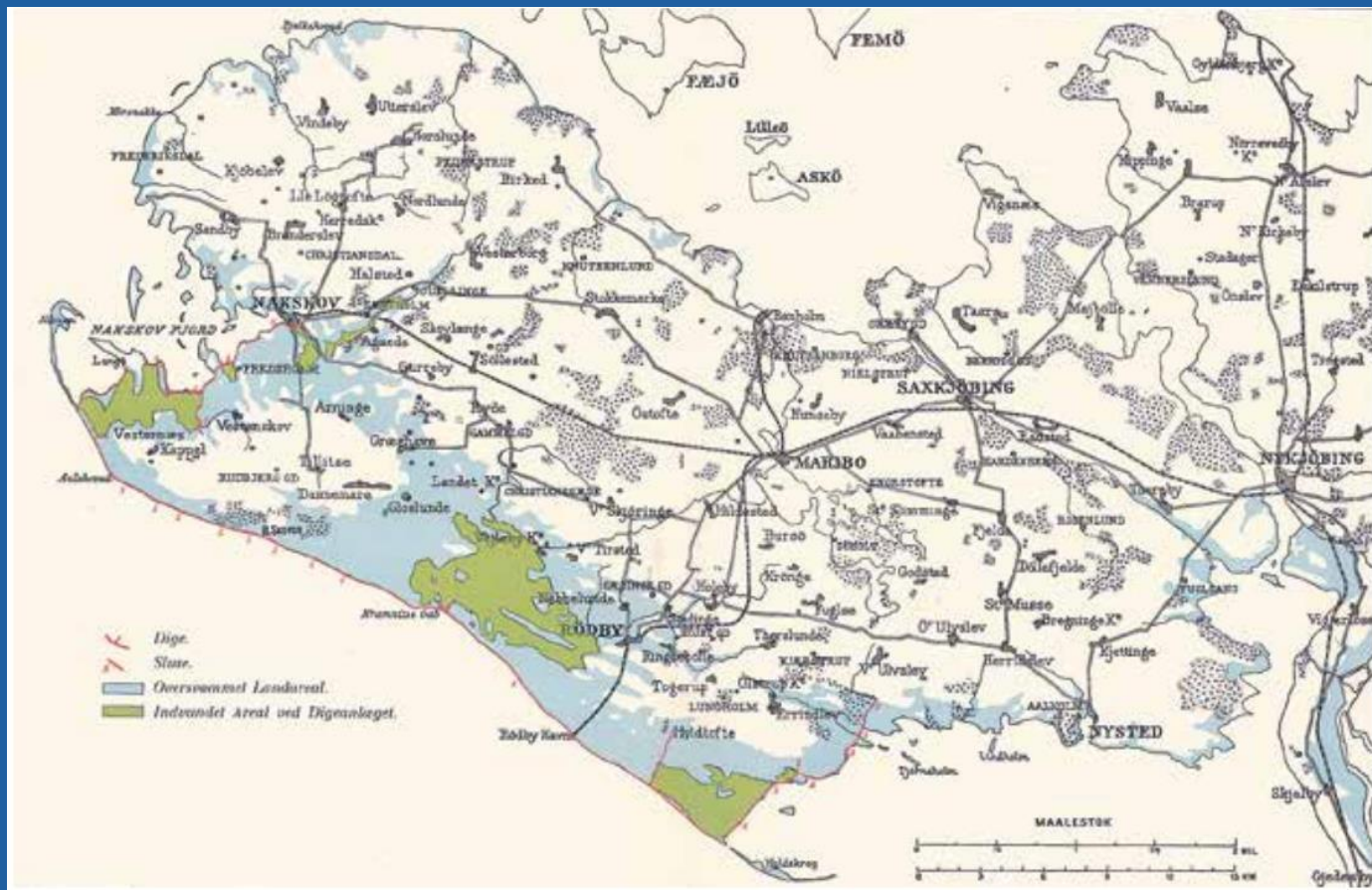
# Falster



# Corselitze

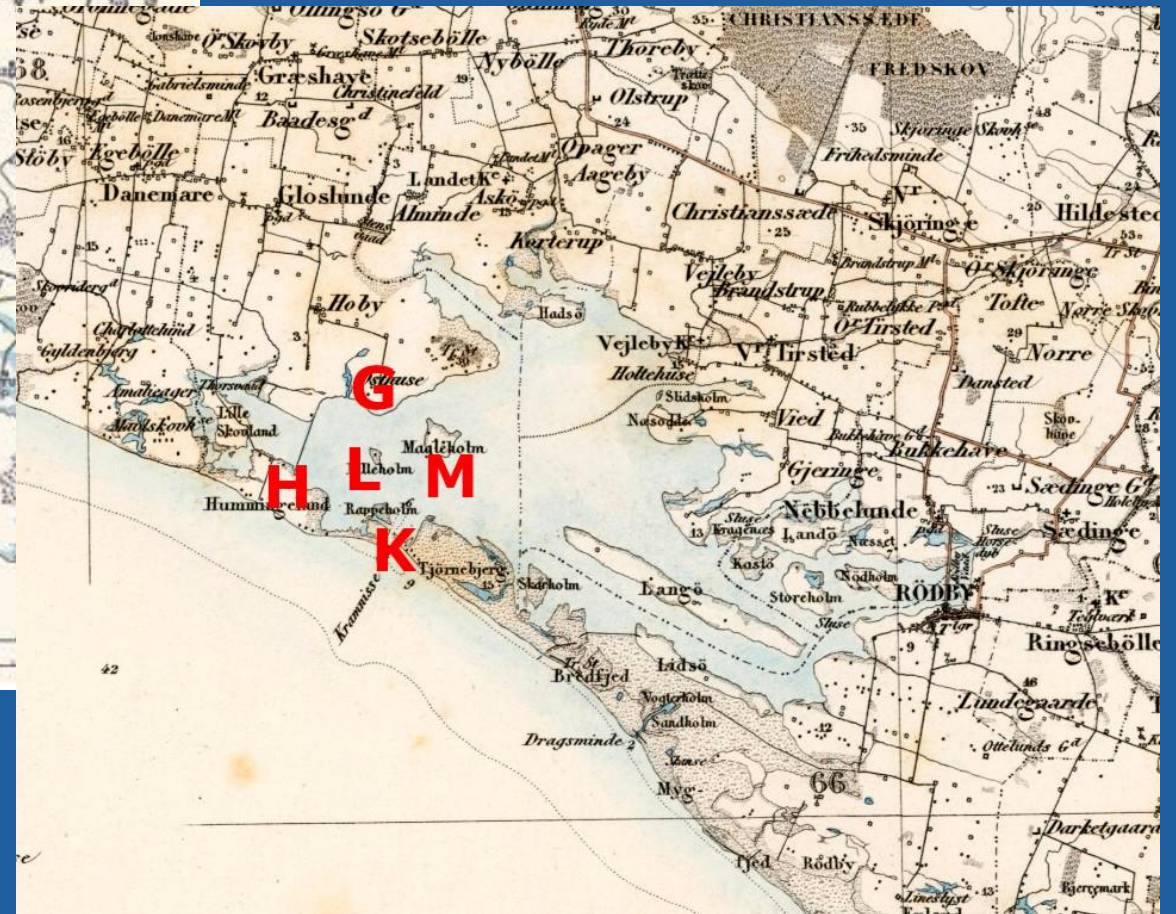
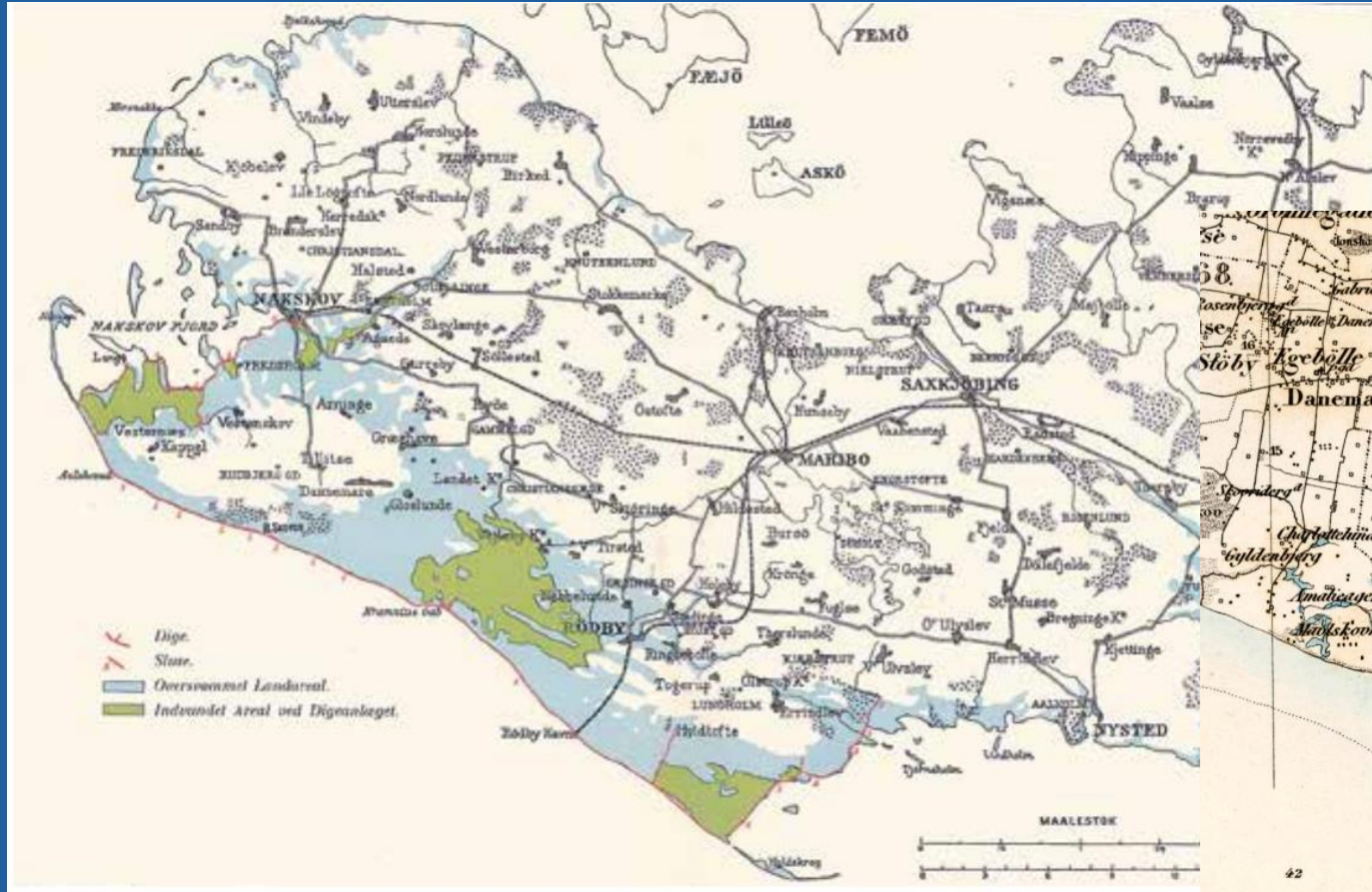


# Lolland





# Lolland





# Status: Mindst 90 druknede

- Falster: 52 personer
  - Bøtø: 26
  - Gedesby: 20
  - Skelby: 6
- Lolland: 29 personer
  - 3 familier på Magleholm, Lilleholm og Hummingen
  - 1 person i Nakskov
- Langeland: 3 ukendte børn – fra Lolland?
- Fyn: 5 personer
- Als: 2 personer

# Danmark var fattigt i 1872



**Peder Skippers hus, Gedesby**



Rasmus Buks Huus paa Fanget .

# Allinge - Sandvig





# Allinge - Sandvig



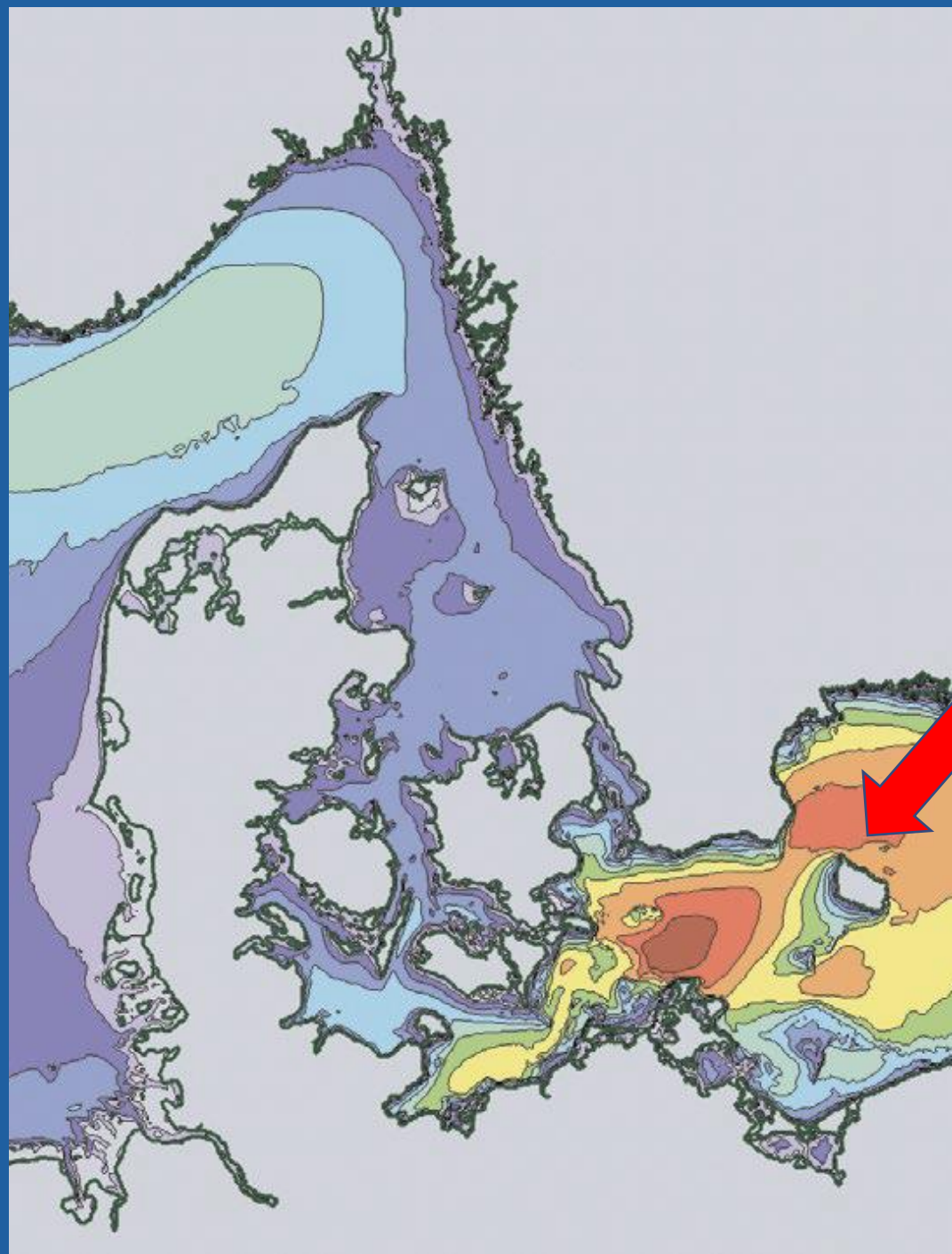


# Allinge - Sandvig





# Bølger



10 m

# Østersøen rundt

| <b>By</b>         | <b>Indbyggere</b> | <b>Skader<br/>i 1.000 rigsdaler</b> | <b>Skader<br/>rigsdaler pr. 1.000<br/>indbyggere</b> |
|-------------------|-------------------|-------------------------------------|--|
| <b>Allinge</b>    | 1.100             | 37,5                                | 34,1   |
| <b>Køge</b>       | 4.000             | 24,3                                | 6,1  |
| <b>Rødby</b>      | 1.700             | 51,6                                | 30,4   |
| <b>Nakskov</b>    | 4.000             | 13,7                                | 3,4  |
| <b>Marstal</b>    | 2.800             | 34,4                                | 12,3   |
| <b>Assens</b>     | 3.500             | 7,8                                 | 2,2  |
| <b>Svendborg</b>  | 7.000             | 5,4                                 | 0,8  |
| <b>Kolding</b>    | 7.000             | 38,9                                | 5,6  |
| <b>Haderslev</b>  | 8.000             | 3,0                                 | 0,4  |
| <b>Aabenraa</b>   | 6.000             | 53,7                                | 9,0  |
| <b>Sønderborg</b> | 6.000             | 17,0                                | 2,8  |



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# Hjælpen

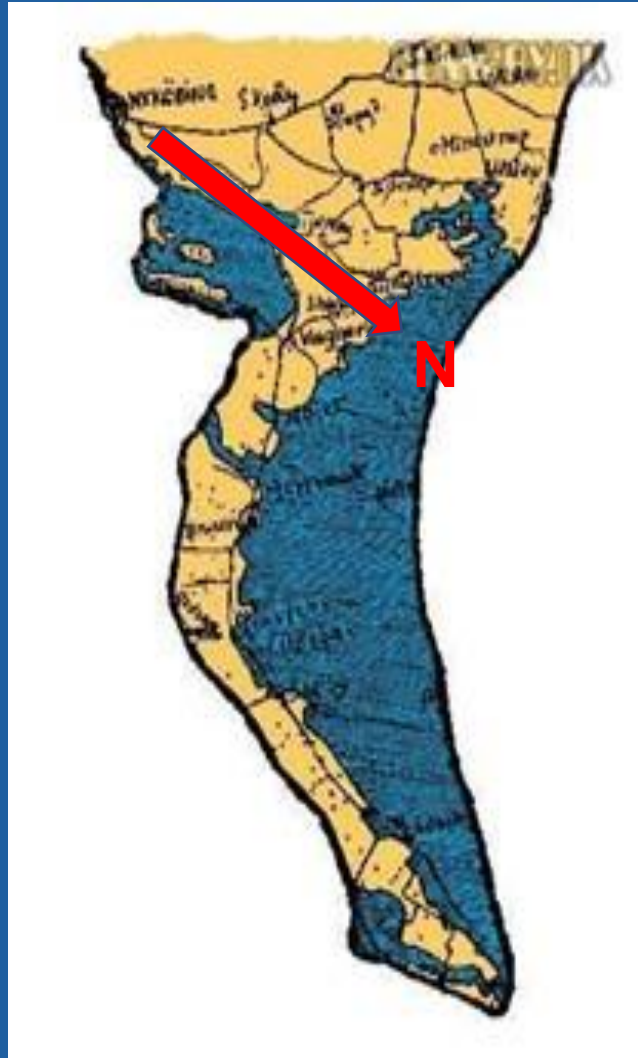
- Indsamlet **1 mio. rigsdaler** (2 mia. nutidskroner)

- Udbetalt:

| <b>Amt</b>      | <b>Udbetalt hjælp</b> |
|-----------------|-----------------------|
| Lolland-Falster | 370.000               |
| Svendborg       | 171.000               |
| Bornholm        | 82.000                |
| Præstø          | 77.000                |
| Vejle           | 41.000                |
| Odense          | 31.000                |
| København       | 28.000                |
| Slesvig         | 8.000                 |



# 41 helte - brødrene Olsen

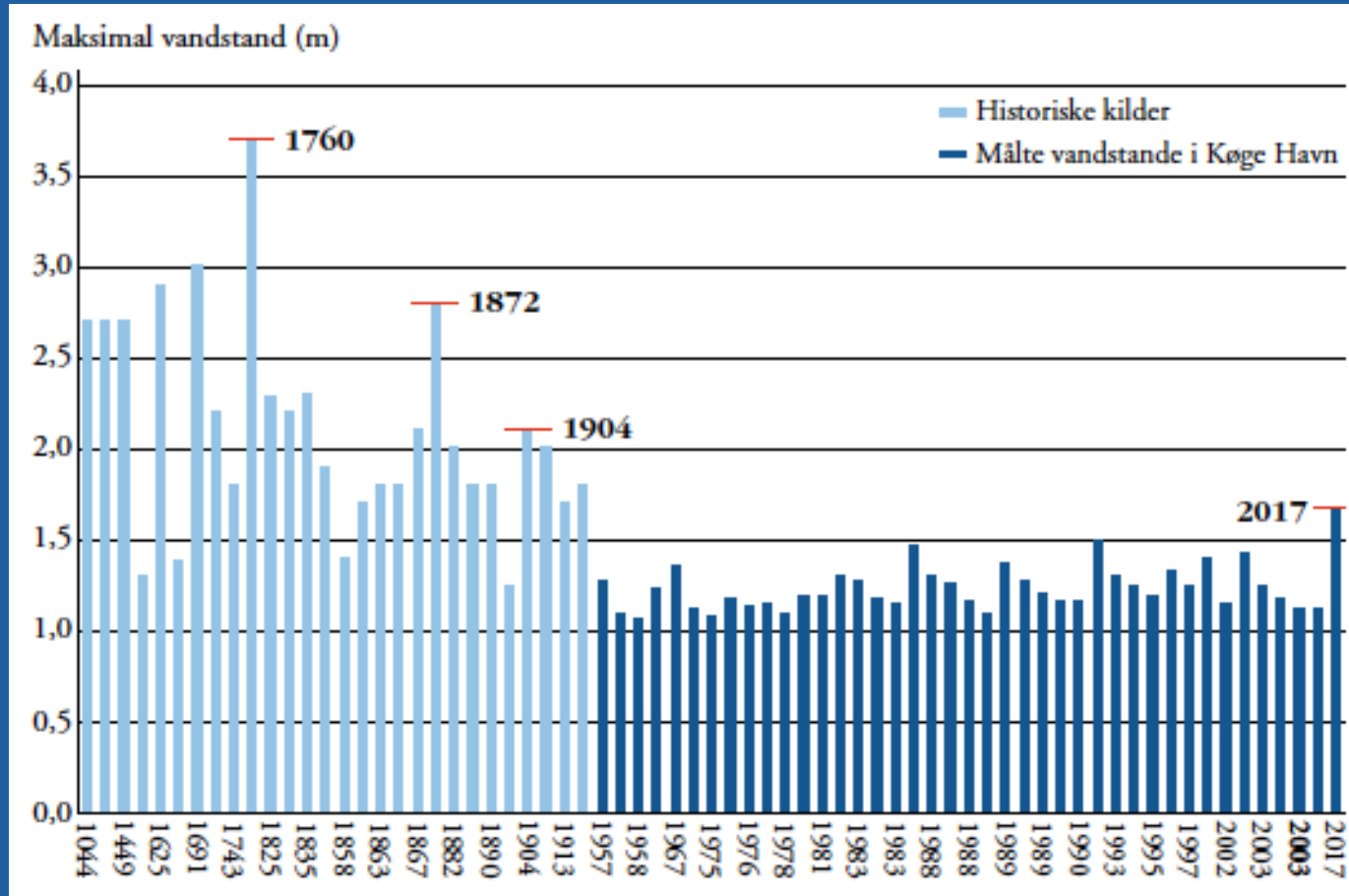


**Kan det ske igen??**

# Stormfloder forekommer med jævne mellemrum



# Superstormfloder tilbage i tiden



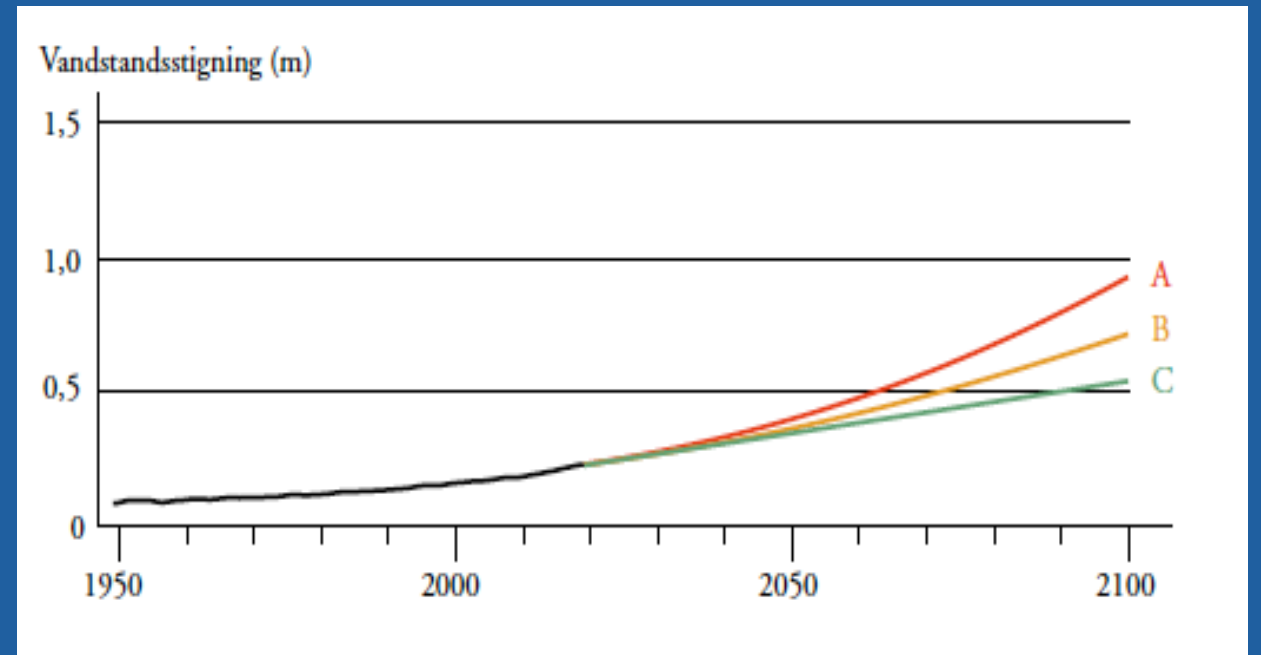
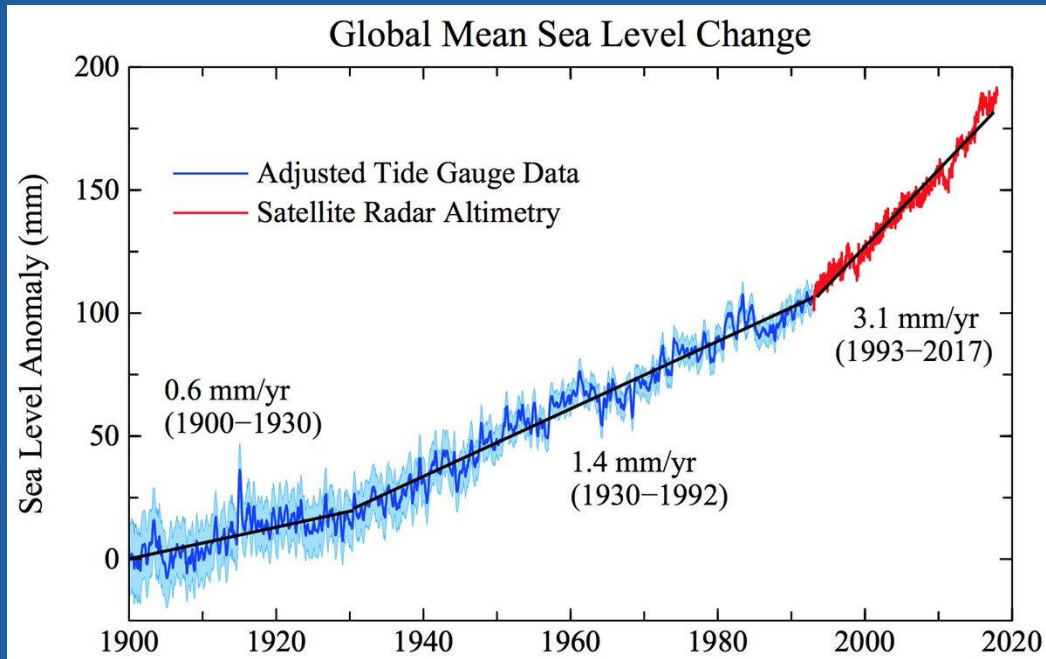


# Højvandsstatistik

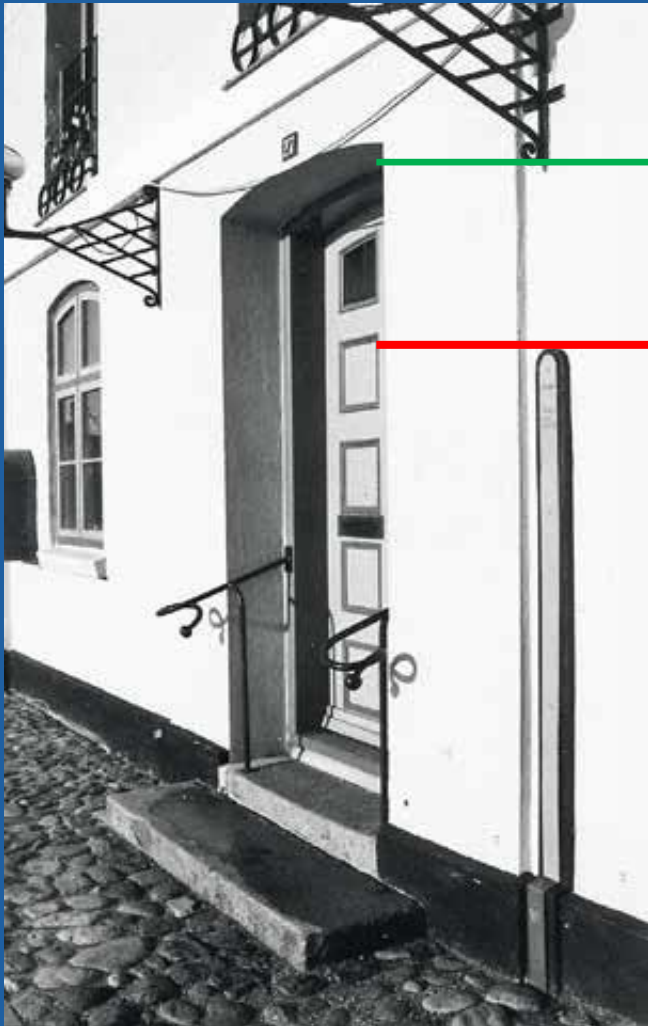
- 20 års hændelse: 1.46 m
  - 50 års hændelse: 1.74 m
  - 100 år hændelse: 2.09 m
- 
- 1872 hændelse: ca 300 år



# Effekt af klimaforandringer



# Effekt af vandstandstigning på 0.5 m



## 1. Stormflod til rød linje

- Vil "kun" kræve en stormflod på 2.5 m – vil ske oftere

## 2. 3 meters stormflod

- Vandstand vil være 0.5 m højere end rød linje – grøn linje