Federal Agency for Nature Conservation

# Ecosystem-based approach (EBA) in practice:

## An example from research projects of the Federal Agency for Nature Conservation (BfN)

**Maritime Spatial Planning and the Marine Environment**

**7th December 2015**

**Carla Kuhmann, BfN**

# Applying EBA in MSP

1. Identify and visualize spatial distribution and ecological spatial requirements of protected features
2. Identify and localize causes of endangerment
3. Formulate spatial protection requirements and transform those into MSP, i.e.
   - priority and reserve areas
   - objectives and principles

# Research projects

***MSP - Int***

Scientific foundations for the consideration of nature conservation demands in MSP

2015 - 2016

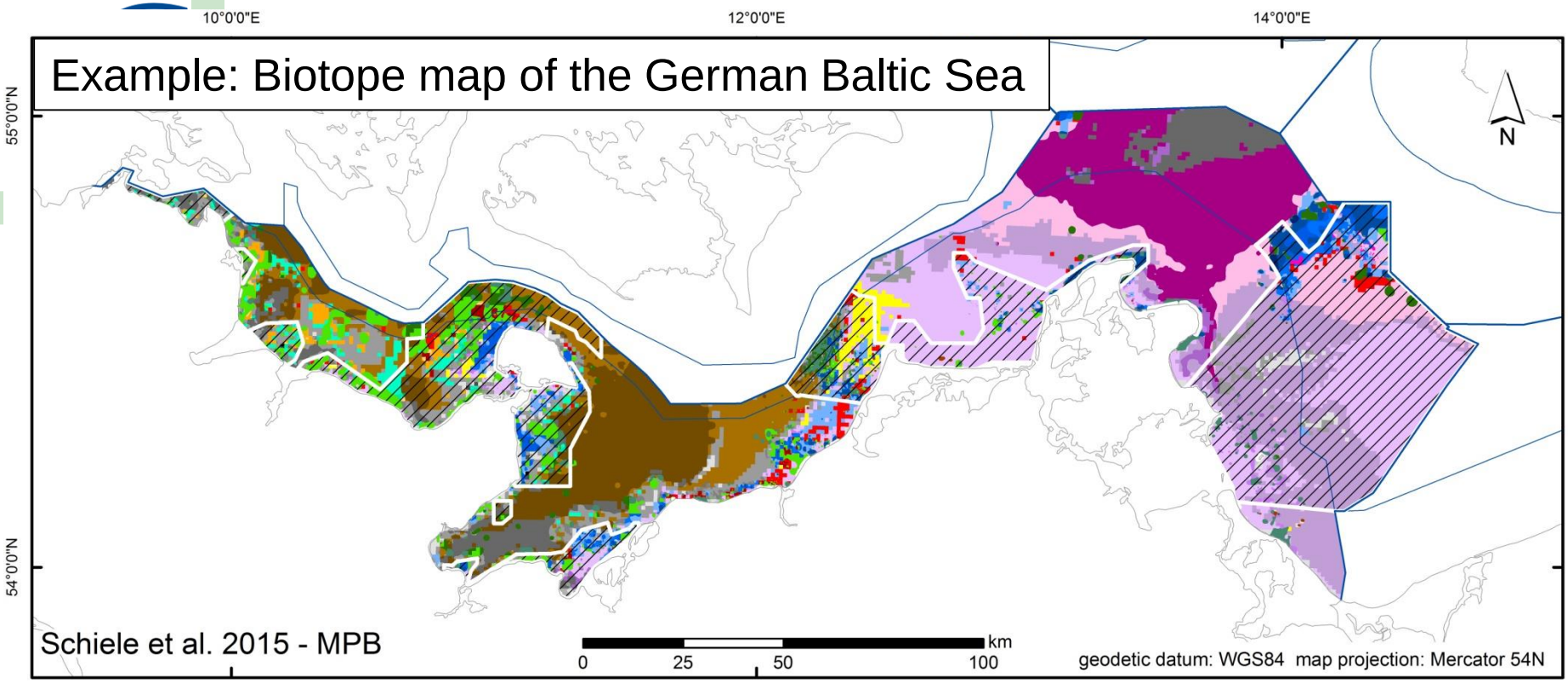
***FABENA***

Technical contribution to Geman MSP „Nature Conservation“

2015 - 2017

Supported by: Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety

# Example: Biotope map of the German Baltic Sea

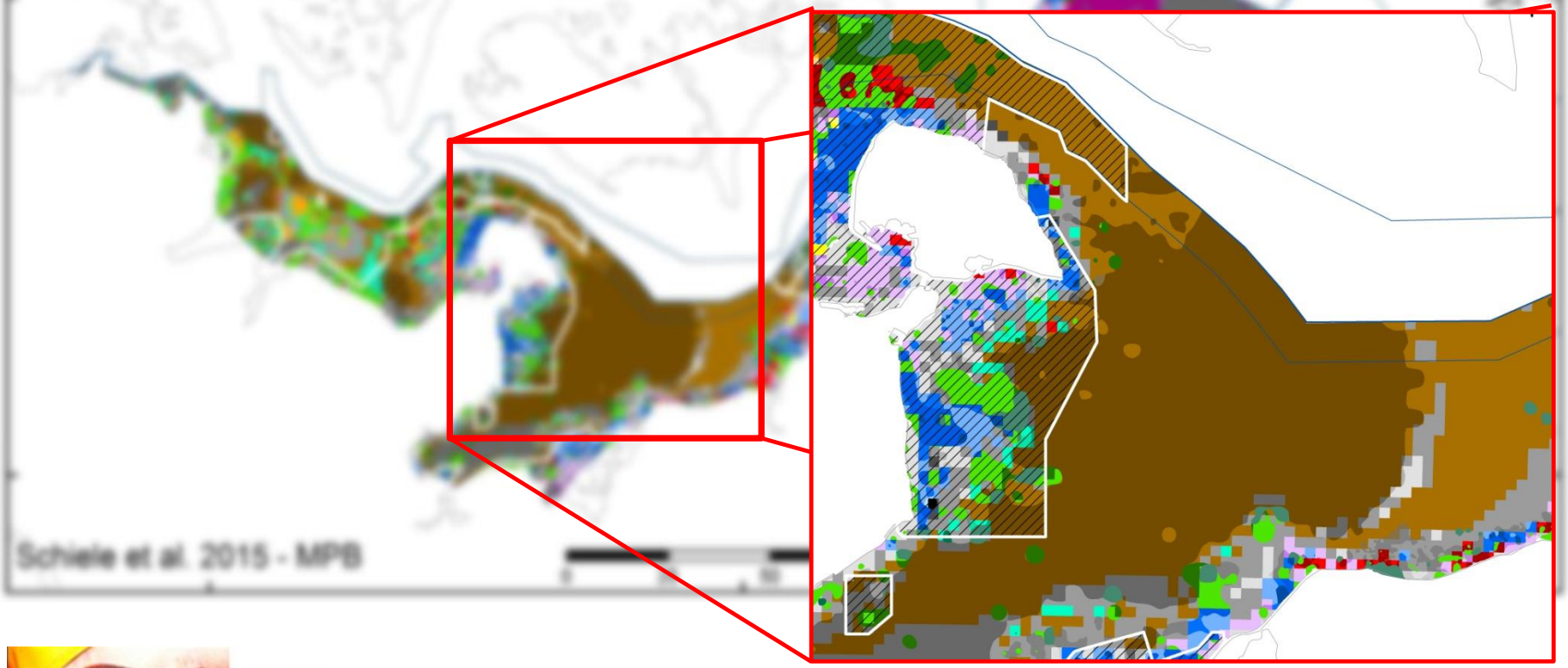


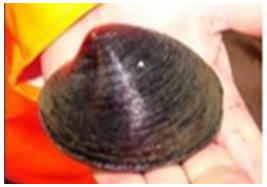

AA.I3L11
AB.I3L11
AA.J3L11
AB.J3L11
AA.H3L10
AB.H3L10
AA.I3L10
AB.I3L10
AA.J3L10
AB.J3L10
AA.H3L9
AB.H3L9
AB.I3L9
AA.I3L9
AA.J3L9
AB.J3L9
AA.H3L5
AA.I3L5
AA.J3L5
AA.H3L4
AA.I3L4
AA.J3L4
AB.J3L4
AA.H3L3
AB.H3L3
AA.I3L3
AB.I3L3
AA.J3L3
AB.J3L3
AB.H3L1
AA.I3L1
AB.I3L1
AA.J3L1
AB.J3L1
AA.H3M
AA.I3M
AA.J3M
AA.H3L
AB.H3L
AA.I3L
AB.I3L
AA.J3L
AB.J3L
AA.H3
AB.H3
AA.I3
AB.I3
AA.J3
AB.J3
AA.B1E1
AB.B1E1
AA.M*1E1
AB.M*1E1
AA.M1E1
AB.M1E1
AA.I1E1
AB.I1E1
AA.J1E1
AB.J1E1
AA.H1E1
AB.H1E1
AA.M1C/S
AA.B1
AB.B1
AA.M*1
AB.M*1
AB.M1
AA.G
AB.G

HELCOM Underwater Biotope and Habitat classification system (HUB)

marine protected area

# Example: Biotope map of the German Baltic Sea



***Arctica islandica biotopes***

marine protected area

*MSFD:* Special and predominant habitats

*HELCOM Red List:* critically endangered, near threatened

# Thank you very much for your attention!

Project partner:

Leibniz Institute for Baltic Sea Research Warnemünde

Leibniz Institute of Ecological Urban and Regional Development

C | A | U

BIO CONSULT Schuchardt & Scholle GbR

Stiftung Tierärztliche Hochschule Hannover