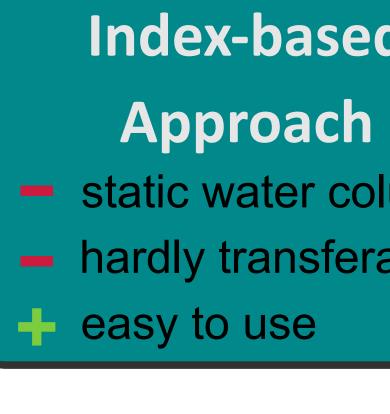


K. Kuhwald, P. Held, F. Gausepohl, J. Schneider v. Deimling, N. Oppelt



Av area







We can differentiate between seagrass covered, mixed and bare sand.

The index-based approach only works for the trained scene

Fig.4: Qualitative comparison with aerial imagery acquired in summer 2016. Large conntected seagrass patches were detected (solid circle), highly reflecting sand outshined dispersed, small seagrass stands (dashed circle).

Contact:

Dr. Katja Kuhwald Department of Geography - EOM www.eom.uni-kiel.de/ katja.kuhwald@geographie.uni-kiel.de

References:

Traganos & Reinartz (2017): Mapping Mediterranean seagrasses with Sentinel-2 imagery. Mar. Pollut. Bull. Vanhellemont (2019): Adaptation of the dark spectrum fitting atmospheric correction for aquatic applications of the Landsat and Sentinel-2 archives. Rem. Sens. Env.



patchy habitats vs. 10 m spatial resolution

KIEL

SCIENCE

MARINE

CONNECTED RESEARCH

- Sentinel-2's radiometry imperfectly suited
- atmospheric correction

Physically-based Approach

- dynamic water column
- + transferable
- complex to use

Kuhwald et al in prep.

"How does the choice of atmospheric correction influence water depth retrieval with physicallybased models?"

Water depths vary between a few cm up to 3 m. Atmospheric correction is very important.

