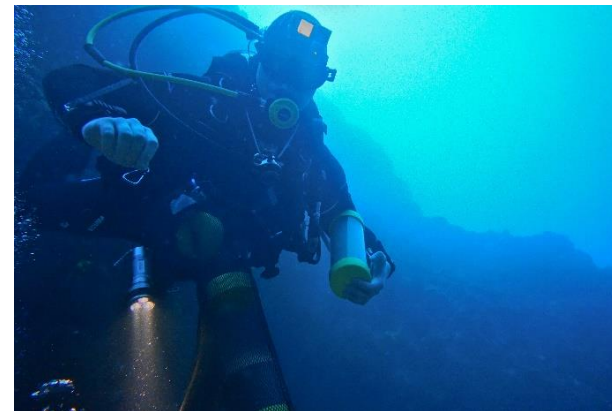


Mit RoBiMo zu einem besseren Verständnis von Gewässern

With RoBiMo to a better understanding of water bodies



M. Sc. Lisa Jarosch



With RoBiMo to a better understanding of water bodies

RoBiMo – Robot-assisted inland water monitoring



Europäische Union

RoBiMo – Robot-assisted inland water monitoring

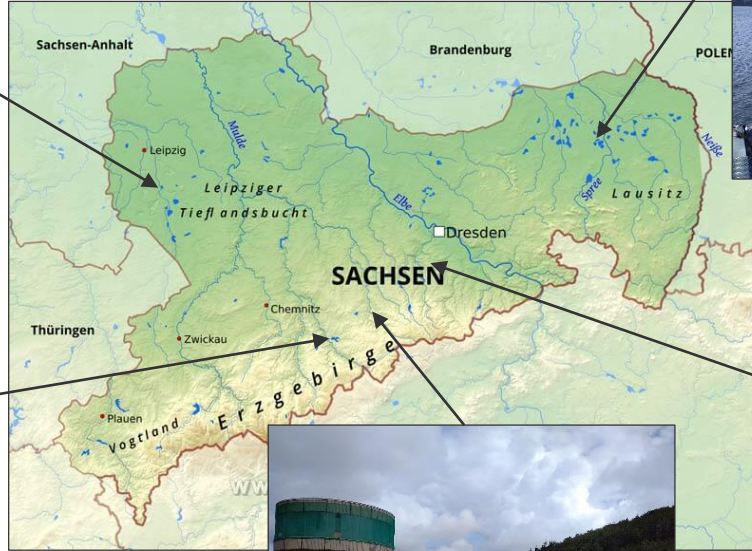
goals:

- Autonomous platform for 3D recording of water quality parameters
- Development of own sensor nodes
- Validation and further investigations by scientific divers
- Recording quality development and respiration
- Visualisation with artificial intelligence

With RoBiMo to a better understanding of water bodies



Störmthaler Lake



www.freeworldmaps.net



Storage basin Lohsa I



The Saidenbach dam



The Lichtenberg dam



The Malter dam

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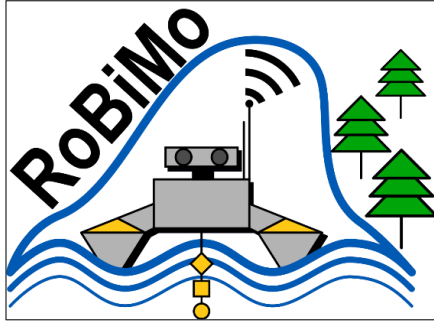


Störmthaler See [LMBV] ↑ „ferdinand“ ↓



Measurement trip on Störmthaler See

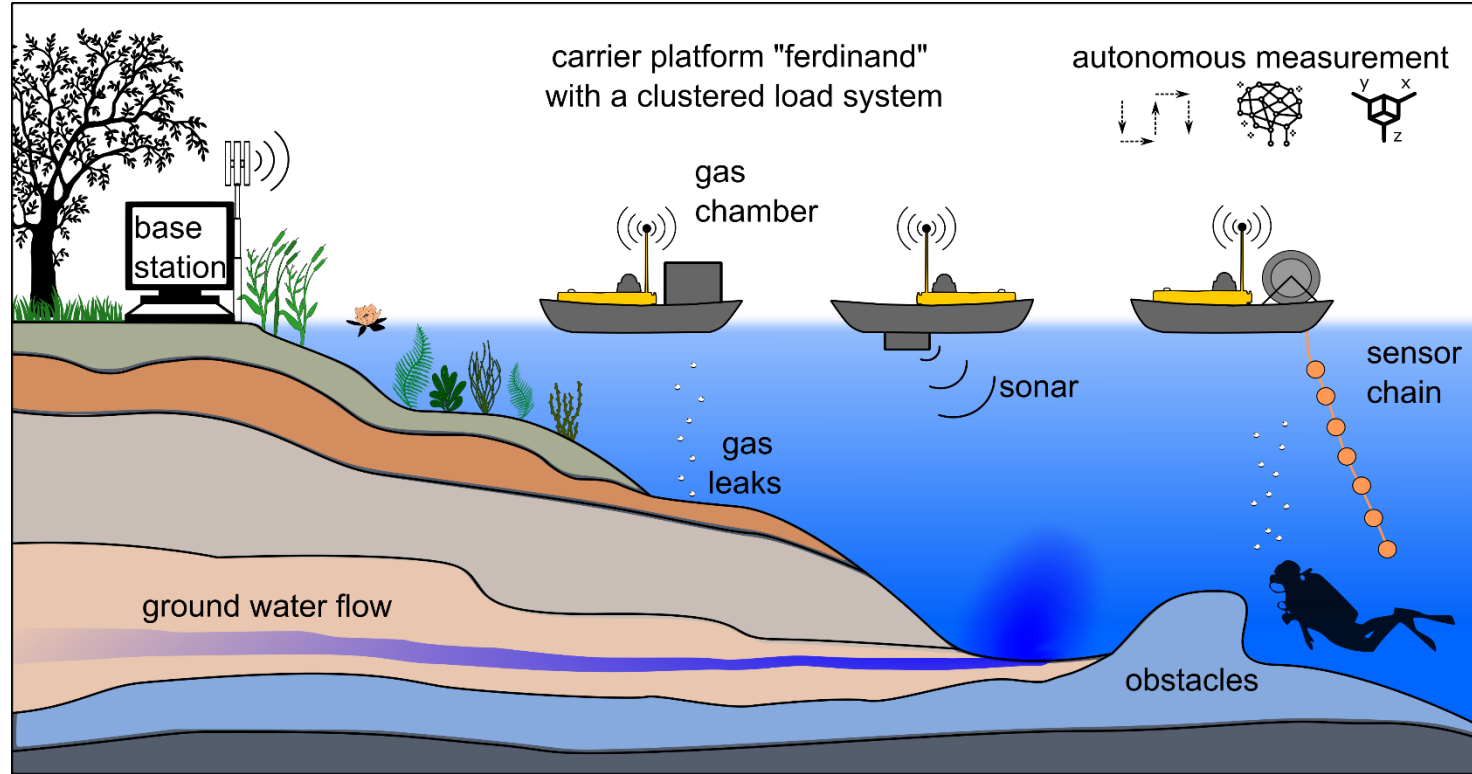
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Research team

AI and Robotics for GeoEnvironmental Modeling and Monitoring

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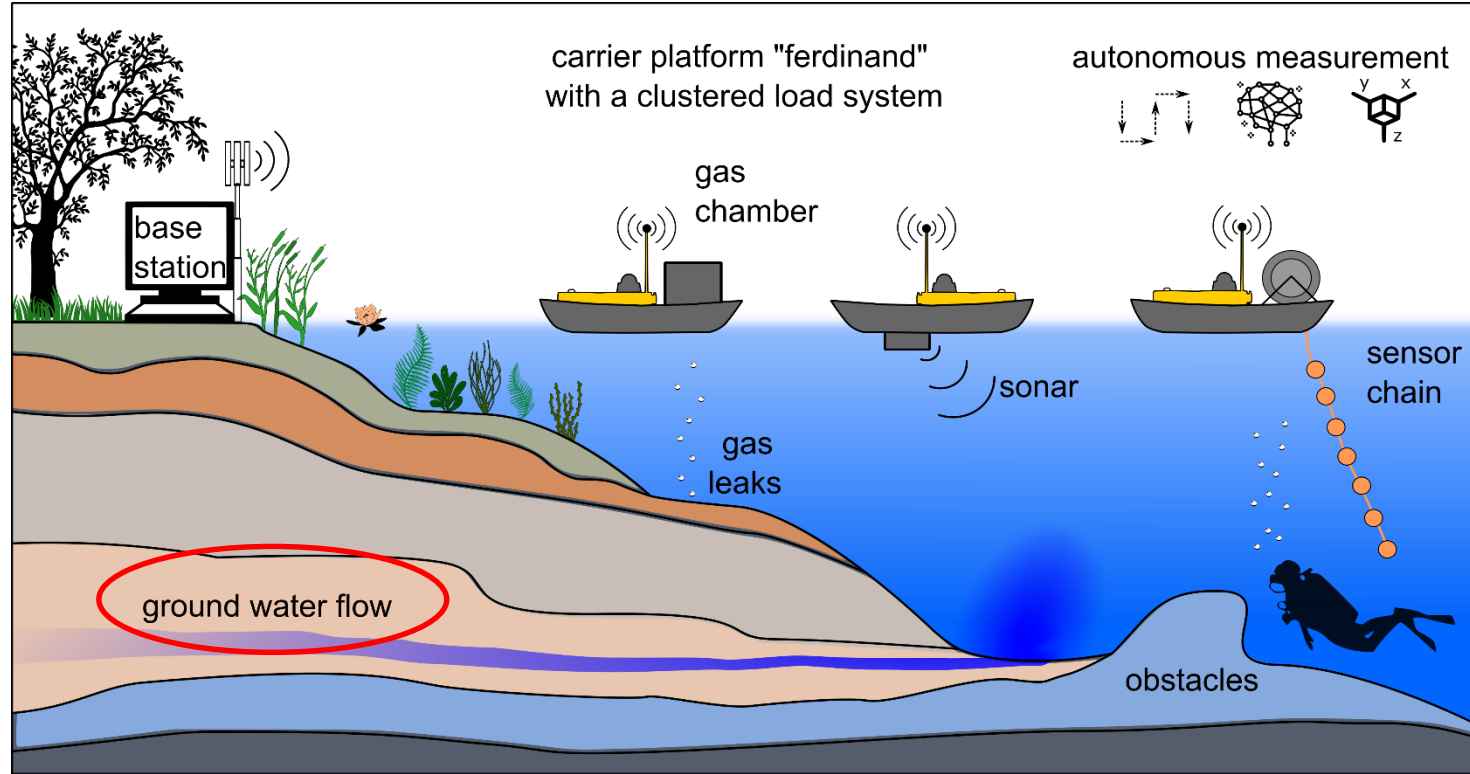


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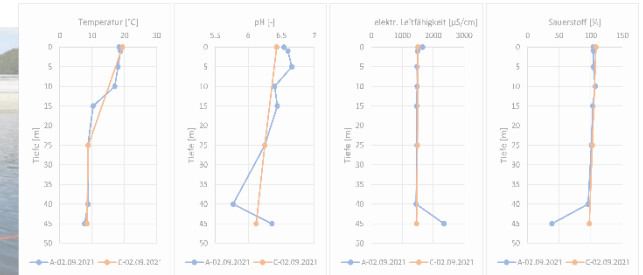
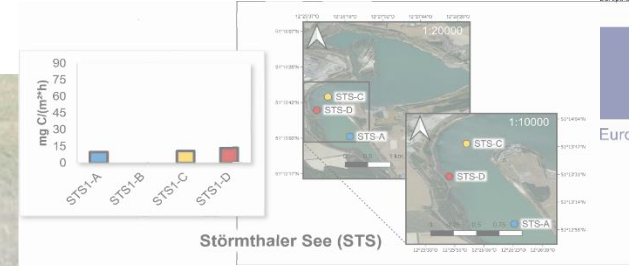
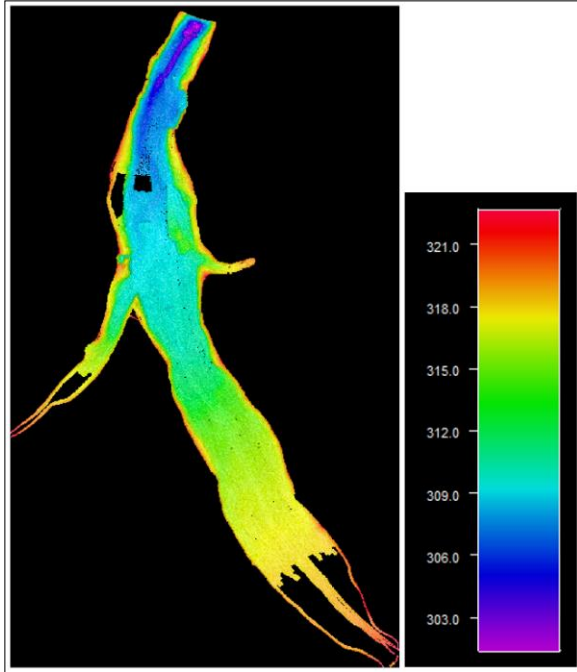


Diver with a sediment sample (left);
Photogrammetry (middle and right) [SDC]

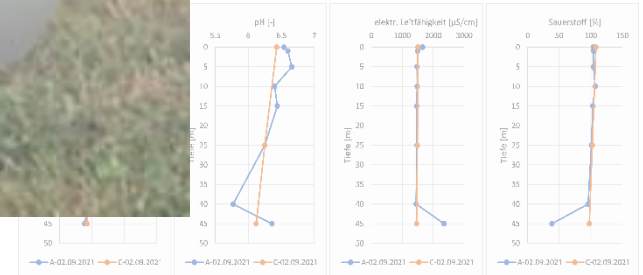
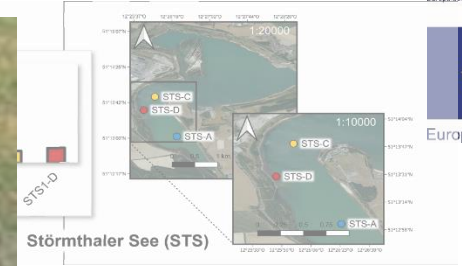
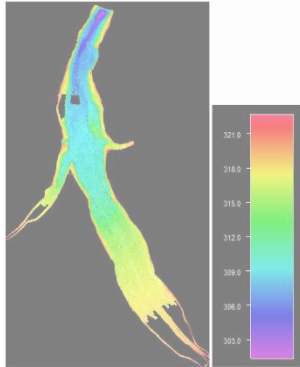
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Results so far

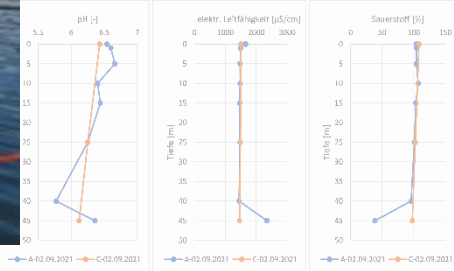
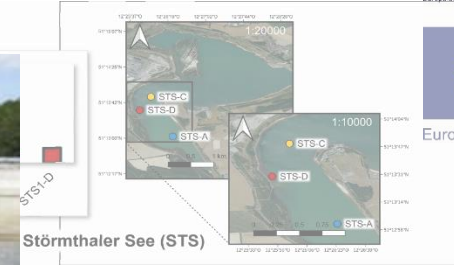
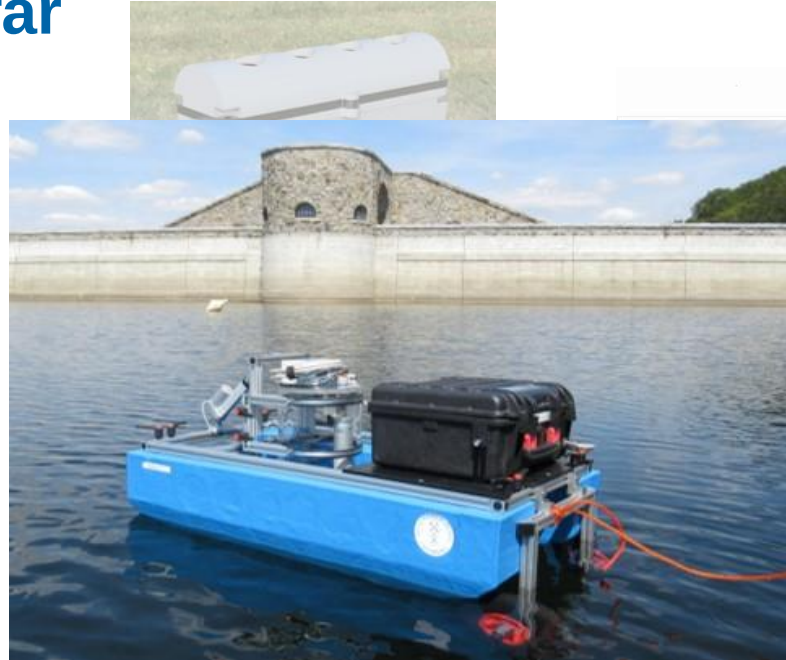
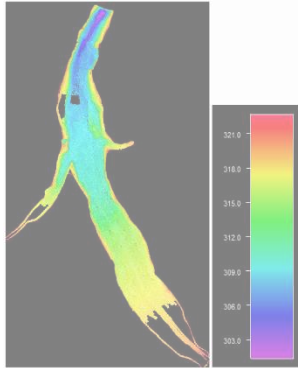


Results so far

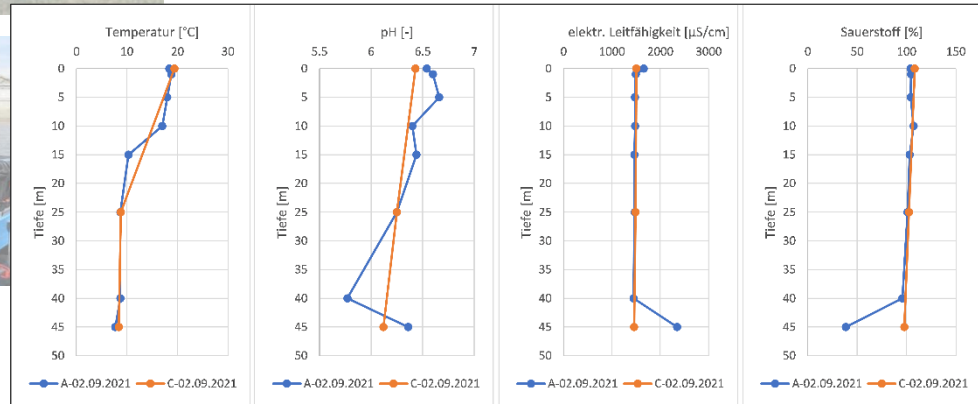
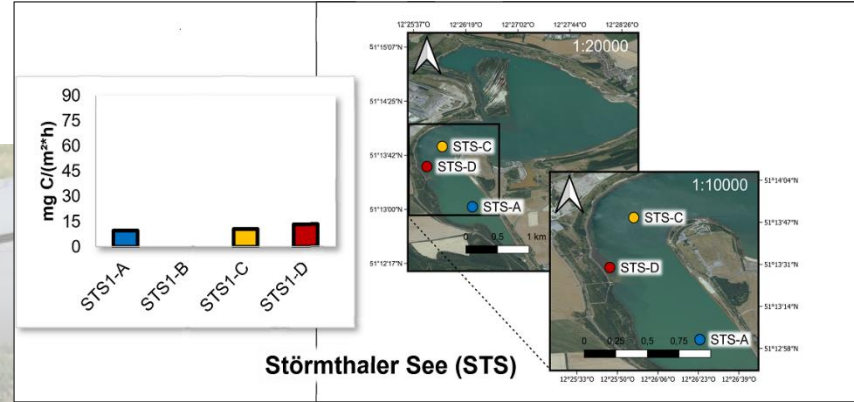
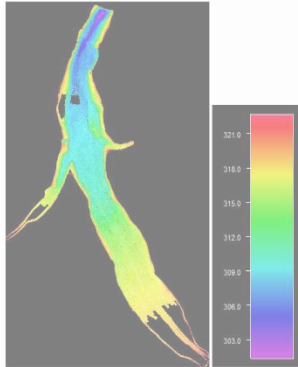


With RoBiMo to a better understanding of water bodies

Results so far



Results so far

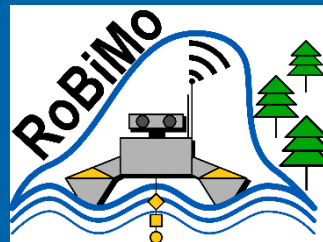




Europa fördert Sachsen.
ESF
Europäischer Sozialfonds



Diese Maßnahme wird mitfinanziert
durch Steuermittel auf der Grundlage des
vom Sächsischen Landtag beschlossenen
Haushaltes.



<https://tu-freiberg.de/en/robimo>

tu-freiberg.de



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