Microbial Monitoring with Remote ‘omics

Ben Temperton & Mike Allen
Why Time Series data matters

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Current issue with Ocean Time Series sampling
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Current issue with Ocean Time Series sampling

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£23,000 per day
A new Technological Age for Microbiology
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Remote Sensing ‘Omics

- Facilitates time-series data in new locations and depths
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- Beach water quality
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An Ocean Sampling Day, Every Day.

- Integrated monitoring of global microbial communities
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- Integrated monitoring of global microbial communities
- Massive predictive power for biogeochemistry
Challenges

• Powering devices

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• Usability
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  • Solar / Wind / Tide
  • RTGs
• Ruggedization
• Usability
• Managing the data analysis
Questions?