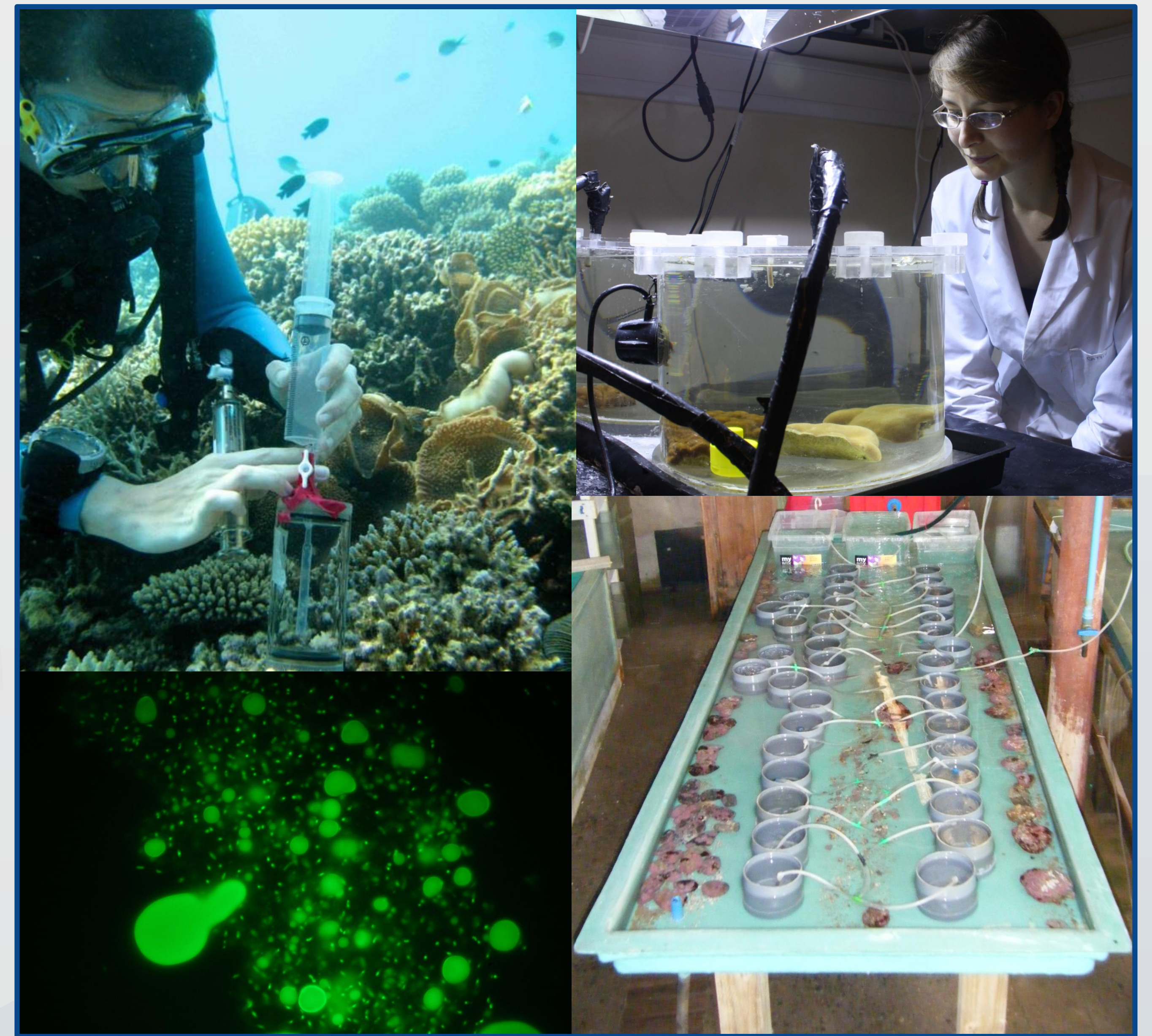


Biogeochemical drivers of marine ecosystem variability

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All marine ecosystems are naturally variable

- This can be across daily, seasonal, annual and long-term timescales.
- Knowledge of this variability is crucial for understanding the effects of stressors such as climate change.
- Biogeochemical processes drive this variability.
- We investigate these drivers and their effects, from individual organisms through to whole ecosystems.
- Focus on the carbon, sulphur, nitrogen and phosphorus cycles.



The biochemistry of individual organisms provides a mechanistic understanding of processes that affect ecosystems such as metabolism, calcification and photosynthesis.



Community-scale work provides an integrated view, placing organisms and ecosystems in a wider biogeochemical context.



Our state-of-the-art approaches provide a unique perspective on biogeochemical dynamics and ecosystem processes.