

Investigation of the release rate of biocide and corrosion resistance of vinyl-, acrylic-, and epoxy-based antifouling paints on steel in marine infrastructures

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Table S1 Specification of artificial seawater.

| Material | Concentration (gr/liter) |
|--------------------------------------|--------------------------|
| NaCl | 24.53 |
| MgCl ₂ .6H ₂ O | 5.20 |
| Na ₂ SO ₄ | 4.09 |
| CaCl ₂ | 1.16 |
| KCl | 0.695 |
| NaHCO ₃ | 0.201 |
| H ₃ BO ₃ | 0.207 |

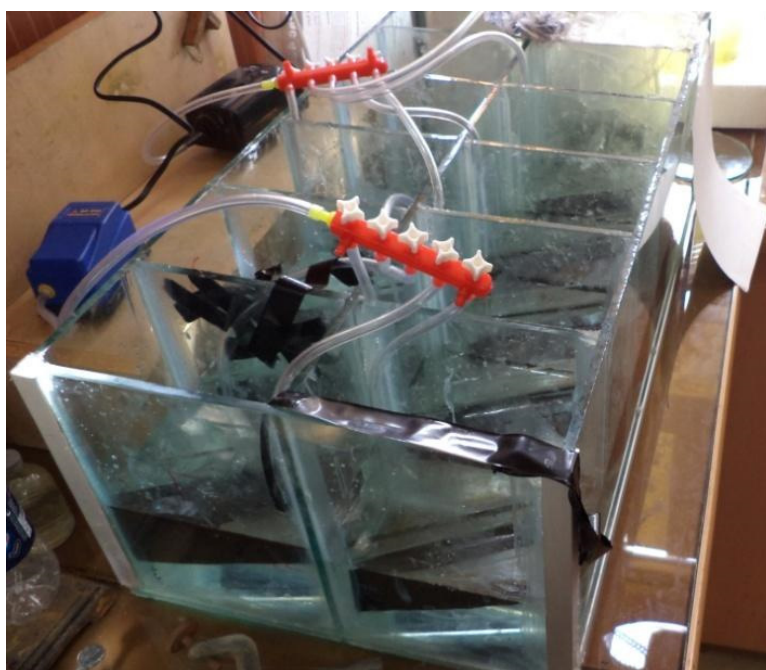


Figure S1. Real photo of the designed laboratory system.

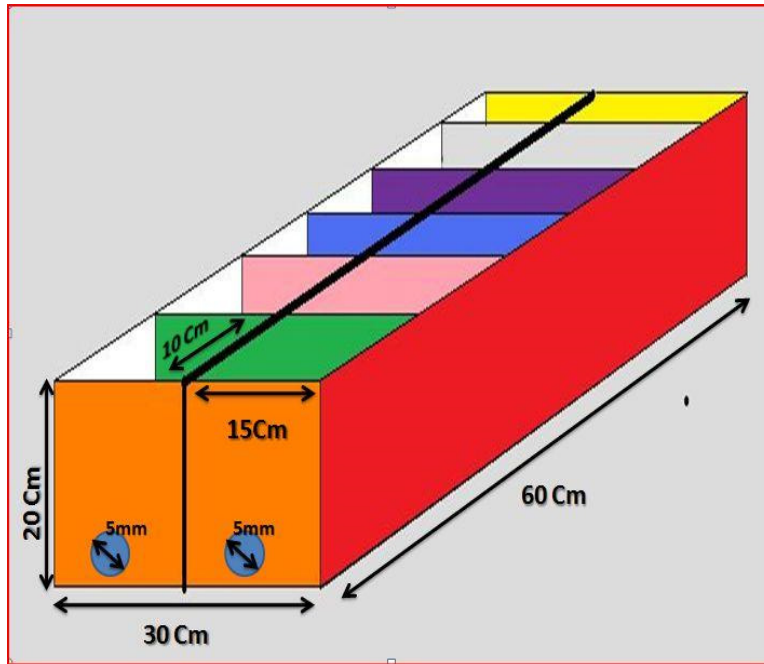


Figure S2. Schematic of the designed laboratory system.



Figure S3. Real photo of built setup for algae growth.

Table S2 Chemical composition of used water in the algae growth environment.

| Material | Concentration (gr/dm ³) |
|--|-------------------------------------|
| K ₂ HPO ₄ | 2 |
| KH ₂ PO ₄ | 3.4 |
| MgSO ₄ .7H ₂ O | 2 |
| NaNO ₃ | 0.6 |
| CaCl ₂ .2H ₂ O | 0.6 |
| NaCl | 0.5 |
| KOH | 3 |
| FeSO ₄ .7H ₂ O | 0.5 |
| H ₂ SO ₄ | 0.184 |
| H ₃ BO ₃ | 1 |
| ZnSO ₄ .7H ₂ O | 0.3 |
| MnCl ₂ .4H ₂ O | 0.05 |
| CuSO ₄ .5H ₂ O | 0.06 |
| Co(NO ₃) ₂ .6H ₂ O | 0.02 |
| Na ₂ MoO ₄ .2H ₂ O | 0.04 |