Table S1 Longitude and latitude information of 44 coral reef monitoring sites at six regions.

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| --- | --- | --- | --- |
| **Region** | **Site** | **Longitude** | **Latitude** |
| Bei Jiao | BJ1 | 111.5623 | 17.1043 |
| BJ2 | 111.5417 | 17.0838 |
| BJ3 | 111.5216 | 17.0733 |
| BJ4 | 111.4821 | 17.0566 |
| BJ5 | 111.4533 | 17.0834 |
| BJ6 | 111.4740 | 17.1012 |
| BJ7 | 111.5002 | 17.1122 |
| BJ8 | 111.5299 | 17.1182 |
| Yongxing Dao | YX1 | 112.3419 | 16.8421 |
| YX2 | 112.3322 | 16.8402 |
| YX3 | 112.3327 | 16.8294 |
| Yongle Atoll | QF | 111.6520 | 16.5780 |
| YY | 111.6800 | 16.5936 |
| SY1 | 111.7490 | 16.5300 |
| SY2 | 111.7760 | 16.5360 |
| JQ | 111.7601 | 16.4563 |
| LY1 | 111.5779 | 16.4876 |
| LY2 | 111.6007 | 16.4749 |
| LY3 | 111.6055 | 16.4360 |
| LY4 | 111.5833 | 16.4412 |
| LY5 | 111.5698 | 16.4544 |
| Yuzhuo Jiao | YZ1 | 111.9575 | 16.3234 |
| YZ2 | 111.9799 | 16.3501 |
| YZ3 | 112.0104 | 16.3618 |
| YZ4 | 112.0434 | 16.3644 |
| YZ5 | 112.0795 | 16.3565 |
| YZ6 | 112.0813 | 16.3286 |
| YZ7 | 112.0464 | 16.3341 |
| YZ8 | 112.0105 | 16.3264 |
| Panshi Yu | PS1 | 111.7672 | 16.0687 |
| PS2 | 111.7971 | 16.0743 |
| PS3 | 111.8282 | 16.0648 |
| PS4 | 111.8204 | 16.0488 |
| PS5 | 111.7903 | 16.0318 |
| PS6 | 111.7718 | 16.0322 |
| PS7 | 111.7510 | 16.0543 |
| Langhua Jiao | LH1 | 112.5936 | 16.0788 |
| LH2 | 112.5431 | 16.0759 |
| LH3 | 112.5012 | 16.0627 |
| LH4 | 112.4354 | 16.0283 |
| LH5 | 112.4691 | 16.0059 |
| LH6 | 112.5151 | 16.0138 |
| LH7 | 112.5573 | 16.0346 |
| LH8 | 112.6020 | 16.0500 |