**S1 Data. pCO2 in a transect on the reef flat perpendicular to the coast line at Wanliton.** A: sea end, B: land end.

|  |  |
| --- | --- |
| Distance from A to B | pCO2 (ppm) |
| 0 | 281 |
| 20 | 301 |
| 40 | 330 |
| 60 | 355 |
| 80 | 364 |
| 100 | 403 |