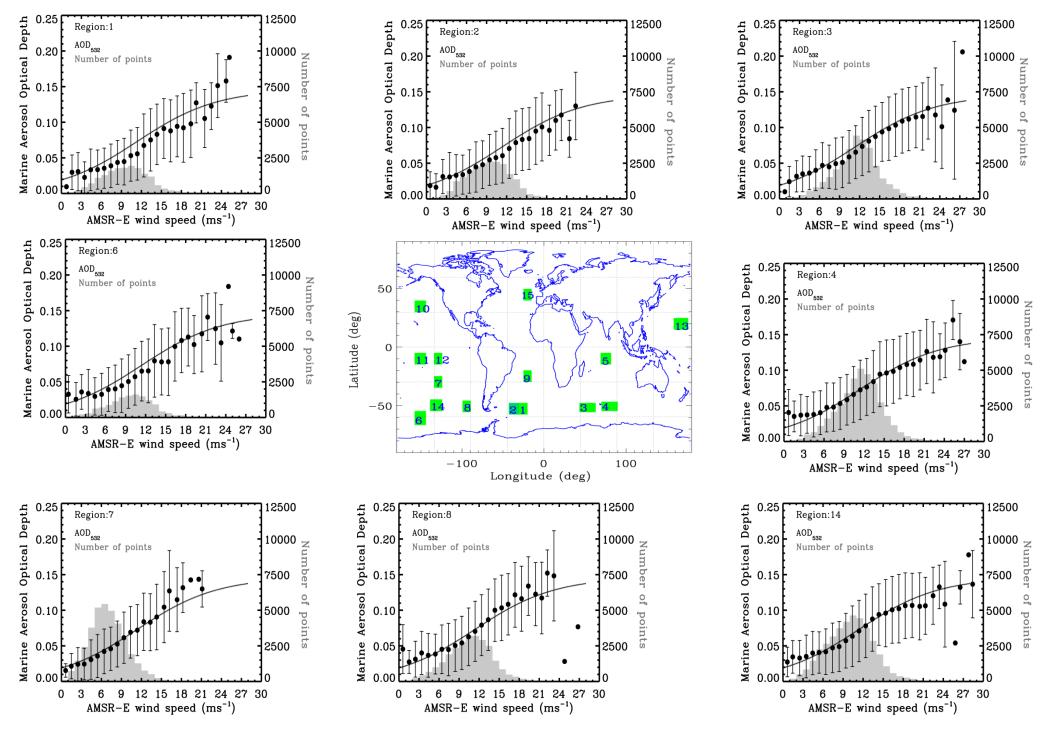
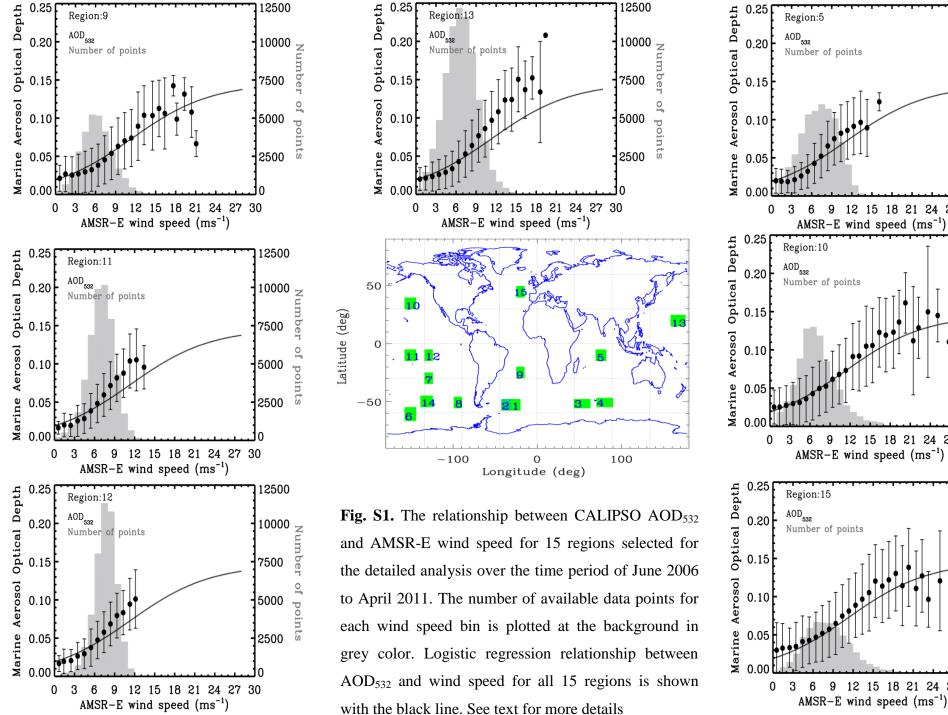
Supplementary Online Material

Table S1. Latitude and longitude of 15 regions selected for the detailed analysis

Region №	Latitude (deg)	Longitude (deg)
1	48°S to 58°S	20°W to 31°W
2	48°S to 58°S	31°W to 43°W
3	48°S to 56°S	44°E to 64°E
4	47°S to 55°S	71°E to 91°E
5	5°S to 15°S	70° E to 83° E
6	55°S to 67°S	145°W to 159°W
7	25°S to 35°S	125°W to 135°W
8	46°S to 56°S	90°W to 100°W
9	20°S to 30°S	15°W to 25°W
10	30° N to 40° N	145°W to 159°W
11	5°S to 15°S	145°W to 159°W
12	5°S to 15°S	125°W to 135°W
13	15°N to 25°N	160°E to 178°E
14	45°S to 55°S	125°W to 140°W
15	40° N to 50° N	15°W to 25°W





12500 10000 Number of points 7500 5000 points 2500 12 15 18 21 24 27 30 AMSR-E wind speed (ms-1) 12500 10000 Number Number of points 5000 2500 12 15 18 21 24 27 30 AMSR-E wind speed (ms-1) 12500 AOD₅₃₂ Number of points 10000 Number 7500 5000 points 2500 12 15 18 21 24 27 30

3

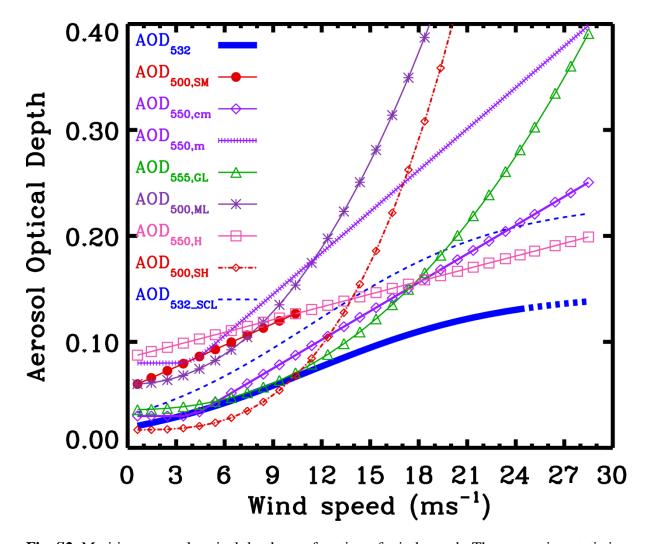


Fig. S2. Maritime aerosol optical depth as a function of wind speed. The regression statistics and the acronyms are summarized in Table 1. Thin dotted line shows CALIPSO-derived AOD (at 532 nm) with the lidar ratio of 34. See text for more details.