TABLE 5

AVERAGE ANNUAL AOT ABOVE SPM OVER THE YEARS 2000–2008

		Number of AOT Measurements				Annual AOT Measurement			
Year	Registers	470 nm	550 nm	660 nm	2130 nm	470 nm	550 nm	660 nm	2130 nm
2000	121	121	121	121	120	0.156 ± 0.089	0.135 ± 0.077	0.121 ± 0.069	0.088 ± 0.057
2001	103	103	103	103	103	0.157 ± 0.094	0.137 ± 0.082	0.122 ± 0.074	0.090 ± 0.061
2002	145	141	141	145	143	0.168 ± 0.131	0.147 ± 0.116	0.132 ± 0.106	0.100 ± 0.088
2003	123	119	118	122	120	0.175 ± 0.124	0.154 ± 0.108	0.138 ± 0.097	0.104 ± 0.080
2004	133	132	132	133	130	0.136 ± 0.093	0.119 ± 0.079	0.106 ± 0.070	0.079 ± 0.055
2005	118	117	117	118	116	0.126 ± 0.109	0.112 ± 0.096	0.101 ± 0.088	0.080 ± 0.071
2006	99	97	97	99	99	0.110 ± 0.076	0.097 ± 0.067	0.087 ± 0.060	0.066 ± 0.048
2007	119	114	114	119	116	0.151 ± 0.092	0.132 ± 0.080	0.118 ± 0.071	0.090 ± 0.058
2008	117	111	111	116	115	0.130 ± 0.084	0.114 ± 0.073	0.102 ± 0.063	0.078 ± 0.049
Average 2000–2008	1078	1055	1054	1076	1062	0.147 ± 0.103	0.128 ± 0.090	0.115 ± 0.081	0.087 ± 0.066

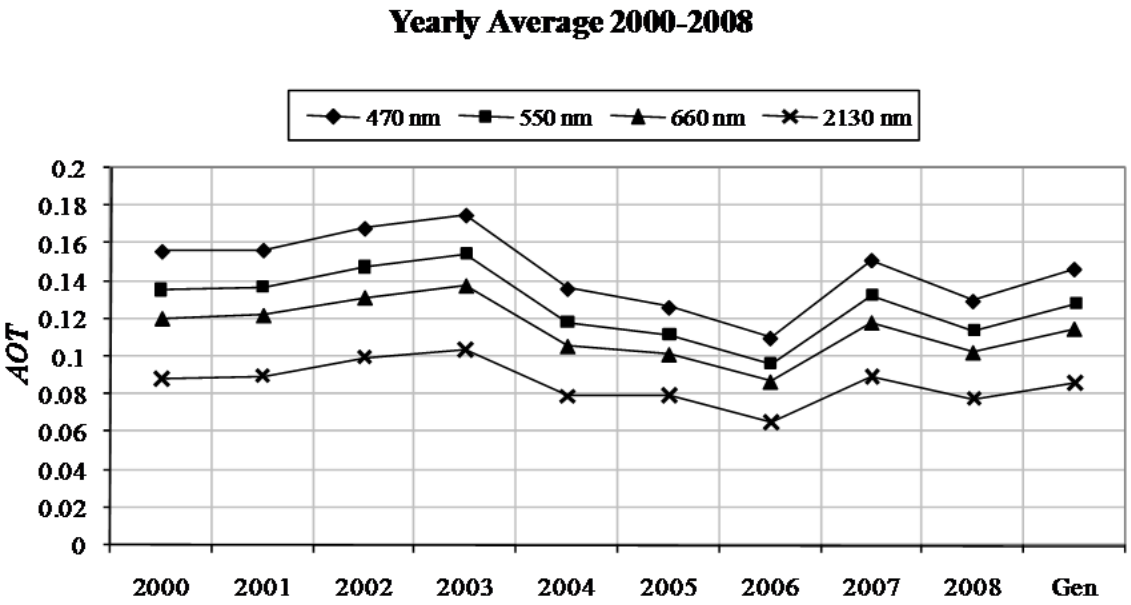

Fig. 5. Annual aerosol optical depth average at SPM at 470, 550, 660 and 2130 nm during the years 2000–2008. The color figure can be viewed online.

6.3. *Annual behavior of AOT in four wavelengths by monthly average*

In Figure 4 we show the annual behavior of the AOT by monthly average at the four wavelengths 470, 550, 660 and 2130 nm. For best comparison the AOT scale in all graphs is kept the same. By comparing the monthly AOT values we note that lowest values for the aerosol optical depth in all wavelength bands are obtained also during October and November in a consistent way through the years 2000–2008. As mentioned above, for the months of January and February there are not enough data in the studied period and mean values are less reliable.

In Table 5 we present the characteristics of the atmospheric optical depth annual measurements during the years 2000–2008 for the SPM location, together with the resulting AOT average values and standard deviation.

6.4. *Annual and general behavior of AOT*

The annual average and the general behavior of the aerosol optical depth for the SPM location for the period 2000–2008 at the four studied wavelengths 470, 550, 660 and 2130 nm is shown in Figure 5.

6.5. *AOT Climatology (2000 – 2008)*

We conclude that MODIS data obtained during the 2000–2008 of the San Pedro Mártir astronomical site in Baja California, Mexico yield an AOT climatology with the values presented in Table 6.

The final results could be compared with other sites in the globe. Gupta et al. (2006) presented