Coastline as triple boundary among atmosphere, ocean and earth

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Coastline is the boundary between ocean and land (earth beyond the sea level), and the liquid-solid heat contrast there produces monsoon or sea-land breeze circulation responding revolution (annual) and rotation (diurnal) periodicity of solar heating. The coastline is also the intersection between ocean surface and bottom, and its location is determined by water budget and erosion-orogeny balance. Furthermore, the coastline is the most active ecological (and also anthropogenic) zone. Based on these geoscientific meanings of coastline, we discuss climatological characteristics of land-sea coexisting planet such as earth.

Keywords: atmosphere-ocean-land interaction, monsoon and local circulation interaction