Among the various aspects of climate research, sea level change and variability is a perfect example of interdisciplinary research topic. It involves an incredibly large number of disciplines in geosciences: oceanography, atmospheric sciences, glaciology, hydrology, solid Earth physics, remote sensing, and even geology and geochemistry for paleo sea level. For example, studies of (present-day) global mean and regional sea level variations deal with ocean heat content and circulation changes, ocean-atmosphere natural modes of variability, land ice melt and ice sheet dynamics, land hydrology, solid Earth physics (including the viscous mantle response to last deglaciation). Precise measurements of sea level changes from space also need expertise in remote sensing techniques, precise positioning and orbitography, instrumental technology, etc. In addition, studies of sea level rise impacts in low-lying coastal regions imply multidisciplinary approaches, ranging from climate research to geology and sociology. The presentation will discuss these interdisciplinary characteristics of sea level research and the difficulties encountered to bring research communities from totally different horizon.