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- Global mean sea level rise will accelerate during the 21st century in response to ocean thermal expansion and glaciers/ice sheet melting (Church et al. 2013).
- Sea level rise causes physical impacts such as permanent/temporal inundations (including floods), coastal erosion, destructive storms, and saltwater intrusion.
- It is essential to monitor sea level changes and its impacts on coastal communications.
- Coastal zones have changed progressively along the history with urbanization, populations, economies, etc.









• From satellite altimetry and tide-gauges data.

Altimetric data sets:

- All-sat-merged MSLA gridded data in delayed time (from AVISO).
- Daily data at 0.125° x 0.125° grids.
- Time span: from 1 January 1993 to 31 May 2014.
- Reference period : 1993 2012.



THE BLA	CK SEA	MEAN SEA	LEVEL
ide-gauge me coast better.	easurements	reflect the varic	itions particular
		having long-tern n Sea Level (PSM:	
Permanent Ser	vice for Mea	n Sea Level (PSM	SL).
Permanent Ser	vice for Mean	n Sea Level (PSM: Time-span	SL). Trend (mm/year)















