





Class 10.1- Playing with the Matrix for Ecosystems and Services. Practical Activity

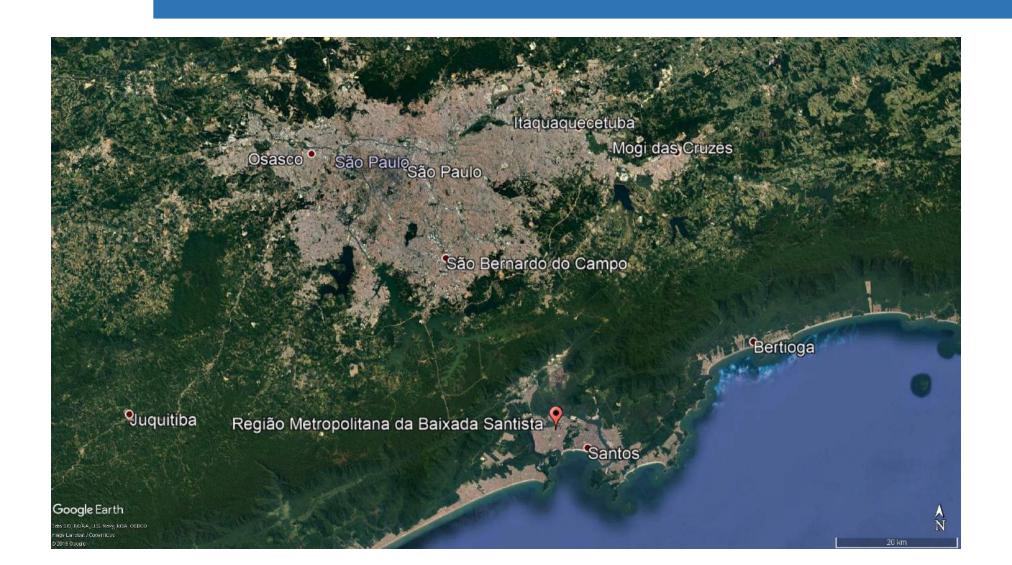
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São Paulo School of Advanced Science on Ocean Interdisciplinary Research and Governance
São Paulo, August 18th 2018

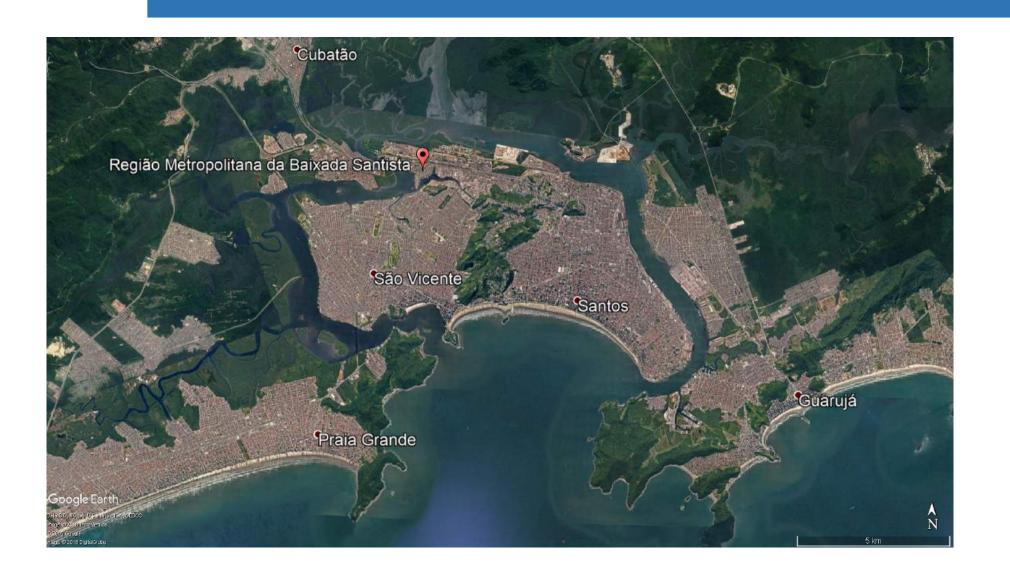
- Next, some selected ecosystems for Baixada Santista's region are presented
- The figures are merely illustrative.



Baixada Santista's area



Baixada Santista's area



Sand Beaches





Restinga (vegetated sand bars)





Mangroves





Marine (near shoreline)



Parcéis (Rocky bottom seabed)





Atlantic Rain Forest





Rocky Shores



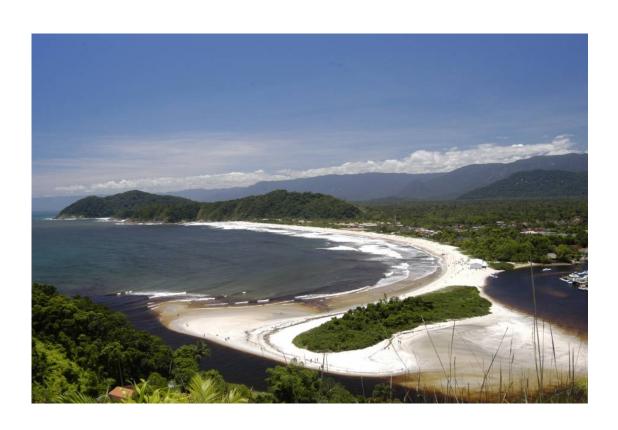


Rivers





Estuaries



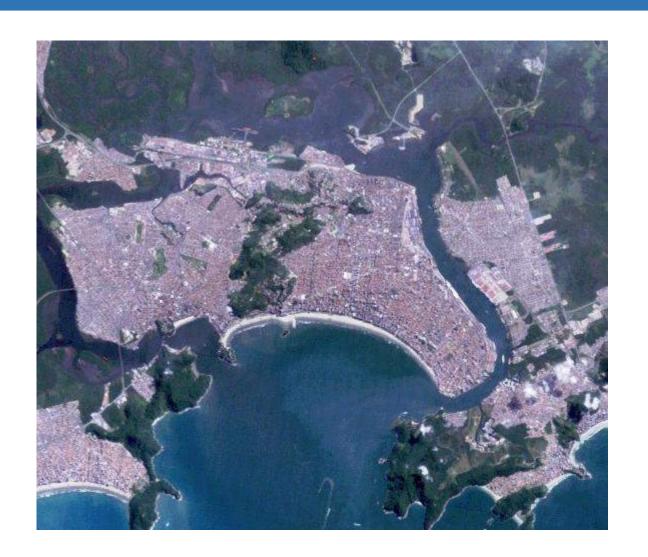


Estuarine Channel





Urban System



Urban System





Some main Economic (Blue?) Activities

Port of Santos

- ~130 million tons (2017)
- Largest port in Latin America
- Exports 28% of National GDP
- 1500 workers
- Mostly corn, soybeam and sugar



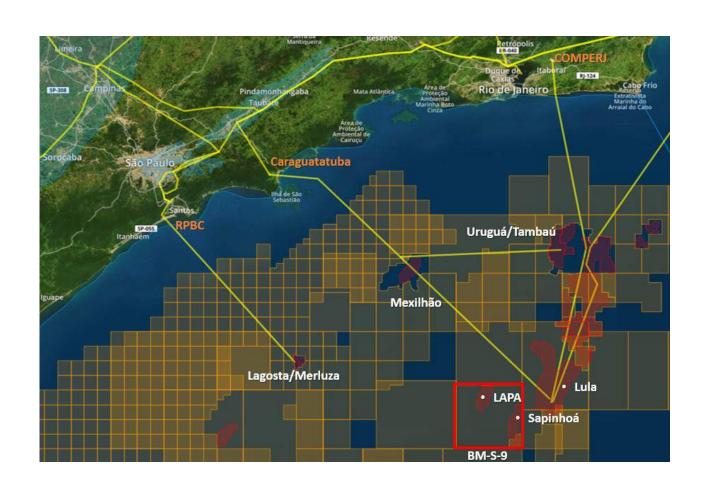
Industry



- Concentrated in Cubatão (world's most polluted city in the 80's)
- Chemical industry
- Fertilizers
- Oil refinery

Oil Extraction

- Major oil deposits discovered in 2005 ("pré-sal") – up to 8000 m
- ~3.5 million barrels of oil/ day



Oil Refinery

- Major oil deposits discovered in 2005 ("pré-sal") – up to 8000 m
- 130 thousand barrels of oil/day



Tourism

- 1.7 million people living in the region
- Gets up to 1.9 million tourists during summertime
- Around R\$12 bi/ year



Artisinal Fisheries



Gill net



Trawling

Industrial Fisheries



Longline



Trawling

Group Activity

- (1) Choose two ecosystem to work with
- (2) Complete the matrix related to the ecosystens you have chosen
- (3) Eventually, present your results for the class.



https://tinyurl.com/ychkblvr