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# COASTAL ZONES

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## Spatial decision support system for coastal zone management under a changing climate in Victoria, Australia

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The ultimate aim of this research using spatial data modeling is focused on enabling a sustainable environment by bringing the public policies into practice. The consequence will be sustainable spatially aware strategic planning for all levels of CZM. GIS are the platform that can serve this aim provided that model, current process and spatial datasets are fit for purpose. To bring public policy into practice a broad range of knowledge from different disciplines is needed. Most decision making processes are pressured in terms of time, driving forces and also the process is beyond the knowledge of individuals in the various disciplines. There is a need for immediate uptake models and tools which are relevant to the target subject that will facilitate decision making process. This research will focus on realizing the utility in spatial data handling in order to help CZM climate change adaptation programs at local government level. Web-based mapping tools can assist planners prepare for the changing climate conditions in LGA. The GIS team has gathered data from various climate research organizations to understand projections of what different climate scenarios might look like over the next 100-year period. From this website demo it is hoped that the user will understand how the tool works, background information on different GIS platforms, access to interactive mapping, online geospatial analysis tools, videos, open source, sea level tools, modeling, 3D visualization and direct download access to various planning and natural resource data sets relating to coastal zone management. We will provide some results from our elevation data analyses through these Web map visualization tools.

### Biography

Nasrin Sultana has worked in the GIS/Photogrammetric/RS/3D/ GPS systems field for almost 15 years. She is highly experienced in GIS applications development for natural park management, property management, hydrology modeling, PRA GIS linkage, GIS business analysis, Sea level rise, climate change adaptation, flood mapping, vegetation mapping and canopy height modeling from liDAR. She is currently pursuing PhD in Geospatial Sciences School of Mathematical and Geospatial Sciences, RMIT University, Melbourne. She is also working for City of Whittlesea as a Senior GIS Officer.

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