



## INTRODUCTION

- Small Island Developing States (SIDS) are ecologically and economically fragile and SIDS vulnerable. For the ocean and coastal environment is of strategic importance and constitutes a valuable development resource.
- There is increased pressure on coastal environments with rapid changes in the global climate and coastal population increase.

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The implementation of coastal zone management, monitoring and defence mechanisms are at a critical stage of development in the Caribbean.

- These initiatives require the modelling and integrating of datasets across the land-sea interface.
- > A major obstacle that presents itself, is the lack of a consistent vertical datum across the land-sea interface.

## INTRODUCTION

- Elevation datasets cannot be compared or integrated unless the same vertical datum is used, and considerations are made for spatial and temporal variations.
- Different vertical datums are used at sea and on land. No simple seamless means of transforming between them.
- The development of a separation model would be beneficial to the afore mentioned initiatives and be a crucial part of decision support.





Vertical Separation Models	
> MODEL DESIGN IS	MODEL ACCURACY IS
DEPENDENT ON:	SENSITIVE TO:
<ul> <li>Intended use</li> </ul>	<ul> <li>Accuracy and currency</li> </ul>
	of data used
Seale of project	
• Scale of project	A company of
	Accuracy of
Available resources	interpolation techniques
	applied





















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With global climate change, increasing advances in surveying technology and the need for integration and amalgamation of survey data from across the land-sea interface and across regions, it is the opportune time for such a development.