



# Coastal – Riverine Interaction

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Main Work: Dr Feifei Zheng, Dr Seth Westra and Dr Michael Leonard at the University of Adelaide





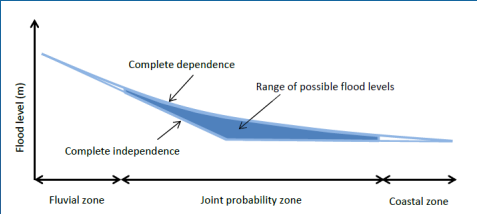
## Supported By





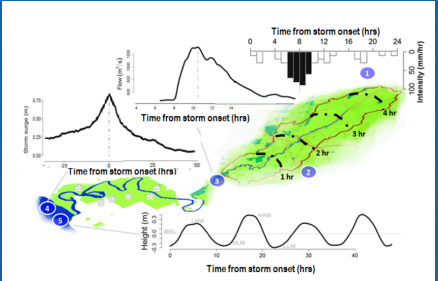
### Australian Government



## Long Section of Estuary



## Physical Mechanism of Factors



### Process

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### Olga Bay Example

Assume: tolerance: 0.1m, dependence = 0.9, 2% AEP Target

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### Pre-Screening Analysis

		Storm Tide (%AEP)	
		Lower Bound	2
Flow (% AEP)	No Rain		1.258
	2	0.286	1.397

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### Hydrodynamic and Hydraulic Modelling

		Storm Tide (% AEP)				
		Lower Bound	30	2	0.25	0.0025
Flow AEP)	% No Rain	0.001	1.048	1.258	1.466	1.678
	18.1	0.114	1.084	1.279	1.482	1.687
	9.5	0.129	1.094	1.292	1.494	1.696
	4.9	0.175	1.129	1.321	1.515	1.708
	2	0.286	1.209	1.397	1.586	1.776
	1	0.429	1.316	1.498	1.682	1.866
	0.5	0.686	1.509	1.681	1.854	2.03
	0.2	0.982	1.735	1.895	2.057	2.222
	0.1	1.364	2.033	2.177	2.325	2.476
	0.01	1.449	2.101	2.241	2.387	2.534

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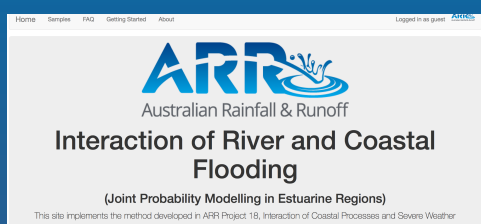
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## Jump to Website

p18.arr.org.au

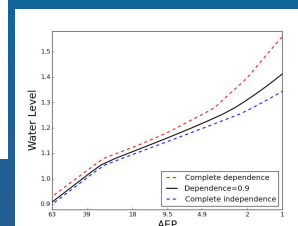
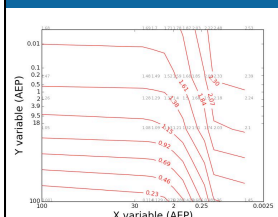


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## Results



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## Conclusion

Method is written with flooding in mind

BUT

Is generally applicable!

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Project 18:  
Interaction of Coastal Processes and Severe  
Weather Events

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