

Definitions of Interest

Risk = Hazard x Exposure x Vulnerability

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Capacities

Capacities focus on group measures that are in place to help the community to cope with the event.

Risk = Hazard x Vulnerability x Deficiencies in Preparedness

Deficiencies in Preparedness represent the lack of measures and tasks which could reduce the loss of human lives and property during disaster.

Approach towards Risk Assessment and Mitigation



Multi Hazard Coastal Risk Assessment Framework

Approach towards Risk Assessment and Mitigation



Multi Hazard Coastal Risk Assessment Framework



Multi Hazard approach considers all coastal hazards, each having a frequency of occurrence and potential impact (intensity /spatial distribution)

Approach towards Risk Assessment and Mitigation



Multi Hazard Coastal Risk Assessment Framework



... towards Disaster Risk Reduction

Risk = Hazard x Exposure x Vulnerability x Deficiencies in Preparedness

Approach towards Risk Assessment and Mitigation



Multi Hazard Coastal Risk Assessment Framework



... towards Disaster Risk Reduction

Risk = Hazard x Exposure x Vulnerability x Deficiencies in Preparedness



Early Warning and Countermeasures against and Mitigation Options

Definitions of Interest

Risk = Hazard x Exposure x Vulnerability

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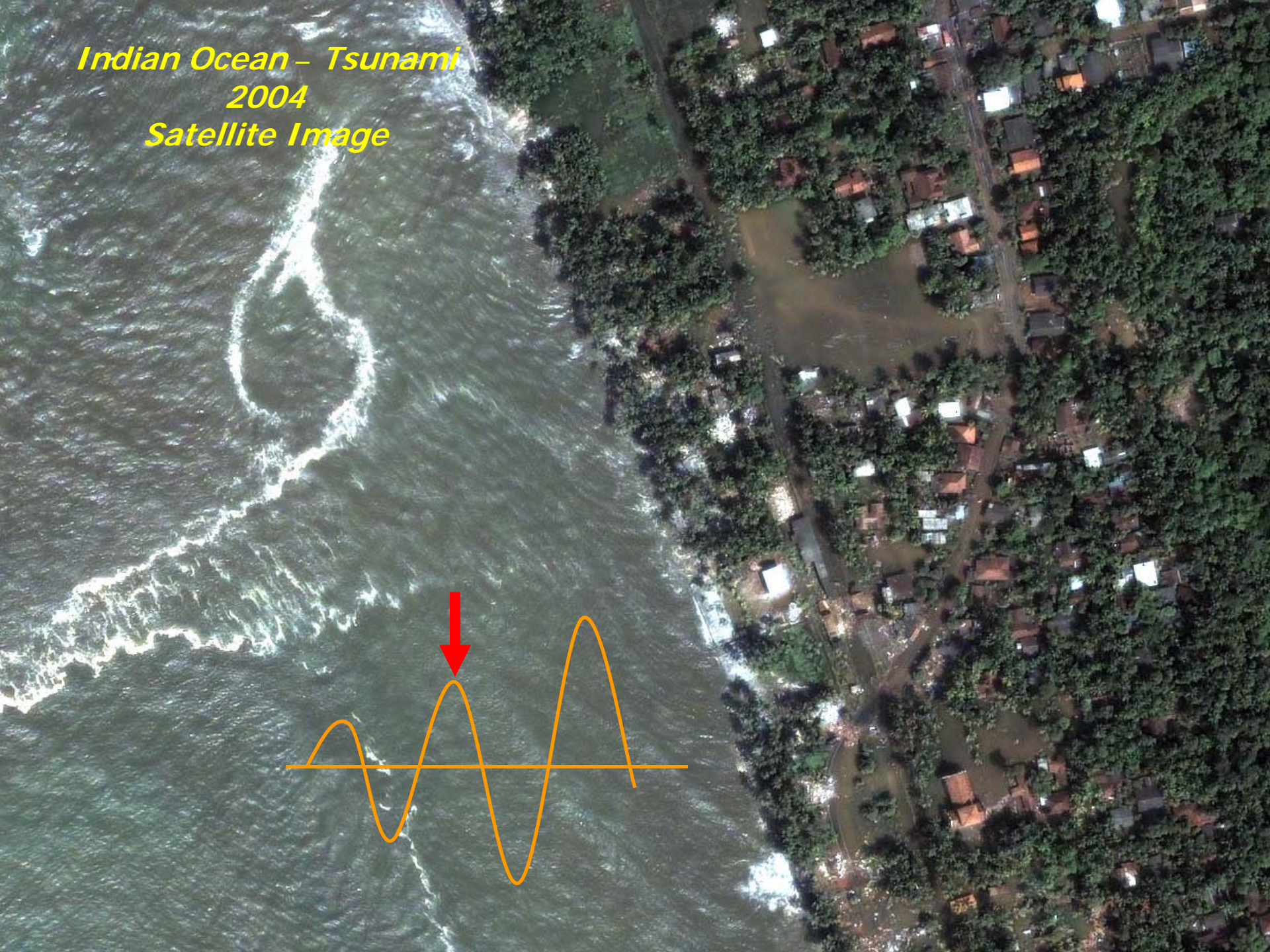
Capacities

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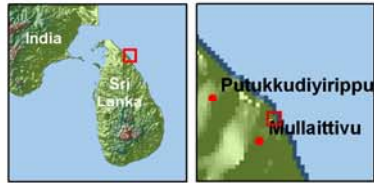
*Indian Ocean – Tsunami
2004
Satellite Image*



Coastal Inundation

Sri Lanka East Coast NE of Mullaittivu

Before and after disaster map



Disaster type : Tsunami
Disaster date : 26 December 2004

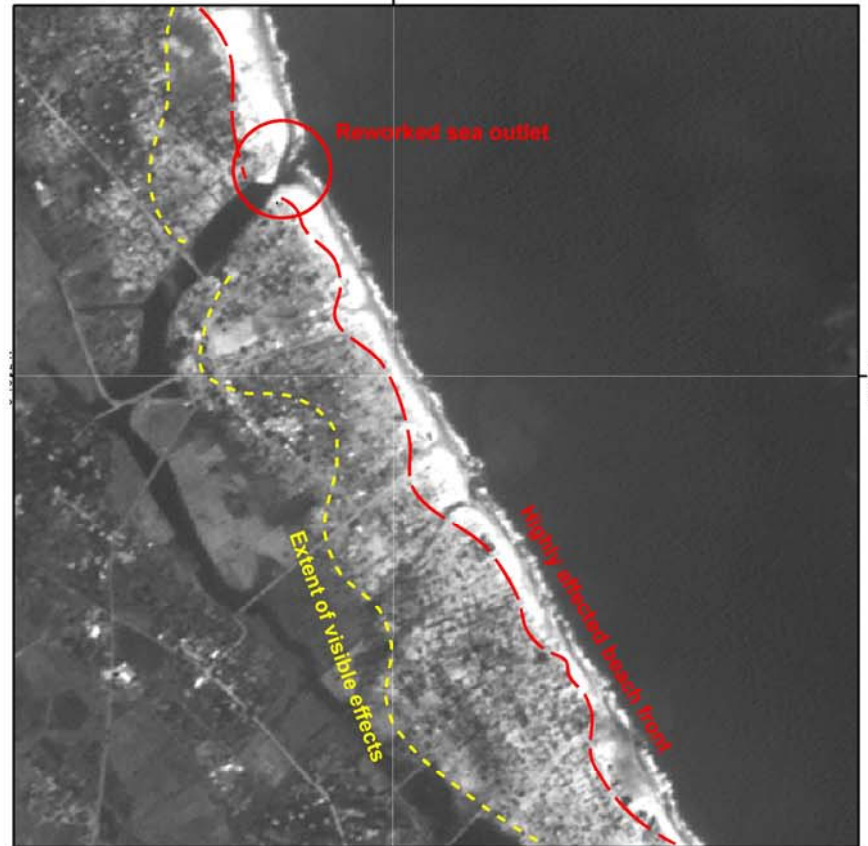
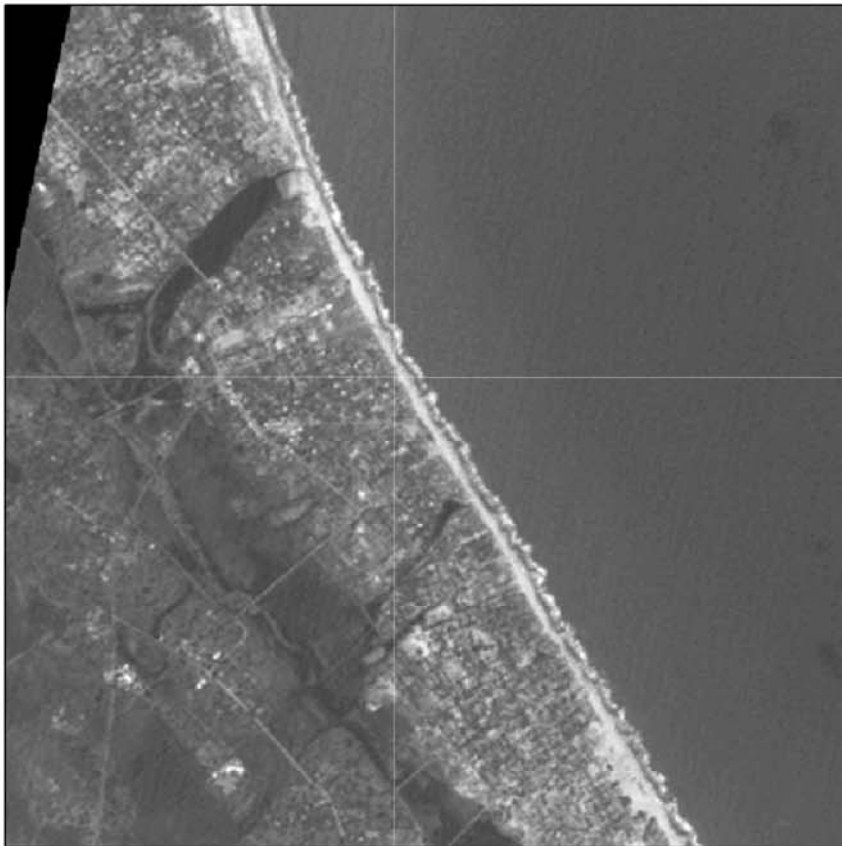
Datum : WGS 84
Projection : UTM 44

Data sources :
Reference image : IRS 1D PAN (5m) - 07 December 2004
© ISRO 2004
Crisis image : IRS P6 L-4 (5m) - 02 January 2005
© ISRO 2004

Scale : 1/15 000 for A3 prints
Map created 10 January 2005 by SERTIT.
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<http://sertit.u-strasbg.fr/>

IRS 1D PAN - 07 December 2004

IRS P6 L-4 - 02 January 2005



February 2002



Palatupana



Palatupana

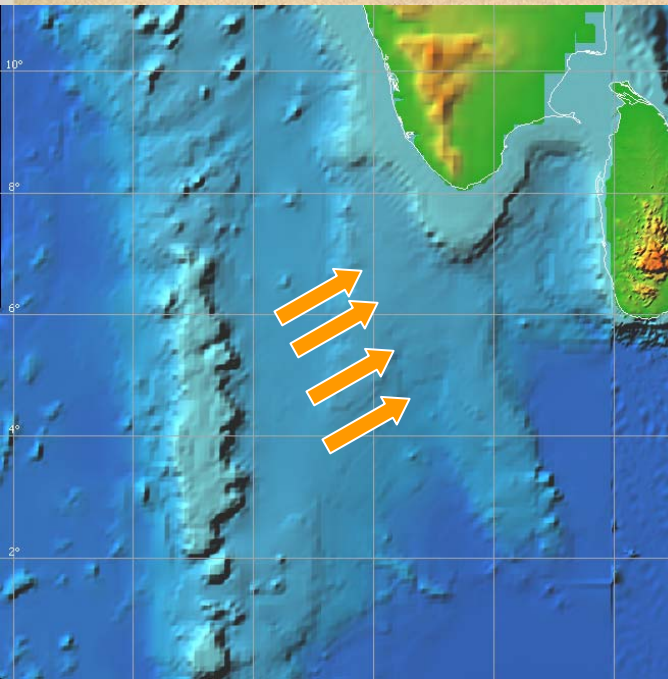
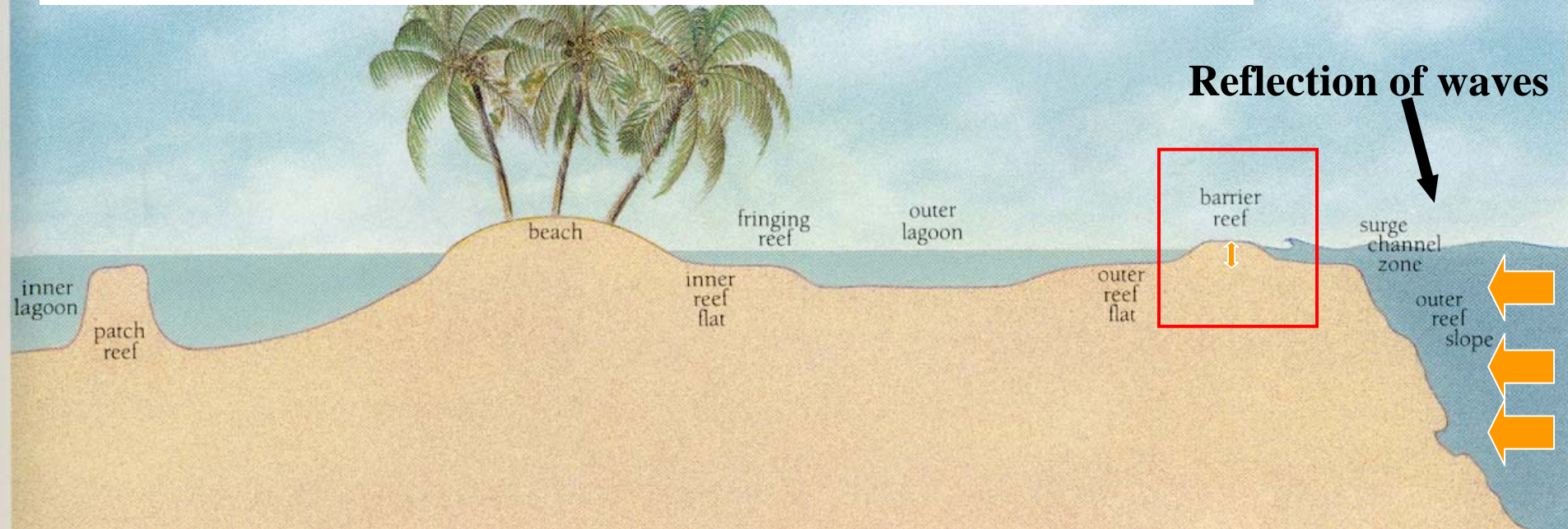
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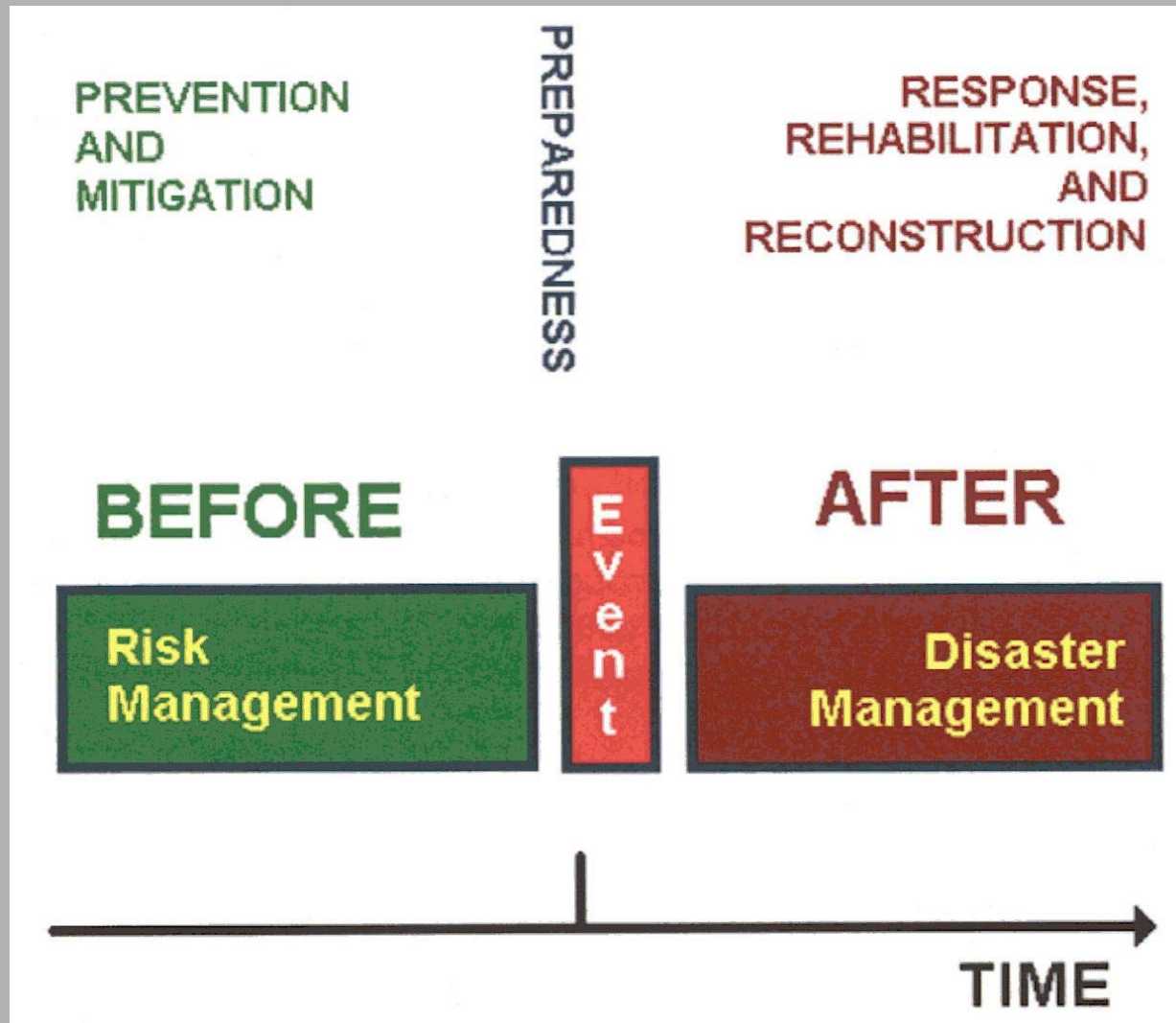
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Dynamic Hazard Map of Inundation of IOT for Galle- PARI, Japan
based on Deterministic Tsunami Hazard Modelling (3D projection)



The influence of Wave Reflection from Maldivive Islands





after Juan Carlos Villagran