

Marine Disaster Risk Assessment and Zoning in the Coastal Areas of China



National Marine Hazard Mitigation Service, State Oceanic Administration

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Outline

1 Marine disaster in China

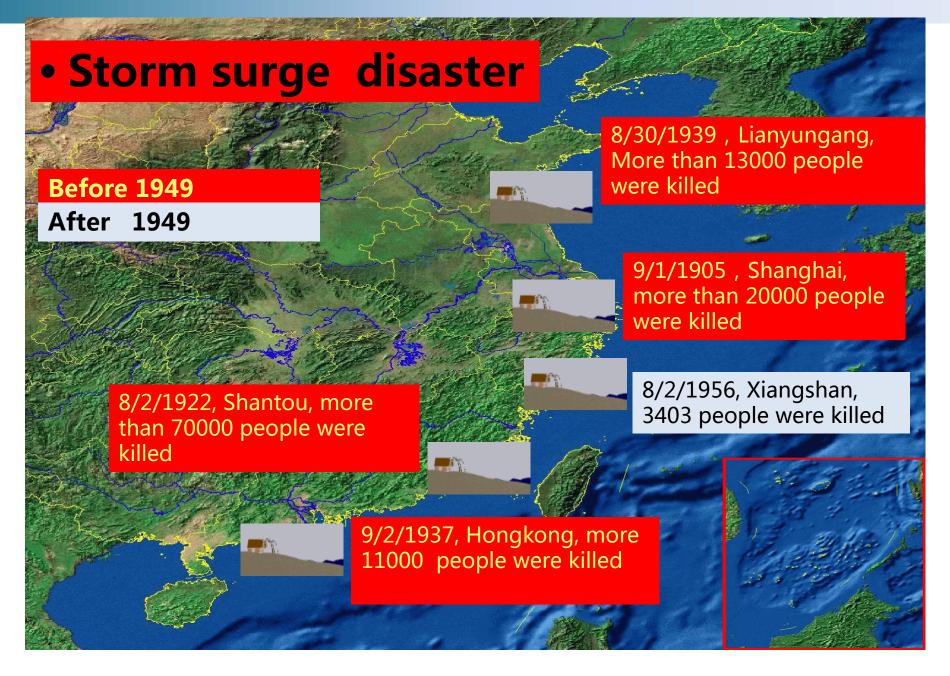
2 Marine disasters risk assessment and zoning

3 Intent Cooperation



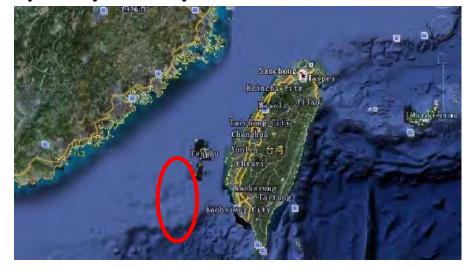




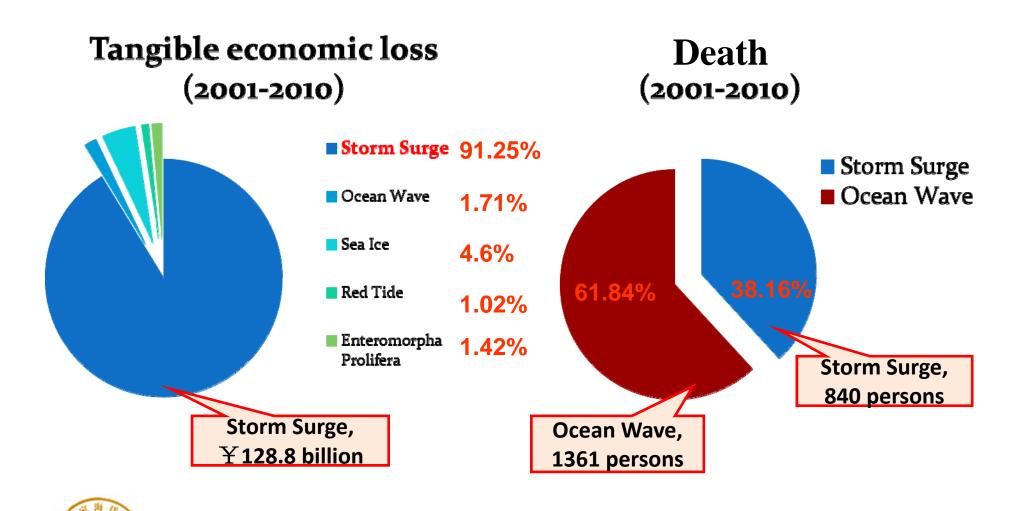


In 1781, Tsunami hit Taiwan Strait, about 40000~50000 people were killed, more than 20 countrysides were completely destroyed!

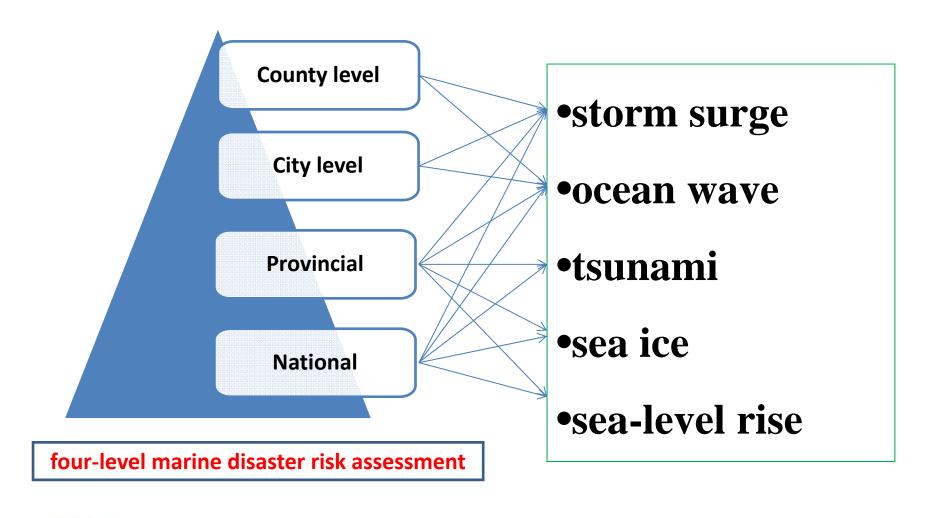








2. Marine disasters risk assessment and zoning







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Workflow:

Dataset Collecting

Select area, collect multi source data

Hazards analysis

Model building and verification, hazards analysis

Risk analysis

Vulnerability analysis, mitigation ability assessment, comprehensive risk assessment

Risk zoning

Determine the risk level Based on the assessment results and units

Validation

Validate the result by spot surveying and investigating

Risk Mapping

Cartography based on the results

2. Marine disasters risk assessment and zoning

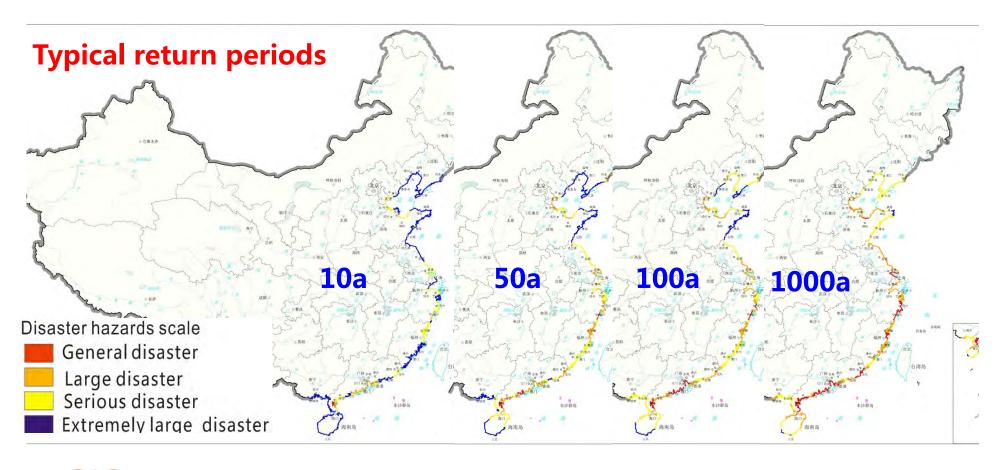
> Storm surge disaster risk zoning

> Tsunami disaster risk zoning





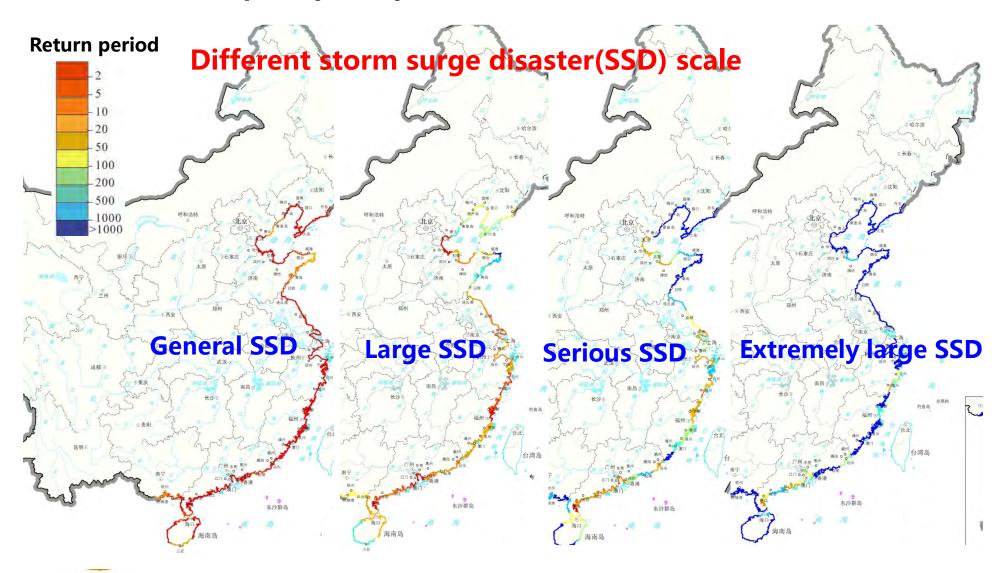
Hazards intensity analysis in China: each 10km shore

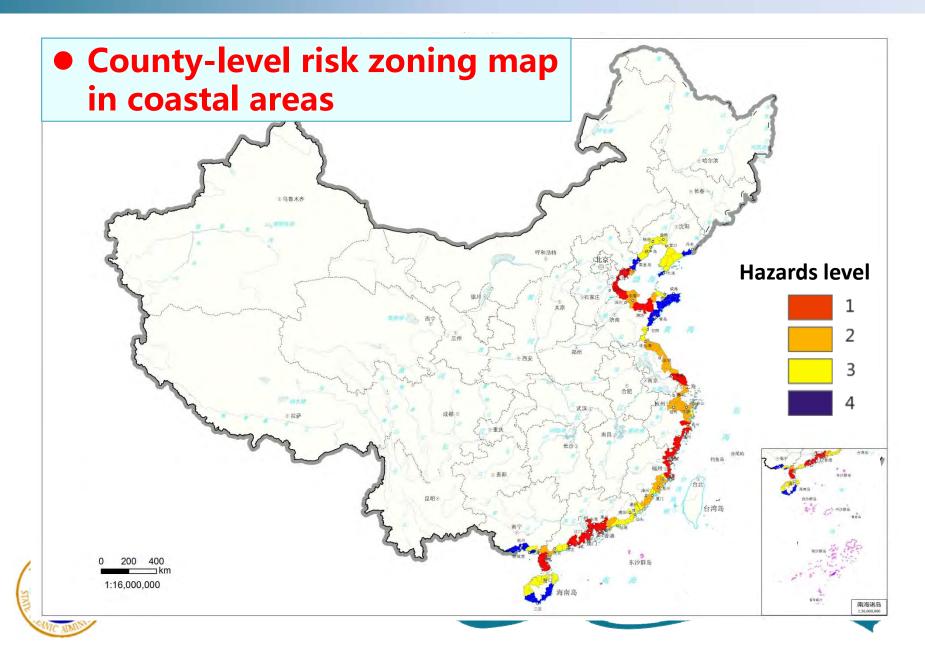


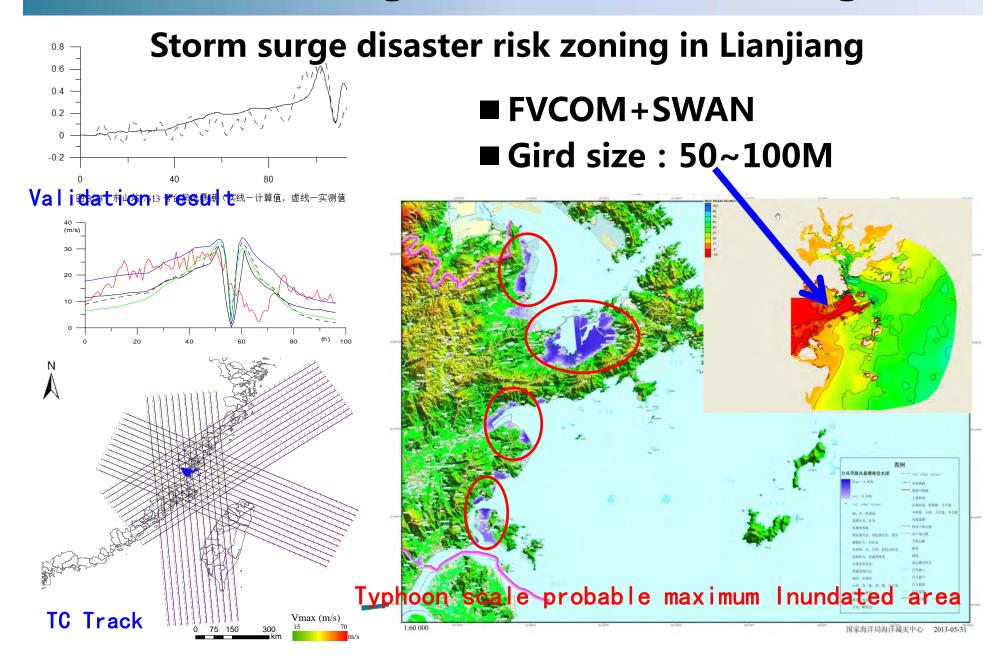




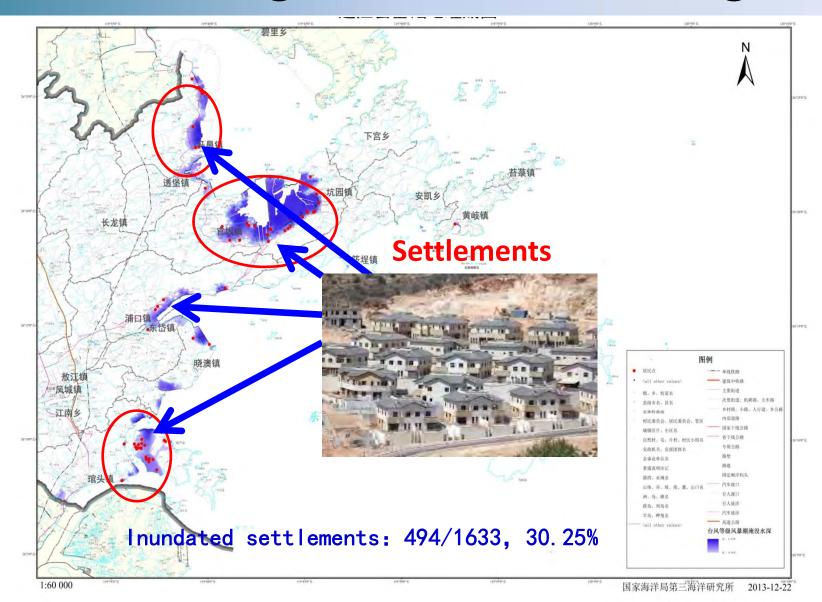
Occurrence frequency analysis in China: each 10km shore



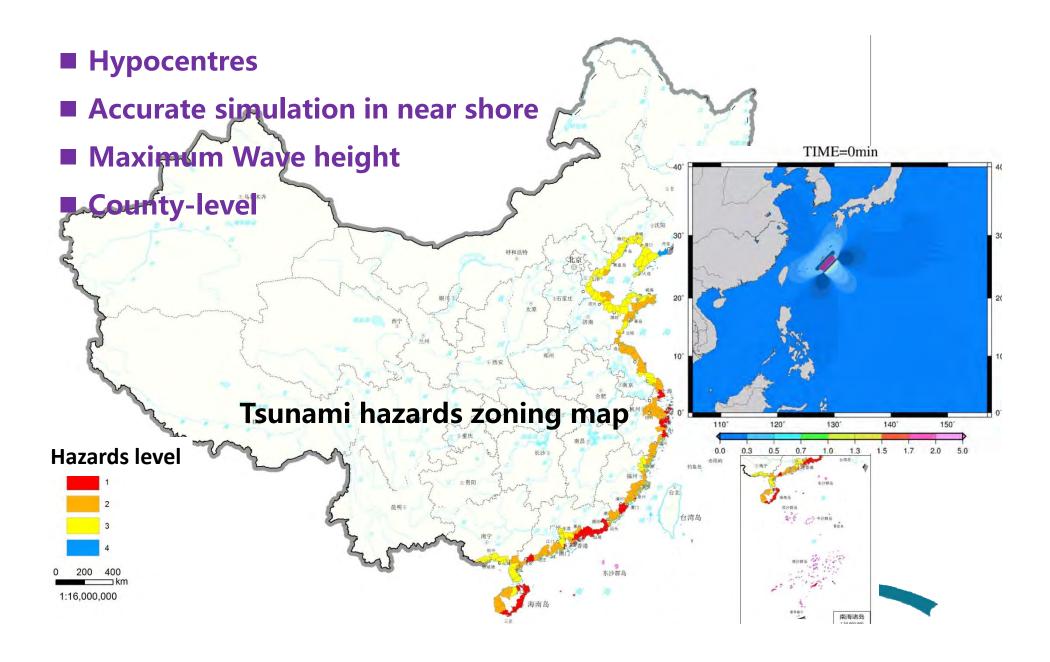




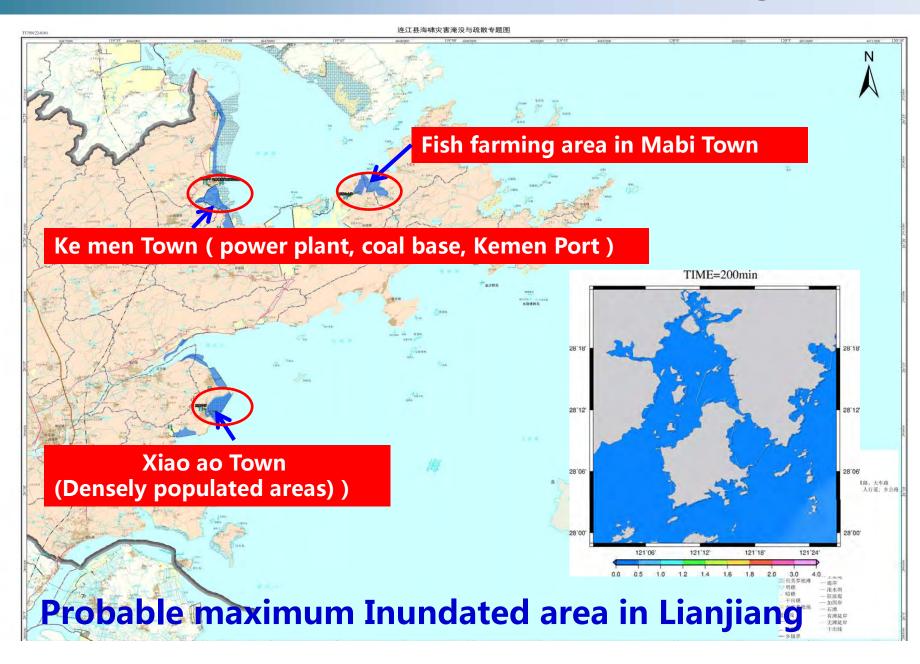




2.2 Tsunami disaster risk zoning



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2.2 Tsunami disaster risk zoning

Large scale evacuation route map:

■ Probable maximum inundated areas

■Shelters distribution





3.Intent cooperation





We are facing tsunami disa





3.Intent cooperation





We are facing storm surge disaster.....





3.Intent cooperation

What shall we do





- Storm surge disaster risk analysis technical cooperation
- Tsunami disaster risk assessment in South China Sea

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Thank you!





