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## Flood Mitigation in BC

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Emergency  
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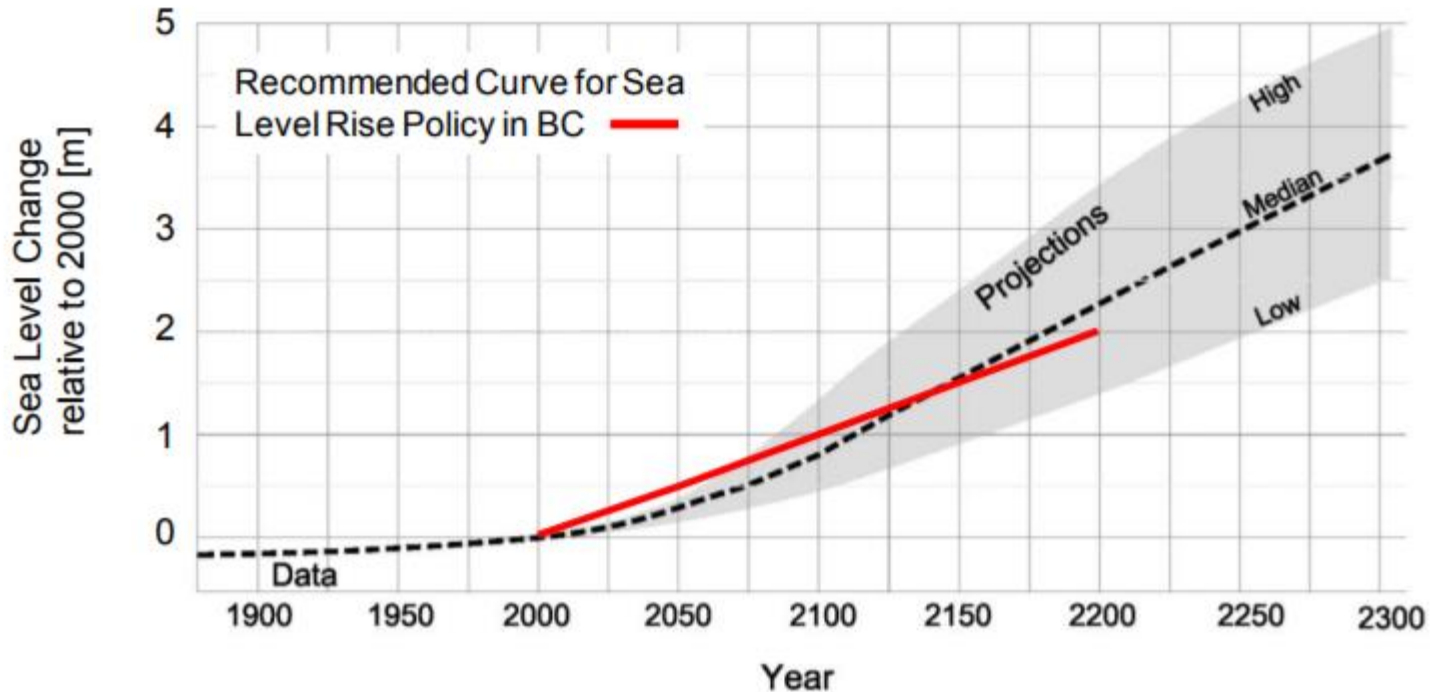
# + Flood Management History

Key Timeframes	Provincial Government Roles/Responsibilities	Local Government Roles/Responsibilities
1975 – 2003	<ul style="list-style-type: none"> <li>• Provided approvals for floodplain subdivisions and bylaws</li> </ul>	<ul style="list-style-type: none"> <li>• Limited to no floodplain development approval authority</li> </ul>
2003	<ul style="list-style-type: none"> <li>• Passage of Flood Hazard Statutes Amendment Act</li> </ul>	<ul style="list-style-type: none"> <li>• Authority over land use decisions in floodplains</li> </ul>
<p>Result → Non-uniform approach to flood mgmt and mitigation</p>		
2004 - Present	<ul style="list-style-type: none"> <li>• Preparing Guidelines               <ul style="list-style-type: none"> <li>○ Flood Hazard Area Land Use Mgmt (non-mandatory)</li> <li>○ Climate Change Adaptation</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Received guidance on managing flood prone lands</li> </ul>

# + Flood Mitigation – New Directions

## ■ 2011

- [Climate Change Adaptation Guidelines for Sea Dikes and Coastal Flood Hazard Land Use](#)
- [Coastal Floodplain Mapping Guidelines & Specifications](#)



**Figure 1.** Recommended Global Sea Level Rise Curve for Planning and Design in BC

# + EMBC – Disaster Mitigation Branch

- To improve provincial resilience to hazards and disasters:
  - Current focus is flooding
  - Working collaboratively with our stakeholders:
    - Local Governments,
    - First Nations,
    - BC Ministries, and
    - NGOs
  - Supporting multi-jurisdictional projects such as:
    - Thompson Watershed Risk Assessment
    - Okanagan Basin LIDAR Project



# + Flood Mitigation – New Directions

- APEGBC Flood Mapping Guidelines
  - Standardize development of flood maps
- Support Integrated Regional Approaches
  - Lower Mainland Flood Management Strategy
  - Evaluation criteria supportive of joint flood mitigation applications
- Provincial Studies and Data Collection
  - Dike Consequence Classifications
  - Orphan Dike Study
  - LiDAR Acquisition
    - e.g. Okanagan watershed



# + Flood Mitigation Funding Opportunities

	National Disaster Mitigation Program	Community Emergency Preparedness Fund
Flood Risk Assessments	✓	✓
Flood Mapping	✓	✓
Flood Mitigation Planning	✓	✓
Structural Flood Mitigation	✓	✓
Non-Structural Flood Mitigation	✓	

- BC Disaster Mitigation Branch is part of evaluation process
- NDMP Website – <https://goo.gl/wWxDjn>
- CEPF Website – <https://goo.gl/KBACMg>

# + More Mitigation Funding Opportunities

- **Green Infrastructure Fund (~\$27B)**
  - **Disaster Mitigation & Adaptation Fund (~\$2B)**
- **Municipalities for Climate Innovation Program (\$75M)**
- **Climate Change Adaptation Platform (up to \$8M/proj)**
- **First Nations Adapt Program (\$3M)**
- **Standards to Support Resilience in Infrastructure (\$40M)**
- **Gas Tax Fund (Varies)**
- **For full funding list and details, please visit**
  - <https://goo.gl/nP37ce>



# + Summary

- Risk and costs are on the rise
- Mitigation is key
- Informed decision making important
  - Several funding options
- Joint regional approaches are effective





# + Q & A

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- EMBC Website – <https://goo.gl/ehdBtt>



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