

Federal Floodplain Mapping Guidelines Series



Bibliography of Best Practices and References for Flood Mitigation

Version 1.0

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Table of Contents

ACKNOWLEDGEMENTS	1
NOTICE	1
FEDERAL FLOODPLAIN MAPPING GUIDELINES SERIES	2
FLOODPLAIN MAPPING FRAMEWORK	2
1.0 INTRODUCTION.....	3
2.0 REFERENCE MATERIALS.....	4
2.1 Canadian References	4
2.2 International References.....	32

ACKNOWLEDGEMENTS

This bibliography was developed by the Flood Mapping Committee. The Flood Mapping Committee is a partnership between Public Safety Canada, Natural Resources Canada, Environment and Climate Change Canada, National Research Council of Canada, Defence Research and Development Canada, and Indigenous and Northern Affairs Canada. Many of the sample best practices cited are derived from AECOM's report *National Principles, Best Practices and Guidelines – Flood Plain Mapping* (AECOM 2016).

NOTICE

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Additional Information

For more information about this document, please contact the Canada Centre for Mapping and Earth Observation of Natural Resources Canada: NRCan.Geoinfo.RNCan@Canada.ca.

FEDERAL FLOODPLAIN MAPPING GUIDELINES SERIES

The following documents are intended to inform any individual or organization involved with floodplain management in Canada:

1. Federal Floodplain Mapping Framework (2017)
2. Flood Hazard Identification and Priority Setting (*to be developed*)
3. Federal Hydrologic and Hydraulic Procedures for Floodplain Delineation (2017)
4. Federal Airborne LiDAR Data Acquisition Guideline (2017)
5. Case Studies on Climate Change in Floodplain Mapping (2017)
6. Federal Geomatics Guidelines for Floodplain Mapping (2017)
7. Flood Risk Assessment (*to be developed*)
8. Risk-based land-use guide: Safe use of land based on hazard risk assessment (2015)
9. **Bibliography of Best Practices and References Related to Flood Mitigation (2017)**

FLOODPLAIN MAPPING FRAMEWORK

The Floodplain Mapping Framework consists of all the components of the flood mitigation process, from flood hazard identification to the implementation of flood mitigation efforts. The following flow chart illustrates the relationship between these different components and links each of them to the relevant *Federal Floodplain Mapping Guidelines Series* document:

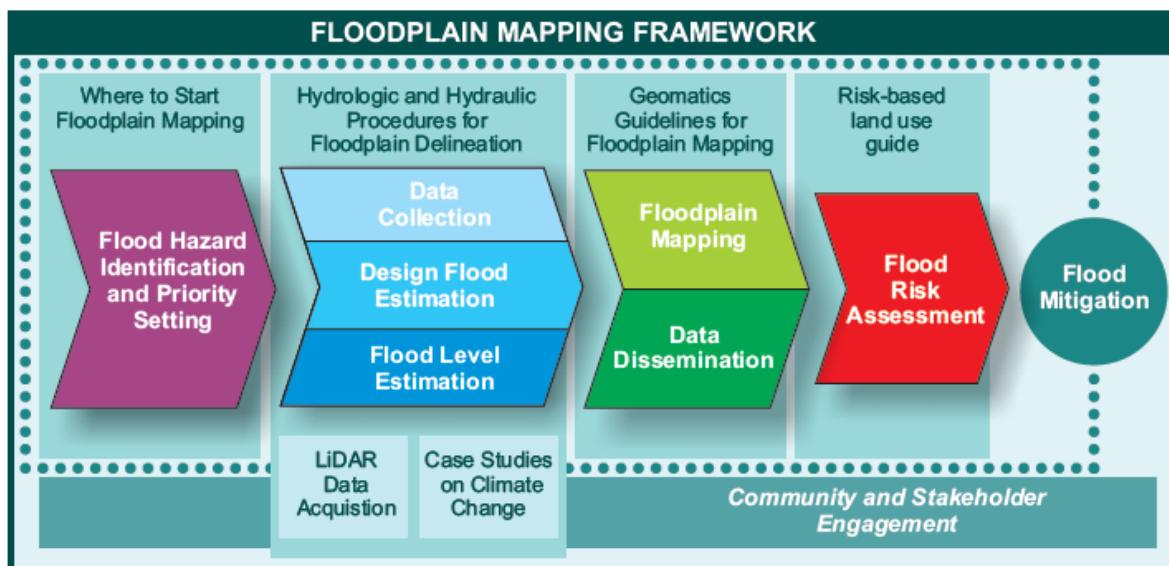


Figure 1: Floodplain Mapping Framework

In addition, the *Federal Floodplain Mapping Guidelines Series* includes a Bibliography that contains references and best practices related to flood mitigation.

1.0 INTRODUCTION

During the course of the development of the *Federal Floodplain Mapping Guidelines Series* documents, a number of reference materials and case studies pertaining to floodplain mapping were compiled. The purpose of this report is to provide a consolidated list of these as a reference for further investigation.

The contents of this document is a list of reference materials intended as further resources for practitioners involved in floodplain mapping. These are divided into Canadian and international sub-sections and include resources pertaining to all aspects of the floodplain mapping life cycle.

Like other documents in the *Guidelines Series*, this document is intended to be evergreen and to be updated as further developments take place.

2.0 REFERENCE MATERIALS

The following are reference materials compiled during the process of developing the *Federal Floodplain Mapping Guidelines Series* documents. They have been divided into Canadian and International sub-sections and are intended to be further consulted by practitioners who have additional interest in topics related to flood mitigation.

2.1 Canadian References

The following is a list of references produced in Canada or pertaining specifically to the Canadian context.

CANADA	
Publications	
Addendum to the Federal Hydrologic and Hydraulic Procedures for Flood Plain Delineation	<i>Available by contacting NRCan:</i> NRCan.Geoinfo.RNCan@Canada.ca
An Assessment of Flood Risk Management in Canada	http://www.iclr.org/images/An_Assessment_of_Flood_Risk_Management_in_Canada.pdf
Assessing the Viability of Overland Flood Insurance: The Canadian Residential Property Market	https://www.google.ca/url?sa=t&rct=j&q=&esrc=s&source=web&cd=1&cad=rja&uact=8&ved=0ahUKEwj8qtL82PvPAhWs6IMKHcscB6IQFggeMAA&url=https%3A%2F%2Fwww.cooperators.ca%2F~%2Fmedia%2FCooperaors%2520Media%2FSection%2520Media%2FAboutUs%2FSustainability%2FAssessing%2520the%2520Viability%2520of%2520Flood%2520Insurance%2520in%2520Canada%2520-%2520Eng.pdf&usg=AFQjCNFT1DHIMZJ3g18FxwdtAfVUWh9uHg&sig2=Vk_pI2ohAtaMDO8PY0GHg
Assessment of the Current State of Flood Mapping in Canada – MMM Report	<i>Available by contacting NRCan:</i> NRCan.Geoinfo.RNCan@Canada.ca
Canada in a Changing Climate: Sector Perspectives on Impacts and Adaptation	http://www.nrcan.gc.ca/environment/resources/publications/impacts-adaptation/reports/assessments/2014/16309
Canada's Marine Coasts in a Changing Climate	https://www.google.ca/url?sa=t&rct=j&q=&esrc=s&source=web&cd=1&cad=rja&uact=8&ved=0ahUKEwiMm7Hsw4XQAhUC7oMKHe4oBdwQFggeMAA&url=http%3A%2F%2Fwww.nrcan.gc.ca%2Fsites%2Fwww.nrcan.gc.ca%2Ffiles%2Fearthsciences%2Ffiles%2Fpdf%2FNRCAN_fullBook%2520%2520accessible.pdf&usg=AFQjCNFzcY3Mp6U3dKxA4RlcMvNZ6s7dPw&sig2=XuLe-bHuFEMlyitYsJ4ofA

Federal Airborne LiDAR Data Acquisition Guideline	https://doi.org/10.4095/304669
Canadian Local Governments Responding to Climate Change - The State of Climate Adaptation Planning and Implementation in Canada	https://www.google.ca/url?sa=t&rct=j&q=&esrc=s&source=web&cd=1&cad=rja&uact=8&ved=0ahUKEwilyZ2-2fvPAhVByoMKHUMyCKMQFggcMAA&url=https%3A%2F%2Fwww.fcm.ca%2FDocuments%2Fpresentations%2F2014%2FSCC%25202014%2FCanadian_Local_Governments_Responding_to_Climate_Change_Devin_Causley_EN.pdf&usg=AFQjCNHBKAQwZgxN5qRUBUjjaLjBRl_r_g&sig2=nzSDE0rBxo-bCISM3qsQHQ&bvm=bv.136811127,d.amc
CIWEM.org - Journal of Flood Risk Management	www.ciwem.org/services/
Climate Change Adaptation – A State of the Practice Report Preparing for the Impacts of Climate Change on Stormwater and Floodplain Management: A Review of Adaptation Plans and Practices	http://www.sustainabletechnologies.ca/wp/wp-content/uploads/2013/01/CC-on-SW-and-FP-Mgmt.pdf
Contexte de la cartographie des plaines inondables – MMM Report	Available by contacting NRCan: NRCan.Geoinfo.RNCan@Canada.ca
Évaluation nationale de la cartographie des plaines inondables	Available by contacting NRCan: NRCan.Geoinfo.RNCan@Canada.ca
Federal Hydrologic and Hydraulic Procedures for Flood Plain Delineation	Available by contacting NRCan: NRCan.Geoinfo.RNCan@Canada.ca
Flood Damage Reduction Program	http://www.ec.gc.ca/eau-water/default.asp?lang=En&n=0365F5C2-1
Flood Hazard Mapping: A Review of International and National Hydrology and Hydraulic Guidelines	Available by contacting NRCan: NRCan.Geoinfo.RNCan@Canada.ca
Le littoral maritime du Canada face à l'évolution du climat	http://www.rncan.gc.ca/sites/www.rncan.gc.ca/files/earthsciences/pdf/assess/2016/Coastal_Assessment_Rapport_complet.pdf
National Floodplain Mapping Assessment – Final Report	Available by contacting NRCan: NRCan.Geoinfo.RNCan@Canada.ca

Paying for Urban Infrastructure Adaptation in Canada - An Analysis of Existing and Potential Economic Instruments for Local Governments	http://act-adapt.org/wp-content/uploads/2015/09/Urban-Infrastructure-08Sept.pdf
Predicting the frequency of storm surges and extreme sea levels in the northwest Atlantic	http://ww.coastalchange.ca/download_files/external_reports/Bernier_(2006)_Predictingthefrequencyofstormsurges.pdf
Preparedness of Fifteen Canadian Cities to Limit Flood Damage	http://www.cooperators.ca/en/en/~media/Cooperators%20Media/Section%20Media/AboutUs/Sustainability/Flood%20Paper_Preparedness%20of%20Cities_FINAL_ENG_21May2015.pdf
Programme de reduction des dommages causés par les inondations	http://www.ec.gc.ca/eau-water/default.asp?lang=Fr&n=0365F5C2-1
Risk Based Land Use Guide: Safe use of Land Based on Hazard Risk Assessment	http://geoscan.nrcan.gc.ca/starweb/geoscan/servlet.starweb?path=geoscan/downloade.web&search1=R=295981
Risk Based National Land Use Planning Workshop	http://cnhr.mhrisk.ca/exec-summary_report_land-use_workshop_english_2015-03-31.pdf
Survey and Mapping Procedures for Flood Plain Delineation	<i>Available by contacting NRCan:</i> NRCan.Geoinfo.RNCan@Canada.ca
The Economic Impacts of the Weather Effects of Climate Change on Communities	http://www.ibc.ca/ns/resources/studies/the-economic-impacts-of-the-weather-effects-of-climate-change-on-communities
The MSC50 Wind and Wave Hindcast of the North Atlantic Ocean	http://www.waveworkshop.org/8thWaves/Papers/P6.pdf
The Water Survey of Canada: Lesson Package No. 10.1 – Principles of Discharge Measurement	http://publications.gc.ca/collections/collection_2014/ec/En56-245-1999-eng.pdf
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Flood Governance in Canada: Who's Minding the Store?	http://www.insblogs.com/business-risks/flood-governance-canada-whos-minding-store/6285
Rise in flood claims tied to climate change	http://www.cbc.ca/news/canada/rise-in-flood-claims-tied-to-climate-change-1.943878
Other	
2015 Flooding in First Nations Communities	https://www.aadnc-aandc.gc.ca/eng/1397740805675/1397741020537
Atlantic Climate Adaptation Solutions (ACASA)	http://www2.gnb.ca/content/gnb/en/departments/elg/environment/content/climate_change/content/adaptation.html
CGU-HS CRIPE (Committee on River Ice Processes and the Environment)	http://www.cripe.ca/
Climat et tendances et projections d'ordre climatique	http://www.rncan.gc.ca/environnement/ressources/publications/impacts-adaptation/rapports/evaluations/2008/10262
Climate and Climate-related Trends and Projections	http://www.rncan.gc.ca/environment/resources/publications/impacts-adaptation/reports/assessments/2008/10261
Les inondations dans les collectivités des Premières Nations	https://www.aadnc-aandc.gc.ca/fra/1397740805675/1397741020537
Solutions d'adaptation aux changements climatiques de l'Atlantique	http://www2.gnb.ca/content/gnb/fr/ministères/egl/environnement/conten/changements_climatiques/content/adaptation.html
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Publications	
Alberta's 2008 climate change strategy	http://aep.alberta.ca/forms-maps-services/publications/documents/AlbertaClimateChangeStrategy-2008.pdf
Appendix A – Alberta Government Bulletin: Best Practices Principles and Guidelines	http://aep.alberta.ca/water/programs-and-services/flood-mitigation/documents/pfdas-calgary-appendices.pdf

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Case Study: Woodlands County, Alberta – Whitecourt Flood Hazard Study	http://aep.alberta.ca/water/programs-and-services/flood-hazard-identification-program/draft-flood-hazard-studies/default.aspx
Determination of Flood Extent Using Remote Sensing: A Term Paper	http://www.ualberta.ca/~mdzahidu/flood_mapping.pdf
Draft Flood Hazard Studies	http://aep.alberta.ca/water/programs-and-services/flood-hazard-identification-program/draft-flood-hazard-studies/default.aspx
Flood Hazard Identification Program Guidelines – floodplain mapping guidelines and hydrologic and Hydraulic Information	http://alberta.ca/albertacode/images/Flood-Hazard-Identification-Program-Guidelines.pdf
Flood Hazard studies: website provides information on available flood hazard studies by Basin, Community or Stream, and PDFs provide more details on each individual study summary	http://aep.alberta.ca/water/programs-and-services/flood-hazard-identification-program/flood-hazard-studies/default.aspx
Flood Risk Management Guidelines for Location of New Facilities Funded by Alberta Infrastructure	http://www.infrastructure.alberta.ca/Content/docType486/Production/FloodRiskMgmt.pdf
Guidelines on Extreme Flood Analysis	http://www.transportation.alberta.ca/Content/docType125/Production/gdinextrmfd.pdf

Peace River Hazard Study Update	http://www.google.ca/url?sa=t&rct=j&q=&esrc=s&source=web&cd=1&ved=0ahUEwifqdG664DSAhUs94MKHV8NBuIQFggaMAA&url=http%3A%2F%2Fsd90eb963f6af014d.jimcontent.com%2Fdownload%2Fversion%2F1463157731%2Fmodule%2F9317773571%2Fname%2FPublic%2520Update%2520Notice%2520-%2520Peace%2520River%2520-%2520Final.pdf&usg=AFQjCNHxSZ4T_hU97QQJip2uvQqcwpm_6A&sig2=RGVLrcSsjv0xdDJStwaieQ
Report of the Auditor General of Alberta	http://www.oag.ab.ca/webfiles/reports/OAG%20March%202015%20Report.pdf
Terms of Reference – Peace Area Monitoring Program (PRAMP)	https://maportal.gov.ab.ca/EXT/MeNet/Lists/Practices/Attachments/721/PRAMP%20Terms%20of%20Reference%20Final%2028May2015.pdf
The 2013 Great Alberta Flood: Actions to Mitigate, Manage and Control Future Floods	http://www.google.ca/url?sa=t&rct=j&q=&esrc=s&frm=1&source=web&cd=2&ved=0CCMQFjAB&url=http%3A%2F%2Fwww.albertawatersmart.com%2Fcomponent%2Fdocman%2Fdoc_download%2F5-the-2013-great-alberta-flood-actions-to-mitigate-manage-and-control-future-floods.html%3FItemid%3D&ei=AazsVL2qIMz3oAT_uYLACg&usg=AFQjCNF5M7hFiyhHr939bCwXhqufa7YmRA
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Upper Bow River Hazard Study – Terms of Reference	Available by contacting NRCan: NRCAN.Geoinfo.RNCan@Canada.ca

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Climate Leadership	http://alberta.ca/climate/
Flood Hazard Identification Program	http://aep.alberta.ca/water/programs-and-services/flood-hazard-identification-program/
Flood Hazard mapping	http://aep.alberta.ca/water/programs-and-services/flood-hazard-identification-program/flood-hazard-mapping.aspx

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Alberta flooding sets records, prompts calls for action on climate change	http://www.macleans.ca/news/canada/alberta-flooding-sets-records-prompts-calls-for-action-on-climate-change/
Climate change causing extreme weather on the prairies	http://globalnews.ca/news/1284984/climate-change-causing-extreme-weather-on-the-prairies/

Is Alberta Flooding a Sign of Climate Change?	http://www.huffingtonpost.ca/david-suzuki/alberta-flood-climate-change_b_3480005.html
Other	
Flooding Events in Canada – Prairie Provinces	https://www.ec.gc.ca/eau-water/default.asp?lang=En&n=E0399791-1
Flooding in First Nations Communities	https://www.aadnc-aandc.gc.ca/eng/1397740805675/1397741020537
ICLEI Canada Livable Cities Forum: Building Flood Resiliency (Calgary)	www.icleicanada.org/events/livablecities
Les inondations au Canada – Les provinces des Prairies	https://www.ec.gc.ca/eau-water/default.asp?lang=Fr&n=E0399791-1
Les inondations dans les collectivités des Premières Nations	https://www.aadnc-aandc.gc.ca/fra/1397740805675/1397741020537

BRITISH COLUMBIA

Publications

BC Ministry of Environment: Climate Change Adaptation Guidelines for sea dikes and coastal flood hazard land use	http://www.env.gov.bc.ca/wsd/public_safety/flood/pdfs_word/guidelines_for_mgr_coastal_flood_land_use-2012.pdf
BCREA – Floodplain Mapping Funding Guidebook for BC Local Governments	www.bcrea.bc.ca/docs/government-relations/floodplainmapguidebook.pdf
Changing Perspectives – Exploring and Implementing the Realities of Sea Level Rise in the Coastal Community of Surrey, British Columbia	http://www.icevirtuallibrary.com/doi/full/10.1680/cm.61149.213
Climate Change Adaptation Guidelines for Sea Dikes and Coastal Flood Hazard Land Use - Guidelines for Management of Coastal Flood Hazard Land Use	http://www.env.gov.bc.ca/wsd/public_safety/flood/pdfs_word/coastal_flooded_land_guidelines.pdf

Coastal Flood Mapping: Guidelines and Specifications	http://www.env.gov.bc.ca/wsd/public_safety/flood/pdfs_word/coastal_floodplain_mapping-2011.pdf
Coastal Sea Level Rise Flood Risk Assessment Report (Vancouver)	https://www.google.ca/url?sa=t&rct=j&q=&esrc=s&source=web&cd=1&cad=rja&uact=8&ved=0ahUKEwiJqPbq5fvPAhWi14MKHQ-PA54QFggcMAA&url=http%3A%2F%2Fvancouver.ca%2Ffiles%2Fcv%2FCFR-A-Phase-1-Final_Report.pdf&usg=AFQjCNHo8dIOSjlpUfVUbb-BvRxICUaL1A&sig2=yhb6XpMHFTAxyCcBeG-v1Q&bvm=bv.136811127,d.amc
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Evaluation of B.C. Food policy for Coastal Areas in a Changing Climate	http://www2.gov.bc.ca/gov/DownloadAsset?assetId=8B4EE6BA00674333A3A5A984B5EC0948
Flood Hazard Study North Vancouver-Hydraulics and hydrology info	http://geogratis.gc.ca/api/en/nrcan-rncan/ess-sst/8772feab-c47d-518e-bd5f-de0c4a4bb521.html
Flood Protection Strategies in BC	http://www.bcrea.bc.ca/docs/government-relations/2010-11flood-protection-strategies-report-in-bc---final.pdf?sfvrsn=2
Floodplain Mapping Backgrounder	http://www.bcrea.bc.ca/docs/government-relations/2014-FM-backgrounder.pdf
Floodplain Maps Action Plan	http://www.bcrea.bc.ca/docs/government-relations/floodplainmaps_action_plan.pdf
Hazard, Risk & Vulnerability Assessment – Update	http://www.rdn.bc.ca/cms/wpattachments/wpid141atid2769.pdf
Preparing for Climate Change - An Implementation Guide for Local Governments in British Columbia	http://wcel.org/sites/default/files/WCEL_climate_change_FINAL.pdf
Professional practice guidelines - Legislated flood assessment in a changing climate in BC	https://www.apeg.bc.ca/getmedia/18e44281-fb4b-410a-96e9-cb3ea74683c3/APEGBC-Legislated-Flood-Assessments.pdf.aspx
Progress Report—BC Floodplain Maps Action Plan	http://www.bcrea.bc.ca/docs/government-relations/2015-09-progress-report.pdf
Serpentine, Nicomekl & Campbell Rivers – Climate Change floodplain review	http://www.surrey.ca/files/NicomeklSerpentineCampbellRiversClimateChangeFloodplainReview.pdf

Serpentine, Nicomekl & Campbell Rivers – Climate Change floodplain review Phase 2	http://www.surrey.ca/files/SerpentineNicomeklClimateChangeFloodplainReviewCompressed.pdf
Terms of Reference - Area Monitoring Program (PRAMP)	https://maportal.gov.ab.ca/EXT/MeNet/Lists/Practices/Attachments/721/PRAMP%20Terms%20of%20Reference%20Final%2028May2015.pdf
The British Columbia Flood Response Plan (2012)	https://www.newwestcity.ca/database/rte/files/BC%20Flood%20Response%20Plan%202012.pdf
The British Columbia Flood Response Plan (2013)	http://www2.gov.bc.ca/assets/gov/public-safety-and-emergency-services/emergency-preparedness-response-recovery/provincial-emergency-planning/bc_flood_response_plan-final.pdf
Websites	
Gov.bc.ca	
Climate change Impacts	http://www2.gov.bc.ca/gov/topic.page?id=BE3D1E436EE14ADE8255FA0AD060659C
Dike Management and Safety	http://www.env.gov.bc.ca/wsd/public_safety/flood/fhm-2012/safety_index.html
Flood Protection and Planning	http://www2.gov.bc.ca/gov/content/safety/emergency-preparedness-response-recovery/emergency-management-bc/flood-protection-and-planning
Ministry of forests, land and natural resource operations dike management and safety	http://www.env.gov.bc.ca/wsd/public_safety/flood/fhm-2012/safety_index.html
Mitigating the risk of flooding	http://www2.news.gov.bc.ca/news_releases_2005-2009/2007otp0031-000364-attachment2.htm
Water Management Branch	http://www.env.gov.bc.ca/wsd/public_safety/flood/fhm-2012/draw_report.html
Water Stewardship	http://www.env.gov.bc.ca/wsd/data_searches/fpm/
News	
300,000 at risk in lower mainland flood: experts	http://bc.ctvnews.ca/300-000-at-risk-in-lower-mainland-flood-experts-1.2196450
Fraser River flood risk increasing due to climate change	http://www.cbc.ca/news/canada/british-columbia/fraser-river-flood-risk-increasing-due-to-climate-change-1.2704962

Future flooding scenario shows Metro Vancouver at risk	http://www.cbc.ca/news/canada/british-columbia/future-flooding-scenario-shows-metro-vancouver-at-risk-1.1382617
Other	
Action Plan Needed to Update Floodplain Mapping	http://www.bcchamber.org/policies/action-plan-needed-update-floodplain-mapping
Alberta Water Portal	http://albertawater.com/
Association of Professional Engineers and Geoscientists (APEG) of BC Annual Conference and AGM	https://events.apeg.bc.ca/ehome/index.php?eventid=127769&
British Columbia Real Estate Association (BCREA) Flood Protection Resources	www.bcrea.bc.ca/government-relations/flood-protection/flood-protection-resources
British Columbia Real Estate Association (BCREA)'s Position on Flood Protection	www.bcrea.bc.ca/government-relations/flood-protection
Coastal Flood Adaptation Strategy	http://www.surrey.ca/city-services/19888.aspx
Ebbwater Flood Map Project – People Living in BC Floodplains	http://www.ebbwater.ca/wp/people-living-in-bc-floodplains/
Flooding in First Nations Communities	https://www.aadnc-aandc.gc.ca/eng/1397740805675/1397741020537
Fraser Basin Council Lower Mainland Flood Management Strategy	http://www.fraserbasin.bc.ca/water_flood.html
Les inondations dans les collectivités des Premières Nations	https://www.aadnc-aandc.gc.ca/fra/1397740805675/1397741020537
Planning Institute of BC Central-North Chapter Conference (Prince George): Planning for Hazards	https://www.pibc.bc.ca/events/pibc-central-north-chapter-2
MANITOBA	
Publications	
2011 Flood: Technical Review of Lake Manitoba,	www.gov.mb.ca/mit/floodinfo/floodproofing/reports/pdf/assiniboine_lak

Lake St. Martin and Assiniboine River Water Levels	emb_lsm_report_nov2013.pdf
After the flood: what to do when flood waters recede	http://www.gov.mb.ca/asset_library/en/spring_outlook/after_flood_boklet.pdf
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