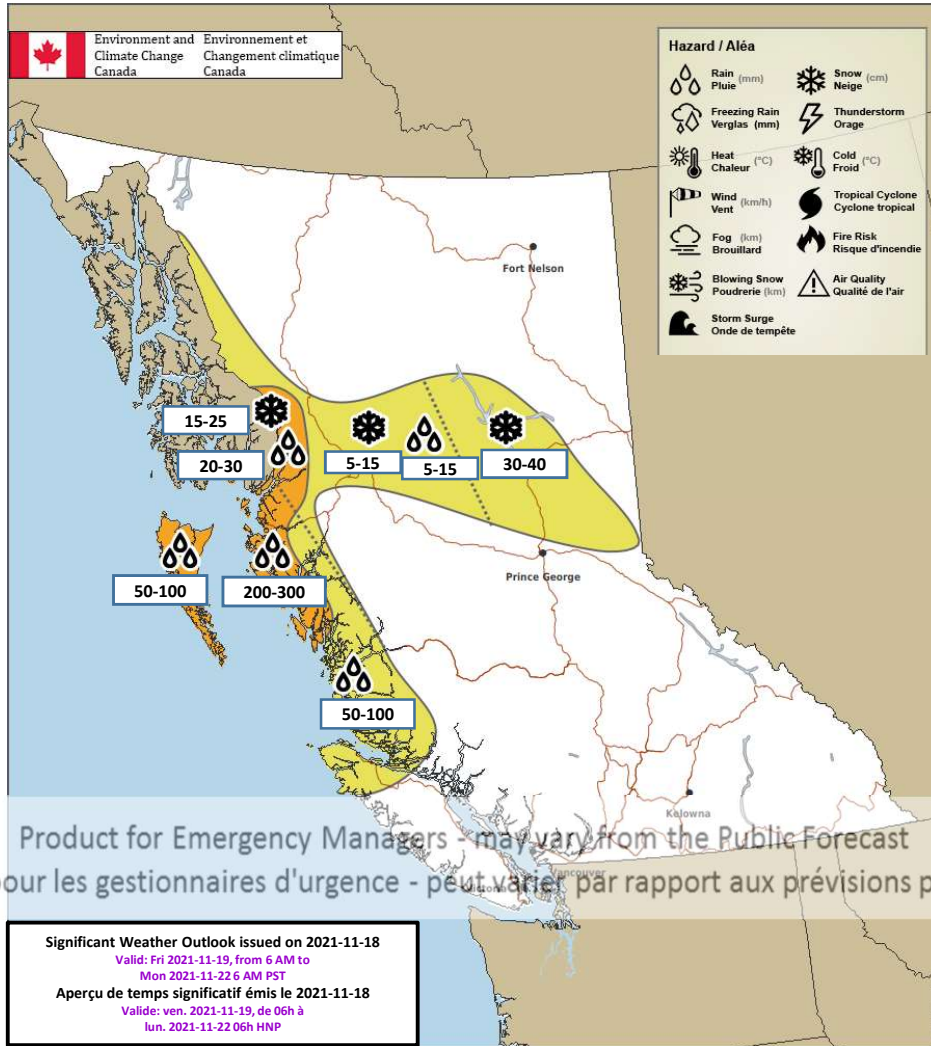




# Heavy Rain, Snow, and Rain on Snow for Northern B.C.

Event Duration: Fri Nov 19 to Mon Nov 22, 2021



		<b>Risk</b>			
<b>Likelihood</b>	High				
	Moderate		✓	✓	
	Low				
	Very Low				
		<b>Impact</b> (Known Vulnerability & Exposure)			

## Impacts

- Flooding from heavy rain or rain on snow
- Heightened risk of washouts, rockfall and landslides
- Challenging driving conditions from interior snowfall



## Certainty

- **Rainfall amounts: medium.** The heaviest amounts seem to be lining up on the North Coast (between Prince Rupert and Ocean Falls), but the amounts have some uncertainty.
- **Precipitation phase, timing and amounts: medium.** Determining how much precipitation will fall as snow and how much as rain and when the transition will occur exactly is challenging at this point. Follow public forecasts closer to the event for precision.
- **Snowmelt: low.** It is very difficult to know how much snow will melt from rising freezing levels and rain.

## Key Points

- A weak-moderate system starts on the North Coast on Friday (November 19, 2021) precluding an Atmospheric River (AR) arriving on Saturday afternoon and lasting through Monday morning.
- The AR will bring heavy rain for the coast and rising freezing levels.
- Precipitation amounts:
  - Between Prince Rupert and Ocean Falls, rainfall amounts could reach the 200-300 mm range
  - Stewart, 15-25 cm of snow over Friday-Saturday then 20-30 mm of rain on Sunday
  - Bulkley Valley (Smithers) may see 5-15 cm of snow on Friday night into Saturday, followed by 5-15 mm of rain
  - Further east in the Mackenzie and Pine Pass area, there may be 30-40 cm of snow between Friday night and Monday
- Freezing levels on the North Coast start at about 500 m then rise to 1000 m by Friday afternoon. There will be a jump to 1800-2000 m by Sunday morning as the AR arrives. Additional runoff from snowmelt may occur.
- Strong southeasterly winds will accompany the AR with 80-100 km/h possible for coastal communities Saturday night and Sunday

## Next Update/WebEx

- No further updates to the weather notification are expected at this time. Please monitor ECCC public alerts.

## Long Range Forecast – For Northern BC

Subsequent weather notifications will be issued as needed

Tues Nov 23	Wed Nov 24	Thu Nov 25
Rain (coast), snow (interior)	Rain (coast), snow (interior)	Rain (coast), snow (interior)



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## Additional Information

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- Please monitor current weather forecasts and alerts:

[http://weather.gc.ca/canada\\_e.html](http://weather.gc.ca/canada_e.html)

[http://weather.gc.ca/warnings/index\\_e.html](http://weather.gc.ca/warnings/index_e.html)

- Please consult the following websites for further information:

BC RFC Warnings page: <http://bcrfc.env.gov.bc.ca/warnings/index.htm>

BC RFC Current Streamflow Conditions: [http://bcrfc.env.gov.bc.ca/freshet/map\\_all\\_wsc.html](http://bcrfc.env.gov.bc.ca/freshet/map_all_wsc.html)

Mountain Weather Forecast: [www.avalanche.ca/weather](http://www.avalanche.ca/weather)

Drive BC: [www.drivebc.ca](http://www.drivebc.ca)