

**Media Teleconference  
25 May 2010**

**Call-in  
1-877-413-4814 (English)  
Passcode: 3285607#  
Call between 10:30-11:30 a.m.**



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# Lake Ontario - St. Lawrence River Drainage Basin



Moses-Saunders dam between Cornwall and Massena controls water flows from Lake Ontario into the St. Lawrence River.



### Legend

- Cities
- International Border
- St. Lawrence River Drainage Basin
- Lake Ontario Drainage Basin



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## Regulation of Lake Ontario follows:

- Boundary Waters Treaty of 1909
  - Established the IJC
  - Set order of precedence of interests
- 1952 IJC Order of Approval
  - Approved construction of hydropower projects which allowed outflows to be controlled
- 1956 Supplementary Order
  - Defined criteria consistent with the Treaty
- Plan 1958-D
  - Established method to manage flow from Lake Ontario

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## WATER LEVELS

	Actual* 19 May 2010	Compared To	
		Average**	Last Year
<b>Lake Superior</b>	<b>183.09 m (600.69 ft.)</b>	<b>-27 cm (-11 in.)</b>	<b>-18 cm (-7 in.)</b>
<b>Lake Michigan-Huron</b>	<b>176.14 m (577.89 ft.)</b>	<b>-34 cm (-13 in.)</b>	<b>-21 cm (-8 in.)</b>
<b>Lake Erie</b>	<b>174.24 m (571.65 ft.)</b>	<b>-6 cm (-2 in.)</b>	<b>-20 cm (-8 in.)</b>
<b>Lake Ontario</b>	<b>74.73 m (245.18 ft.)</b>	<b>-29 cm (-11 in.)</b>	<b>-46 cm (-18 in.)</b>
<b>Lake St. Lawrence</b>	<b>73.73 m (241.90 ft.)</b>	<b>+6 cm (+2 in.)</b>	<b>-3 cm (-1 in.)</b>
<b>Lake St. Louis</b>	<b>20.61 m (67.62 ft.)</b>	<b>-95 cm (-37 in.)</b>	<b>-121 cm (-48 in.)</b>
<b>Montreal Harbour</b>	<b>5.35 m (17.55 ft.)</b>	<b>-177 cm (-70 in.)</b>	<b>-171 cm (-67 in.)</b>

\*Preliminary.

\*\*Statistics: Great Lakes: 1918-2009; St. Lawrence River: 1960-2009; Montreal: 1967-2009.

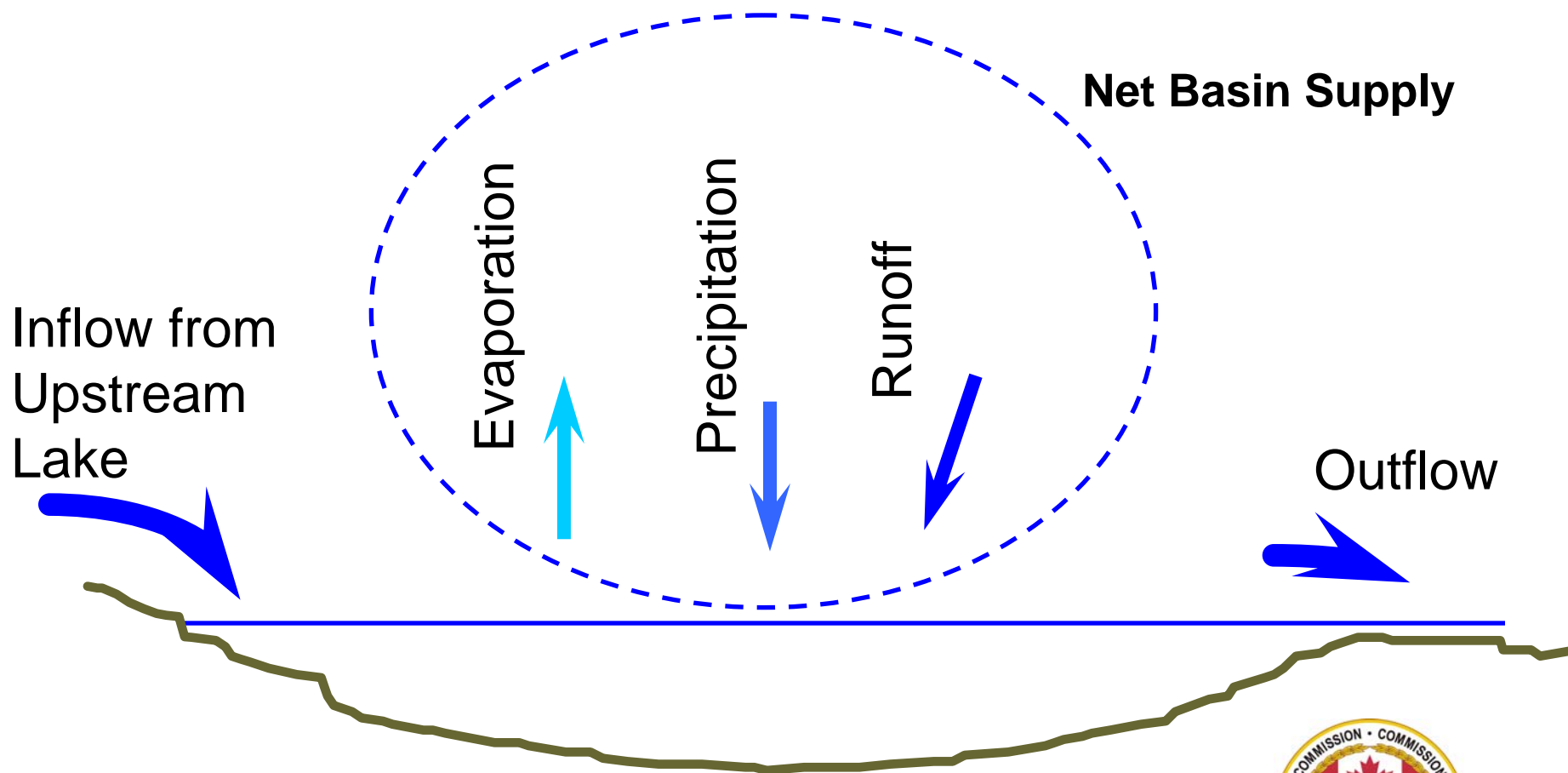
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# Great Lakes Water Supplies

(Factors Affecting Water Levels)

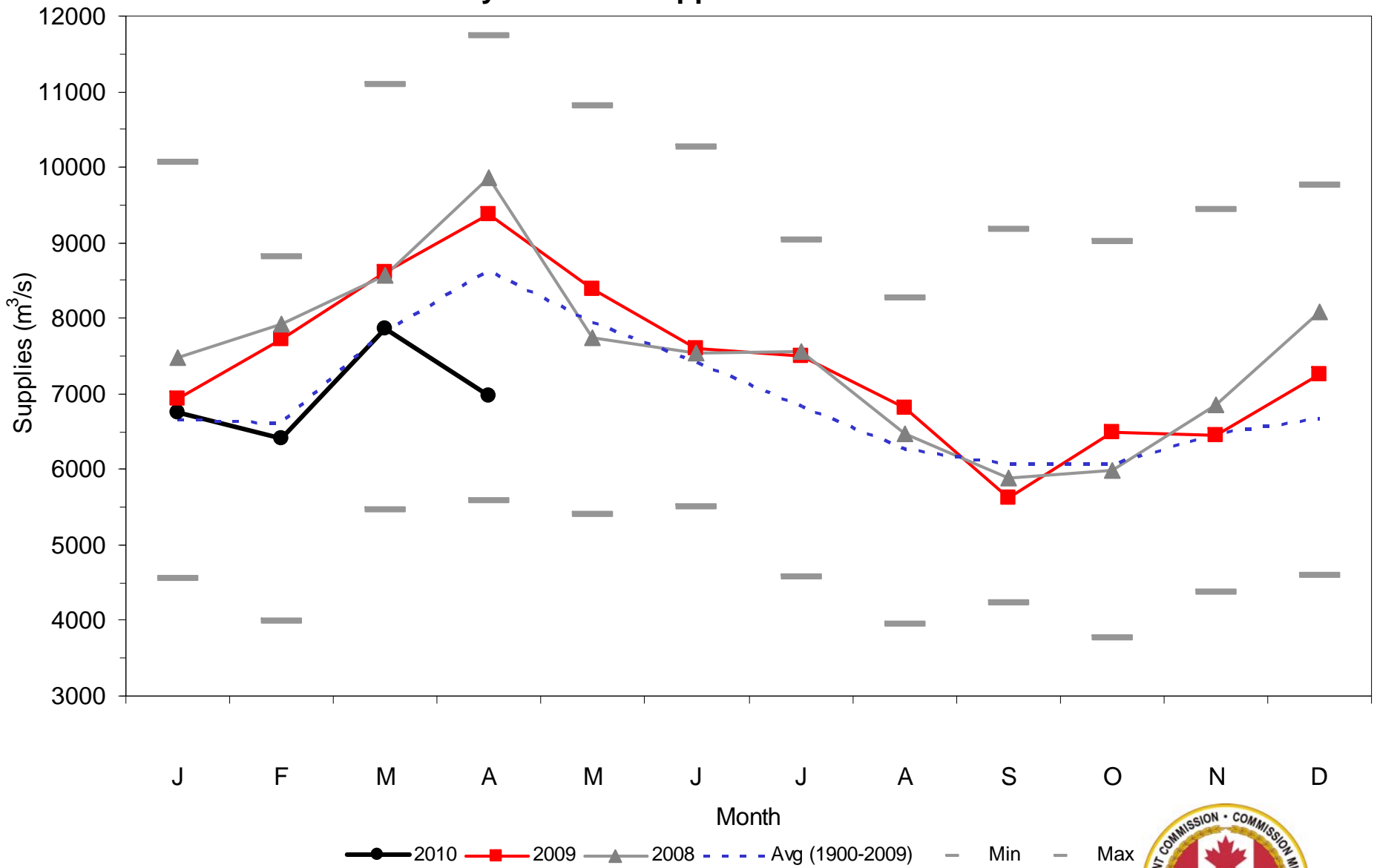


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## Monthly Net Total Supplies to Lake Ontario

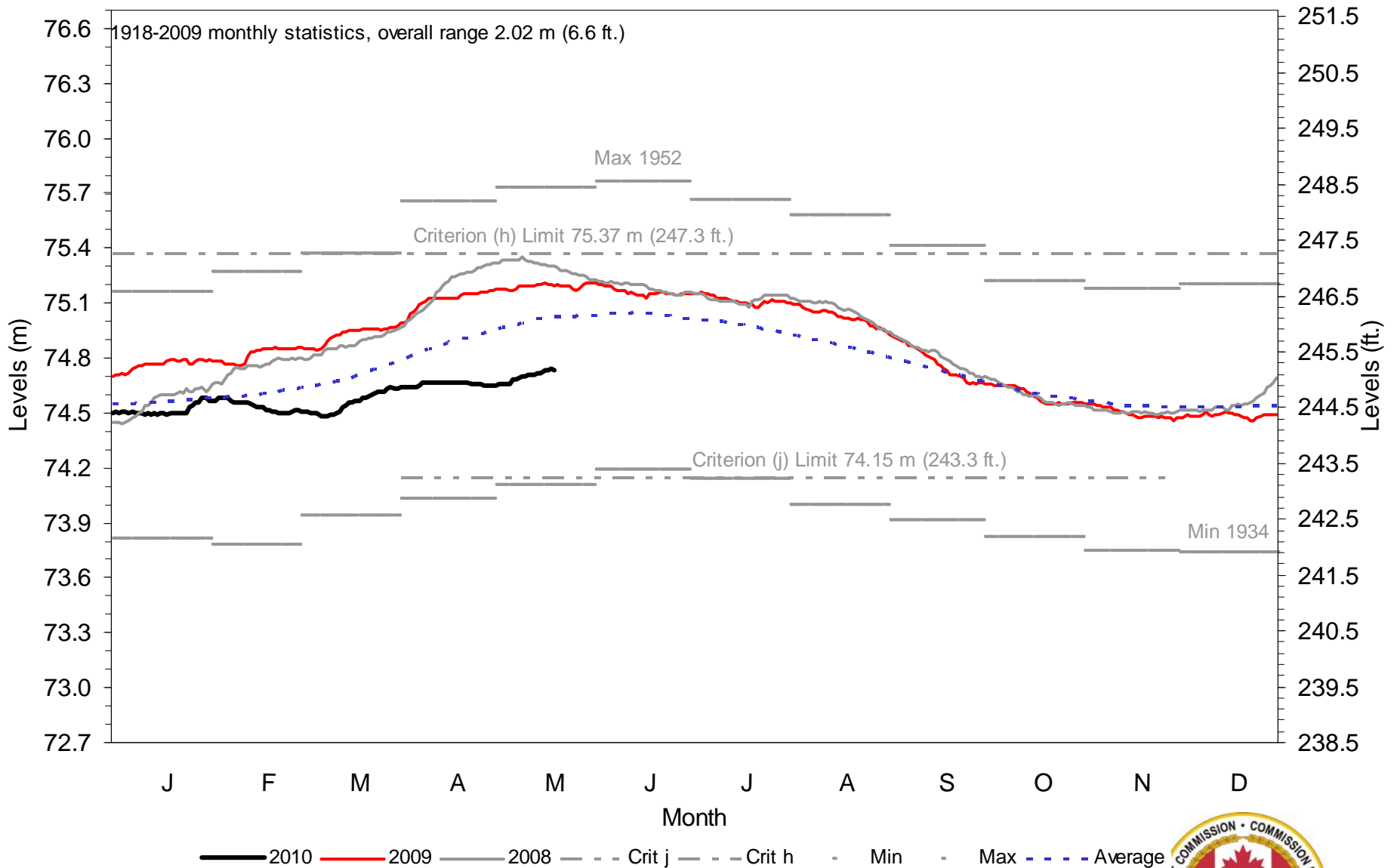


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# Daily Lake Ontario Levels

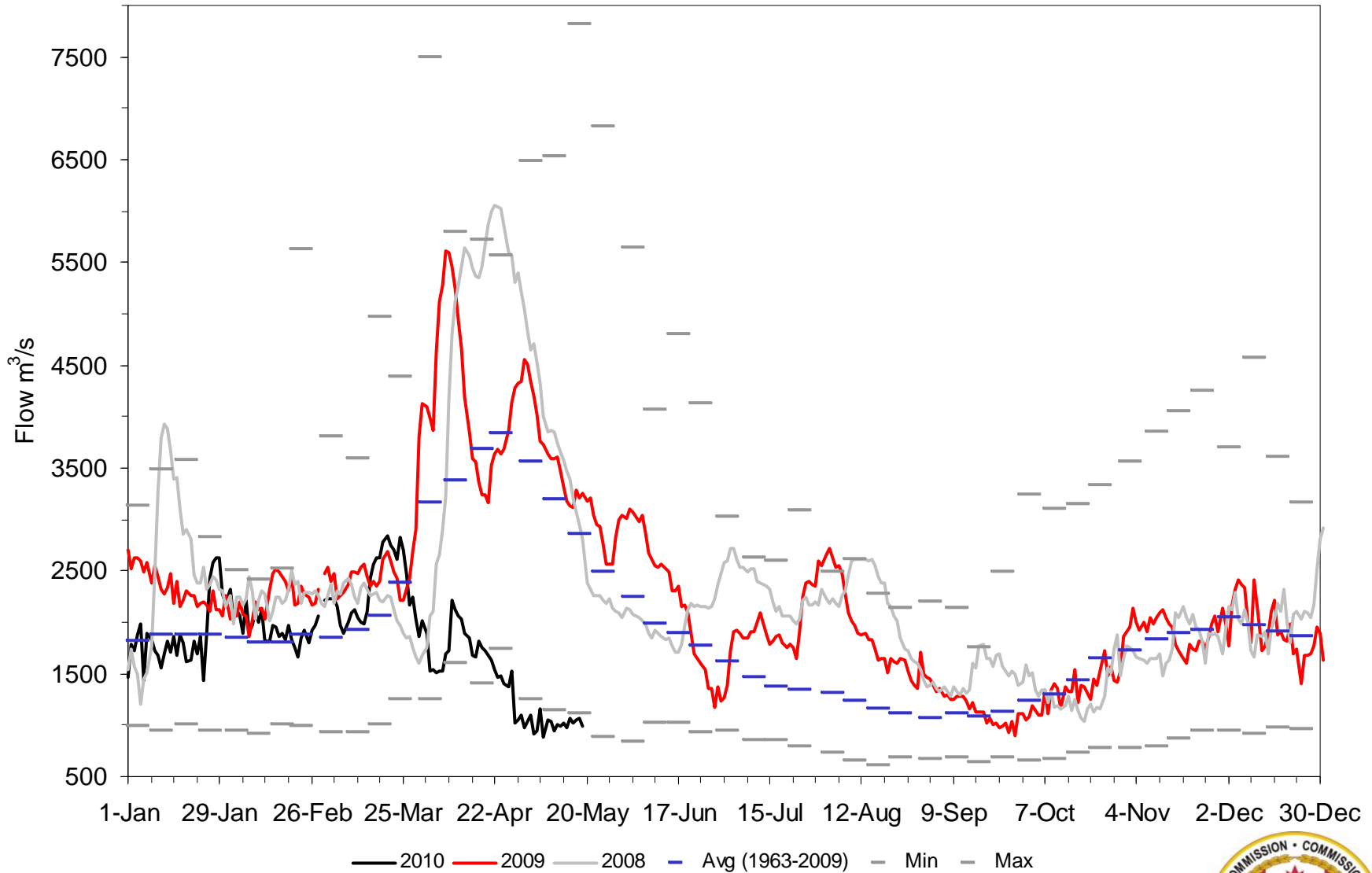


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## Daily Ottawa River Flow @ Carillon

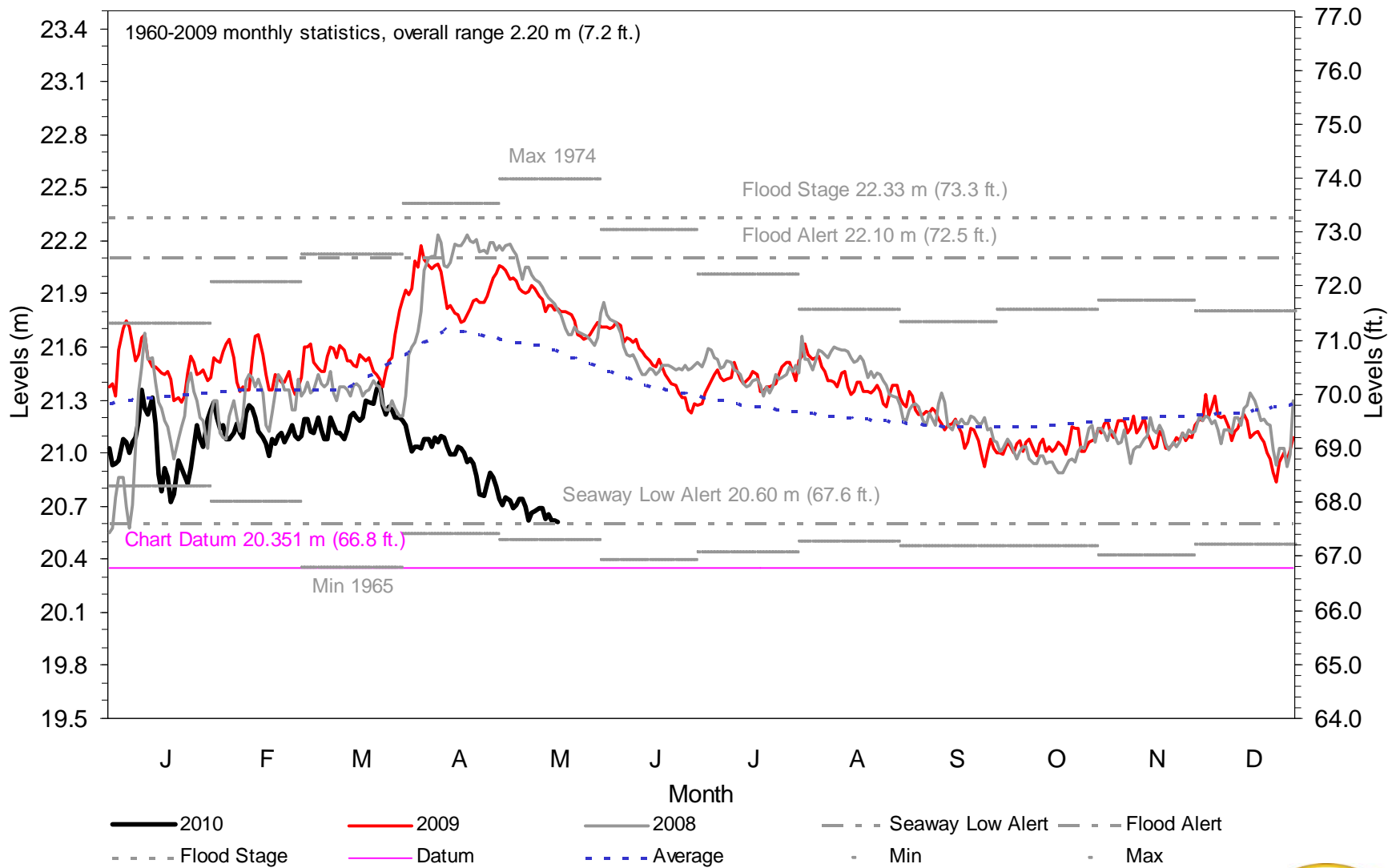


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## Daily Lake St. Louis Levels @ Pointe-Claire

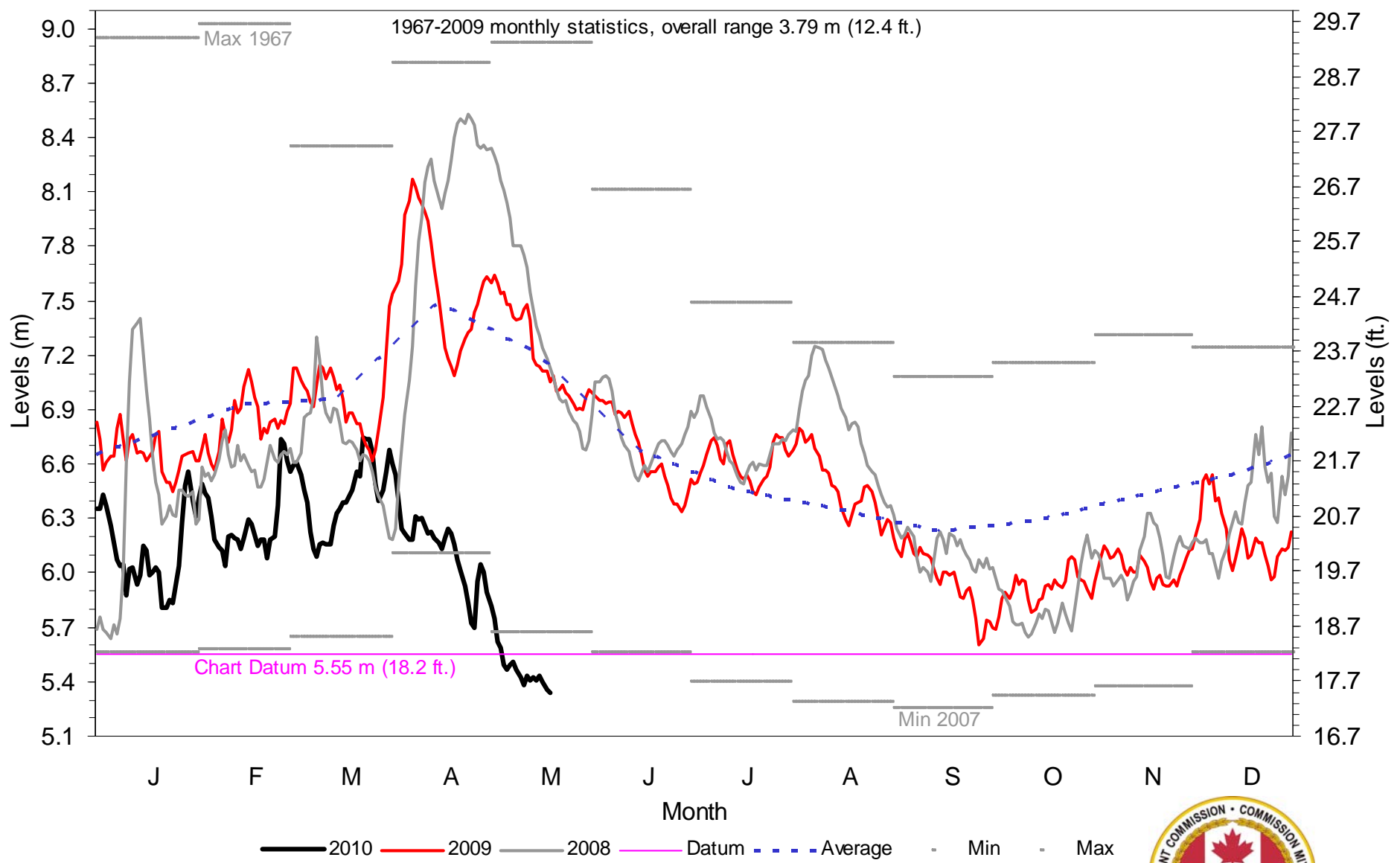


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### Daily Port of Montreal Levels @ Jetty #1

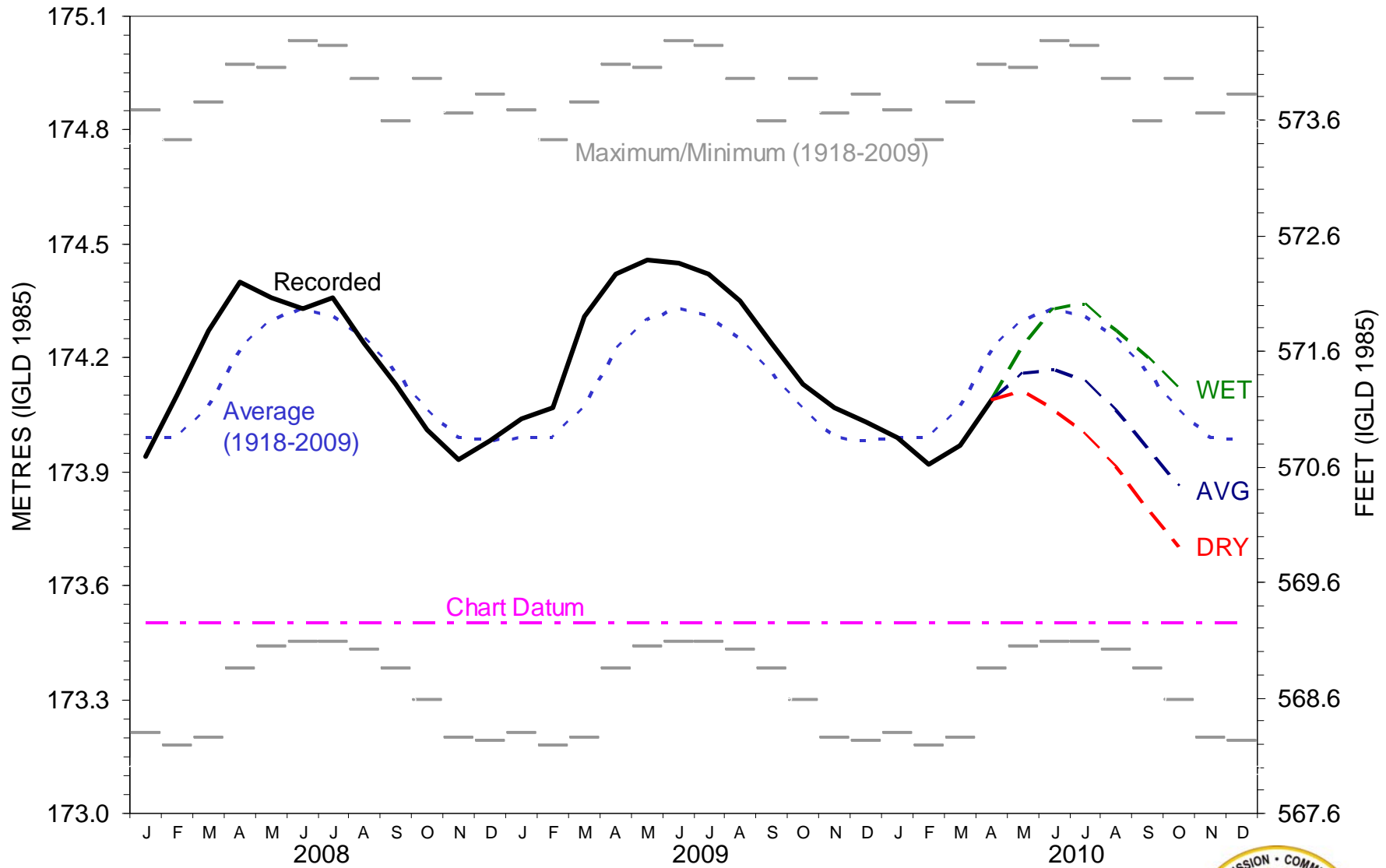


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# LAKE ERIE MONTHLY WATER LEVEL FORECAST

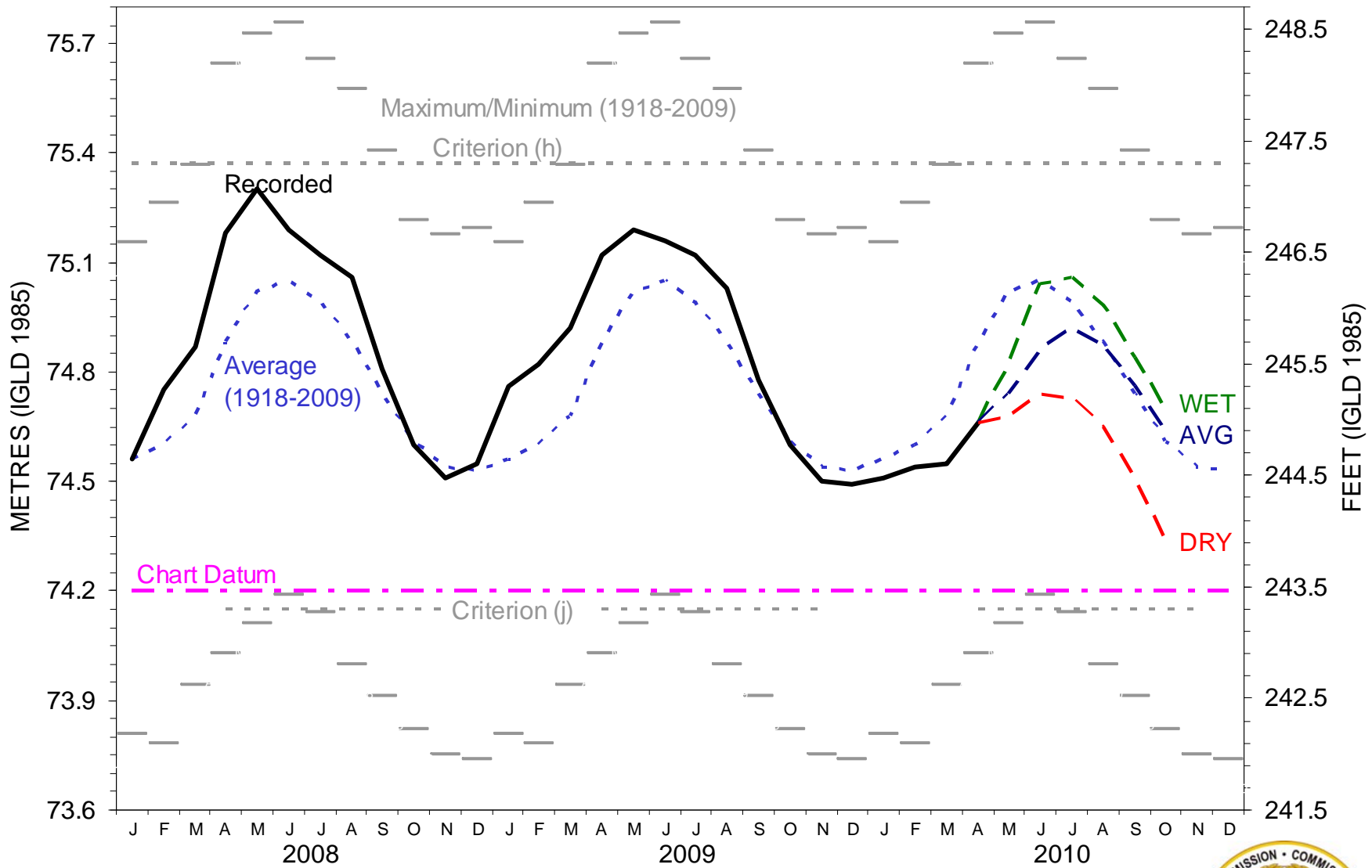


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# LAKE ONTARIO MONTHLY WATER LEVEL FORECAST

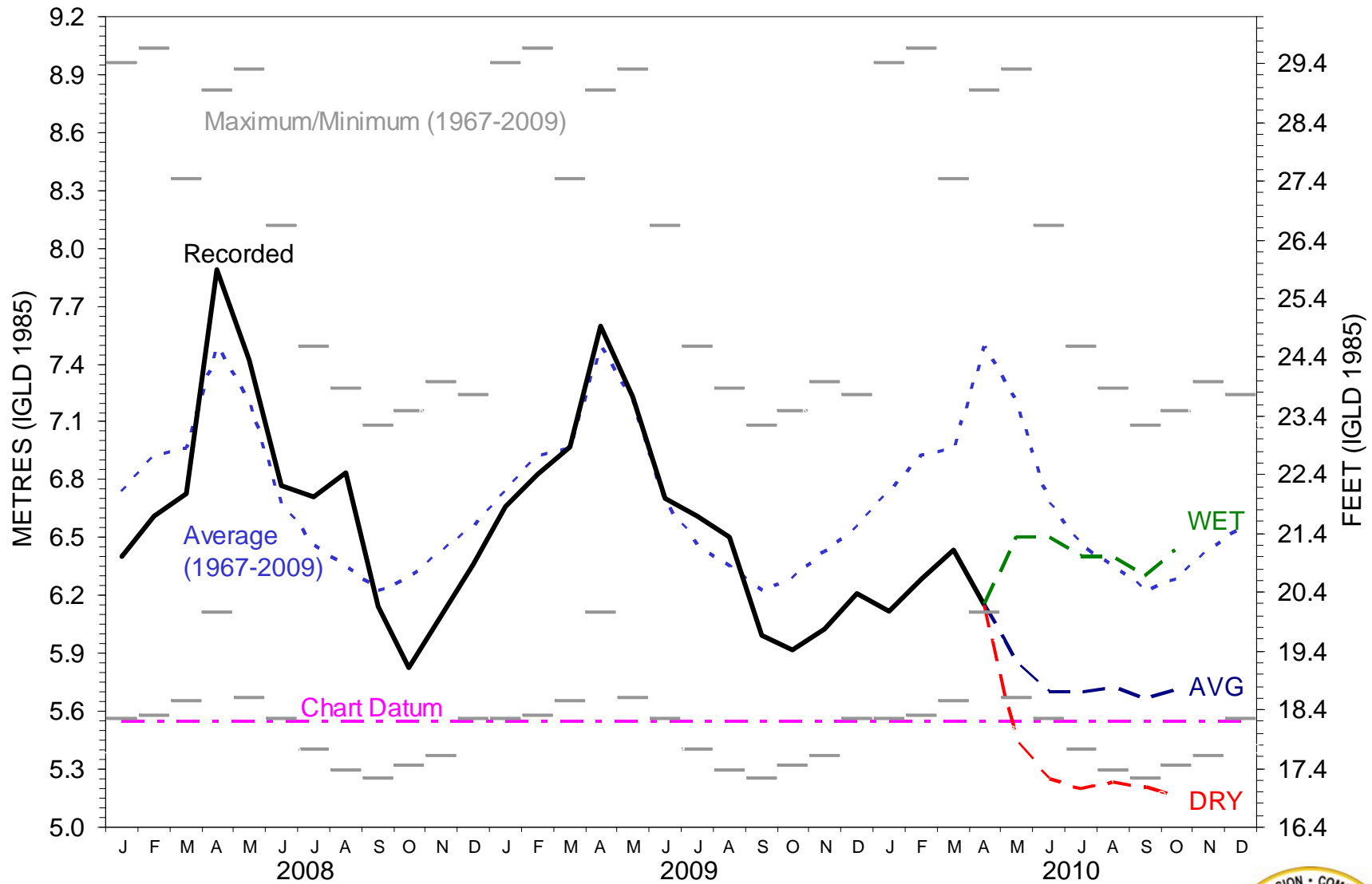


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# MONTREAL HARBOUR MONTHLY WATER LEVEL FORECAST



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# Regulation Strategy

- Release outflows in accordance with Regulation Plan 1958-D
- If a critical need arises (e.g., level falls below Seaway minimum, or minimum for vessels inbound to the Port of Montreal, or critical hydropower needs), the outflows may be other than Plan-specified temporarily.
- Any such deviations will be offset as soon as opportunities arise.

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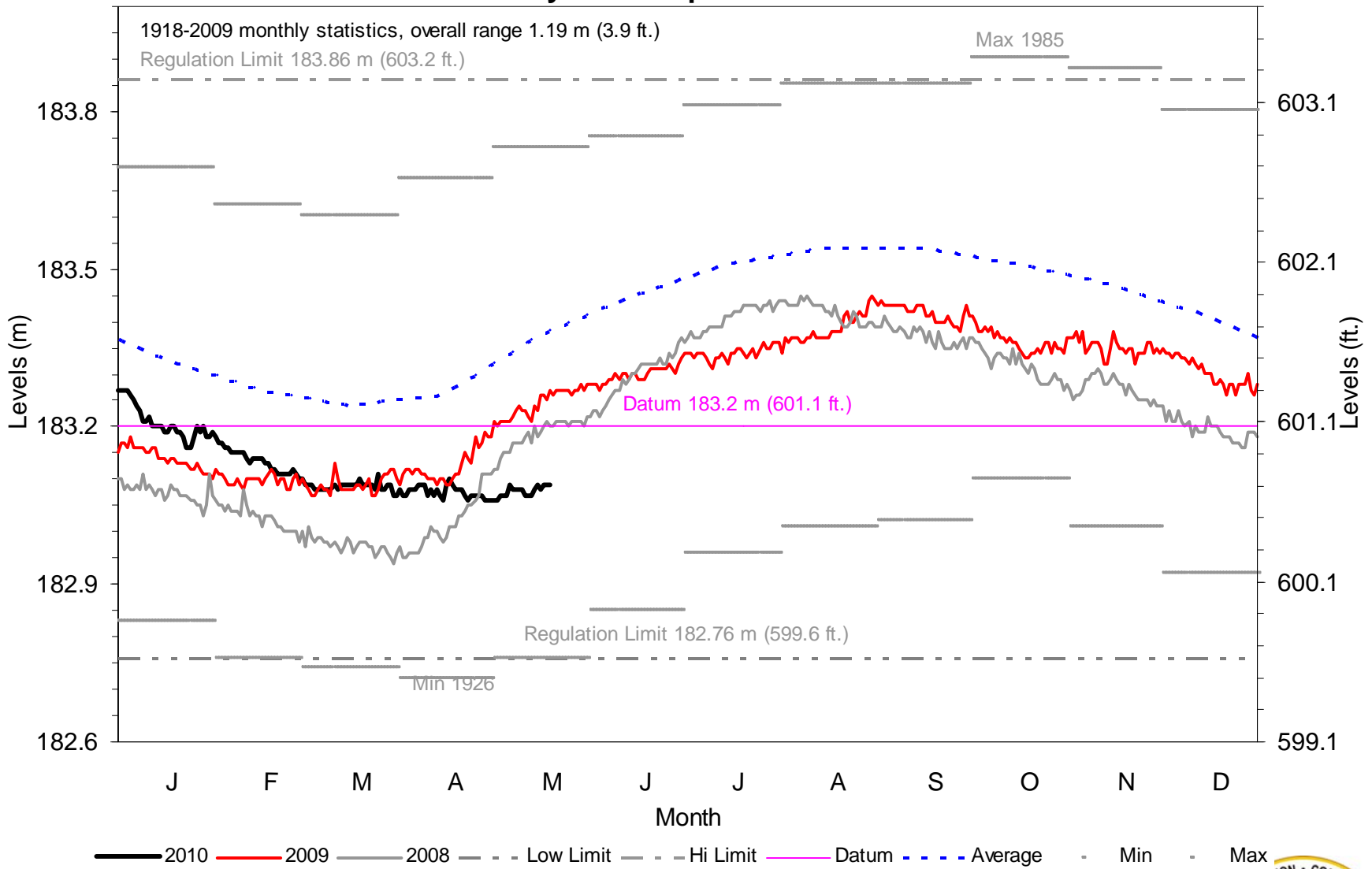
# Additional Information

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# Daily Lake Superior Levels

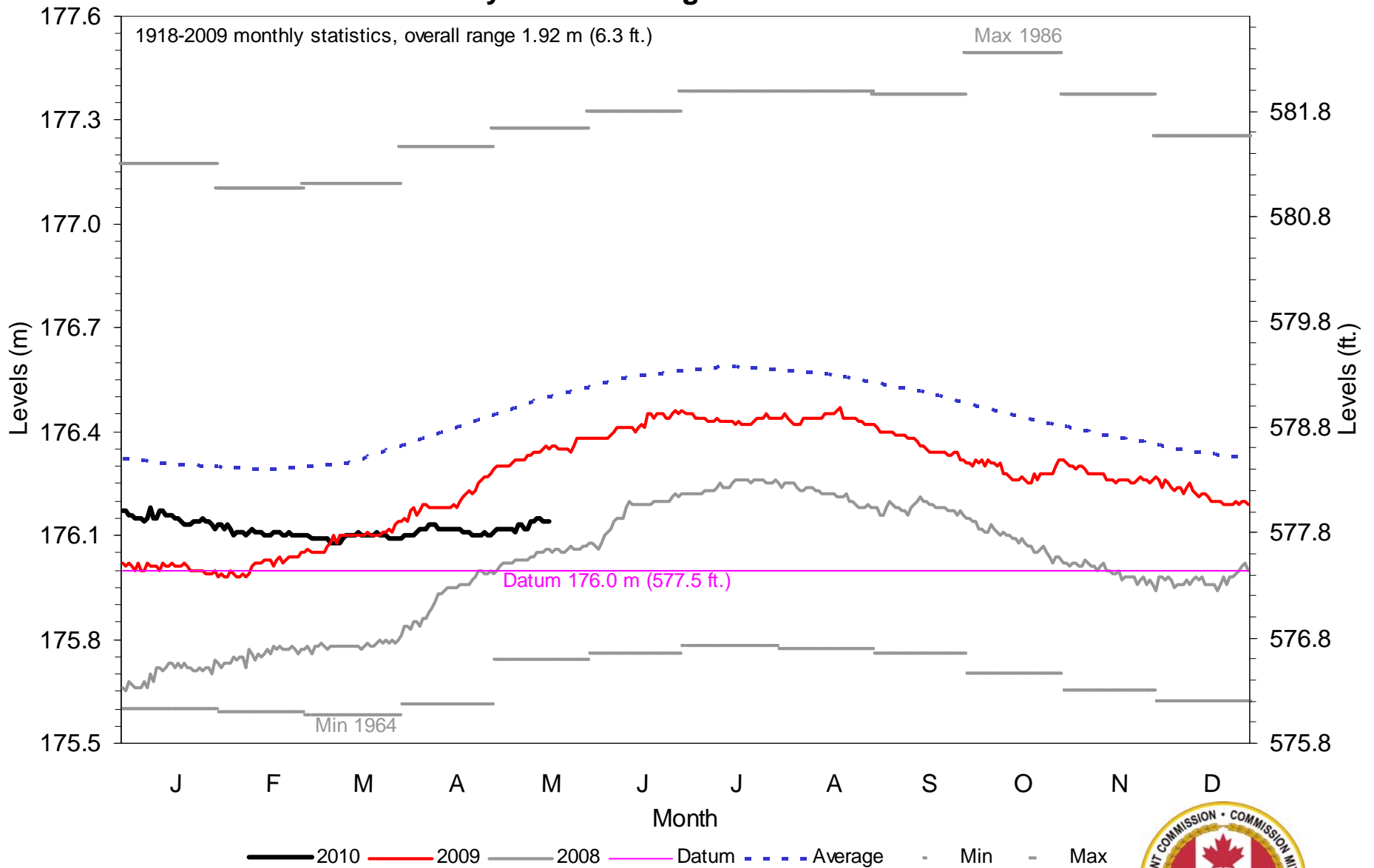


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# Daily Lakes Michigan-Huron Levels

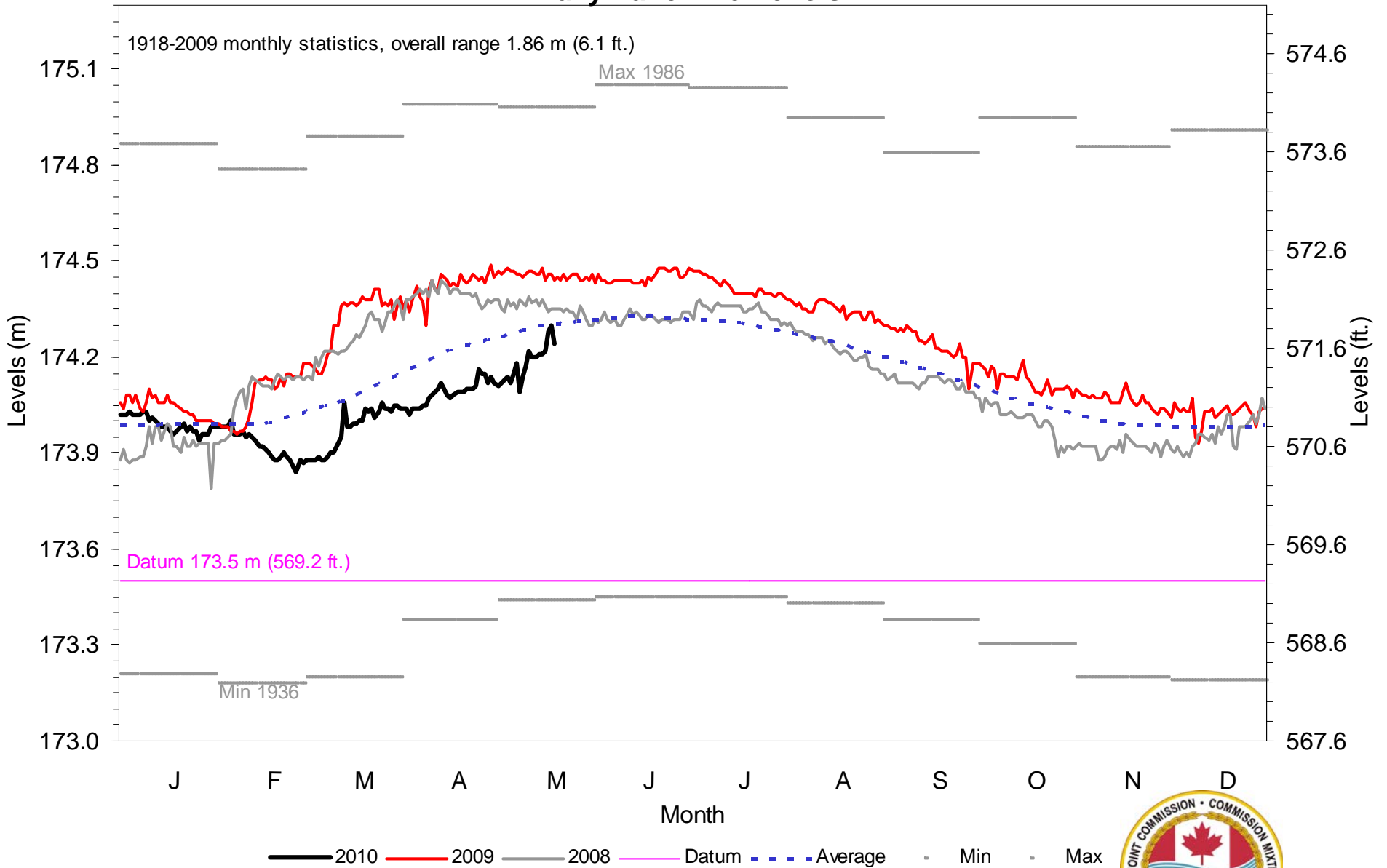


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# Daily Lake Erie Levels

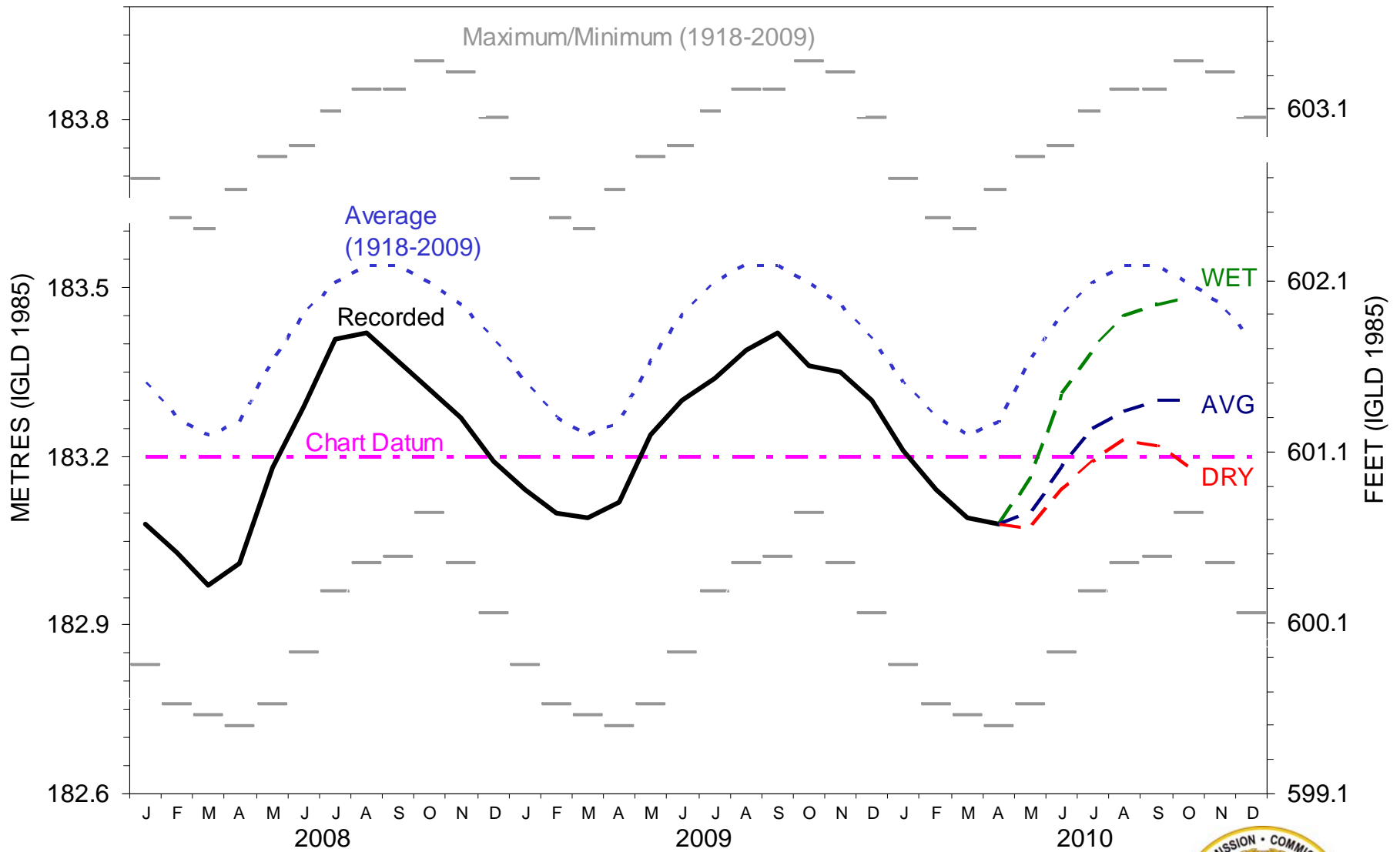


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# LAKE SUPERIOR MONTHLY WATER LEVEL FORECAST

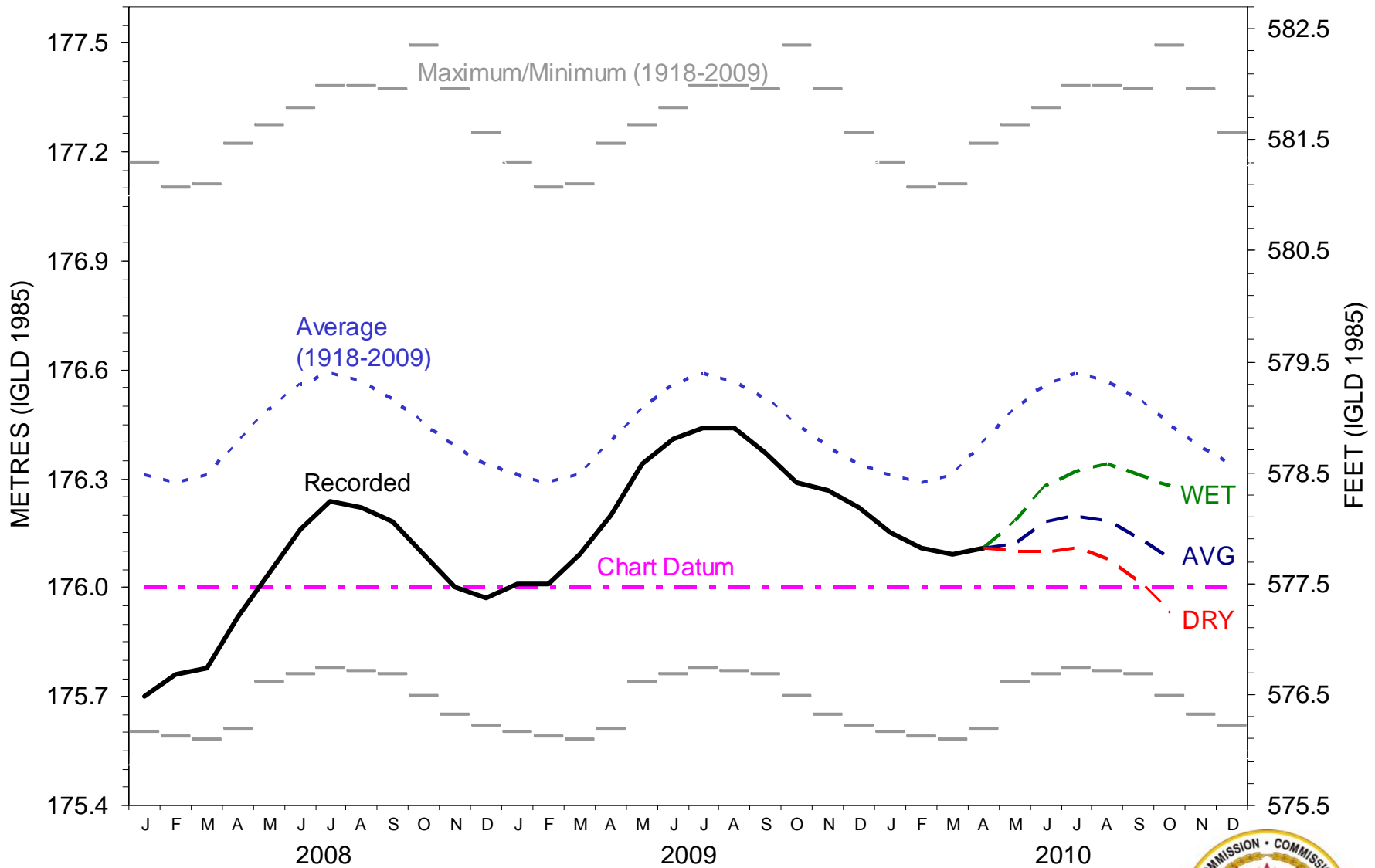


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# LAKES MICHIGAN-HURON MONTHLY WATER LEVEL FORECAST

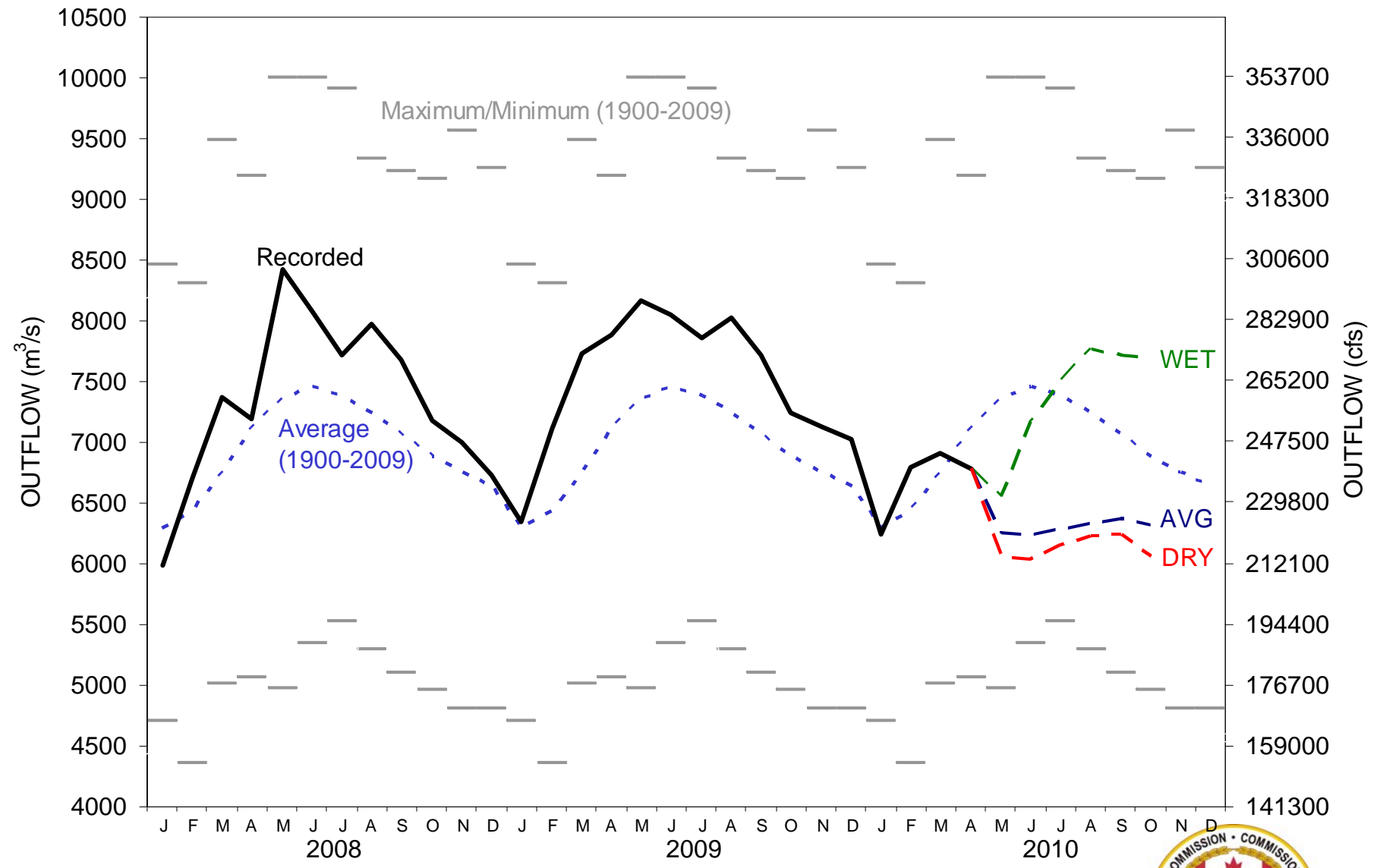


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# LAKE ONTARIO MONTHLY OUTFLOW FORECAST

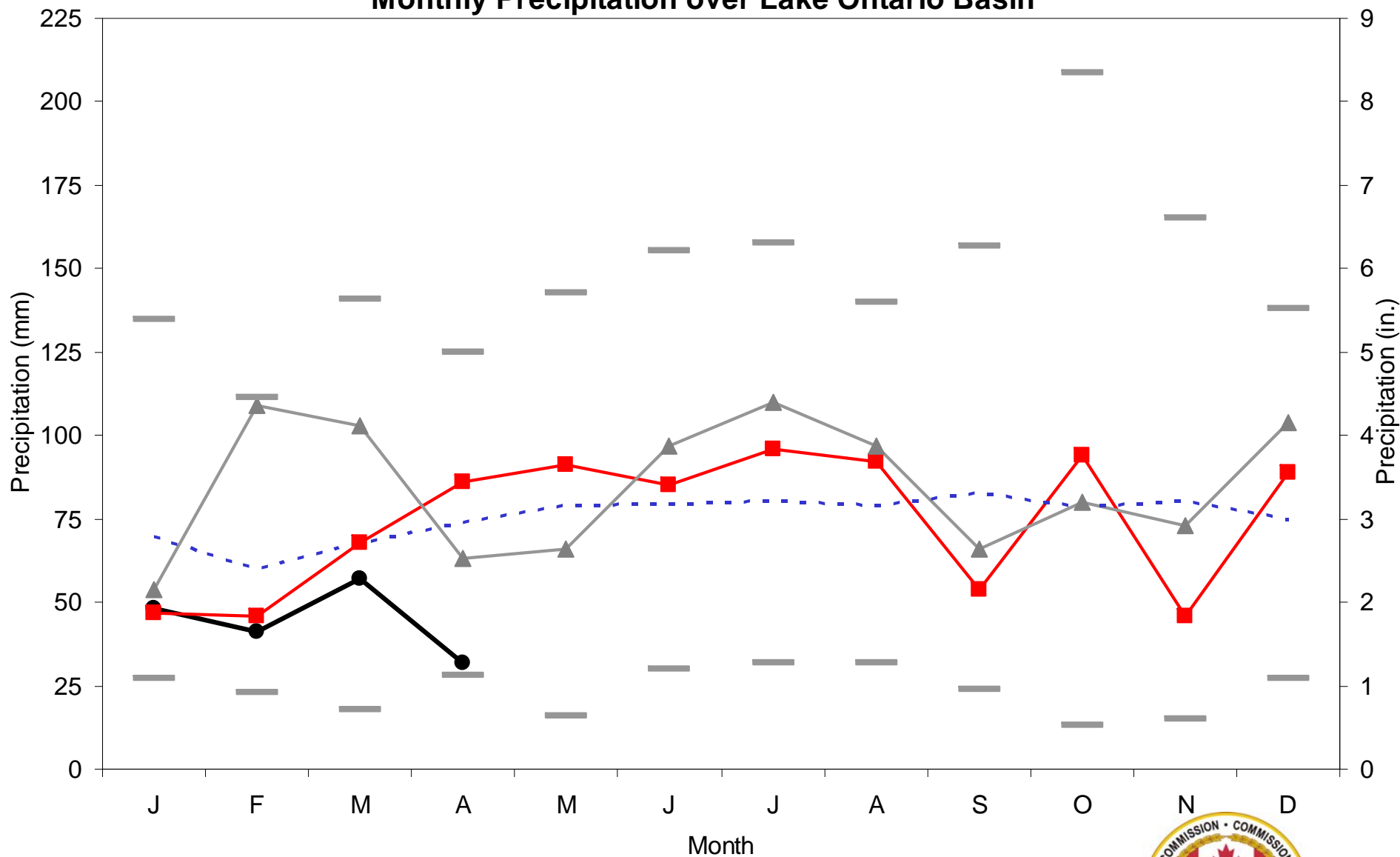


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## Monthly Precipitation over Lake Ontario Basin



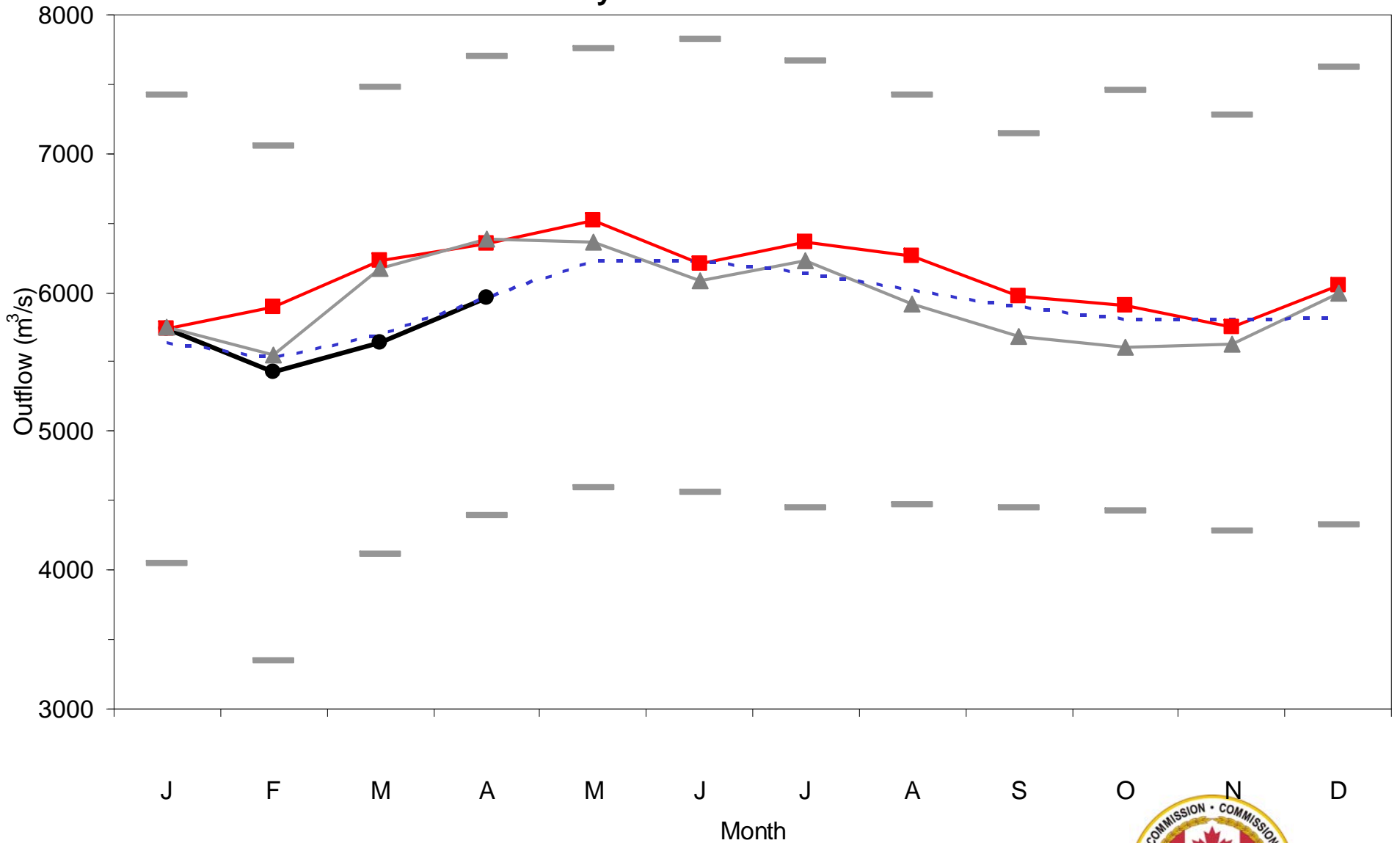
2010
  2009
  2008
  Avg (1900-2009)
  Min
  Max

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### Monthly Lake Erie Outflows



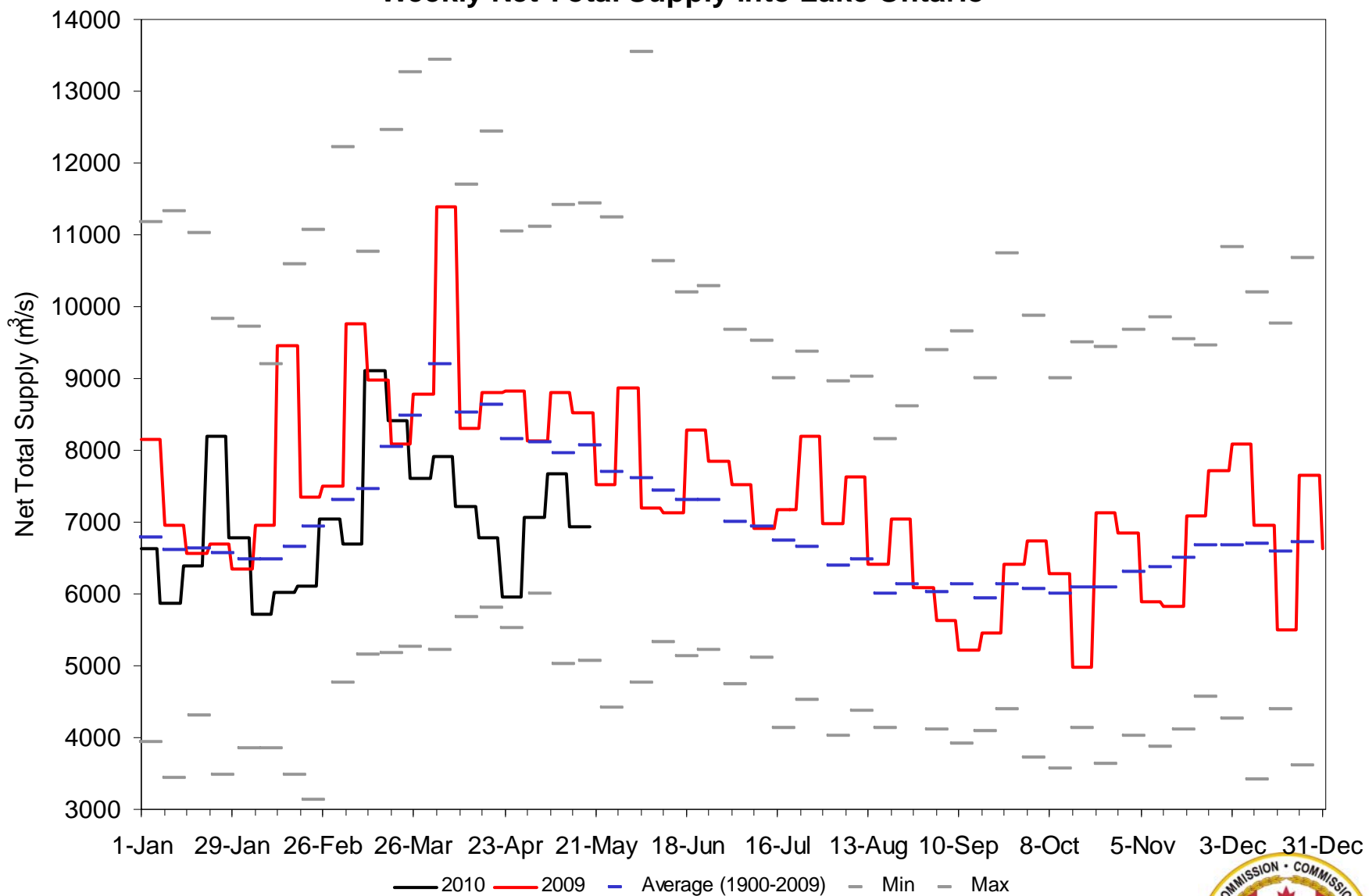
2010
  2009
  2008
  Avg (1900-2009)
  Min
  Max

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## Weekly Net Total Supply into Lake Ontario

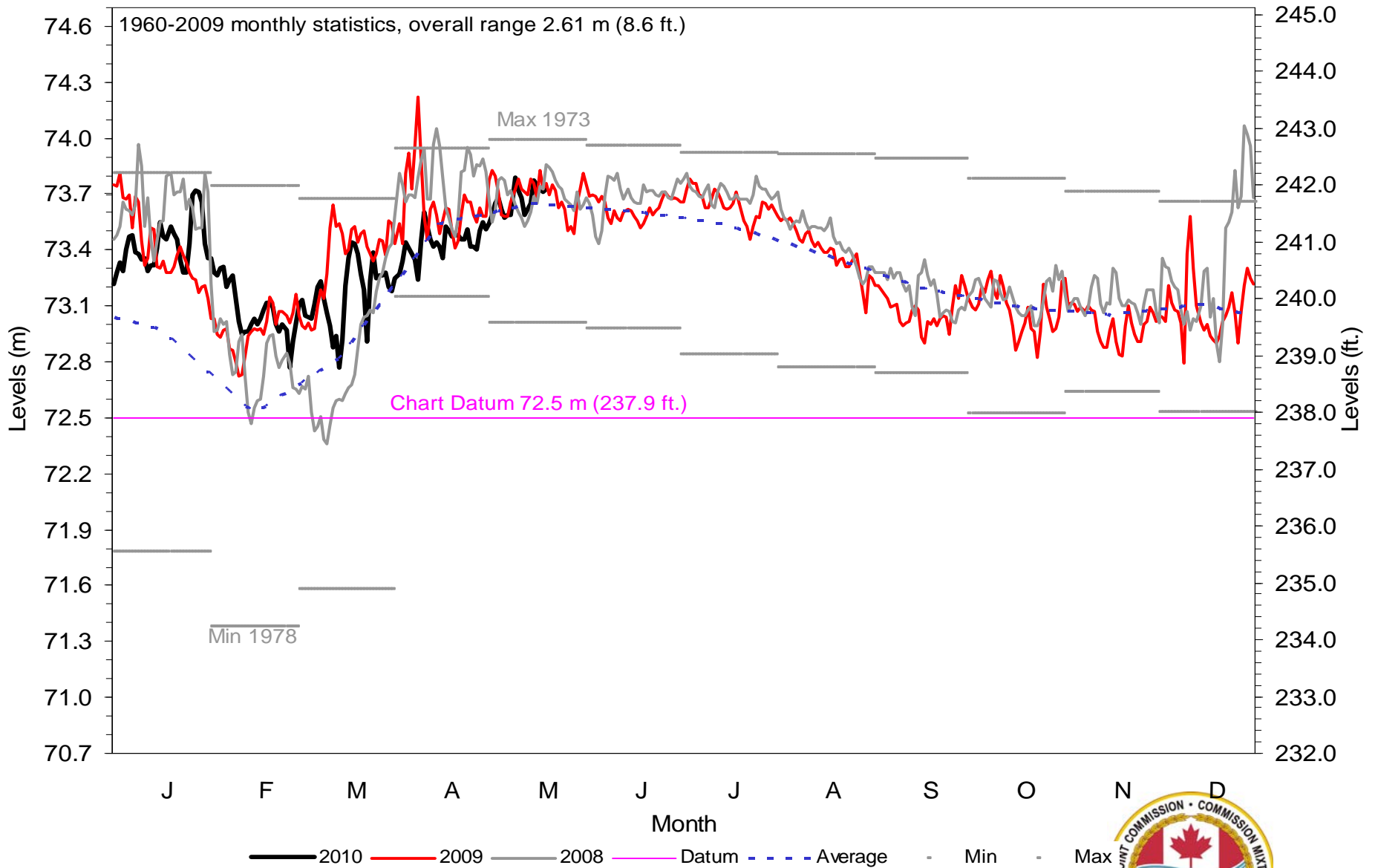


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## Daily Lake St. Lawrence Levels @ Long Sault Dam

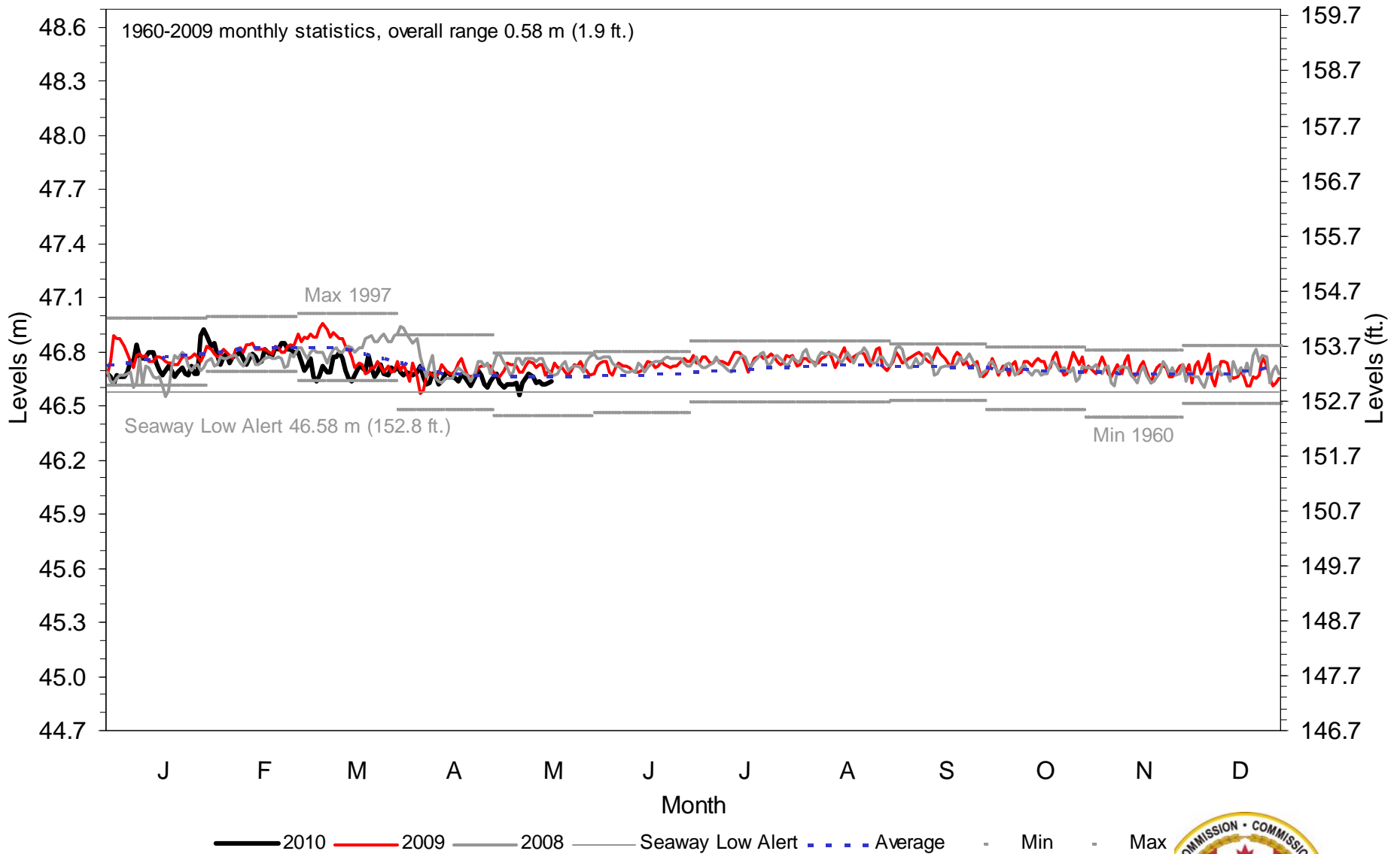


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## Daily Lake St. Francis Levels @ Summerstown

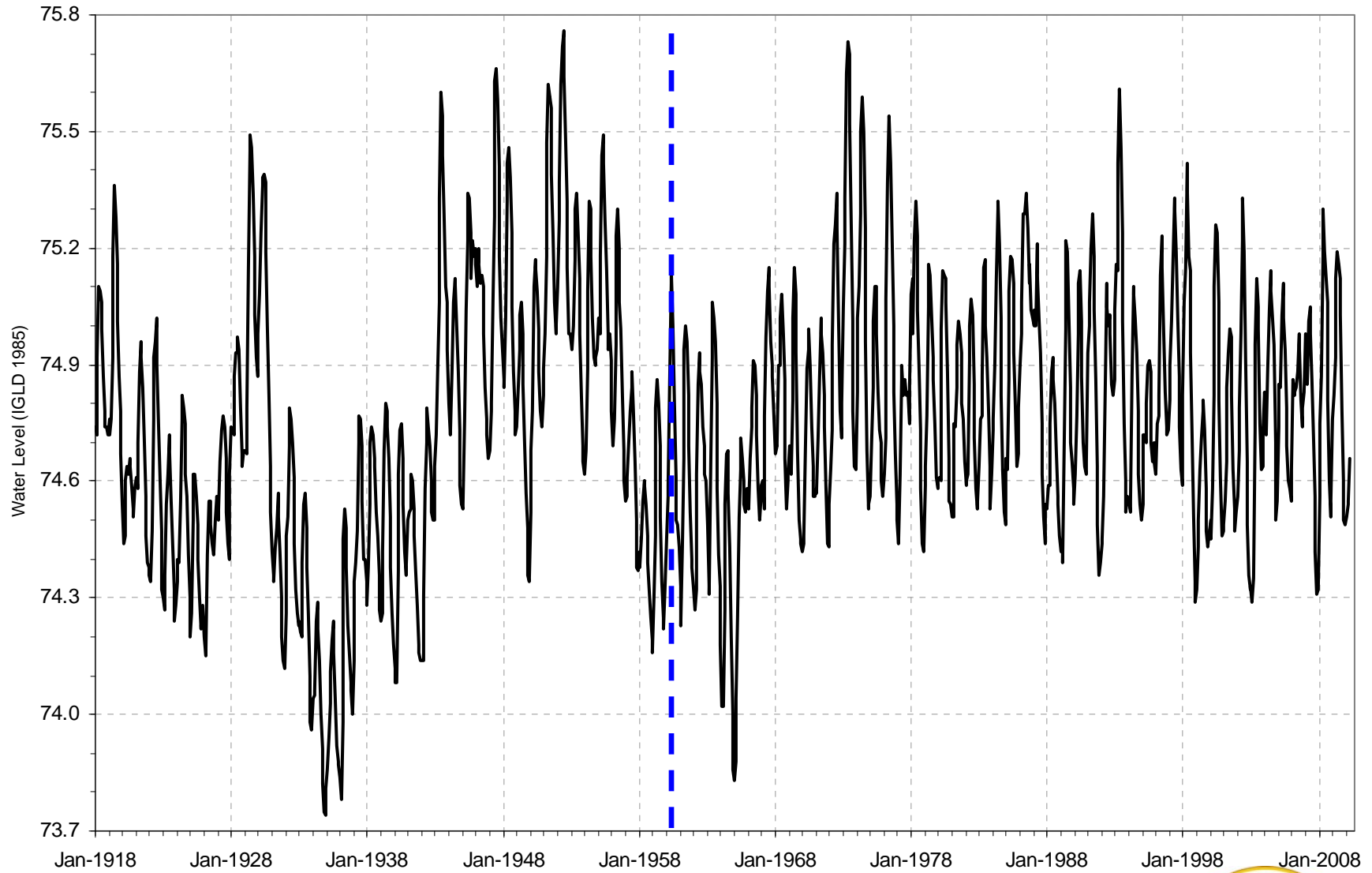


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Lake Ontario Monthly Mean Water Levels (1918-Present)



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# Summary of IJC Criteria (1956)

- a) Don't reduce minimum level at Montreal Harbour below level which would have occurred in the past with like supplies (unregulated)
- b) Winter flows as high as feasible
- c) Flow during breakup in Montreal Harbour no greater than unregulated
- d) Flow during Ottawa River freshet no greater than unregulated
- e) Keep minimum flows as high as feasible
- f) Keep maximum flows as low as possible

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# Summary of IJC Criteria (continued)

- g) Reduce extremes in Lake Ontario levels
- h) Maximum monthly mean Lake Ontario level 75.37 m (247.3 ft).
- i) Reduce frequency of monthly mean levels above 75.07 m (246.3 ft) compared to unregulated.
- j) Minimum monthly mean Lake Ontario level in navigation season 74.15 m (243.3 ft).
- k) If supplies **greater** than past, operate to benefit riparians.  
If supplies **less** than past, operate for navigation and power.

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## IJC Orders also specify:

- Minimum levels for navigation in Lake St. Lawrence
- Maximum current velocity in river to maintain safe navigation
- Iroquois Dam to limit high levels on Lake St. Lawrence

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