

BC HYDRO OPERATIONS - ICE OBSERVATION REPORT 28

Flight: Wednesday February 21, 2007
Report: February 22, 2007
Report by Dale Bairstow and Martin Jasek

The responsibility for ice observations on the Peace River passes to BC Hydro from Alberta Environment (AENV) when the ice front is upstream of Dunvegan. That responsibility was transferred on February 2, 2007. The numbering of reports is a continuation of the AENV reports.

Flight Observations by Dale Bairstow and Darin Thompson

A flight observation was conducted out of the Fort St. John Airport on Wednesday Feb 21, 2007. Air temperature at the airport was: -22° C. The weather was mostly cloudy.

Ice Observations

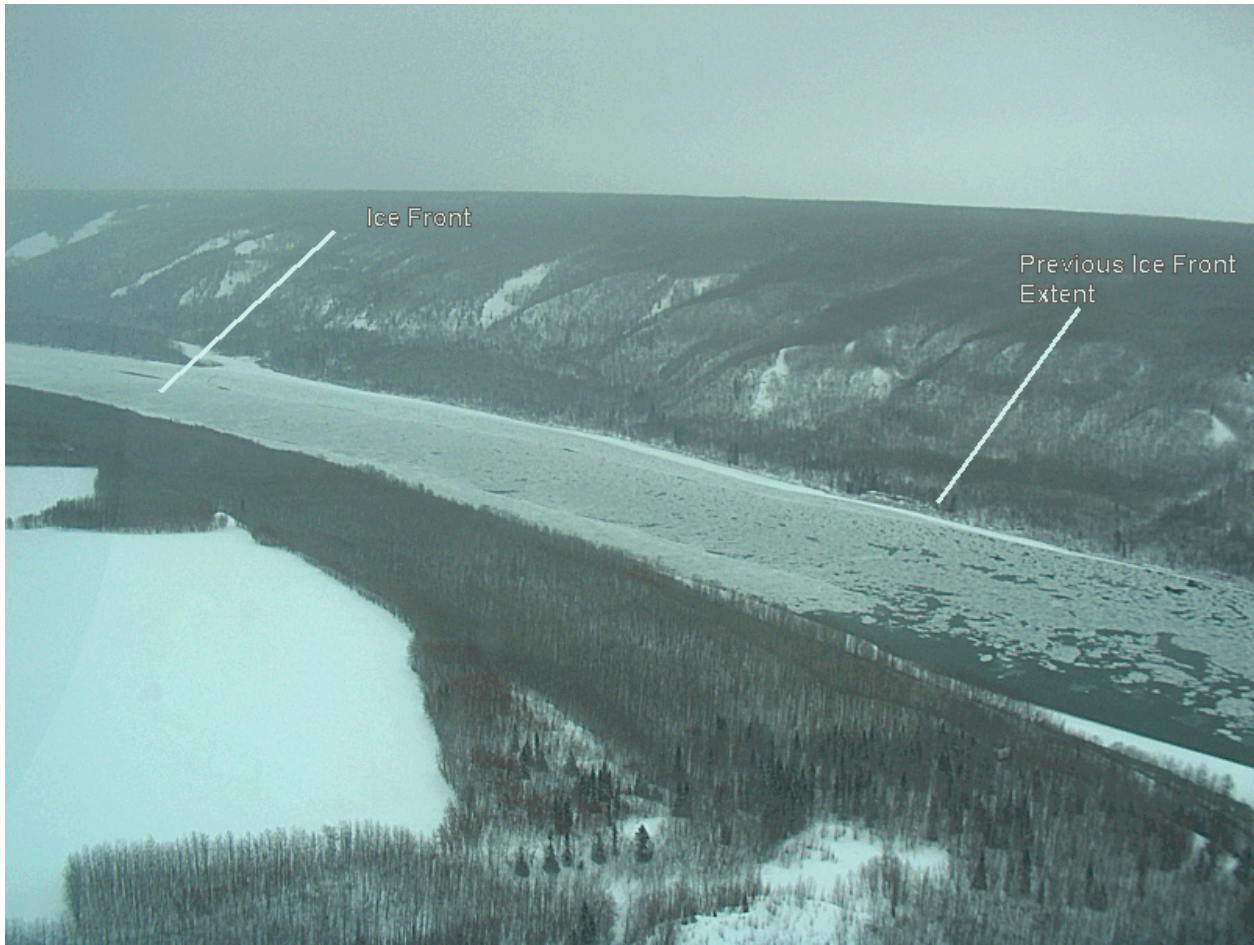
Location of the Ice Front: The ice front had advanced 12 km since the last observation on Feb 15 and was located at **km 212 on Feb 21, 2007, 10:51 MST**. This was approximately 84 km upstream of Dunvegan or about 48 km downstream of the Clayhurst Bridge near the BC/AB border. The average advance rate of the ice front between the last two observations was about 2.0 km/day.

Detailed Observations:

km 179	- 25 % surface ice coverage composed of single white pans
km 186	- 30% surface ice coverage composed of single white pans
km 195	- 40% surface ice coverage composed of single white pans
km 200	- 40% surface ice coverage composed of single white pans
km 209	- 80% surface ice coverage composed of single white pans and rafts
km 211	- 95% surface ice coverage composed of single white pans and rafts
km 211	- upstream extent of shore ice suggesting that ice front had been this far upstream since the last flight (Feb 15) (shore ice was juxtaposed)
km 212	- ice front Feb 21, 10:51 MST
km 214.5	- ice cover is consolidated
km 217	- toe of a consolidation
km 221	- tension tear with some loose ice
km 223	- toe of a large consolidation
km 228	- ice has consolidated was juxtaposed on Feb 15
km 228 to 340	- ice was consolidated, was juxtaposed on Feb 15
km 241	- ice condition the same as previous flight
km 243	- ice condition the same as previous flight except for a new narrow lead about 300 m long 30 m wide.

Additional observations downstream of km 243 not covered by Feb 15 flight

km 270	- toe of a consolidation
km 273	- toe of a consolidation
km 275 -276	- toe of a consolidation
km 287	- toe of a consolidation



Most upstream extent of ice front between Feb 15 and Feb 21 (km 211) and ice front at km 212.
(flow direction is right to left).



Ice front at km 212 (looking upstream).



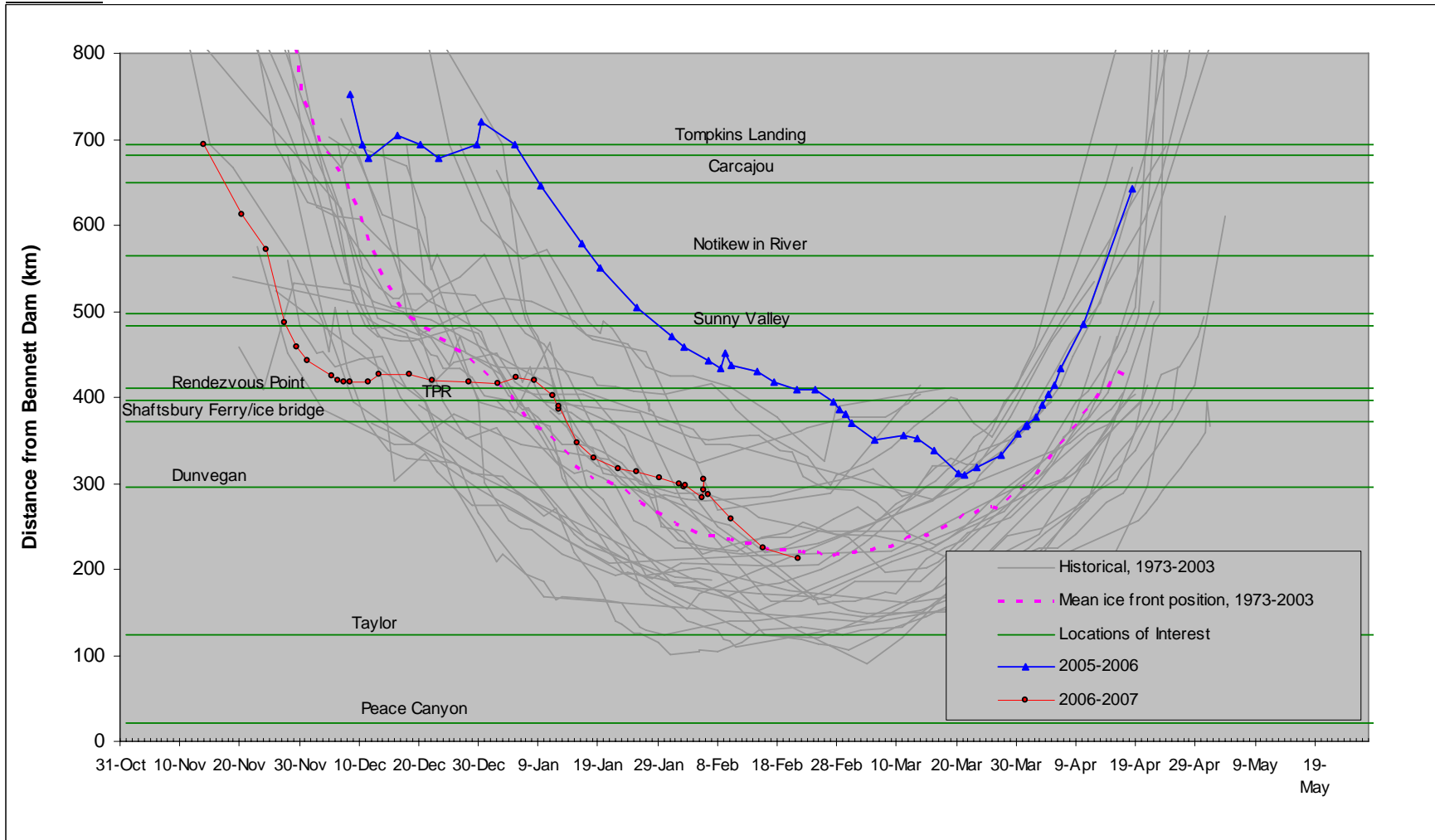
Toe of consolidation at km 223 (looking upstream).

**Environment
Canada
Forecast
temperatures
(°C)**

		Fort St. John Max/Min	Town of Peace River Max/Min
Thr	22-Feb-07	-12 / -20	-9 / -21
Fri	23-Feb-07	-7 / -17	-8 / -12
Sat	24-Feb-07	-5 / -17	-8 / -17
Sun	25-Feb-07	-9 / -13	-8 / -14
Mon	26-Feb-07	-12 / -18	-11 / -17
Normal Max/Min		-4 / -14	-4 / -15

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Ice Front



The next ice observation flight is scheduled for Saturday Feb 24, 2007.