

BC HYDRO OPERATIONS - ICE OBSERVATION REPORT #11

Flight: Tuesday, January 27, 2009

Report: January 28, 2009

Report by Kerry Paslawski 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 January 6, 2009. The numbering of reports is a continuation of the Alberta Environment reports.

Flight Observations by Kerry Paslawski

A flight observation was conducted out of the Beaverlodge Airport on Tuesday January 27, 2009. Air temperature at the Clayhurst Bridge was -4 °C and at Dunvegan it was -9 °C. The weather was sunny with thin high cloud.

Ice Observations

Location of the Ice Front: The ice front had advanced 26.6 km since the last observation on Jan 22 and was located at **km 196.4 on Jan 27, 2009 15:07 MST**. This was approximately 100 km upstream of Dunvegan and about 32 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 5.3 km/day.

Detailed Observations:

km 164	- frazil ice pan surface concentration 3%
km 167	- frazil ice pan surface concentration 5%
km 172	- frazil ice pan surface concentration 5 - 10%
km 173.5	- approximate extent of backwater
km 177	- frazil ice pan surface concentration 10%
km 182	- frazil ice pan surface concentration 15%
km 185	- frazil ice pan surface concentration 25%
km 189.5	- frazil ice pan surface concentration 30%
km 191	- frazil ice pan surface concentration 50%
km 193	- frazil ice pan surface concentration 75%
km 195	- frazil ice pan surface concentration 95%
km 195.5	- frazil ice pan surface concentration 99%
km 196.4	- ice front at 15:07 MST
km 196.4 - 198	- semi-consolidated
km 198 - 201	- consolidated
km 201	- toe of a consolidation
km 201 - 201.5	- semi-consolidated
km 201.5 - 202	-consolidated
km 202	- toe of a consolidation
km 202 - 204.5	- juxtaposed ice cover with some voids
km 204.5 - 207	- semi-consolidated
km 207 - 208.3	- ~ 400 m wide x 1.3 km long open lead
km 208.3 - 210.2	- semi-consolidated with open voids
km 210.2	- toe of a consolidation
km 210.2 - 214	- semi-consolidated
km 215	- toe of a consolidation in the left channel

- km 216 - toe of a consolidation in the right channel
- km 216 - 217.5 - semi-consolidated
- km 217.5 - 218.5 - consolidated
- km 218.5 - 221.4 - juxtaposed
- km 221.4 - 223 - consolidated
- km 223 - toe of a consolidation
- km 223 - 223.6 - ~75 m x 600 m wide open lead
- km 223.6 - ice is the same as the Jan 22 observational flight downstream of this point.



Looking upstream at the ice front at km 196.4, Jan 27, 2009 15:07 MST. There is a high concentration of ice arriving at the ice front.



Toe of a consolidation km 201. Flow direction is left to right.



Toe of a consolidation km 202. Flow direction is left to right.

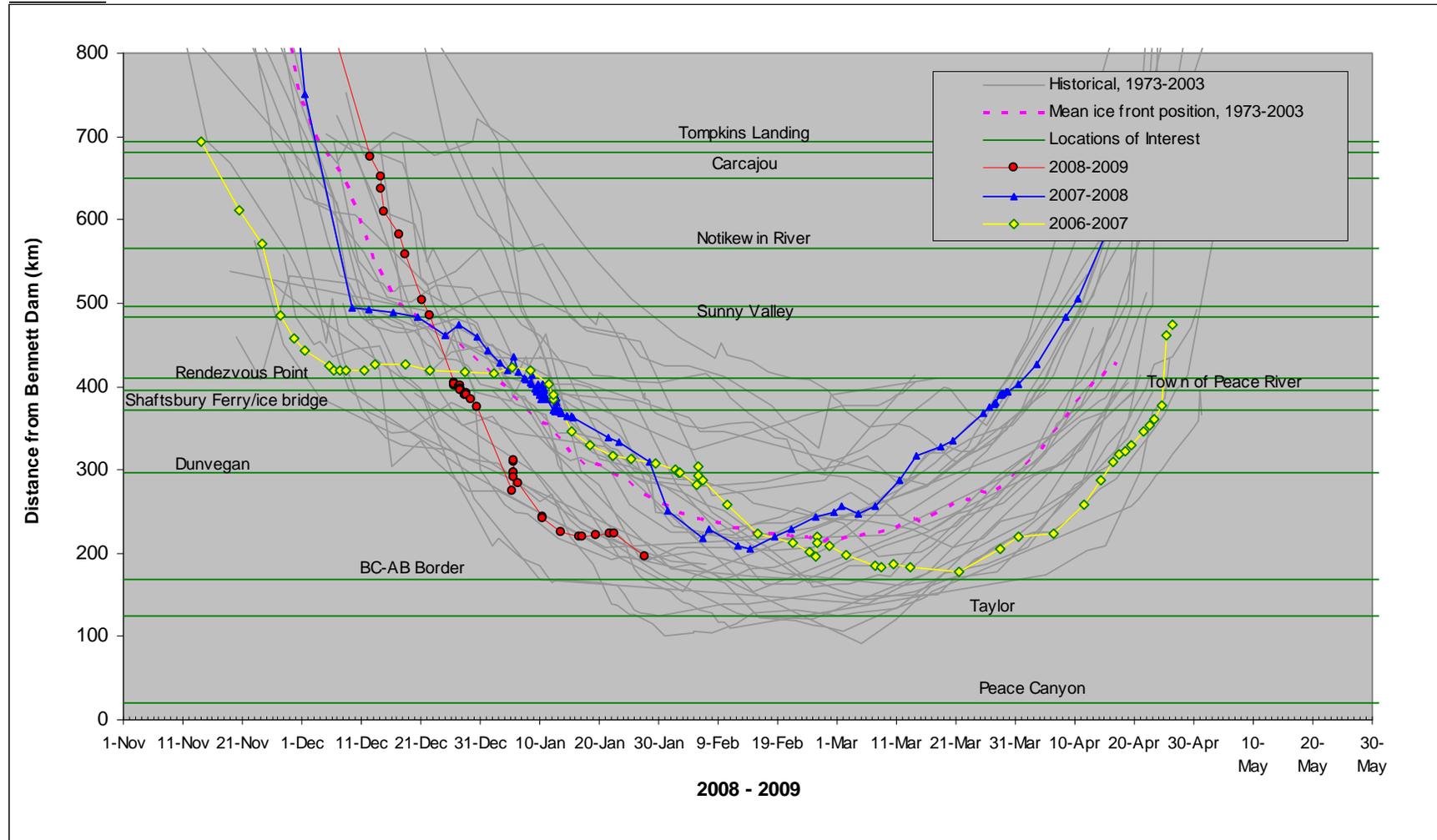


Looking upstream at an open lead at km 208.

Environment Canada Forecast Temperatures (°C)			
		Fort St. John	Town of Peace River
		Max/Min	Max/Min
Tue	27-Jan-09	-2 / -12.8	-6.1 / -14.1
Wed	28-Jan-09	-3 / -15	-5 / -13
Thr	29-Jan-09	6 / -6	6 / -10
Fri	30-Jan-09	7 / 4	5 / 2
Sat	31-Jan-09	-1 / -5	-3 / -6
Sun	01-Feb-09	4 / -5	2 / -6
Normal Max/Min		-9 / -18	-9 / -20
Tue = observed values			

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Ice Front



The next ice observation flight is scheduled for Friday, January 30, 2009.