

BC HYDRO OPERATIONS - ICE OBSERVATION REPORT 22

Flight: Friday February 13, 2008
Report: February 13, 2008
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 February 2, 2008. The numbering of reports is a continuation of the AENV reports.

Flight Observations by Kerry Paslawski

A flight observation was conducted out of the Grande Prairie Airport on Tuesday Feb 13, 2008. Air temperature at the airport was: -12° C. The weather was cloudy with some clearing later in the flight.

Ice Observations

Location of the Ice Front: The ice front had advanced 20.5 km since the last observation on Feb 8 and was located at **km 209.0 on Feb 13, 2008 11:04 MST**. This was approximately 87 km upstream of Dunvegan or about 45 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 4.1 km/day.

Detailed Observations:

km 164	- ice concentration less than 1% consisting of broken off border ice and released anchor ice
km 177	- released anchor ice 5 %
km 188.5	- mixture of frazil ice pans and released anchor ice 10 %
km 200	- frazil ice pan surface concentration 25%
km 203	- frazil ice pan surface concentration 45%
km 207	- frazil ice pan surface concentration 70%, upstream end of fresh rough shore ice with no snow on it indicating that the ice front was this far upstream early today
km 208.2	- frazil ice pan surface concentration 85%
km 208.6	- frazil ice pan surface concentration 98%
km 209.0	- ice front at 11:04 MST
km 209.0 to 212	- juxtaposed ice pans
km 212 to 214	- heavily consolidated
km 214 to 218	- semi-consolidated
km 219.0	- toe of a consolidation with open lead across channel
km 219 to 222	- ridging in original cover
km 222 to 225	- consolidated
km 226	- juxtaposed
km 228.5	- toe of a consolidation
km 230	- ice cover unchanged since Feb 8 flight from this point downstream
km 233	- juxtaposed

- km 238 - ice loose but formed from previously consolidated ice, small open leads starting to freeze over (upstream end of Feb 7 consolidation between km 234 and 238).
- km 240 to 243 - heavily consolidated
- km 246 - large juxtaposed rafts (juxtaposed cover that has moved and broken into large pieces and juxtaposed again)
- km 248 - juxtaposed
- km 251 - toe of a consolidation
- km 253 - juxtaposed
- km 259 - juxtaposed
- km 255.5 - 10 to 20 m tension tear across river is 50% frozen over
- km 263 - consolidated
- km 266 - consolidated
- km 267 - juxtaposed
- km 269 - toe of a consolidation (downstream limit of previous flight)
- km 271 - 400 m long x 20 m wide open lead
- km 274.7 - toe of a consolidation
- km 274.7 to 295 - alternating section of juxtaposed and slightly consolidated ice cover
- km 295 - 300 m of consolidated ice just upstream of the bridge at Dunvegan.



Ice front at km 209.0 Feb 13, 2008 11:04 MST. Looking upstream.



Open lead at km 219, looking upstream



km 230 on Feb 13, ice front was at this location on Feb 8. Looking upstream. No major change in ice cover downstream of the Feb 8 ice front.



Looking downstream at the toe of a consolidation at km 251 which was also observed on Feb 8.

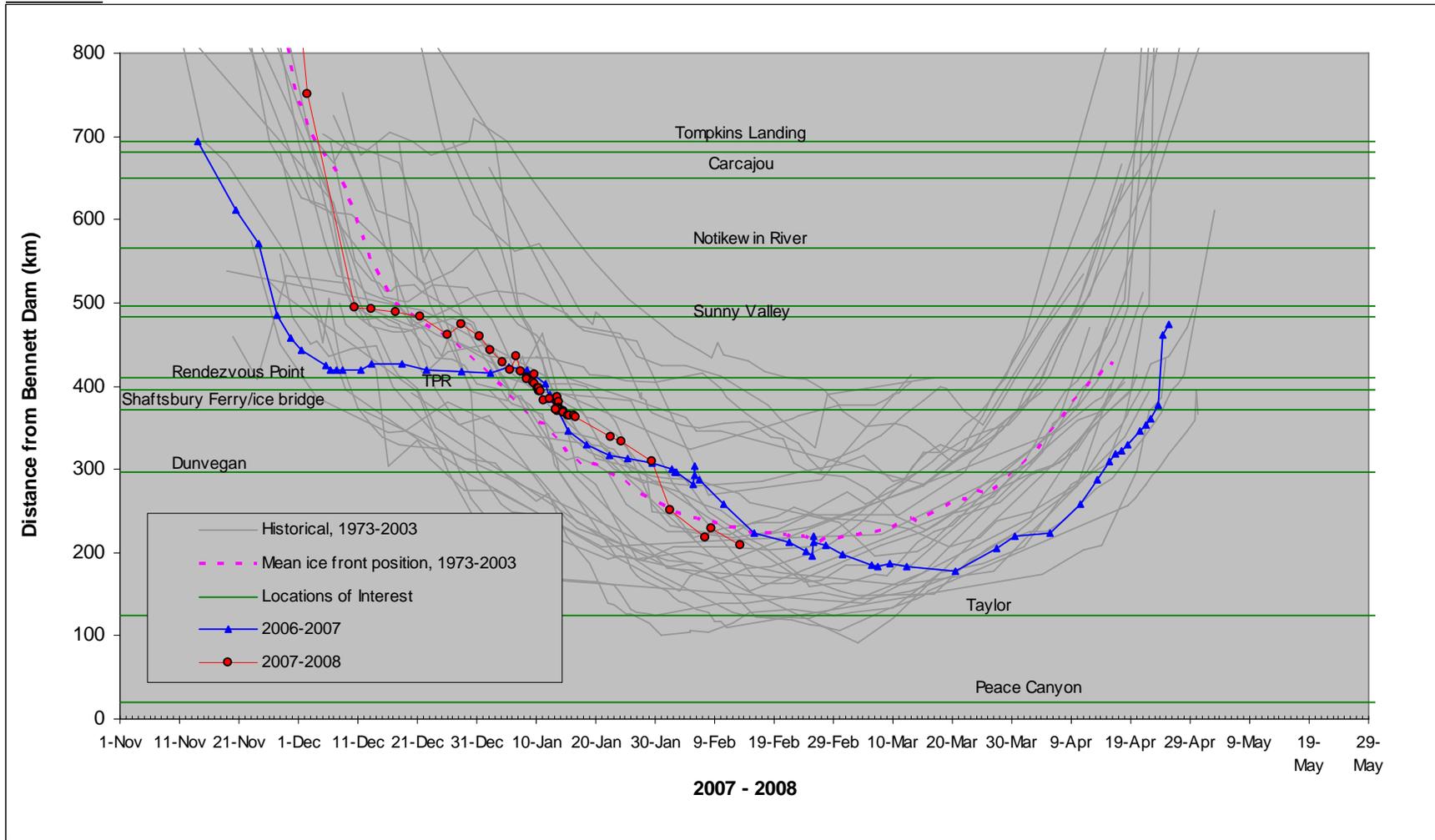


Toe of a consolidation at km 274.7. River flow direction is from left to right.

Environment Canada Forecast temperatures (°C)			
		Fort St. John	Town of Peace River
		Max/Min	Max/Min
Wed	13-Feb-08	-7 / -18	-15 / -18
Thr	14-Feb-08	0 / -5	-7 / -16
Fri	15-Feb-08	2 / -1	3 / 1
Sat	16-Feb-08	0 / -6	-3 / -7
Sun	17-Feb-08	-2 / -8	-1 / -9
Normal Max/Min		-6 / -15	-6 / -17

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Ice Front



The next ice observation flight is scheduled for Friday Feb 15, 2008.