

BC HYDRO OPERATIONS - ICE OBSERVATION REPORT 31

Flight: Friday March 2, 2007

Report: March 2, 2007

Report by Dale Bairstow, Becky Brough 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 Becky Brough

A flight observation was conducted out of the Fort St. John Airport on Friday Mar 2, 2007. Air temperature at the airport was: -22° C. The weather was mostly clear with some cloud.

Ice Observations

Location of the Ice Front: The ice front had advanced 12 km upstream since the last observation on Feb 27 and was located at **km 197 on Mar 2, 2007, 10:12 MST**. This was approximately 99 km upstream of Dunvegan or about 33 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 4.3 km/day.

Detailed Observations:

km 164	- 25% surface ice coverage composed of single pans and some rafts
km 168	- 40% surface ice coverage composed of single pans and some rafts
km 171	- 20% surface ice coverage composed of single pans and some rafts
km 174, 181,185.5	- 30% surface ice coverage composed of single pans and some rafts
km 190	- 40% surface ice coverage composed of single pans and rafts
km 192	- 70% surface ice coverage composed of rafts
km 195	- 90% surface ice coverage composed of large rafts
km 196.5	- 95% surface ice coverage composed of large rafts
km 197	- ice front Mar 2, 15:23 MST
km 197 to 200	- ice cover is juxtaposed
km 200 to 203	- ice cover is moderately consolidated
km 203	- ice cover is juxtaposed
km 204 to 205.7	- ice cover is consolidated
km 205.7	- toe of a consolidation
km 205.7 to 207.5	- ice cover is consolidated
km 207.5 to 208.3	- ice cover is juxtaposed
km 209.2	- toe of a consolidation
km 209.2 to 212	- open water areas between previously loosened consolidated ice have closed up due to further consolidation
km 212 to 214	- open water areas between previously loosened consolidated ice have started to freeze over
km 214 to 228	- ice is the same as the previous flight on Feb 27



Looking downstream from km 181.



Ice front at km 197. (Looking upstream).



Looking downstream from km 205. Toe of a consolidation in foreground at km 205.7. Previous ice front on Feb 27 (km 209) was between the two islands in the distance (see similar photograph in Report #30).

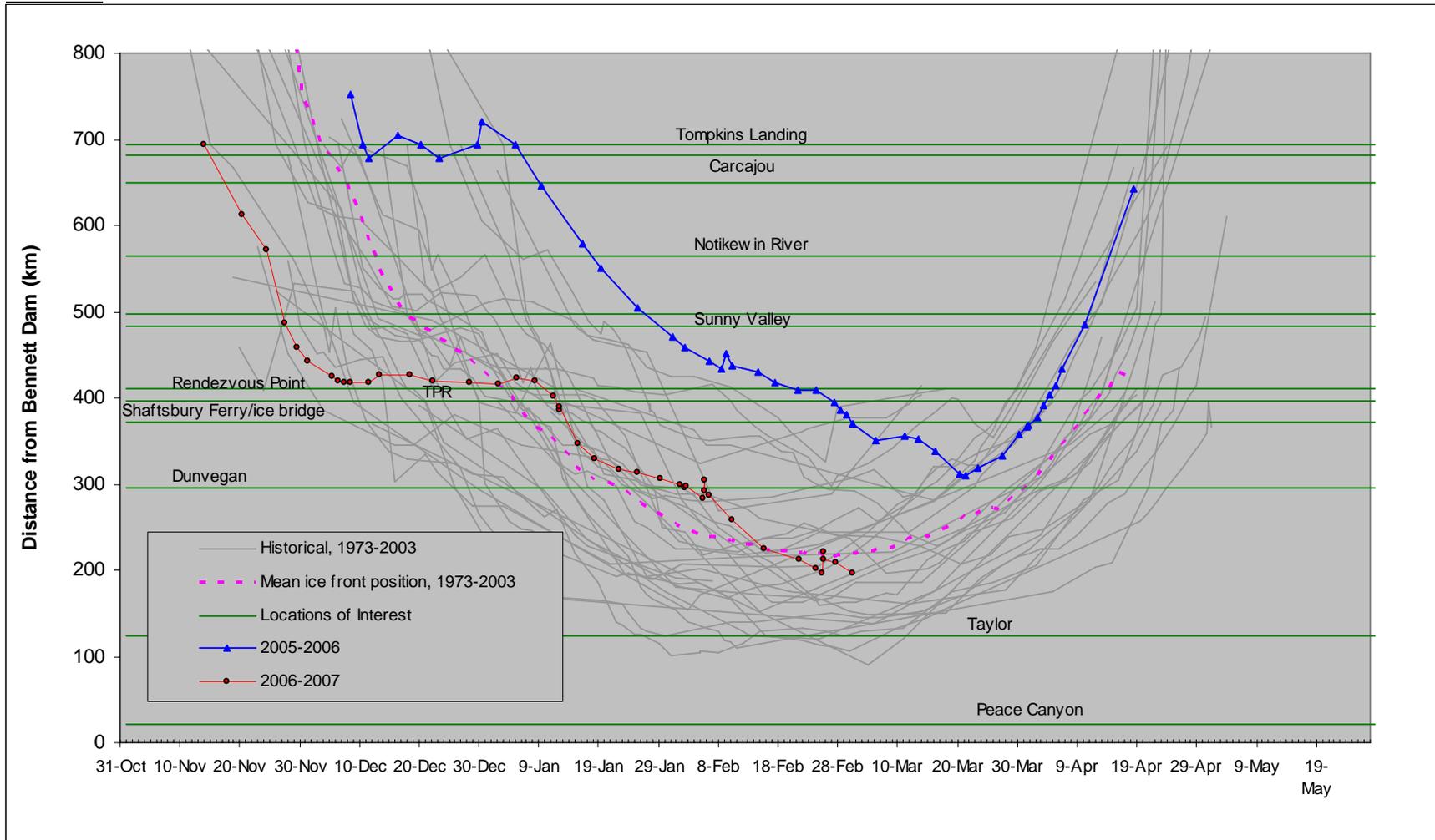


Toe of a consolidation at km 209.2. Flow is from right to left.

Environment Canada Forecast temperatures (°C)		Fort St. John Max/Min	Town of Peace River Max/Min
Fri	02-Mar-07	-12 / -27	-6 / -19
Sat	03-Mar-07	-3 / -13	-7 / -8
Sun	04-Mar-07	-17 / -24	-11 / -17
Mon	05-Mar-07	-13 / -18	-8 / -12
Tue	06-Mar-07	-15 / -21	-10 / -15
Normal Max/Min		-3 / -12	-3 / -14

Continued next page.

Ice Front



The next ice observation flight is scheduled for Monday Mar 5, 2007.