BC HYDRO OPERATIONS - ICE OBSERVATION REPORT 26

Flight: Saturday February 10, 2007
Report: February 12, 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

A flight observation was conducted out of the Fort St. John Airport on Saturday Feb 10, 2007. Air temperature at the airport was: -18° C. The weather was low cloud overcast.

Ice Observations

Location of the Ice Front: The ice front had advanced 29 km since the last observation on Feb 6 and was located at **km 258 on Feb 10, 2007, 10:55 MST.** This was approximately 38 km upstream of Dunvegan or about 94 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 7.4 km/day.

Detailed Observations:

km 104	- 10% surface ice coverage composed of single pans
km 164	- 15% surface ice coverage composed of single pans
km 168	- 30% surface ice coverage composed of single pans
km 197	- 20% surface ice coverage composed of single pans
km 225	- 40% surface ice coverage composed of single pans
km 237	- 100% surface ice through narrowing of channel extruding ice rafts
km 250	- 40% surface ice coverage composed of single pans, some rafts
km 254.5	- 100% surface ice through narrowing of channel extruding ice rafts
km 255 to 258	- 60% surface ice coverage consisting of large rafts
km 258	- ice front at 10:55 MST
km 258 to 264.5	- ice cover is loose and juxtaposed
km 264.5 to 275	- ice cover is consolidated (small consolidation toe at km 275)
km 282	- semi-consolidated
km 287	- toe of a consolidation with 50 m long and 200 m wide open lead
km 287 to 289	- semi-consolidated
km 291 to 292	- consolidated
km 292 to 310	- ice cover the same as last observation (consolidated but with open leads due to secondary consolidation movement on Feb 5)

Ice rafts extruding through narrowing of channel at km 254.5 (looking downstream).

Ice front at km 258 (looking upstream).

Toe of a consolidation at km 276 looking downstream.

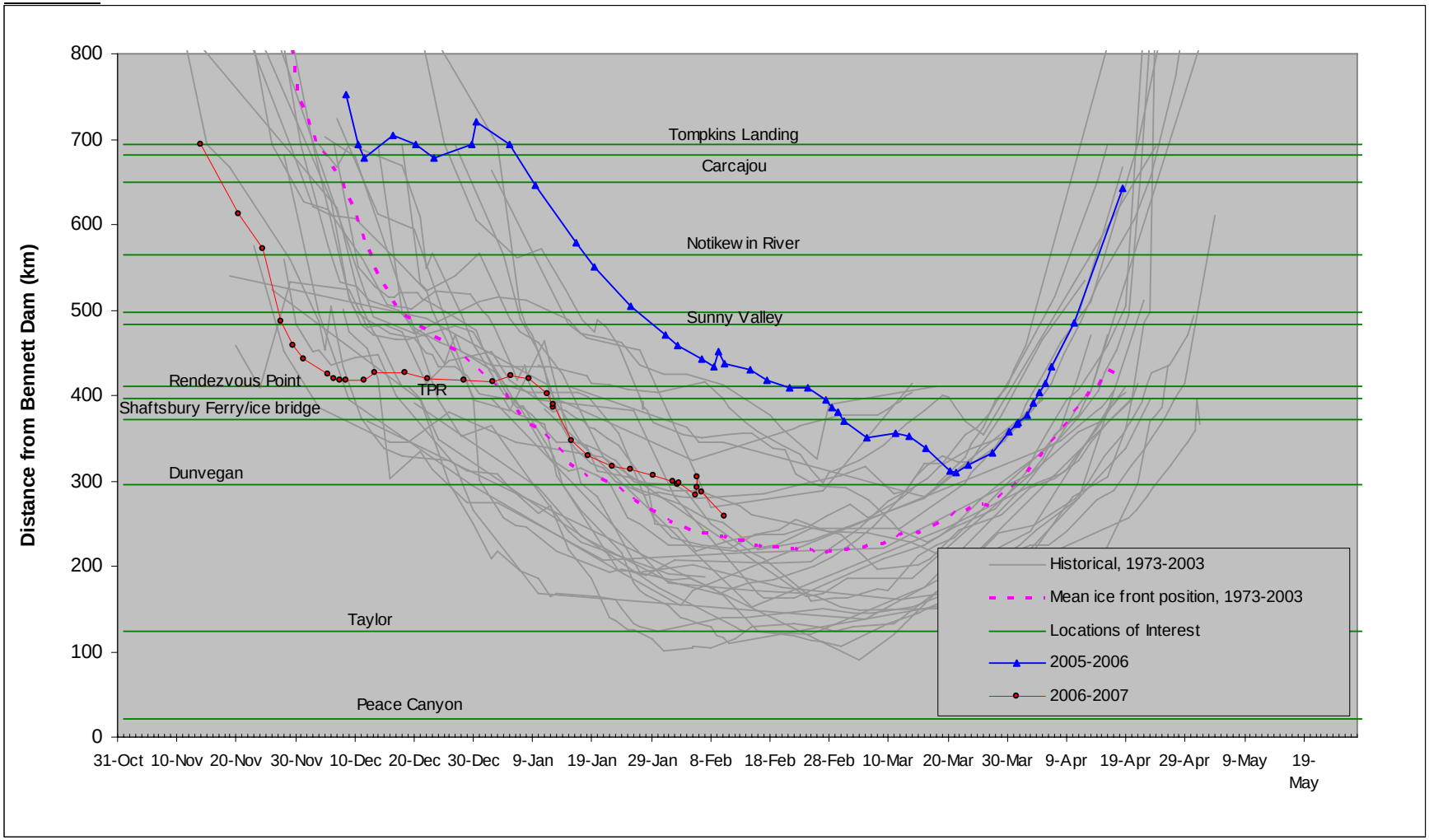
Toe of a consolidation at km 287 looking downstream.

Ice at Dunvegan (km 292 to 296) looking downstream.

Environment Canada Forecast temperatures (°C)		Fort St. John Max/Min	Town of Peace River Max/Min
Mon	12-Feb-07	-19 / -26	-18 / -28
Tue	13-Feb-07	-18 / -28	-17 / -27
Wed	14-Feb-07	-1 / -19	-1 / -21
Thr	15-Feb-07	2 / -3	4 / -6
Fri	16-Feb-07	1 / -6	1 / -6
Normal Max/Min		-5 / -17	-6 / -17

Continued next page.

Ice Front



The next ice observation flight is scheduled for Wednesday Feb 14, 2007.