

Table S1. OBCD classification thresholds.

Year	Class						
	Clouds	Water	Exposed Surfaces	NC	TH	SH	CC
2005	Mask value = 0	IR < 0.12 NDVI < 0.55	R > 0.065 ∉ TH, SH, CC	R < 0.065 NDVI > 0.45	$-0.05 \leq \text{dNDVI} < 0.014$	$-0.1 \leq \text{dNDVI} < -0.05$	$\text{dNDVI} < -0.1$
2006	Mask value = 0	IR < 0.15 NDVI < 0.55	R > 0.065 ∉ TH, SH, CC	R < 0.065 NDVI > 0.45	$-0.189 \leq \text{dNDVI} < -0.18$	$-0.2 \leq \text{dNDVI} < -0.189$	$\text{dNDVI} < -0.2$
2007	Mask value = 0	IR < 0.1 NDVI < 0.55	R > 0.051 ∉ TH, SH, CC	R < 0.051 NDVI > 0.45	$-0.05 \leq \text{dNDVI} < 0$	$-0.08 \leq \text{dNDVI} < -0.05$	$\text{dNDVI} < -0.08$
2008	Mask value = 0	IR < 0.1 NDVI < 0.55	R > 0.052 ∉ TH, SH, CC	R < 0.065 NDVI > 0.6	$-0.04 \leq \text{dNDVI} < 0$	$-0.15 \leq \text{dNDVI} < -0.04$	$\text{dNDVI} < -0.15$
2009	Mask value = 0	IR < 0.1 NDVI < 0.55	R > 0.052 ∉ TH, SH, CC	R < 0.065 NDVI > 0.6	$-0.08 \leq \text{dNDVI} < -0.025$	$-0.15 \leq \text{dNDVI} < -0.08$	$\text{dNDVI} < -0.15$
2010	Mask value = 0	IR < 0.1 NDVI < 0.55	R > 0.052 ∉ TH, SH, CC	R < 0.065 NDVI > 0.6	$-0.045 \leq \text{dNDVI} < -0.028$	$-0.15 \leq \text{dNDVI} < -0.045$	$\text{dNDVI} < -0.15$
2011	Mask value = 0	IR < 0.1 NDVI < 0.55	R > 0.052 ∉ TH, SH, CC	R < 0.065 NDVI > 0.6	$-0.177 \leq \text{dNDVI} < -0.16$	$-0.27 \leq \text{dNDVI} < -0.177$	$\text{dNDVI} < -0.27$

Table S2. Comparison of the stand level classes for each forest management unit and the results obtained with the OBCD classification, respectively.

Unit #	Forest Type *	Area (acres)	7/19/2005	7/6/2006	6/23/2007	7/27/2008	8/31/2009	7/17/2010	6/2/2011
1	NH	108							
2	NH	171							
3	NH	124	TH-TH						
4	NH	106	TH-TH						
5	NH	234		TH-NC					
6	NH	123			TH-NC				
7	NH	255				TH-TH			
8	NH	122				NC-TH	TH-TH		
9	NH	97						TH-TH	
10	NH	113							
11	RP	110				SH-SH			
12	NH	94						NC-TH	
13	NH	50						NC-SH	NC-SH
14	JP	64							NC-SH
15	JP	72			CC-CC				NC-SH
16	BS	110							SH-NC
17	JP	63					CC-CC		
18	JP	72							SH-SH
19	JP	35		NC-TH				SH-SH	
20	JP	121		NC-SH					
21	JP	25					NC-TH		
22	JP	69							SH-NC
23	JP	72							
24	JP	79							
25	JP	81							
26	JP	48							
27	JP	85		NC-SH					
28	JP	128							NC-TH
29	P/O	44				NC-TH			NC-SH
30	NH	133							
31	JP	155							
32	JP/A	17							NC-CC
33	JP	14							

* NH = Northern Hardwood, RP = Red Pine, JP = Jack Pine, BS = Black Spruce (*Picea mariana*), P/O = Pine/Oak (*Quercus*) mix, JP/A = Jack Pine/Alder (*Alnus*) mix.