

**Table S1.** Error matrices of the Wishart classification products obtained with the RADARSAT-2 scenes. Overall accuracy and Kappa indexes are provided in Table 3.

(a) Shallow incident angle scene (beam FQ24, 30 January 2011).

		Field samples							Total pixels	Commission error (%)
Classes		Water	Bare soil	PFT A	PFT B	PFT C	PFT D	PFT E		
Classification	Water	10							10	0.0
	Bare soil		3		1		1	1	6	50.0
	PFT A			4				1	5	20.0
	PFT B				5			1	6	16.7
	PFT C			1	2	3		2	8	62.5
	PFT D					1	3	1	5	40.0
	PFT E			3	1		4	4	12	66.7
Total pixels		10	3	8	9	4	8	10	52	
Omission error (%)		0.0	0.0	50.0	44.4	25.0	62.5	60.0		

(b) Steep incident angle scene (beam FQ08, 2 February 2011).

		Field samples							Total pixels	Commission error (%)
Classes		Water	Bare soil	PFT A	PFT B	PFT C	PFT D	PFT E		
Classification	Water	10							10	0.0
	Bare soil		3				2	1	6	50.0
	PFT A			2	1			1	4	50.0
	PFT B			5	2	2	4	5	18	88.9
	PFT C			1	1	1		1	4	75.0
	PFT D						2	1	3	33.3
	PFT E					5	1	1	7	85.7
Total pixels		10	3	8	9	4	8	10	52	
Omission error (%)		0.0	0.0	75.0	77.8	75.0	75.0	90.0		

