

TABLES

Table 2 Main characteristics for each case of the group I: NPF+shrinkage events identified.

Group I: NPF+shrinkage events															
Day	NPF phase								Shrinkage phase						
	NPF type	Period	GR (nm·h ⁻¹)	T (°C)	RH (%)	WS (m·s ⁻¹)	Prevailing WD(s)	SI (W·m ⁻²)	Period	SR (nm·h ⁻¹)	T (°C)	RH (%)	WS (m·s ⁻¹)	Prevailing WD(s)	SI (W·m ⁻²)
17/07/2009	la	12:00-17:45	2.9	25.5±0.6	20±2	7.3±1.0	WNW	725±207	17:45-20:00	-7.6	24.2±1.1	20±2	5.4±1.8	NNE	53±92
18/07/2009	la	09:00-20:15	5.5	25.2±3.5	17±9	2.2±0.7	SSW-S	599±341	20:15-23:45	-2.6	25.2±1.0	20±5	3.7±1.3	ENE	0
17/05/2010	la	12:30-18:00	2.7	24.7±0.8	30±1	2.4±0.9	NNW-NW-WNW	658±232	18:00-22:00	-2.9	20.4±2.4	34±4	5.3±1.4	NE	8±22
19/05/2010	la	10:45-17:00	4.0	28.1±1.2	27±2	3.3±1.0	NNE-NE	788±156	17:00-21:00	-5.9	24.9±2.9	33±6	6.2±1.6	NNE	85±137
22/05/2010	la	11:15-16:45	2.4	28.3±1.3	26±3	2.4±0.5	WSW-W-SW	787±153	16:45-19:30	-2.1	28.2±1.2	24±2	2.3±0.5	SE-SSW-WSW	148±155
30/05/2010	la	10:00-20:15	4.7	29.1±1.7	32±4	2.8±1.3	NE-WSW-SW-NNW	554±363	20:15-21:00	-10.2	25.1±0.2	38±1	5.0±0.4	NE	0
06/06/2010	la	13:30-18:15	10.6	29.7±0.7	19±1	4.3±1.0	WSW-SW	546±262	18:15-20:45	-4.6	25.9±1.1	26±3	3.9±1.0	WSW-SW	19±29
06/07/2010	la	11:15-16:45	3.6	33.0±1.4	29±4	2.0±0.6	W-S	776±143	16:45-18:45	-4.5	34.4±0.3	24±1	2.0±0.5	W-WSW-SE-SSE	210±149
25/07/2010	la	09:00-16:15	5.9	29.4±2.7	24±2	2.1±0.6	NE-NNE	780±104	16:15-19:30	-5.2	31.4±1.5	18±1	5.8±1.7	NNE-NE	210±191
03/08/2010	la	09:45-19:45	4.6	28.8±2.3	24±10	2.2±0.7	ENE-NE-N-NNE	568±321	19:45-00:00	-4.9	25.9±1.9	52±9	6.9±1.0	NE-ENE	0
28/08/2010*	la	11:15-19:30	3.3	31.3±1.2	20±2	2.0±0.9	NE-ENE-NNE	492±326	19:30-20:45	-5.7	28.7±0.6	17±1	6.8±0.4	NE	0
		20:45-22:30	3.8	26.7±0.8	23±4	6.3±0.5	NE	0	22:30-23:45	-2.2	24.7±0.4	32±1	5.7±0.6	ENE-NE	0
		10:30-14:30	4.5	28.0±0.9	20±4	6.6±1.7	WNW-W	888±37	14:30-15:30	-4.1	29.3±0.2	16±1	7.2±1.0	WNW	718±47
14/05/2012*	la	15:30-17:15	1.5	28.7±0.4	18±1	8.3±0.9	NW-WNW	469±101	17:15-17:45	-1.8	27.8±0.2	20±1	8.9±0.7	WNW	249±38
		17:45-19:00	2.3	26.9±0.5	22±1	7.3±0.4	NW	26±57	19:00-19:30	-2.0	25.4±0.4	26±2	7.0±1.4	WNW	0
10/06/2012*	lb	08:00-10:30	3.0	22.3±0.6	48±2	5.2±1.0	WSW-W	491±144	10:30-11:15	-2.4	22.8±0.1	47±1	5.2±0.6	WSW	301±131
		11:15-12:45	4.4	24.1±0.6	45±2	5.1±0.8	WSW	598±190	12:45-15:00	-7.3	25.3±0.7	41±3	5.5±1.0	W-WSW	399±125
30/06/2012	lb	11:00-16:45	4.3	24.2±1.1	22±3	7.3±1.4	WSW-SW	832±149	16:45-19:30	-6.7	24.1±0.9	22±3	6.2±1.1	NW-WNW	180±171
01/07/2012	la	11:15-15:45	7.2	23.5±1.3	23±3	2.8±1.1	WNW-NW-NNW-SW	799±206	15:45-19:45	-3.8	24.7±0.7	19±1	4.6±1.0	N-NNE-WNW	264±234
04/07/2012	lb	12:00-16:15	7.1	29.6±0.5	20±2	6.3±0.7	WNW-W-NW-WSW	816±123	16:15-21:15	-1.5	27.8±1.9	21±4	6.0±1.2	NW	151±197
30/08/2012	lb	10:30-16:45	2.8	28.5±1.4	19±4	2.2±0.8	N-NE-E	688±181	16:45-18:30	-3.8	26.9±1.8	26±4	8.3±1.2	NNE	76±109

GR/SR: growth/shrinkage rate, T: ambient temperature, RH: relative humidity, WS: wind speed, prevailing WD(s): prevailing wind direction(s), SI: irradiance solar.* NPF+shrinkage events in which several processes of growth and shrinkage occurred.

Table 3 Main characteristics for each case of the group II: growth process+shrinkage events identified.

Day	Growth phase							Shrinkage phase						
	Period	GR (nm·h ⁻¹)	T (°C)	RH (%)	WS (m·s ⁻¹)	Prevailing WD(s)	SI (W·m ⁻²)	Period	SR (nm·h ⁻¹)	T (°C)	RH (%)	WS (m·s ⁻¹)	Prevailing WD(s)	SI (W·m ⁻²)
29/07/2009	17:00-17:45	9.4	33.3±0.4	7±1	6.6±1.6	NW-WNW	344±53	17:45-19:45	-5.0	31.0±1.1	11±2	7.2±1.2	NW	50±89
31/07/2009	19:00-20:30	4.4	31.1±0.7	14±0	5.7±0.6	WSW-SW	0	20:30-22:45	-6.9	28.3±0.9	20±3	3.0±1.4	W-WNW	0
18/05/2010	19:45-21:00	3.6	21.3±0.5	29±1	6.0±0.5	NE	0	21:00-22:15	-3.2	20.0±0.3	32±1	6.8±0.3	NE-NNE	0
31/05/2010-01/06/2010	13:00-19:30	2.8	32.3±1.3	28±3	2.7±1.5	NE-N	486±334	19:30-02:30	-3.3	24.0±2.2	50±7	4.8±0.8	NE-ENE	0
22/06/2010	13:45-18:15	4.5	29.3±0.5	23±1	2.2±0.7	WSW-W	569±229	18:15-19:45	-2.3	29.0±0.7	22±1	2.7±0.9	SSW-SSE	0
27/07/2010*	12:00-17:30 (Mode 1)	3.7	32.0±1.4	22±4	1.8±0.6	SSW-SW-SE	684±192	17:30-20:45	-3.0	32.5±0.8	18±1	2.0±0.8	SSE	48±89
	12:00-17:45 (Mode 2)	5.6	32.1±1.4	22±4	1.8±0.6	SSW-SW-SE	660±212	17:45-20:45	-2.3	32.4±0.8	18±1	2.0±0.8	SSE	25±57
06/07/2011	16:15-18:00	4.2	30.7±0.2	15±1	6.5±0.5	WSW-SW	420±106	18:00-22:15	-4.7	27.1±2.0	15±47	5.7±1.6	WSW-W	19±4
05/06/2012	22:00-22:30	4.5	24.4±0.2	35±1	5.5±0.7	WNW	0	22:30-00:00	-4.7	23.4±0.5	41±4	4.4±0.3	WNW	0
14/06/2012	21:00-22:30	4.5	23.6±0.5	31±4	3.4±0.6	W	0	22:30-00:45	-6.0	21.9±0.5	40±1	3.9±0.9	W-SW-WSW	0

GR/SR: growth/shrinkage rate, T: ambient temperature, RH: relative humidity, WS: wind speed, prevailing WD(s): prevailing wind direction(s), SI: irradiance solar. *growth process+shrinkage event which showed a bi-modal size distribution.

Table 4 Main characteristics for each case of the group III: pure shrinkage events identified.

Group III: pure shrinkage events							
Day	Period	SR ($\text{nm}\cdot\text{h}^{-1}$)	T ($^{\circ}\text{C}$)	RH (%)	WS ($\text{m}\cdot\text{s}^{-1}$)	Prevailing WD(s)	SI ($\text{W}\cdot\text{m}^{-2}$)
03/07/2009	17:30-21:00	-10.5	30.4±1.3	24±3	8.7±0.8	WSW	67±116
08/07/2009	21:45-23:30	-11.1	24.4±1.4	38±4	8.4±1.6	NE	0
13/07/2009	20:45-00:00	-4.2	27.4±1.0	26±2	4.8±1.0	WNW	0
29/08/2009	20:15-22:15	-11.1	29.0±0.5	24±1	5.3±0.9	ENE-NE	0
14/06/2010	18:00-22:00	-1.6	19.7±1.9	50±7	5.8±1.8	NE	24±57
24/06/2010	13:15-17:45	-2.5	31.9±0.5	21±1	2.4±0.9	SSW	570±177
05/07/2010	21:30-00:00	-4.7	26.9±1.0	38±0	6.3±0.6	NE	0
25/07/2010	21:00-23:30	-5.1	24.7±0.7	30±3	8.0±1.1	NE	0
29/07/2010	16:15-20:15	-7.3	32.8±2.0	16±3	5.3±0.7	WNW-NNE	184±208
04/08/2010	15:30-00:00	-3.0	28.4±2.5	29±5	4.5±1.2	NE-ENE-WNW-NNE	101±164
29/08/2010	16:15-22:45	-6.4	29.0±2.6	22±2	4.6±1.4	NW-NE-WNW-ENE	60±122
30/08/2010	17:30-00:00	-2.2	27.4±2.8	17±7	5.7±0.8	NNE-NE	5±19
09/05/2011	14:30-17:15	-2.7	24.7±0.3	22±1	2.5±0.7	SW-WSW	433±233
07/07/2011	16:00-19:30	-1.7	26.0±1.1	18±1	8.0±0.8	NW	265±221
06/06/2012	16:15-23:45	-3.1	25.8±2.1	37±8	6.0±2.5	WSW-SW	98±178
29/06/2012	16:30-20:15	-2.6	27.0±1.1	20±3	7.2±0.9	WSW-SW	179±201
05/07/2012	16:30-19:45	-2.9	25.5±0.8	18±2	7.8±0.8	NW	203±201
13/07/2012	19:15-23:45	-7.8	26.8±2.2	33±9	5.8±0.6	WNW-NW	0
14/07/2012	14:30-22:30	-1.0	26.5±2.3	16±3	4.8±1.3	NW-WNW-NNW	242±290
15/07/2012	19:45-22:30	-8.6	26.1±1.4	20±4	7.4±1.9	NE-ENE	0
21/07/2012*	17:30-20:45	-7.2	31.3±1.4	21±2	4.7±1.0	NNW-NW	63±111
	20:45-22:45	-8.2	27.1±1.0	27±2	7.8±1.2	ENE-NE	0

SR: shrinkage rate, T: ambient temperature, RH: relative humidity, WS: wind speed, prevailing WD(s): prevailing wind direction(s), SI: irradiance solar. * Day in which two pure shrinkage events occurred.