APPENDIX 2

Distribution of calcareous nannoplankton from Kremná and Magura formations

	Kremná Formation															
	Sielski Stream								Stary Stream							
Sample number	WP242/1/2010	WP242/2/2010	WP242/3/2010	WP242/4/2010	WP242/5/2010	WP242/6/2010	WP78/2012	WP79/2012	WP329/2010	WP330/A/2010	WP330/B/2010	WP330/C/2010	WP330/D/2010	WP330/E/2010	WP333/2010	WP337/2010
Sample abundance	VH	M	M		M	M	M	L	VH	H	M	VH	M	M		
Nannofossil preservation	G	M	M		M	M	M	M	G	G	M	G	M	M		
Blackites spinosus				–											–	–
Braarudosphaera bigelowii	X		X	–	X	X						X		X	–	–
Chiasmolithus danicus				–											–	–
Chiasmolithus expansus	R			–			R		R						–	–
Chiasmolithus gigas				–					R			R		R	–	–
Chiasmolithus grandis				–					R	R	R				–	–
Chiasmolithus medius				–										R	–	–
Chiasmolithus sp.				–							R				–	–
Chiasmolithus solitus	R			–							R				–	–
Coccolithus pelagicus	X	X	X	–	X	X	X	X	X	X	X	X	X	X	–	–
Coronocyclus nitescens	X		X	–	X	X			X	X	X	X	X	X	–	–
Cyclicargolithus abisectus				–											–	–
Cyclicargolithus luminis	X		X	–	X	X	X	X							–	–
Cyclicargolithus floridanus				–								X			–	–
Discoaster barbadiensis				–					R	R	R	R			–	–
Discoaster binodosus				–			R	R				R			–	–
Discoaster deflandrei				–											–	–
Discoaster distinctus				–											–	–
Discoaster mohleri				–					R	R	R				–	–
Discoaster multiradiatus				–					R	R	R				–	–
Discoaster saipanensis				–											–	–
Discoaster wemmelensis				–											–	–
Ericsonia fenestrata		X	X	–									X		–	–
Ericsonia formosa		R	R	–	R	R	R	R							–	–
Ericsonia robusta																
Helicosphaera compacta	X	X	X	–	X	X	X	X	X	X	X	X		X	–	–
Helicosphaera intermedia				–										X	–	–
Helicosphaera perch-nielseaniae				–											–	–
Nannotetrina fulgens				–					R	R	R				–	–
Neococcolithes dubius				–											–	–
Pontosphaera japonica				–											–	–
Pontosphaera multipora	X			–											–	–
Pontosphaera plana	X			–			X	X	X	X	X				–	–
Reticulofenestra dictyoda	X	X	X	–			X	X	X	X	X				–	–
Reticulofenestra umbilica	R			–											–	–
Sphenolithus calyculus	R			–								R			–	–
Sphenolithus conicus	X	X	X	–					X	X	X	X	X		–	–
Sphenolithus delphix				–											–	–
Sphenolithus disbelemnos	X	X	X	–	X	X	X	X	X	X	X	X	X	X	–	–
Sphenolithus dissimilis				–									X		–	–
Sphenolithus moriformis	X	X	X	–	X	X	X	X	X	X	X	X	X		–	–
Sphenolithus pseudoradians			X	–	X	X									–	–
Toweius sp.				–					R	R	R		R		–	–
Sphenolithus radians			X	–	X	X									–	–
Transversopontis obiquipons				–											–	–
Transversopontis pulcher		X		–					X	X	X				–	–
Transversopontis pulcheroides		X	X	–	X	X						X			–	–
Triquelorhabdulus carinatus				–											–	–
Umbilicosphaera rotula				–			X	X	X	X	X			X	–	–
Zygrhablithus bijugatus		R		–								R			–	–

	Kremná Formation		Poprad St. Mb.		Magura Formation												
	Biała Woda												Homole				
Sample number	BW-1	BW-2	BW 505-1	BW 505-2	WP79/2007	WP81/2007	WP79b/2007	WP83/2007	WP216/2007	104a/2010	104b/2010	104c/2010	WP138/1/2008	WP138/2/2008	WP131/H1/2008	WP131/H2/2008	WP141
Sample abundance	VH	H	H	VH	H	H				M	VH	VH	L	L	L	L	
Nannofossil preservation	G	G	G	G	G	G				M	G	G	P	P	G	G	
Blackites spinosus							–	–	–			R					–
Braarudosphaera bigelowii					X	X	–	–	–								–
Chiasmolithus danicus							–	–	–			R					–
Chiasmolithus expansus					R	R	–	–	–			R					–
Chiasmolithus gigas	R	R	R	R			–	–	–		R	R	R		R	R	–
Chiasmolithus grandis							–	–	–								–
Chiasmolithus medius							–	–	–		R	R					–
Chiasmolithus sp.							–	–	–		R			R			–
Chiasmolithus solitus					R	R	–	–	–								–
Coccolithus pelagicus	X	X	X	X	X	X	–	–	–	X	X	X	X	X	X	X	–
Coronocyclus nitescens	X	X	X	X	X	X	–	–	–	X	X						–
Cyclicargolithus abisectus	X	X	X	X			–	–	–								–
Cyclicargolithus luminis					X	X	–	–	–		X						–
Cyclicargolithus floridanus	X	X	X	X			–	–	–								–
Discoaster barbadiensis							–	–	–				R		R	R	–
Discoaster binodosus							–	–	–			R	R		R	R	–
Discoaster deflandrei							–	–	–		X	X					–
Discoaster distinctus							–	–	–								–
Discoaster mohleri							–	–	–								–
Discoaster multiradiatus							–	–	–			R	R		R	R	–
Discoaster saipanensis							–	–	–								–
Discoaster wemmelensis							–	–	–								–
Ericsonia fenestrata							–	–	–			X					–
Ericsonia formosa			R	R			–	–	–			R					
Ericsonia robusta																	
Helicosphaera compacta	X	X	X	X	X	X	–	–	–		X	X	X		X	X	
Helicosphaera intermedia							–	–	–								
Helicosphaera perch-nielseaniae			X	X			–	–	–								
Nannotetrina fulgens							–	–	–								
Neococcolithes dubius							–	–	–								
Pontosphaera japonica							–	–	–				X		X		
Pontosphaera multipora					X	X	–	–	–						X		
Pontosphaera plana	X	X	X	X	X	X	–	–	–		X						
Reticulofenestra dictyoda					X	X	–	–	–								
Reticulofenestra umbilica					R	R	–	–	–								
Sphenolithus calyculus			R	R	R	R	–	–	–				R	R	R		
Sphenolithus conicus	X	X	X	X			–	–	–		X				X		
Sphenolithus delphix	X	X	X	X			–	–	–								
Sphenolithus disbelemnos					X	X	–	–	–		X				X		
Sphenolithus dissimilis	X	X	X	X			–	–	–			X					
Sphenolithus moriformis	X	X	X	X	X	X	–	–	–	X	X		X	X	X	X	
Sphenolithus pseudoradians							–	–	–								
Toweius sp.				R			–	–	–	R	R	R					
Sphenolithus radians	R	R	R	R			–	–	–								
Transversopontis obiquipons							–	–	–								
Transversopontis pulcher	X	X	X	X			–	–	–		X						
Transversopontis pulcheroides	X	X	X	X			–	–	–	X		X					
Triquelorhabdulus carinatus	X	X	X	X			–	–	–								
Umbilicosphaera rotula							–	–	–		X	X					
Zygrhablithus bijugatus		X	X	X			–	–	–		R						

	Magura Formation															
	Czarna Woda		Sztolnia				Sopotnicki Stream									
Sample number	WP381	WP385	WP2006/7/2007	WP2006/8/2007	WP2006/9/2007	WP2006/10/2007	WP624/2011	WP628/2011	WP629/2011	WP630/2011	WP633/2011	WP635/2011	WP636/2011	WP670/2011	WP917/1/2011	WP917/2/2011
Sample abundance				L	H	L		H			H					H
Nannofossil preservation				G	M	G		M			M					G
Blackites spinosus	–		–	R			–	R	–	–		–	–	–	–	
Braarudosphaera bigelowii	–		–		X		–		–	–	X	–	–	–	–	
Chiasmolithus danicus	–				R		–		–	–		–	–	–	–	R
Chiasmolithus expansus	–		–				–		–	–		–	–	–	–	
Chiasmolithus gigas	–	R	–		R		–	R	–	–	R	–	–	–	–	
Chiasmolithus grandis	–		–				–	R	–	–	R	–	–	–	–	R
Chiasmolithus medius	–				R		–		–	–		–	–	–	–	
Chiasmolithus sp.	–		–				–		–	–		–	–	–	–	
Chiasmolithus solitus	–		–				–		–	–		–	–	–	–	
Coccolithus pelagicus	–	X	–	X	X	X	–	X	–	–	X	–	–	–	–	X
Coronocyclus nitescens	–		–		X		–	X	–	–	X	–	–	–	–	X
Cyclicargolithus abisectus	–		–				–		–	–		–	–	–	–	
Cyclicargolithus luminis	–				X		–	X	–	–	X	–	–	–	–	
Cyclicargolithus floridanus	–		–				–		–	–		–	–	–	–	
Discoaster barbadiensis	–	R	–		R		–		–	–		–	–	–	–	R
Discoaster binodosus	–	R	–		R		–		–	–		–	–	–	–	
Discoaster deflandrei	–		–				–	X	–	–	X	–	–	–	–	
Discoaster distinctus	–		–		R		–	R	–	–	R	–	–	–	–	
Discoaster mohleri	–		–	R			–		–	–		–	–	–	–	
Discoaster multiradiatus	–	R	–	R			–		–	–		–	–	–	–	
Discoaster saipanensis	–		–				–		–	–		–	–	–	–	
Discoaster wemmelensis	–				R		–		–	–		–	–	–	–	
Ericsonia fenestrata	–		–				–		–	–		–	–	–	–	
Ericsonia formosa	–		–	R	R	R	–		–	–		–	–	–	–	R
Ericsonia robusta						R										R
Helicosphaera compacta	–	X	–	X	X	X	–	X	–	–	X	–	–	–	–	X
Helicosphaera intermedia	–		–				–		–	–		–	–	–	–	
Helicosphaera perch-nielseaniae	–		–	X	X	X	–		–	–		–	–	–	–	
Nannotetrina fulgens	–		–				–		–	–		–	–	–	–	
Neococcolithes dubius	–		–			R	–	R	–	–	R	–	–	–	–	
Pontosphaera japonica	–						–		–	–		–	–	–	–	
Pontosphaera multipora	–		–				–		–	–		–	–	–	–	
Pontosphaera plana	–	X					–		–	–		–	–	–	–	
Reticulofenestra dictyoda	–		–				–		–	–		–	–	–	–	
Reticulofenestra umbilica	–		–				–		–	–		–	–	–	–	R
Sphenolithus calyculus	–		–				–		–	–		–	–	–	–	
Sphenolithus conicus	–	X	–				–		–	–		–	–	–	–	X
Sphenolithus delphix	–		–				–		–	–		–	–	–	–	
Sphenolithus disbelemnos	–	X	–	X	X	X	–	X	–	–	X	–	–	–	–	X
Sphenolithus dissimilis	–		–		X		–		–	–		–	–	–	–	
Sphenolithus moriformis	–	X	–	X	X		–		–	–		–	–	–	–	X
Sphenolithus pseudoradians	–		–				–		–	–		–	–	–	–	X
Toweius sp.	–	R			R		–	R	–	–	R	–	–	–	–	R
Sphenolithus radians	–		–		R		–		–	–		–	–	–	–	
Transversopontis obiquipons	–		–				–		–	–		–	–	–	–	
Transversopontis pulcher	–	X	–				–		–	–		–	–	–	–	
Transversopontis pulcheroides	–		–				–		–	–		–	–	–	–	
Triquelorhabdulus carinatus	–		–				–		–	–		–	–	–	–	
Umbilicosphaera rotula	–	X	–				–		–	–		–	–	–	–	X
Zygrhablithus bijugatus	–	R	–		R		–		–	–		–	–	–	–	

Estimate of the nannofossil abundance for individual samples was established using the following criteria: VH – very high (>20 specimens per view field), H – high (10–20 specimens per view field), M – moderate (5–10 specimens per view field), L – low (1–5 specimens per view field); nannofossil preservation: M – moderate, etching or mechanical damage is apparent but most of specimens are easily identifiable; G – good, little dissolution and/or overgrowth