

Supplement

Table S1: Nannoplankton assemblages of the Zohor-1 well. (Abbreviation: PRES – presence, ABN – abundant, SABN – super abundant, (rew.) – reworked)

Depth (core)	box	Zone/ Subzone	Event
965–970m (core 1)	1	NN6/?NN5	TOP PRES <i>Helicosphaera walbersdorfensis</i> , <i>Discoaster exilis</i> , <i>Reticulofenestra pseudoumbilicus</i> , <i>Sphenolithus abies</i> , <i>Coronocylus nitescens</i> (elliptical), <i>Umbilicosphaera rotula</i> , <i>U. jafari</i> , SABN <i>Coccolithus pelagicus</i> , <i>Reticulofenestra minuta</i> , <i>R. haqii</i> , ABN <i>Helicosphaera carteri</i> , <i>H. scissura</i> (?rew.), <i>Sphenolithus heteromorphus</i> (?rew.), early Miocene, Paleogene and Cretaceous reworking;
965–970m (core 1)	2	NN6/?NN5	PRES <i>S. abies</i> , <i>H. walbersdorfensis</i> , <i>D. exilis</i> , <i>Triquetrorhabdulus</i> spp., ABN <i>Reticulofenestra minuta</i> , <i>R. haqii</i> , <i>S. heteromorphus</i> (?rew.), early Miocene, Paleogene and Cretaceous reworking;
965–970m (core 1)	3	NN6/?NN5	PRES <i>S. abies</i> , <i>H. walbersdorfensis</i> , <i>H. carteri</i> , <i>C. nitescens</i> (elliptical), <i>Discoaster musicus</i> , <i>Triquetrorhabdulus</i> spp., <i>T. milowii</i> , <i>U. rotula</i> , <i>U. jafari</i> , SABN <i>R. minuta</i> , ABN <i>R. haqii</i> , <i>C. pelagicus</i> , <i>S. heteromorphus</i> (?rew), Early Miocene, Paleogene and Cretaceous reworking;
1140–1145m (core 2)	1	Unassigned	Barren, pyrite;
1140–1145m (core 2)	2	Unassigned	PRES <i>C. pelagicus</i> , pyrite; poor sample;
1140–1145m (core 2)	3	NN5 NN5b/c	PRES <i>H. walbersdorfensis</i> , <i>H. waltrans</i> , <i>S. heteromorphus</i> , <i>Calcidiscus tropicus</i> , <i>C. nitescens</i> , <i>R. pseudoumbilicus</i> , <i>U. rotula</i> , <i>U. jafari</i> , SABN <i>R. minuta</i> , ABN <i>R. haqii</i> , <i>C. pelagicus</i> , Paleogene and Cretaceous reworking;
1140–1145m (core 2)	4	NN5 NN5b/c	PRES <i>H. walbersdorfensis</i> , <i>H. scissura</i> , <i>S. heteromorphus</i> , ACME <i>C. tropicus</i> , <i>C. nitescens</i> (elliptical), <i>U. rotula</i> , <i>U. jafari</i> , <i>R. pseudoumbilicus</i> , SABN <i>R. minuta</i> , <i>R. haqii</i> , <i>C. pelagicus</i> , Paleogene and Cretaceous reworking;
1140–1145m (core 2)	5	?NN5	PRES <i>S. heteromorphus</i> , <i>C. pelagicus</i> , <i>H. carteri</i> , poor sample;
1495–1500m (core 4)	1	Unassigned	PRES <i>C. pelagicus</i> , <i>Cyclicargolithus floridanus</i> , <i>R. haqii</i> , Diatomaceae, Early Miocene, Paleogene and Cretaceous reworking; poor sample;
1495–1500m (core 4)	2	Unassigned	PRES <i>C. pelagicus</i> , <i>C. floridanus</i> , <i>S. abies</i> , <i>S. moriformis</i> , <i>R. haqii</i> , Paleogene and Cretaceous reworking; poor sample;
1495–1500m (core 4)	3	Unassigned	PRES <i>C. pelagicus</i> , <i>C. floridanus</i> , <i>H. carteri</i> , Early Miocene, Paleogene and Cretaceous reworking; poor sample;
1495–1500m (core 4)	4	Unassigned	PRES <i>C. pelagicus</i> , <i>C. floridanus</i> , <i>R. haqii</i> , Paleogene and Cretaceous reworking; poor sample;
1495–1500m (core 4)	5	Unassigned	PRES <i>C. pelagicus</i> , <i>C. floridanus</i> , <i>H. carteri</i> , <i>Holodiscolithus macroporus</i> , early Miocene, Paleogene and Cretaceous reworking; poor sample;
1886–1891m (core 6)	1	Unassigned	PRES <i>Discoaster</i> spp., <i>H. macroporus</i> , <i>R. minuta</i> , <i>Triquetrorhabdulus</i> spp.; poor sample;

Table S2: Nannoplankton assemblages of the Lozorno-1 well.

Depth (core)	box	Zone/ Subzone	Event
650–655m (core 1)	2	Unassigned	Small reticulofenestrids, Paleogene and Cretaceous reworking;
~	1	Unassigned	Small reticulofenestrids, Paleogene and Cretaceous reworking;
901.5m (core 5)	2	NN6	<i>Calcidiscus tropicus</i> , <i>C. leptoporus</i> , <i>Coccolithus miopelagicus</i> , <i>C. pelagicus</i> , <i>Coronocyclus nitescens</i> , <i>Discoaster variabilis</i> , <i>Helicosphaera carteri</i> , <i>H. walbersdorfensis</i> , <i>Orthorhabdus rioi</i> , <i>Reticulofenestra haqii</i> , <i>R. minuta</i> , <i>R. pseudumbilicus</i> , <i>Rhabdosphaera pannonica</i> , <i>Sphenolithus abies</i> , <i>S. moriformis</i> , <i>Syracosphaera pulchra</i> , <i>Umbilicosphaera rotula</i> , <i>Triquetrorhabdulus rugosus</i> ; Strong Paleogene and Cretaceous reworking;
1000–1001.7m (core 6)	1	NN6	<i>C. pelagicus</i> , <i>C. nitescens</i> , <i>R. pseudumbilicus</i> (> 7µm), <i>R. haqii</i> , <i>R. minuta</i> , <i>U. rotula</i> ; poor sample;
1098.4m (core 7)	1	NN6	<i>C. pelagicus</i> , <i>C. nitescens</i> , <i>Cyclicargolithus floridanus</i> , <i>H. carteri</i> , <i>R. pseudumbilicus</i> (>7µm), <i>Pontosphaera multipora</i> , <i>R. haqii</i> , <i>R. minuta</i> , <i>U. rotula</i> ; poor sample;
1101.8m (core 7)	4	Unassigned	<i>C. pelagicus</i> , <i>C. floridanus</i> , <i>C. nitescens</i> , <i>H. carteri</i> , <i>H. wallichii</i> , <i>R. pseudumbilicus</i> , <i>R. haqii</i> , <i>R. minuta</i> , <i>U. rotula</i> , Paleogene reworking;
1200–1203m (core 9)	1	Unassigned	<i>C. pelagicus</i> , <i>C. nitescens</i> , <i>H. carteri</i> , <i>R. pseudumbilicus</i> , <i>R. minuta</i> , <i>R. haqii</i> , <i>T. rugosus</i> ; poor sample;
1405.6–1410.1m (core 11)	1	Unassigned	<i>C. pelagicus</i> , <i>C. floridanus</i> , <i>D. variabilis</i> , <i>R. minuta</i> , <i>R. haqii</i> , <i>R. pseudumbilicus</i> , Paleogene and Cretaceous reworking; poor sample;
1450.7–1453m (core 12)	1	NN6	<i>Braarudosphaera bigelowii</i> , <i>C. pelagicus</i> , <i>C. floridanus</i> , <i>H. carteri</i> , <i>R. pseudumbilicus</i> , <i>Thoracosphaera</i> spp., <i>U. rotula</i> , Paleogene and Cretaceous reworking;
1550–1555m (core 14)	1	NN6	<i>C. pelagicus</i> , <i>C. floridanus</i> , <i>H. macroporus</i> , <i>H. carteri</i> , <i>H. mediterranea</i> , <i>H. wallichii</i> , <i>H. walbersdorfensis</i> , <i>Micrantholithus</i> spp., ABN <i>Rh. pannonica</i> , <i>R. haqii</i> and <i>R. pseudumbilicus</i> , <i>P. multipora</i> , <i>Micrantholithus</i> spp., <i>Thoracosphaera</i> spp., Paleogene and Cretaceous reworking; ABN pyrite;
1596.3–1599m (core 15)	1	NN6	<i>Calcidiscus premacintyreii</i> , <i>C. leptoporus</i> , <i>C. pelagicus</i> , <i>C. floridanus</i> , <i>C. nitescens</i> , <i>Discoaster deflandrei</i> , <i>H. macroporus</i> , <i>H. carteri</i> , <i>H. wallichii</i> , <i>Rh. pannonica</i> , <i>S. abies</i> , <i>S. moriformis</i> , <i>Thoracosphaera</i> spp., <i>U. rotula</i> , ABN small reticulofenestrids (<i>R. haqii</i> , <i>R. minuta</i>), <i>R. pseudumbilicus</i> , Paleogene and Cretaceous reworking; pyrite, carbonized plant fragments
1652–1656m (core 16)	1	NN6 MNN6	<i>Braarudosphaera bigelowii parvula</i> , ACME <i>C. premacintyreii</i> , <i>C. tropicus</i> , <i>C. pelagicus</i> , <i>C. nitescens</i> (elliptical form), <i>C. floridanus</i> , <i>H. carteri</i> , <i>H. walbersdorfensis</i> , <i>H. wallichii</i> , <i>P. multipora</i> , <i>Rh. pannonica</i> , ABN small reticulofenestrids (<i>R. haqii</i> , <i>R. minuta</i>), <i>R. pseudumbilicus</i> , Paleogene and Cretaceous reworking;
1756–1759m (core 18a)	1	NN5, NN5a	<i>C. premacintyreii</i> , <i>C. pelagicus</i> , <i>C. floridanus</i> , small reticulofenestrids (<i>R. haqii</i> , <i>R. minuta</i>), ABN helicospherids (<i>H. carteri</i> , <i>H. mediterranea</i> , <i>H. scissura</i> , <i>H. walbersdorfensis</i> , <i>H. waltrans</i>), <i>P. multipora</i> , <i>R. pseudumbilicus</i> , <i>Rhabdosphaera</i> and scarce <i>S. heteromorphus</i> together with Cretaceous and Eocene reworkings;
2097-2099m (core 25)	1	Unassigned	<i>C. pelagicus</i> , <i>H. carteri</i> , <i>R. haqii</i> ; Silicoflagellate fragment;