Miocene Nannofossil Marker Species (Gulf of Mexico)

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Oilfield Paleontology
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Chronostratigraphy

Age (Ma) | Series | Stage | Nannofossils | Sea Level & Relative Change of Coastal Onlap (Landward / Basinward) | Biostrat events | Age (Ma)

MIOCENE
- UPPER
  - MESSINIAN — CN10A / NN11B
  - TORTONIAN — CN9B / NN11B; CN9A / NN11A; CN8B / NN10; CN8A / NN10; CN7B / NN9; CN7A / NN9; CN6 / NN8; CN5B / NN7
- MIDDLE
  - SERRAVALLIAN — CN5B / NN7; CN5A / NN6; CN4 / NN5
  - LANGHIAN — CN4 / NN5; CN3 / NN4
- LOWER
  - BURDIGALIAN — CN3 / NN4; CN2 / NN3; CN2 / NN2
  - AQUITANIAN — CN1C / NN2

Biostrat events:
- Ceratolithus armatus
- Triquetrorhabdulus rugosus
- Discoaster quinqueramus
- Discoaster berggrenii
- Amaurolithus amplificus
- Reticulofenestra rotaria
- Amaurolithus primus
- Discoaster bergenii
- Discoaster calcaris
- Discoaster neohamatus
- Discoaster loeblichii
- Minylitha convallis (rare)
- Catinaster mexicanus
- Discoaster bergenii
- Minylitha convallis (psst)
- Discoaster berggrenii
- D. quinqueramus/LAD D. neorectus
- Discoaster bellus
- Discoaster prepentaradiatus
- D. prepentaradiatus (psst)
- Discoaster neorectus/D. loeblichii
- Discoaster bollii
- Discoaster hamatus (small)
- Minylitha sp. A
- Discoaster hamatus (large)
- Catinaster calyculus
- Catinaster coalitus
- Catinaster coalitus (large)/D. micros
- Catinaster calyculus
- Minylitha convallis
- Minylitha sp. A
- Discoaster prepentaradiatus
- Discoaster exilis
- Discoaster bollii
- Coccolithus miopelagicus (>14 µ)
- Discoaster kugleri (s.l.)
- Coccolithus miopelagicus (>14 µ)
- Discoaster hamatus (large)
- Catinaster coalitus
- Discoaster hamatus (small)
- Discoaster calcaris
- Discoaster kugleri
- Discoaster neohamatus
- Discoaster deflandrei
- Discoaster sanmiguelensis
- Discoaster kugleri
- Calcidiscus premacintyrei
- Cyclicargolithus floridanus
- Triquetrorhabdulus rugosus
- Cyclicargilithus bukryi
- Cyclicargilithus floridanus (psst)
- Discoaster musicus
- Sphenolithus heteromorphus
- Discoaster petaliformis
- Discoaster musicus
- Sph. heteromorphus/ D. petaliformis
- Discoaster sanmiguelensis
- Helicosphaera ampliaperta
- Discoaster petaliformis
- Discoaster deflandrei
- Reticulofenestra lockeri
- Helicosphaera mediterranea
- Reticulofenestra minuta
- Discoaster druggii
- Triquetrohab. carinatus (v. rare)
- Calcidiscus premacintyrei
- Sphenolithus belemnos
- Sphenolithus disbelemnos
- Sphenolithus heteromorphus
- Helicosphaera ampliaperta
- Sphenolithus belemnos
- Triquetrorhabdulus carinatus
- Isselithina fusa
- Cyclicargolithus abisectus (>11 µ)
- Sphenolithus disbelemnos
- Discoaster druggii

Species columns (Ma):
- Ceratolithus armatus
- Amaurolithus primus
- Discoaster quinitatus
- Triquetrorhabdulus rugosus
- Discoaster quinqueramus
- Amaurolithus amplificus
- Discoaster berggrenii
- Reticulofenestra rotaria
- Discoaster bergenii
- Discoaster calcaris
- Discoaster neohamatus
- Discoaster loeblichii
- Minylitha convallis
- Catinaster mexicanus
- Discoaster neorectus
- Discoaster bellus
- Discoaster prepentaradiatus
- Discoaster bollii
- Discoaster hamatus (small)
- Minylitha sp. A
- Discoaster hamatus (large)
- Catinaster calyculus
- Catinaster coalitus
- Catinaster coalitus (large)
- Discoaster micros
- Discoaster exilis
- Coccolithus miopelagicus >14 µ
- Discoaster kugleri
- Discoaster deflandrei
- Discoaster sanmiguelensis
- Calcidiscus premacintyrei
- Cyclicargolithus floridanus
- Discoaster musicus
- Sphenolithus heteromorphus
- Discoaster petaliformis
- Helicosphaera ampliaperta
- Reticulofenestra lockeri
- Helicosphaera mediterranea
- Discoaster druggii
- Sphenolithus belemnos
- Sphenolithus disbelemnos
- Triquetrorhabdulus carinatus
- Isselithina fusa
- Cyclicargolithus abisectus >11 µ
- Sphenolithus delphix
- Dictyococcites bisectus

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