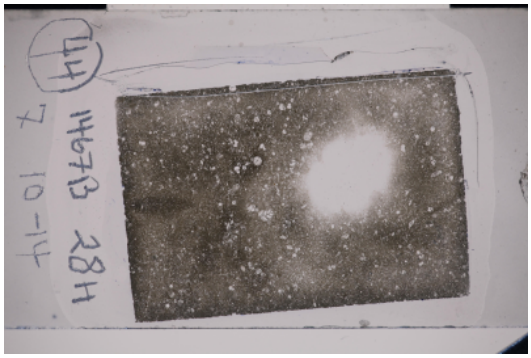
THIN SECTION LABEL ID: **359-U1467B-28H-7-W 10/14-TSB-TS_44** Thin section no.: 44

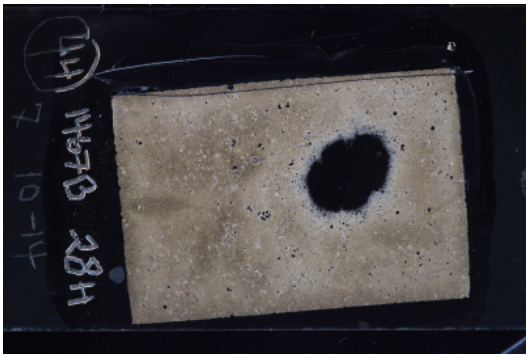
Unit/Subunit: Observer:

Thin section summary: The sample consists of a planktic foraminiferal fine-grained wackestone with benthic foraminifera. Components occurr in a micritic matrix. Some areas are ocher colored, probably by organic matter.

Whole thin section (plane-polarized):



Whole thin section (cross-polarized):



Photomicrographs:

SEDIMENT/SEDIMENTARY ROCK

Lithology: wackestone

Skeletal components	major	intermediate	minor
type	foraminifera (planktic)	foraminifera (benthic)	
comment			

Cement type: micrite cement

Porosity (major): interparticle

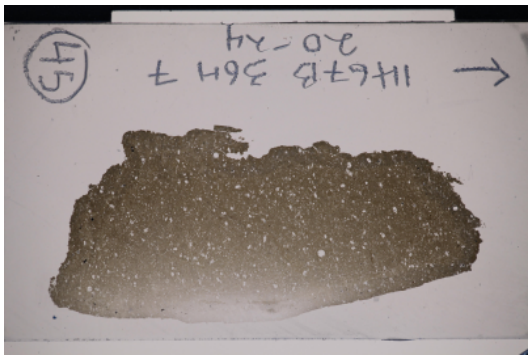
General comments: Grading (unfortunately the "up" arrow was not engraved in the thin section); No compaction.

THIN SECTION LABEL ID: **359-U1467B-36H-7-W 20/24-TSB-TS_45** Thin section no.: 45

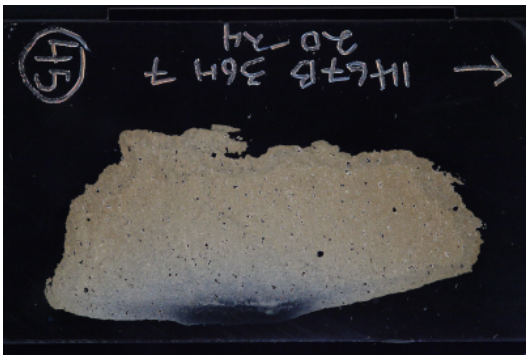
Unit/Subunit: Observer:

Thin section summary: The sample was taken from 328.1 mbsf to 328.14 mbsf. The sample consists of a planktic foraminiferal fine-grained wackestone with benthic foraminifera. Components occur in a micritic matrix. The major porosity type is interparticle porosity and the minor porosity type is moldic porosity. Some areas are ocher colored, probably by organic matter. Celestite is present (?).

Whole thin section (plane-polarized):



Whole thin section (cross-polarized):



Photomicrographs:

SEDIMENT/SEDIMENTARY ROCK

Lithology: wackestone

Skeletal components	major	intermediate	minor
type	foraminifera (planktic)	foraminifera (benthic)	
comment			

Cement type: micrite cement

Porosity (major): interparticle

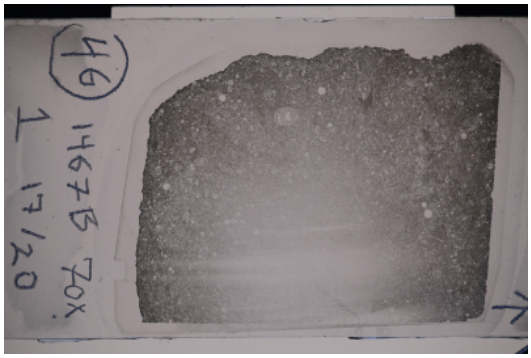
General comments: Celestine present

THIN SECTION LABEL ID: **359-U1467B-70X-1-W 17/20-TSB-TS_46** Thin section no.: 46

Unit/Subunit: Observer:

Thin section summary: The sample was taken from 539.77 mbsf to 539.8 mbsf. This sample was taken from a light interval of the section. The sample consists of a planktic foraminiferal fine-grained wackestone with benthic foraminifera. Components occur in a micritic matrix. The major porosity type is interparticle porosity and the minor porosity type is moldic porosity. Some areas are ocher colored, probably by organic matter. Dog-tooth cements and few dolomite crystals (?) are observed.

Whole thin section (plane-polarized):



Whole thin section (cross-polarized):

Photomicrographs:

SEDIMENT/SEDIMENTARY ROCK

Lithology: wackestone

Skeletal components	major	intermediate	minor
type	foraminifera (planktic)	foraminifera (benthic)	
comment			

Cement type: dog tooth

Porosity (major): interparticle

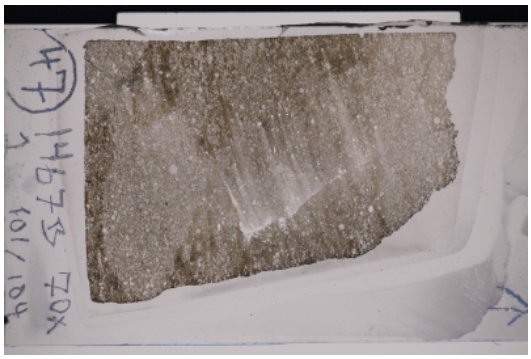
General comments: Few dolomite crystals appear. Slightly more cemented.

THIN SECTION LABEL ID: **359-U1467B-70X-1-W 101/104-TSB-TS_47** Thin section no.: 47

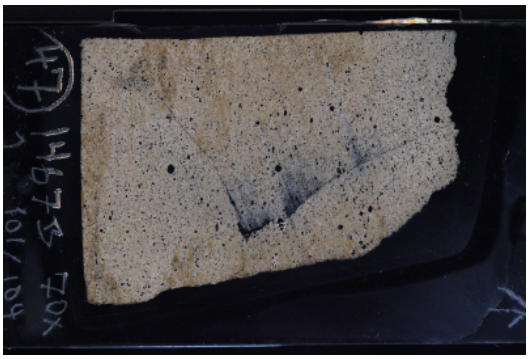
Unit/Subunit: Observer:

Thin section summary: The sample was taken from 540.61 mbsf to 540.64 mbsf. This sample was taken from the dark interval of the section. The sample consists of a planktic foraminiferal fine-grained wackestone with benthic foraminifera. Components occur in a micritic matrix. The major porosity type is interparticle porosity. Some areas are ocher colored, probably by organic matter.

Whole thin section (plane-polarized):



Whole thin section (cross-polarized):



Photomicrographs:

SEDIMENT/SEDIMENTARY ROCK

Lithology: wackestone

Skeletal components	major	intermediate	minor
type	foraminifera (planktic)	foraminifera (benthic)	
comment			

Cement type:

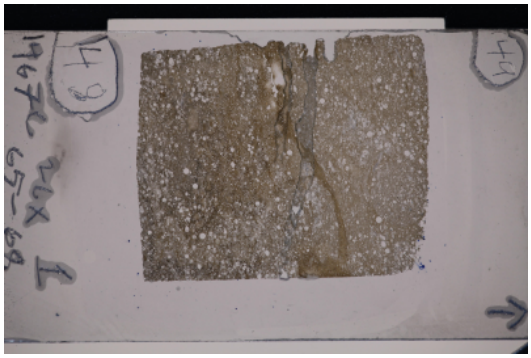
Porosity (major): interparticle

THIN SECTION LABEL ID: **359-U1467C-26X-1-W 65/68-TSB-TS_49** Thin section no.: 49

Unit/Subunit: Observer:

Thin section summary: The sample consists of a planktic foraminiferal fine-grained wackestone with present benthic foraminifera. There is a few apatite crystals and organic matter. Planktic foraminifera present signs of compaction. Components occur in a micritic matrix. The major porosity type is intraparticle. Some areas are ocher colored, probably by organic matter. Planktic foraminifera may present dog tooth cements. The micritic matrix can be locally preserve as microcrystalline sparite.

Whole thin section (plane-polarized):



Whole thin section (cross-polarized):

Photomicrographs:

SEDIMENT/SEDIMENTARY ROCK

Lithology: wackestone

Skeletal components	major	intermediate	minor
type		foraminifera (planktic)	foraminifera (benthic)
comment			

Cement type: micrite cement

Porosity (major): intraparticle

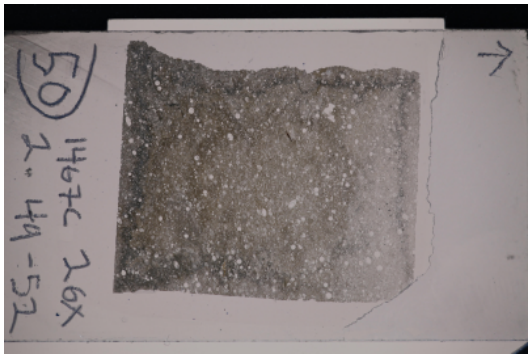
General comments: Planktic foraminifera present signs of compaction

THIN SECTION LABEL ID: **359-U1467C-26X-2-W 49/52-TSB-TS_50** Thin section no.: 50

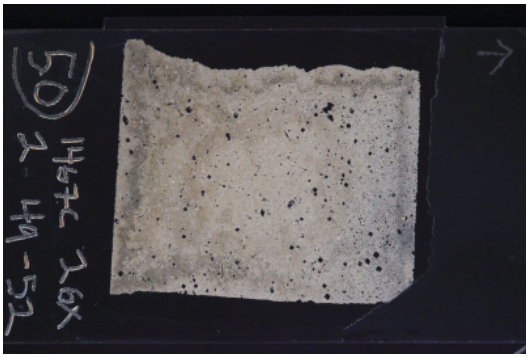
Unit/Subunit: Observer:

Thin section summary: The sample consists of a planktic foraminiferal fine-grained wackestone with present benthic foraminifera. There are a few apatite crystals and common organic matter. Planktic foraminifera present signs of compaction. Components occur in a micritic matrix. The major porosity type is intraparticle. Some areas are ocher colored, probably by organic matter. Planktic foraminifera may present dog tooth cements. The micritic matrix can be locally preserve as microcrystalline sparite.

Whole thin section (plane-polarized):



Whole thin section (cross-polarized):



Photomicrographs:

SEDIMENT/SEDIMENTARY ROCK

Lithology: wackestone

Skeletal components	major	intermediate	minor
type	foraminifera (planktic)	foraminifera (benthic)	
comment			

Cement type: dog tooth

Porosity (major): interparticle

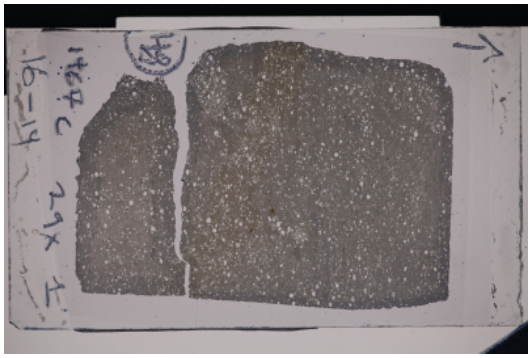
General comments: Compaction may have occurred due to orientation/compaction of Planktic foraminifera. Clotted micrite appears in few area of the sample, also microspar may occur.

THIN SECTION LABEL ID: **359-U1467C-29X-1-W 16/19-TSB-TS_48** Thin section no.: 48

Unit/Subunit: Observer:

Thin section summary: The sample consists of a planktic foraminiferal fine-grained wackestone (to packstone) with abundant silt sized bioclasts and present benthic foraminifera (Amphistegina) and echinoid spines. There is a few apatite crystals and common organic matter (picture for apatite). Planktic foraminifera may occur as complete individuals and as fragments and present signs of compaction. Components occur in a partially recrystallized micritic matrix. The partially recrystallized matrix can partially infill the intraparticle porosity of the planktic foraminifera. The major porosity type is intraparticle. Some areas are ocher colored, probably by organic matter. Planktic foraminifera may present calcitic overgrowth of their walls. The sample present differential packing degree in relation to bioturbation (packstone texture increase in the burrows). The top of the thin section is slightly laminated.

Whole thin section (plane-polarized):



Whole thin section (cross-polarized):

Photomicrographs:

SEDIMENT/SEDIMENTARY ROCK

Lithology: wackestone

Skeletal components	major	intermediate	minor
type	foraminifera (planktic)	foraminifera (benthic)	
comment			

Cement type: granular

Porosity (major): intraparticle

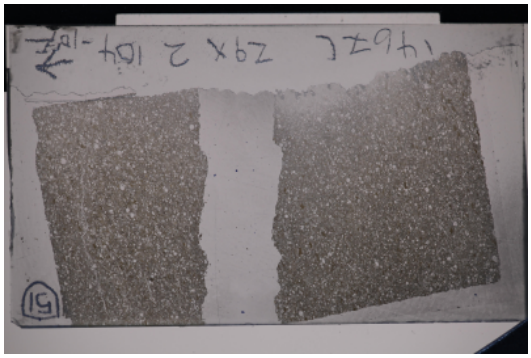
General comments: Different texture inside burrow (Packstone) than the host rock (wackestone). Slightly laminated at the top of the sample. Signs of compaction on Planktic foraminifera especially in the host rock (no burrows).

THIN SECTION LABEL ID: **359-U1467C-29X-2-W 104/107-TSB-TS_51** Thin section no.: 51

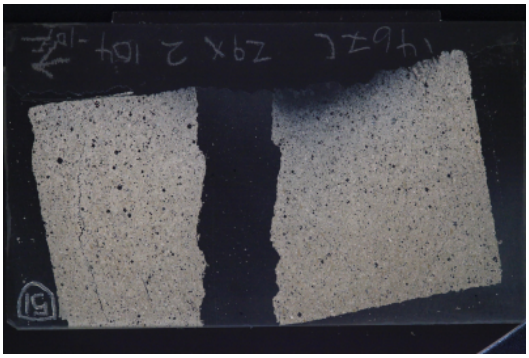
Unit/Subunit: Observer:

Thin section summary: The sample consists of a planktic foraminiferal fine-grained wackestone to packstone with abundant silt sized bioclasts and present benthic foraminifera (Amphistegina, Quinqueloculina) and echinoid remains (spines and plates). There is a few apatite crystals and abundant organic matter. Planktic foraminifera may occur as complete individuals and as fragments. Planktic foraminifera may present calcitic overgrowth of their walls. Components occur in a partially recrystallized micritic matrix. The partially recrystallized matrix can partially infill the intraparticle porosity of the planktic foraminifera. The major porosity type is intraparticle. Some areas are ocher colored, probably by organic matter. The accumulation of planktic foraminifera define a raft lamination.

Whole thin section (plane-polarized):



Whole thin section (cross-polarized):



Photomicrographs:

SEDIMENT/SEDIMENTARY ROCK

Lithology: wackestone

Skeletal components	major	intermediate	minor
type	foraminifera (planktic)	foraminifera (benthic)	echinoderm
comment			Fragments

Cement type: granular

Porosity (major): intraparticle

General comments: Organic material is abundant and is present as rounded patches with regular geometries and sharp outlines. The accumulation of planktic foraminifera defines a rough lamination.