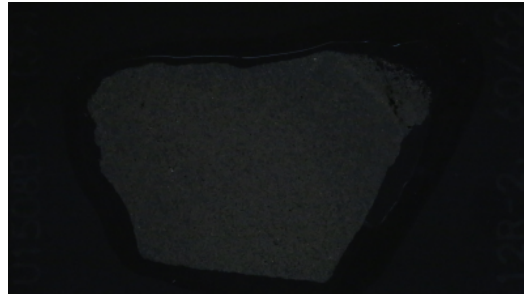
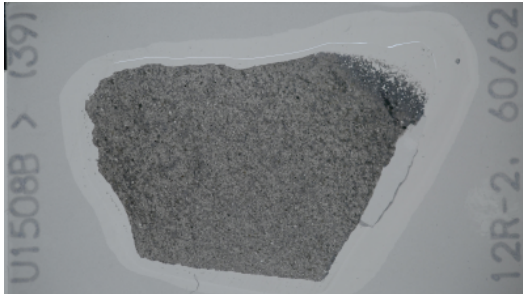


THIN SECTION LABEL ID: **371-U1508B-12R-2-W 60/62-TSB-TS39** Thin section no.: 39
 Observer: MG Unit/subunit: Unit IIb
 Thin section summary: Foraminiferal grainstone with chert (cherty layer within calcareous chalk). Dominant foraminifera with common micrite and cement. Chert fills some of the foraminifera chambers and some of the intergranular spaces.

Plane-polarized: 42913921

Cross-polarized: 42913941



Sediments and Sedimentary Rock

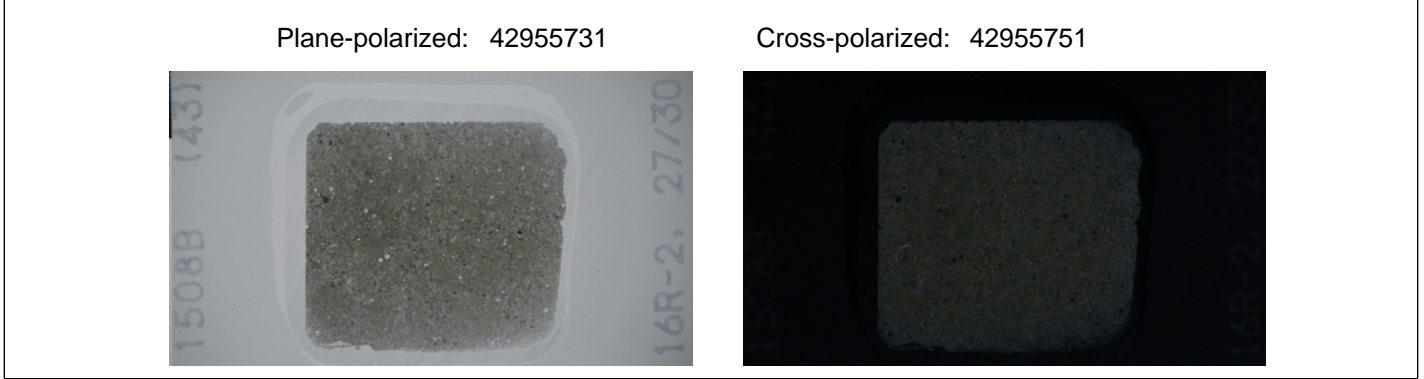
Complete Lithology Name: foraminiferal grainstone with chert

Remarks: Section from cherty layer within calcareous chalk. Chert fills some of the foraminifera chambers and some of the intergranular spaces.

TEXTURE	Gravel	Sand	Silt	Clay	Matrix	Cement
Percent		70			10	20

COMPOSITION	Siliciclastic	Calcareous	Biosiliceous	Ash
Percent		75	25	

THIN SECTION LABEL ID: **371-U1508B-16R-2-W 27/30-TSB-TS43** Thin section no.: 43
 Observer: MG Unit/subunit: Unit IIb
 Thin section summary: Tuffaceous Packstone, with abundant foraminifera, comon micrite and lapilli, rare basaltic tephra, traces of glauconite, sulfides, and quartz. Several shallow water carbonate bioclasts, including green algae, benthic foraminifera, various types of valves. Grains often altered or recrystallized. Forams generally empty, sometimes filled with carbonate or autigenic opaque minerals.



Sediments and Sedimentary Rock

Complete Lithology Name: packstone with volcanic ash

Remarks: Several shallow water carbonate bioclasts, including green algae, benthic foraminifera, various types of valves. Grains often altered or recrystallized. Forams generally empty, sometimes filled with carbonate or autigenic opaque minerals.

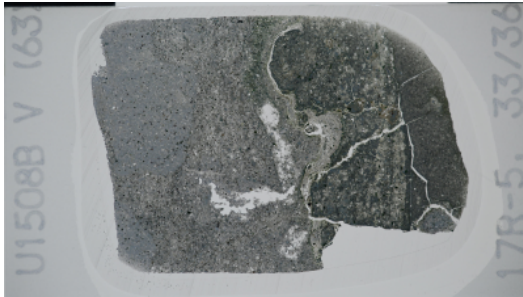
TEXTURE	Gravel	Sand	Silt	Clay	Matrix	Cement
Percent		50	10		40	

COMPOSITION	Siliciclastic	Calcareous	Biosiliceous	Ash
Percent	2	49		49

THIN SECTION LABEL ID: **371-U1508B-17R-5-W 33/36-TSB-TS63** Thin section no.: 63
 Observer: MG Unit/subunit: Unit IIb
 Thin section summary: Section from an erosional contact. Foraminiferal packstone and altered packstone, with glauconite, oxides, and various bioclasts. The two lithologies seem to have similar composition, but the upper is much more altered than the lower and with more glauconite, and oxidized grains.

Plane-polarized: 43063361

Cross-polarized: 43063451



Sediments and Sedimentary Rock

Complete Lithology Name: foraminiferal packstone

Remarks: Section from an erosional contact. The two lithologies seem to have similar composition, but the upper is much more altered than the lower and with more glauconite, and oxidized grains.

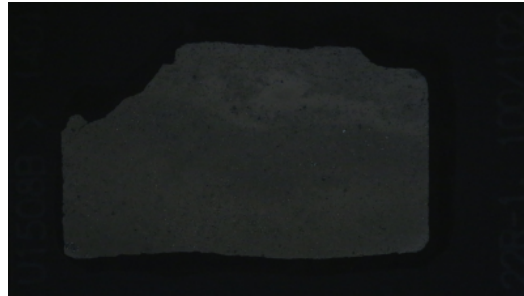
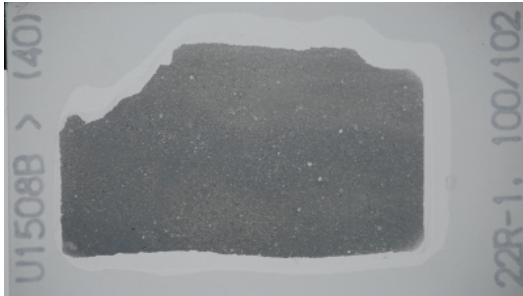
TEXTURE	Gravel	Sand	Silt	Clay	Matrix	Cement
Percent		55			30	15

COMPOSITION	Siliciclastic	Calcareous	Biosiliceous	Ash
Percent		99		1

THIN SECTION LABEL ID: **371-U1508B-22R-1-W 100/102-TSB-TS40** Thin section no.: 40
 Observer: MG Unit/subunit: Unit III
 Thin section summary: Bioclastic packstone with chert (cherty layer within calcareous chalk). Abundant micrite, common foraminifera, rare calcareous and siliceous bioclasts including sponge spicules, traces of radiolarians and glauconite. Chert fills some of the chambers of the shells

Plane-polarized: 42913961

Cross-polarized: 42913981



Sediments and Sedimentary Rock

Complete Lithology Name: bioclastic packstone with chert

Remarks: Section from cherty layer within calcareous chalk. Chert fills some of the chambers of the shells

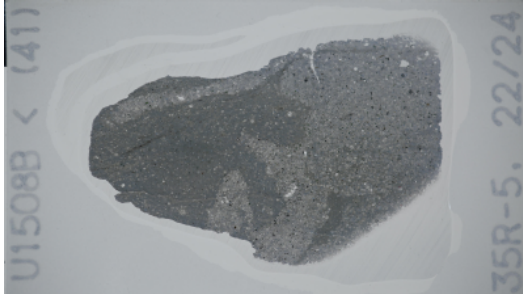
TEXTURE	Gravel	Sand	Silt	Clay	Matrix	Cement
Percent		50	10		40	

COMPOSITION	Siliciclastic	Calcareous	Biosiliceous	Ash
Percent		80	20	

THIN SECTION LABEL ID: **371-U1508B-35R-5-W 22/24-TSB-TS41** Thin section no.: 41
 Observer: MG Unit/subunit: Unit III
 Thin section summary: Intraclastic packstone with foraminifera, common micrite, traces of radiolarians, siliciclastic (feldspar), glauconite and other authigenic grains.

Plane-polarized: 42940591

Cross-polarized: 42940611



Sediments and Sedimentary Rock

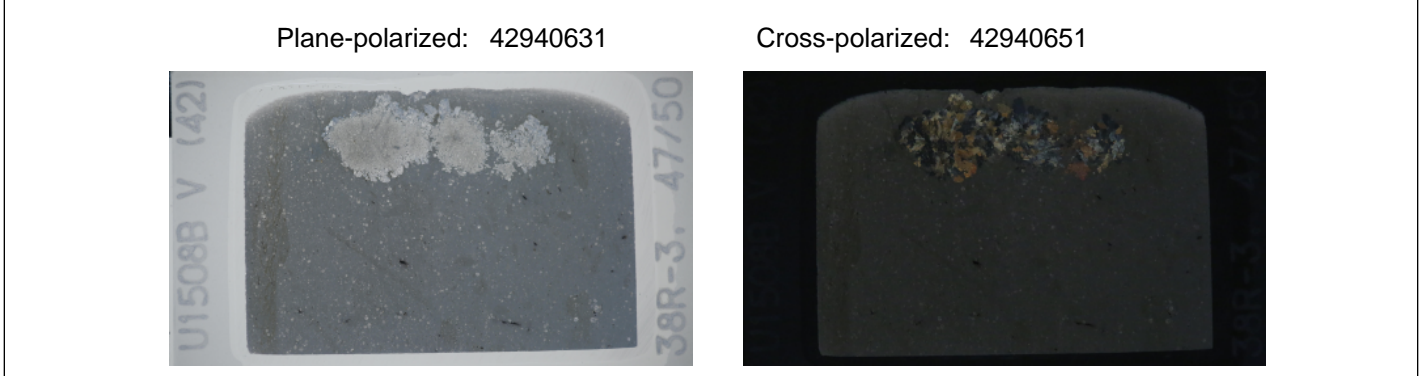
Complete Lithology Name: intraclastic packstone with foraminifers

Remarks: Heterogeneous lithology, varying from foraminiferal grainstone to wackestone

TEXTURE	Gravel	Sand	Silt	Clay	Matrix	Cement
Percent		40	10		35	15

COMPOSITION	Siliciclastic	Calcareous	Biosiliceous	Ash
Percent	1	99		

THIN SECTION LABEL ID: **371-U1508B-38R-3-W 47/50-TSB-TS42** Thin section no.: 42
 Observer: MG Unit/subunit: Unit III
 Thin section summary: Wackestone with foraminifera. A cavity (burrow) is filled with equant cement crystals displaying a cleavage typical of carbonate minerals (dolomite). They occur well shaped at the margin of the cavity and more irregular, with blurry extinction, in the inner part. Second order interference colors in cross-polarized light from yellow-orange to pink-purple



Sediments and Sedimentary Rock

Complete Lithology Name: wackestone with foraminifers

Remarks: Equant cement crystals display a cleavage typical of carbonate minerals. They occur well shaped at the margin of the cavity and more irregular, with blurry extinction, in the inner part. Second order interference colors in cross-polarized light from yellow-orange to pink-purple

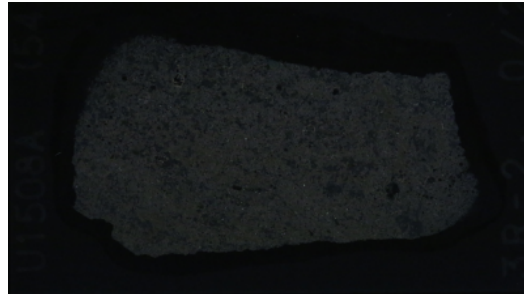
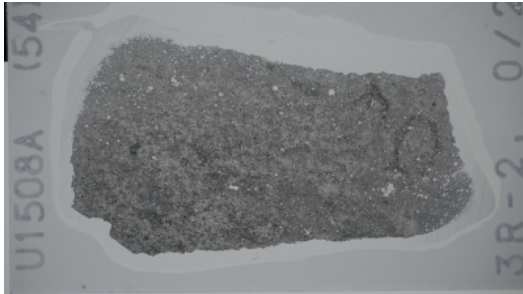
TEXTURE	Gravel	Sand	Silt	Clay	Matrix	Cement
Percent		25			60	15

COMPOSITION	Siliciclastic	Calcareous	Biosiliceous	Ash
Percent		100		

THIN SECTION LABEL ID: **371-U1508C-3R-2-W 0/2-TSB-TS54** Thin section no.: 54
 Observer: MG Unit/subunit: Unit IIb
 Thin section summary: Section from a slightly silicified layer. Foraminiferal Packstone with traces of volcanic grains, bioclasts, and glauconite. Bioclasts include benthic foraminifera and algal fragments. Some bioclasts are silicified or recrystallized

Plane-polarized: 43018191

Cross-polarized: 43018211



Sediments and Sedimentary Rock

Complete Lithology Name: foraminiferal packstone

Remarks: Section from a slightly silicified layer. Bioclasts include benthic foraminifera and algal fragments. Some bioclasts are silicified or recrystallized

TEXTURE	Gravel	Sand	Silt	Clay	Matrix	Cement
Percent		70			30	

COMPOSITION	Siliciclastic	Calcareous	Biosiliceous	Ash
Percent		99		1

THIN SECTION LABEL ID: **371-U1508C-14R-2-W 60/63-TSB-TS55** Thin section no.: 55
 Observer: MG Unit/subunit: Unit IIb
 Thin section summary: Section from bioturbated nannofossil chalk. Intraclastic wackestone with foraminifera and traces of glauconite

Plane-polarized: 43018231

Cross-polarized: 43018251



Sediments and Sedimentary Rock

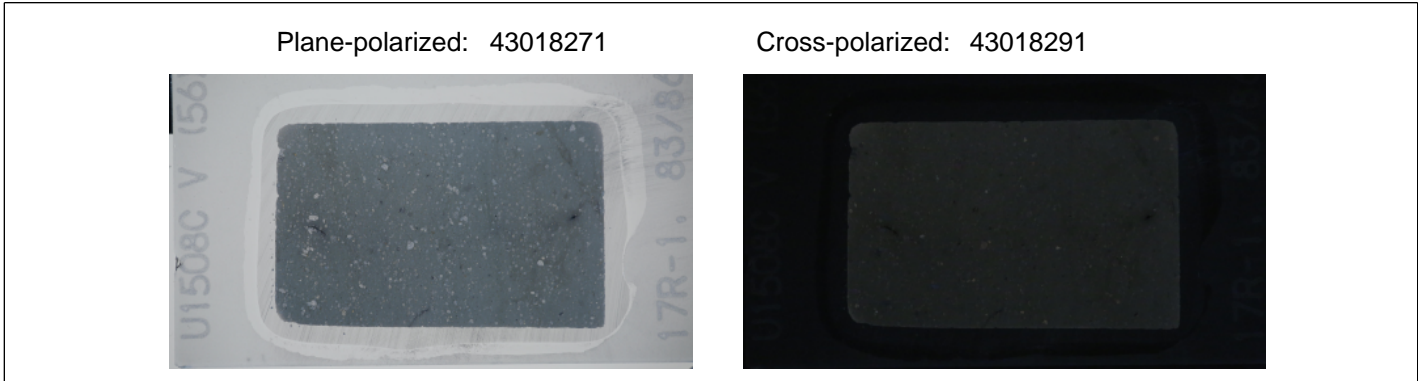
Complete Lithology Name: intraclastic wackestone with foraminifers

Remarks: Section from bioturbated nannofossil chalk

TEXTURE	Gravel	Sand	Silt	Clay	Matrix	Cement
Percent		30	10		60	

COMPOSITION	Siliciclastic	Calcareous	Biosiliceous	Ash
Percent		100		

THIN SECTION LABEL ID: **371-U1508C-17R-1-W 83/86-TSB-TS56** Thin section no.: 56
 Observer: MG Unit/subunit: Unit IIb
 Thin section summary: Section from a main lithology, nannofossil chalk. Intraclastic wackestone with foraminifera, traces of volcanic ash and bioclasts. Bioclasts are slightly to intensely recrystallized. Forams chambers generally filled with carbonate cement or micrite (probably authigenic).



Sediments and Sedimentary Rock

Complete Lithology Name: intraclastic wackestone with foraminifers

Remarks: Section from a main lithology, nannofossil chalk. Bioclasts are slightly to intensely recrystallized. Forams chambers generally filled with carbonate cement or micrite (probably authigenic).

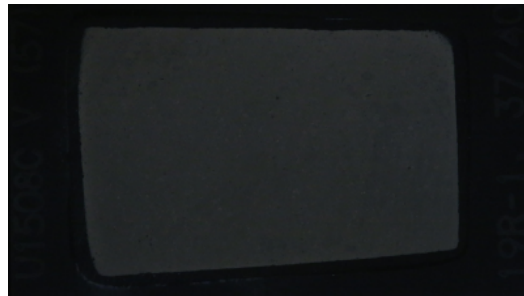
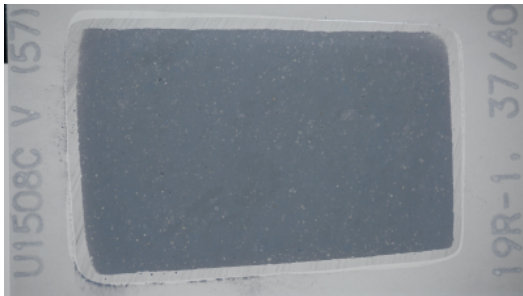
TEXTURE	Gravel	Sand	Silt	Clay	Matrix	Cement
Percent		10	20		70	

COMPOSITION	Siliciclastic	Calcareous	Biosiliceous	Ash
Percent		95		5

THIN SECTION LABEL ID: **371-U1508C-19R-1-W 37/40-TSB-TS57** Thin section no.: 57
 Observer: MG Unit/subunit: Unit IIb
 Thin section summary: Section from a main lithology, micritic limestone. Intraclastic wackestone with foraminifera, Foraminifera are moderately to intensely recrystallized, filled with cement (sparite or chert) or micrite (probably authigenic).

Plane-polarized: 43018311

Cross-polarized: 43018331



Sediments and Sedimentary Rock

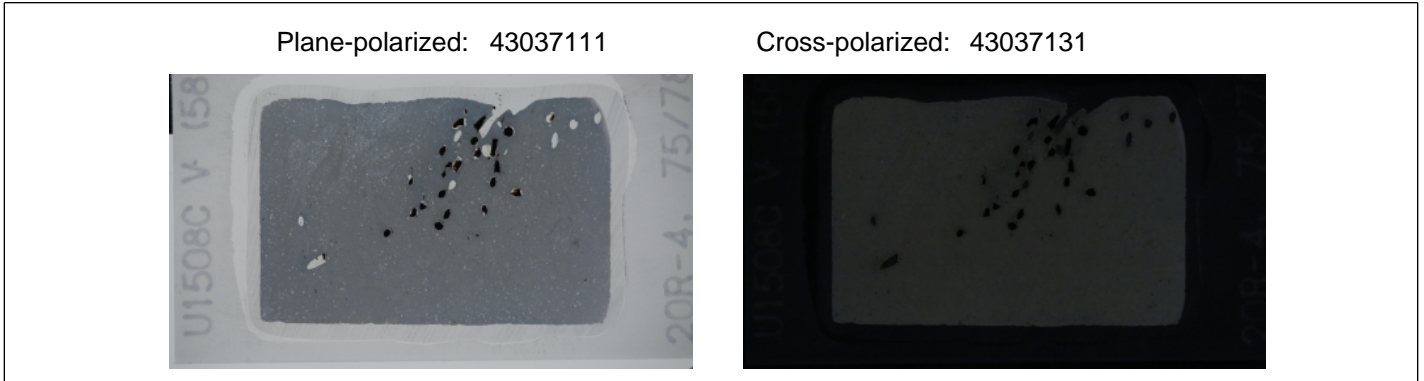
Complete Lithology Name: intraclastic wackestone with foraminifers

Remarks: Section from a main lithology, micritic limestone. Foraminifera are moderately to intensely recrystallized, filled with cement (sparite or chert) or micrite (probably authigenic).

TEXTURE	Gravel	Sand	Silt	Clay	Matrix	Cement
Percent		10	20		70	

COMPOSITION	Siliciclastic	Calcareous	Biosiliceous	Ash
Percent		100		

THIN SECTION LABEL ID: **371-U1508C-20R-4-W 75/78-TSB-TS58** Thin section no.: 58
 Observer: MG Unit/subunit: Unit IIb
 Thin section summary: Intraclastic wackestone with foraminifera, traces of other bioclasts and authigenic minerals. Intraclasts are silt size. Foraminifera and bioclasts moderately re-crystallized. Presence of mm dark brownish-reddish, poorly transparent, irregular blebs. Probably authigenic



Sediments and Sedimentary Rock

Complete Lithology Name: intraclastic wackestone with foraminifers

Remarks: Intraclasts are silt size. Foraminifera and bioclasts moderately re-crystallized. Presence of mm dark brownish-reddish, poorly transparent, irregular blebs. Probably authigenic

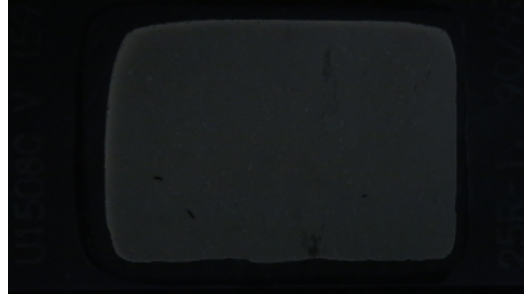
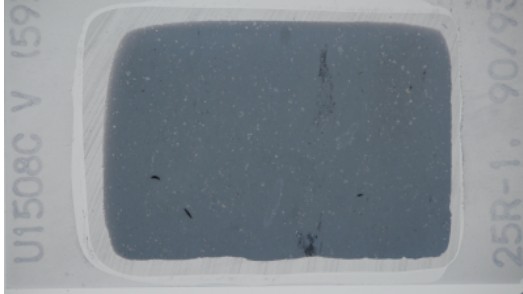
TEXTURE	Gravel	Sand	Silt	Clay	Matrix	Cement
Percent		10	30		60	

COMPOSITION	Siliciclastic	Calcareous	Biosiliceous	Ash
Percent		100		

THIN SECTION LABEL ID: **371-U1508C-25R-1-W 90/93-TSB-TS59** Thin section no.: 59
 Observer: MG Unit/subunit: Unit IIIa
 Thin section summary: Intraclastic wackestone with foraminifera. Intraclasts are silt size. Foraminifera and bioclasts moderately re-crystallized.

Plane-polarized: 43037151

Cross-polarized: 43037171



Sediments and Sedimentary Rock

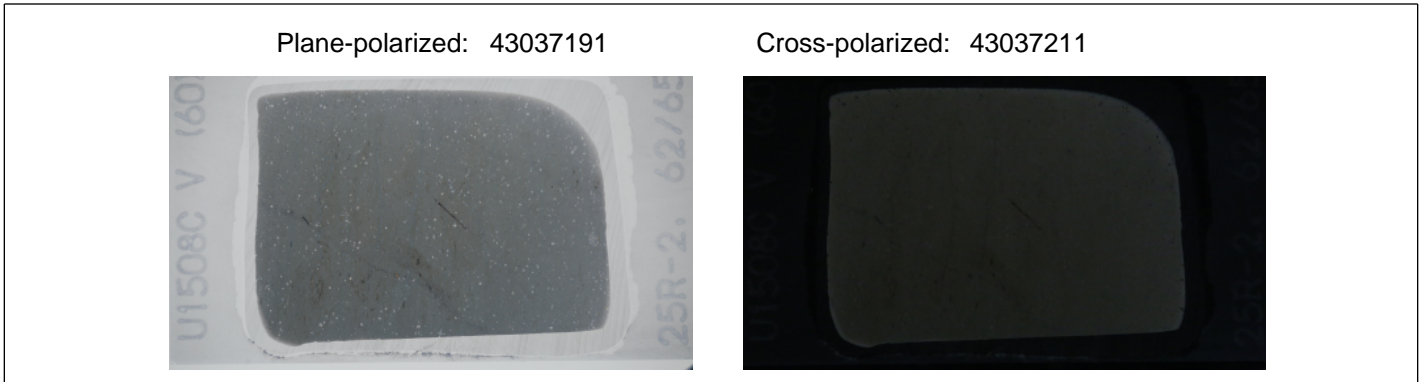
Complete Lithology Name: intraclastic wackestone with foraminifers

Remarks: Intraclasts are silt size. Foraminifera and bioclasts moderately re-crystallized.

TEXTURE	Gravel	Sand	Silt	Clay	Matrix	Cement
Percent		10	25		65	

COMPOSITION	Siliciclastic	Calcareous	Biosiliceous	Ash
Percent		100		

THIN SECTION LABEL ID: **371-U1508C-25R-2-W 62/65-TSB-TS60** Thin section no.: 60
 Observer: MG Unit/subunit: Unit IIIb
 Thin section summary: Intraclastic wackestone with foraminifera and traces of other bioclasts. Intraclasts are silt size. Bioclasts include wiggle shape fragments, probably valves. Foraminifera and bioclasts moderately re-crystalized.



Sediments and Sedimentary Rock

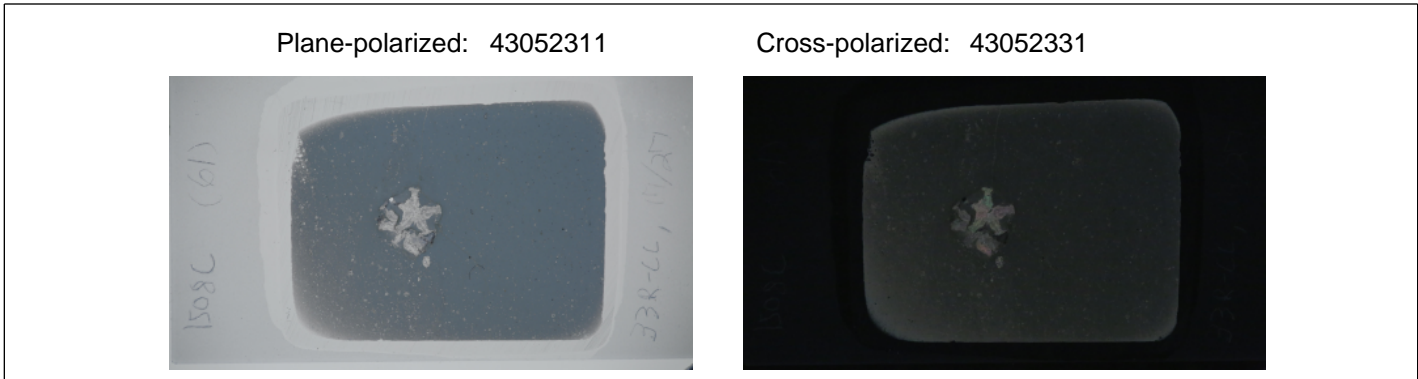
Complete Lithology Name: intraclastic wackestone with foraminifers

Remarks: Intraclasts are silt size. Bioclasts include wiggle shape fragments, probably valves. Foraminifera and bioclasts moderately re-crystalized.

TEXTURE	Gravel	Sand	Silt	Clay	Matrix	Cement
Percent		10	30		60	

COMPOSITION	Siliciclastic	Calcareous	Biosiliceous	Ash
Percent		100		

THIN SECTION LABEL ID:	371-U1508C-33R-CC-PAL-TSB-TS61	Thin section no.:	61
Observer:	MG	Unit/subunit:	Unit IIIb
Thin section summary:	Wackestone with foraminifera and other bioclasts. Shells rather recrystallized and sometimes silicified. A star shaped cavity filled with spathic cement is present at the center of the section.		



Sediments and Sedimentary Rock

Complete Lithology Name: wackestone

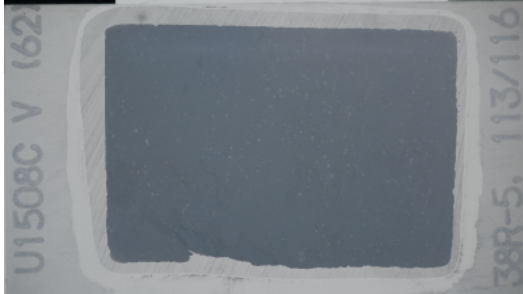
Remarks: Shells rather recrystallized and sometimes silicified. A star shaped cavity filled with spathic calcite cement is present in the middle of the section.

TEXTURE	Gravel	Sand	Silt	Clay	Matrix	Cement
Percent		25			70	5

COMPOSITION	Siliciclastic	Calcareous	Biosiliceous	Ash
Percent		100		

THIN SECTION LABEL ID: **371-U1508C-38R-5-W 113/116-TSB-TS62** Thin section no.: 62
 Observer: MG Unit/subunit: Unit IIIb
 Thin section summary: Wackestone with foraminifera and other bioclasts. Section from hard bioturbated micritic limestone. Bioclasts rather recrystallized.

Plane-polarized: 43052351



Cross-polarized: 43052371



Sediments and Sedimentary Rock

Complete Lithology Name: wackestone with foraminifers

Remarks: Section from hard bioturbated micritic limestone. Bioclasts rather recrystallized

TEXTURE	Gravel	Sand	Silt	Clay	Matrix	Cement
Percent		30			70	

COMPOSITION	Siliciclastic	Calcareous	Biosiliceous	Ash
Percent		100		