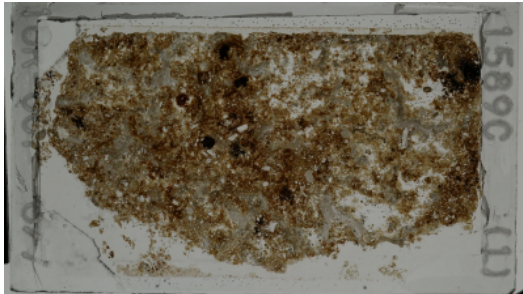
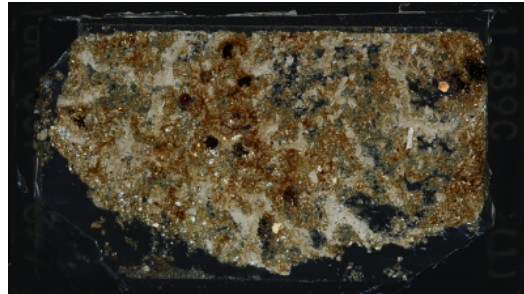


THIN SECTION LABEL ID: **398-U1589C-10R-CC-W 3/7-TSB-TS 1** Thin section no.: 1
 Observer: Unit/subunit:
 Thin section summary: Matrix supported immature sandstone with metamorphic quartz, feldspar (e.g. microcline), and minor metamorphic rock fragments (quartz-muscovite schist). Cement (matrix) is highly altered and consists of calcite and Fe-oxides/hydroxide.

Plane-polarized: 67465171



Cross-polarized: 67465191



Sediments and Sedimentary Rock

Lithology: matrix supported clastic sediment

Grains: lithic, crystal or crystals

Sorting: moderately sorted **Grading type:** no grading

Ave grain size (mm): fine sand **Max. grain size (mm):** coarse sand

| | | | | | |
|---------------------------|-------------|--------------------------------|---------|--------------------------|---|
| Lithic class: | metamorphic | Lithic roundness: | angular | Lithic abundance: | C |
| Vitric clast type: | | Vitric clast roundness: | | Vitric abundance: | |

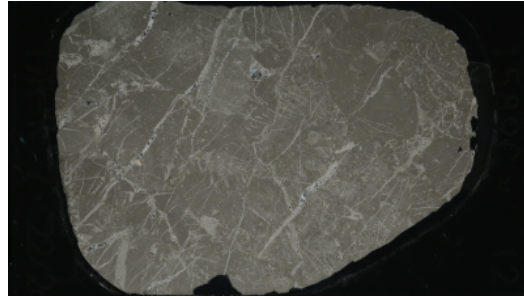
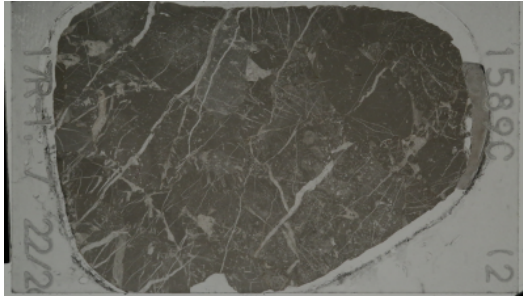
| | | | | | | | |
|-----------------------|---------------------------|-----------------------|-----------|---------------------------|---|--------------------------|--|
| Crystal names: | feldspar, calcite, quartz | Crystal shape: | subhedral | Crystal abundance: | A | Crystal features: | |
|-----------------------|---------------------------|-----------------------|-----------|---------------------------|---|--------------------------|--|

| | | | |
|------------------------------|-----------------|----------------------------|---------------------|
| Degree of alteration: | high alteration | Alteration feature: | calcite, iron oxide |
|------------------------------|-----------------|----------------------------|---------------------|

THIN SECTION LABEL ID: **398-U1589C-17R-1-W 22/26-TSB-TS 2** Thin section no.: 2
 Observer: **RG** Unit/subunit:
 Thin section summary: **Micritic limestone with bioclasts (foraminifera, algae and other bioclasts) and ooids.**

Plane-polarized: 67464081

Cross-polarized: 67464101



Sediments and Sedimentary Rock

Lithology: micrite

Grains: biogenic

Sorting: well sorted

Grading type: no grading

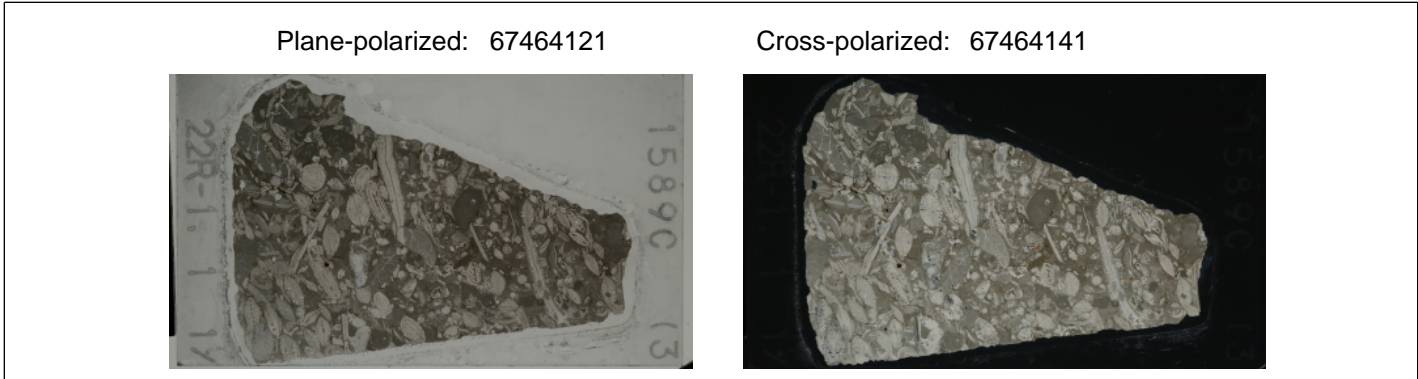
Ave grain size (mm):

Max. grain size (mm):

| | | | |
|-------------------------|------------------------------------|-----------------------------------|----|
| Biogenic clasts: | benthic foraminifer,bioclast,algal | Bioclasts abundance range: | Tr |
|-------------------------|------------------------------------|-----------------------------------|----|

| | | | |
|------------------------------|-------|----------------------------|--|
| Degree of alteration: | fresh | Alteration feature: | |
|------------------------------|-------|----------------------------|--|

THIN SECTION LABEL ID: **398-U1589C-22R-1-W 0/3-TSB-TS 3** Thin section no.: 3
 Observer: Unit/subunit:
 Thin section summary: Matrix supported biogenic limestone containing large and smaller benthic foraminifera, planktonic foraminifera, algae and other bioclasts.



Sediments and Sedimentary Rock

Lithology: matrix supported packstone
Grains: biogenic

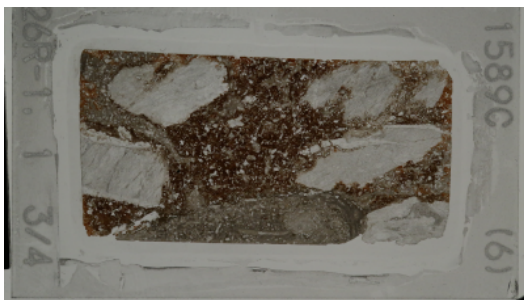
Sorting: poorly sorted **Grading type:** no grading

Ave grain size (mm): **Max. grain size (mm):**

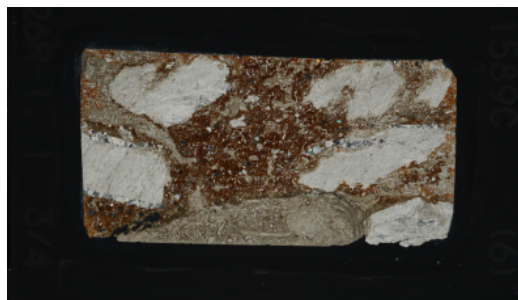
| | | | | | | | |
|------------------------------|---|-----------------------------------|---------------------|---------------------------|---|--------------------------|--|
| Crystal names: | | Crystal shape: | | Crystal abundance: | A | Crystal features: | |
| Biogenic clasts: | benthic foraminifer, planktonic foraminifer, shell, algal | Bioclasts abundance range: | D | | | | |
| Degree of alteration: | high alteration | Alteration feature: | calcite, iron oxide | | | | |

THIN SECTION LABEL ID: **398-U1589C-26R-1-W 1/4-TSB-TS 6** Thin section no.: 6
 Observer: Unit/subunit:
 Thin section summary: Carbonate/limestone breccia with carbonate-rich and Fe-oxide-rich cement (matrix). Clasts are fine-grained monomineralic (calcite) limestone. There is some evidence of shearing and recrystallization of clasts. Cement (matrix) is highly altered and consists of calcite and Fe-oxides/hydroxides and rounded features filled with sparite.

Plane-polarized: 67464161



Cross-polarized: 67464181



Sediments and Sedimentary Rock

Lithology: matrix supported limestone breccia

Grains: lithic

Sorting: very poorly sorted

Grading type: no grading

Ave grain size (mm): granule

Max. grain size (mm): granule

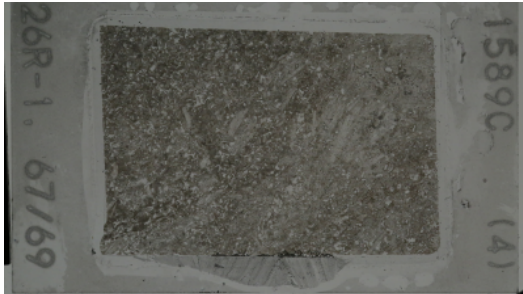
| | | | | | |
|---------------------------|-----------|--------------------------------|------------|--------------------------|---|
| Lithic class: | carbonate | Lithic roundness: | subangular | Lithic abundance: | D |
| Vitric clast type: | | Vitric clast roundness: | | Vitric abundance: | |

| | | | |
|------------------------------|---------------------|----------------------------|--------------------|
| Degree of alteration: | moderate alteration | Alteration feature: | calcite,iron oxide |
|------------------------------|---------------------|----------------------------|--------------------|

THIN SECTION LABEL ID: **398-U1589C-26R-1-W 67/70-TSB-TS 4** Thin section no.: 4
 Observer: Unit/subunit:
 Thin section summary: Fine-grained limestone with some carbonate clasts, some of these showing slight foliation. No fossils.

Plane-polarized: 67464951

Cross-polarized: 67464971



Sediments and Sedimentary Rock

Lithology: limestone

Grains: lithic

Sorting: well sorted

Grading type: no grading

Ave grain size (mm):

Max. grain size (mm):

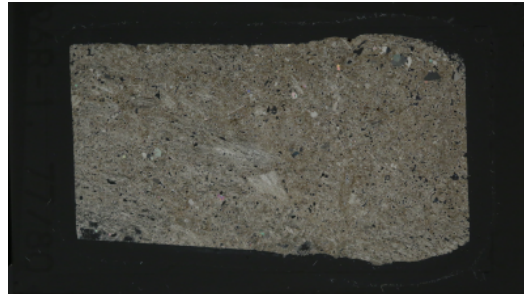
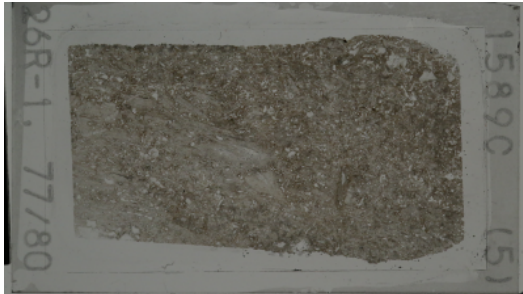
| | | | | | |
|---------------------------|-----------|--------------------------------|---------|--------------------------|---|
| Lithic class: | carbonate | Lithic roundness: | angular | Lithic abundance: | C |
| Vitric clast type: | | Vitric clast roundness: | | Vitric abundance: | |

| | | | |
|------------------------------|-------|----------------------------|--|
| Degree of alteration: | fresh | Alteration feature: | |
|------------------------------|-------|----------------------------|--|

THIN SECTION LABEL ID: **398-U1589C-26R-1-W 77/80-TSB-TS 5** Thin section no.: 5
 Observer: Unit/subunit:
 Thin section summary: Fine-grained limestone with some carbonate clasts, some of these showing slight foliation. No fossils.

Plane-polarized: 67464991

Cross-polarized: 67465011



Sediments and Sedimentary Rock

Lithology: limestone

Grains: lithic

Sorting: well sorted

Grading type: no grading

Ave grain size (mm):

Max. grain size (mm):

| | | | | | |
|---------------------------|-----------|--------------------------------|---------|--------------------------|---|
| Lithic class: | carbonate | Lithic roundness: | angular | Lithic abundance: | C |
| Vitric clast type: | | Vitric clast roundness: | | Vitric abundance: | |

| | | | |
|------------------------------|-------------------|----------------------------|------------|
| Degree of alteration: | slight alteration | Alteration feature: | iron oxide |
|------------------------------|-------------------|----------------------------|------------|