

Sediment Smear Slide / Thin Section Description Sheet

Date 12-23-12

Expedition: 338

Observer: KLM

Site: C002

Hole: L

Core: 1X

Interval: 9

Sediment Name: Sand

| Smear Slide | Thin Section | Coarse Fraction | Grain Mount | Granular Sediment | | Chemical Sediment | | Percent Texture | | |
|-------------|--------------|-----------------|-------------|-------------------|----------------|-------------------|---------|-----------------|------|------|
| | | | | Siliciclastic | Volcaniclastic | Peragic | Neritic | Sand | Silt | Clay |
| ✓ | | | | ✓ | | | | 80 | 10 | 10 |

Select one and check.

Select one and check.

Select one and check.

| Percent | Composition | Percent | Composition | Percent | Composition | Percent | Composition |
|---------|-----------------------------|---------|-------------------------|---------|-------------|---------|--------------------|
| | | | | | | | |
| | Minerals | | Pelagic Grain | | Others | | Gypsiferous Grain |
| | Quartz | 4 | Calcareous Grain | | | | Calcareous Grain |
| | Feldspars | | Nannofossils | | | | Sapropelic Grain |
| | Micas | | Foraminifers | | | | Mn Nodules/ Crusts |
| | Ferromagnesian Minerals | | Siliceous Grain | | | | Pyrite Grain |
| | Glauconite | | Diatom | | | | Opaque Grain |
| 6 | Clay Minerals | | Radiolarians | | | | |
| | Zeolites | | Silicoflagellates | | | | |
| | Heavy Minerals | | Sponge Spicule | | | | |
| | Pyrite | | | | | | |
| | Phospholite | | | | | | |
| | Aragonite | | Neritic Grain | | | | |
| | Calcite | | Ooid | | | | |
| | Oolites | | Spherical Particles | | | | |
| | Lithic Grain | | Elliptical Particles | | | | |
| 5 | Sedimentary Lithic Grain | | Bioclast | | | | |
| | Igneous Lithic Grain | | Molluscan | | | | |
| 30 | Metamorphic Lithic Grain | | Algal | | | | |
| | | | Pellet | | | | |
| | | | Molluscs | | | | |
| | | | Echinoderms | | | | |
| | | | Others | | | | |
| | Volcaniclastic Grain | | Intraclast | | | | |
| | Scoria / Pumice | | Carbonate Rock Fragment | | | | |
| | Scoria | | Peloid | | | | |
| | Pumice | | Pisolite | | | | |
| | Volcaniclastic Lithic Grain | | Calcareous Grain | | | | |
| | Pteritic Lithic Grain | | Dolomitic Grain | | | | |
| | Basaltic Lithic Grain | | Araginitic Grain | | | | |
| | Andesitic Lithic Grain | | Sideritic Grain | | | | |
| | Dacitic Lithic Grain | | | | | | |
| | Rhyolitic Lithic Grain | | | | | | |
| | Crystal Grain | | | | | | |
| | Vitric Grain | | | | | | |

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 12-23-12

Expedition: 338

Observer: KLM

Site: C0002 Hole: L Core: 1X Sect.: 3

Sect.: 3

Interval: 75

Sediment Name: silty claystone

| Smear Slide | Thin Section | Coarse Fraction | Grain Mount |
|-------------|--------------|-----------------|-------------|
| ✓ | | | |

Select one and check.

| Granular Sediment | | Chemical Sediment | |
|-------------------|----------------|-------------------|---------|
| Siiliclastic | Volcaniclastic | Peragic | Neritic |
| ✓ | | | |

Select one and check.

| Percent Texture | |
|-----------------|-----------|
| Sand | Silt Clay |
| | 25 75 |

Select one and check.

| Percent | Composition |
|---------|-----------------------------|
| | Siiliclastic Grain |
| | Minerals |
| | Quartz |
| | Feldspars |
| | Micas |
| | Ferromagnesian Minerals |
| | Glauconite |
| | Clay Minerals |
| | Zeolites |
| | Heavy Minerals |
| | Pyrite |
| | Phospholite |
| | Aragonite |
| | Calcite |
| | Oolites |
| | Lithic Grain |
| | Sedimentary Lithic Grain |
| | Igneous Lithic Grain |
| | Metamorphic Lithic Grain |
| | Volcaniclastic Grain |
| | Scoria / Pumice |
| | Scoria |
| | Pumice |
| | Volcaniclastic Lithic Grain |
| | Picritic Lithic Grain |
| | Basaltic Lithic Grain |
| | Andesitic Lithic Grain |
| | Dacitic Lithic Grain |
| | Rhyolitic Lithic Grain |
| | Crystal Grain |
| | Vitric Grain |
| 3 | |

| Percent | Composition |
|---------|-------------------------|
| | Pelagic Grain |
| | Calcareous Grain |
| 10 | Nannofossils |
| | Foraminifers |
| | Siliceous Grain |
| F | Diatom |
| F | Radiolarians |
| | Silicoflagellates |
| | Sponge Spicules |
| | Neritic Grain |
| | Ooid |
| | Spherical Particles |
| | Elliptical Particles |
| | Bioclast |
| | Molluscan |
| | Algal |
| | Pellet |
| | Molluscs |
| | Echinoderms |
| | Others |
| | Intraclast |
| | Carbonate Rock Fragment |
| | Peloid |
| | Pisolite |
| | Calcareous Grain |
| | Dolomitic Grain |
| | Araginitic Grain |
| | Sideritic Grain |

| Percent | Composition |
|---------|--------------------|
| | Others |
| | Gypsiferous Grain |
| | Calcareous Grain |
| | Sapropelic Grain |
| | Mn Nodules/ Crusts |
| | Pyrite Grain |
| | Opaque Grain |
| 1 | red-brown clay |

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 12-23-12

Expedition: 338

Observer: KUM

Site: C0002 Hole: L Core: 1X Sect.: 3

Interval: 100

Sediment Name: silty claystone

| Smear Slide | Thin Section | Coarse Fraction | Grain Mount |
|-------------|--------------|-----------------|-------------|
| ✓ | | | |

| Granular Sediment | | Chemical Sediment | |
|-------------------|----------------|-------------------|---------|
| Siliciclastic | Volcaniclastic | Peragic | Neritic |
| ✓ | | | |

| Percent Texture | |
|-----------------|-------|
| Sand | Clay |
| | 30 70 |

Select one and check.

Select one and check.

Select one and check.

| Percent | Composition |
|---------|-----------------------------|
| | Siliciclastic Grain |
| | Minerals |
| 27 | Quartz |
| | Feldspars |
| | Micas |
| | Ferromagnesian Minerals |
| | Glaucinite |
| 65 | Clay Minerals |
| | Zeolites |
| | Heavy Minerals |
| | Pyrite |
| | Phospholite |
| | Aragonite |
| | Calcite |
| | Oolites |
| | Lithic Grain |
| | Sedimentary Lithic Grain |
| | Igneous Lithic Grain |
| | Metamorphic Lithic Grain |
| | Volcaniclastic Grain |
| | Scoria / Pumice |
| | Scoria |
| | Pumice |
| | Volcaniclastic Lithic Grain |
| | Picritic Lithic Grain |
| | Basaltic Lithic Grain |
| | Andesitic Lithic Grain |
| | Dacitic Lithic Grain |
| | Rhyolitic Lithic Grain |
| 5 | Crystal Grain |
| | Vitric Grain |

| Percent | Composition |
|---------|-------------------------|
| | Pelagic Grain |
| | Calcareous Grain |
| 3 | Nannofossils |
| | Foraminifers |
| | Siliceous Grain |
| F | Diatom |
| F | Radiolarians |
| | Silicoflagellates |
| 1 | Sponge Spicules |
| | Neritic Grain |
| | Ooid |
| | Spherical Particles |
| | Elliptical Particles |
| | Bioclast |
| | Molluscan |
| | Algal |
| | Pellet |
| | Molluscs |
| | Echinoderms |
| | Others |
| | Intraclast |
| | Carbonate Rock Fragment |
| | Peloid |
| | Pisolite |
| | Calcareous Grain |
| | Dolomitic Grain |
| | Aragonitic Grain |
| | Sideritic Grain |

| Percent | Composition |
|---------|--------------------|
| | Others |
| | Gypsiferous Grain |
| | Calcareous Grain |
| | Sapropelic Grain |
| | Mn Nodules/ Crusts |
| | Pyrite Grain |
| | Opaque Grain |

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 12-23-12

Expedition: 338

Observer: KCM

Site: C0002 Hole: L Core: 3A Sect.: 1

Interval: 10d

Sediment Name: fine ash

| Smear Slide | Thin Section | Coarse Fraction | Grain Mount |
|-------------|--------------|-----------------|-------------|
| ✓ | | | |

Select one and check.

| Granular Sediment | | Chemical Sediment | |
|-------------------|----------------|-------------------|---------|
| Siliciclastic | Volcaniclastic | Peragic | Neritic |
| | ✓ | | |

Select one and check.

| Percent Texture | |
|-----------------|------|
| Sand | Clay |
| 10 | 20 |

Select one and check.

| Percent | Composition |
|---------|-----------------------------|
| | Siliciclastic Grain |
| | Minerals |
| 5 | Quartz |
| | Feldspars |
| | Micas |
| | Ferromagnesian Minerals |
| | Glauconite |
| 17 | Clay Minerals |
| | Zeolites |
| | Heavy Minerals |
| | Pyrite |
| | Phospholite |
| | Aragonite |
| | Calcite |
| | Oolites |
| | Lithic Grain |
| | Sedimentary Lithic Grain |
| | Igneous Lithic Grain |
| | Metamorphic Lithic Grain |
| | Volcaniclastic Grain |
| | Scoria / Pumice |
| | Scoria |
| | Pumice |
| 10 | Volcaniclastic Lithic Grain |
| | Picritic Lithic Grain |
| | Basaltic Lithic Grain |
| | Andesitic Lithic Grain |
| | Dacitic Lithic Grain |
| | Rhyolitic Lithic Grain |
| 75 | Crystal Grain |
| | Vitric Grain |

| Percent | Composition |
|---------|-------------------------|
| | Pelagic Grain |
| | Calcareous Grain |
| 3 | Nannofossils |
| | Foraminifers |
| | Siliceous Grain |
| | Diatom |
| | Radiolarians |
| | Silicoflagellates |
| | Sponge Spicules |
| | Neritic Grain |
| | Ooid |
| | Spherical Particles |
| | Elliptical Particles |
| | Bioclast |
| | Molluscan |
| | Algal |
| | Pellet |
| | Molluscs |
| | Echinoderms |
| | Others |
| | Intraclast |
| | Carbonate Rock Fragment |
| | Peloid |
| | Pisolite |
| | Calcareous Grain |
| | Dolomitic Grain |
| | Araginitic Grain |
| | Sideritic Grain |

| Percent | Composition |
|---------|--------------------|
| | Others |
| | Gypsiferous Grain |
| | Calcareous Grain |
| | Sapropelic Grain |
| | Mn Nodules/ Crusts |
| | Pyrite Grain |
| | Opaque Grain |

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 12-23-12

Expedition: 338

Observer: KLM

Site: 0002 Hole: L Core: 3x Sect.: 3

Interval: 7

Sediment Name: fine ash

| Smear Slide | Thin Section | Coarse Fraction | Grain Mount |
|-------------|--------------|-----------------|-------------|
| ✓ | | | |

| Granular Sediment | | Chemical Sediment | |
|-------------------|----------------|-------------------|---------|
| Siliciclastic | Volcaniclastic | Peragic | Neritic |
| | ✓ | | |

| Percent Texture | |
|-----------------|-----------|
| Sand | Silt Clay |
| 10 | 80 10 |

Select one and check.

Select one and check.

Select one and check.

| Percent | Composition |
|---------|-----------------------------|
| | Siliclastic Grain |
| | Minerals |
| 5 | Quartz |
| | Feldspars |
| | Micas |
| | Ferromagnesian Minerals |
| | Glauconite |
| 7 | Clay Minerals |
| | Zeolites |
| | Heavy Minerals |
| | Pyrite |
| | Phospholite |
| | Aragonite |
| | Calcite |
| | Oolites |
| | Lithic Grain |
| | Sedimentary Lithic Grain |
| | Igneous Lithic Grain |
| | Metamorphic Lithic Grain |
| | Volcaniclastic Grain |
| | Scoria / Pumice |
| | Scoria |
| | Pumice |
| 5 | Volcaniclastic Lithic Grain |
| | Picritic Lithic Grain |
| | Basaltic Lithic Grain |
| | Andesitic Lithic Grain |
| | Dacitic Lithic Grain |
| | Rhyolitic Lithic Grain |
| | Crystal Grain |
| | Vitric Grain |
| 80 | |

| Percent | Composition |
|---------|-------------------------|
| | Pelagic Grain |
| | Calcareous Grain |
| 3 | Nannofossils |
| | Foraminifers |
| | Siliceous Grain |
| | Diatom |
| | Radiolarians |
| | Silicoflagellates |
| | Sponge Spicule |
| | Neritic Grain |
| | Ooid |
| | Spherical Particles |
| | Elliptical Particles |
| | Bioclast |
| | Molluscan |
| | Algal |
| | Pellet |
| | Molluscs |
| | Echinoderms |
| | Others |
| | Intraclast |
| | Carbonate Rock Fragment |
| | Peloid |
| | Pisolite |
| | Calcareous Grain |
| | Dolomitic Grain |
| | Araginitic Grain |
| | Sideritic Grain |

| Percent | Composition |
|---------|--------------------|
| | Others |
| | Gypsiferous Grain |
| | Calcareous Grain |
| | Sapropelic Grain |
| | Mn Nodules/ Crusts |
| | Pyrite Grain |
| | Opaque Grain |

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date: 12-23-12

Expedition: 338

Observer: KUM

Site: C0002 Hole: L

Core: 3X Sect.: 3

Interval: 100

Sediment Name: fine ash / volcaniclastic siltstone

| Smear Slide | Thin Section | Coarse Fraction | Grain Mount |
|-------------|--------------|-----------------|-------------|
| | | | |

| Granular Sediment | | Chemical Sediment | | Percent Texture | |
|-------------------|----------------|-------------------|---------|-----------------|-----------|
| Siliciclastic | Volcaniclastic | Peragic | Neritic | Sand | Silt Clay |
| | | | | 40 | 40 20 |

Select one and check.

Select one and check.

Select one and check.

| Percent | Composition |
|---------|-----------------------------|
| | Siliclastic Grain |
| | Minerals |
| 5 | Quartz |
| | Feldspars |
| | Micas |
| | Ferromagnesian Minerals |
| | Glauconite |
| 15 | Clay Minerals |
| | Zeolites |
| | Heavy Minerals |
| | Pyrite |
| | Phospholite |
| | Aragonite |
| | Calcite |
| | Oolites |
| | Lithic Grain |
| | Sedimentary Lithic Grain |
| | Igneous Lithic Grain |
| | Metamorphic Lithic Grain |
| | Volcaniclastic Grain |
| | Scoria / Pumice |
| | Scoria |
| 10 | Pumice |
| | Volcaniclastic Lithic Grain |
| | Picritic Lithic Grain |
| | Basaltic Lithic Grain |
| | Andesitic Lithic Grain |
| | Dacitic Lithic Grain |
| | Rhyolitic Lithic Grain |
| | Crystal Grain |
| 60 | Vitric Grain |
| | |
| | |

| Percent | Composition | Percent | Composition |
|---------|-------------------------|---------|--------------------|
| | Pelagic Grain | | Others |
| | Calcareous Grain | | Gypsiferous Grain |
| 5 | Nannofossils | | Calcareous Grain |
| | Foraminifers | | Sapropelic Grain |
| | Siliceous Grain | | Mn Nodules/ Crusts |
| | Diatom | | Pyrite Grain |
| | Radiolarians | | Opaque Grain |
| | Silicoflagellates | | |
| | Sponge Spicules | | |
| | | | |
| | Neritic Grain | | |
| | Ooid | | |
| | Spherical Particles | | |
| | Elliptical Particles | | |
| | Bioclast | | |
| | Molluscan | | |
| | Algal | | |
| | Pellet | | |
| | Molluscs | | |
| | Echinoderms | | |
| | Others | | |
| | Intraclast | | |
| | Carbonate Rock Fragment | | |
| | Peloid | | |
| | Pisolite | | |
| | Calcareous Grain | | |
| | Dolomitic Grain | | |
| | Aragonitic Graing | | |
| | Sideritic Graing | | |
| | | | |
| | | | |
| | | | |
| | | | |

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date B-213-12

Expedition: 338

Observer: KLM

Site: 0002 Hole: L Core: 3X Sect.: 4

Interval: 32

Sediment Name: fine ash

| Smear Slide | Thin Section | Coarse Fraction | Grain Mount |
|-------------------------------------|--------------|-----------------|-------------|
| <input checked="" type="checkbox"/> | | | |

| Granular Sediment | | Chemical Sediment | |
|-------------------|-------------------------------------|-------------------|---------|
| Siliciclastic | Volcaniclastic | Peragic | Neritic |
| | <input checked="" type="checkbox"/> | | |

| Percent Texture | |
|-----------------|-----------|
| Sand | Clay |
| <u>30</u> | <u>70</u> |

Select one and check.

Select one and check.

Select one and check.

| Percent | Composition |
|-----------|-----------------------------|
| | Siliclastic Grain |
| | Minerals |
| | Quartz |
| | Feldspars |
| | Micas |
| | Ferromagnesian Minerals |
| | Glauconite |
| | Clay Minerals |
| | Zeolites |
| | Heavy Minerals |
| | Pyrite |
| | Phospholite |
| | Aragonite |
| | Calcite |
| | Oolites |
| | Lithic Grain |
| | Sedimentary Lithic Grain |
| | Igneous Lithic Grain |
| | Metamorphic Lithic Grain |
| | Volcaniclastic Grain |
| | Scoria / Pumice |
| | Scoria |
| | Pumice |
| <u>20</u> | Volcaniclastic Lithic Grain |
| | Picritic Lithic Grain |
| | Basaltic Lithic Grain |
| | Andesitic Lithic Grain |
| | Dacitic Lithic Grain |
| | Rhyolitic Lithic Grain |
| | Crystal Grain |
| | Vitric Grain |
| <u>80</u> | |

| Percent | Composition |
|---------|-------------------------|
| | Pelagic Grain |
| | Calcareous Grain |
| | Nannofossils |
| | Foraminifers |
| | Siliceous Grain |
| | Diatom |
| | Radiolarians |
| | Silicoflagellates |
| | Sponge Spicules |
| | Neritic Grain |
| | Ooid |
| | Spherical Particles |
| | Elliptical Particles |
| | Bioclast |
| | Molluscan |
| | Algal |
| | Pellet |
| | Molluscs |
| | Echinoderms |
| | Others |
| | Intraclast |
| | Carbonate Rock Fragment |
| | Peloid |
| | Pisolite |
| | Calcareous Grain |
| | Dolomitic Grain |
| | Aragonitic Grain |
| | Sideritic Grain |

| Percent | Composition |
|---------|--------------------|
| | Others |
| | Gypsiferous Grain |
| | Calcareous Grain |
| | Sapropelic Grain |
| | Mn Nodules/ Crusts |
| | Pyrite Grain |
| | Opaque Grain |

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 12-23-12

Expedition: 338

Observer: KLM

Site: C0002 Hole: L Core: 3x Sect.: 4

Interval: 60

Sediment Name: silky clay

| Smear Slide | Thin Section | Coarse Fraction | Grain Mount |
|-------------|--------------|-----------------|-------------|
| ✓ | | | |

| Granular Sediment | | Chemical Sediment | |
|-------------------|----------------|-------------------|---------|
| Siliciclastic | Volcaniclastic | Peragic | Neritic |
| ✓ | | | |

| Percent Texture | |
|-----------------|------|
| Sand | Clay |
| - | 70 |

Select one and check.

Select one and check.

Select one and check.

| Percent | Composition |
|---------|-----------------------------|
| | Siliclastic Grain |
| | Minerals |
| 20 | Quartz |
| | Feldspars |
| 1 | Micas |
| | Ferromagnesian Minerals |
| | Glauconite |
| 55 | Clay Minerals |
| | Zeolites |
| | Heavy Minerals |
| | Pyrite |
| | Phospholite |
| | Aragonite |
| | Calcite |
| | Oolites |
| | Lithic Grain |
| | Sedimentary Lithic Grain |
| | Igneous Lithic Grain |
| | Metamorphic Lithic Grain |
| | Volcaniclastic Grain |
| | Scoria / Pumice |
| | Scoria |
| | Pumice |
| | Volcaniclastic Lithic Grain |
| | Picritic Lithic Grain |
| | Basaltic Lithic Grain |
| | Andesitic Lithic Grain |
| | Dacitic Lithic Grain |
| | Rhyolitic Lithic Grain |
| 7 | Crystal Grain |
| | Vitric Grain |

| Percent | Composition |
|---------|-------------------------|
| | Pelagic Grain |
| | Calcareous Grain |
| 10 | Nannofossils |
| | Foraminifers |
| | Siliceous Grain |
| | Diatom |
| | Radiolarians |
| | Silicoflagellates |
| | Sponge Spicule |
| | Neritic Grain |
| | Ooid |
| | Spherical Particles |
| | Elliptical Particles |
| | Bioclast |
| | Molluscan |
| | Algal |
| | Pellet |
| | Molluscs |
| | Echinoderms |
| | Others |
| | Intraclast |
| | Carbonate Rock Fragment |
| | Peloid |
| | Pisolite |
| | Calcareous Grain |
| | Dolomitic Grain |
| | Aragonitic Graing |
| | Sideritic Graing |

| Percent | Composition |
|---------|--------------------|
| | Others |
| | Gypsiferous Grain |
| 2 | Calcareous Grain |
| | Sapropelic Grain |
| | Mn Nodules/ Crusts |
| | Pyrite Grain |
| | Opaque Grain |
| | |
| | |
| R | red-brown OM |

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 12-23-12

Expedition: 338

Observer: KCM

Site: C0002 Hole: L

Core: 4X Sect.: 1

Interval: 4

Sediment Name: Sand

| Smear Slide | Thin Section | Coarse Fraction | Grain Mount | Granular Sediment | | Chemical Sediment | | Percent Texture | | |
|-------------|--------------|-----------------|-------------|-------------------|----------------|-------------------|---------|-----------------|------|------|
| | | | | Siliciclastic | Volcaniclastic | Peragic | Neritic | Sand | Silt | Clay |
| ✓ | | | | ✓ | | | | 85 | 15 | - |

Select one and check.

Select one and check.

Select one and check.

| Percent | Composition | Percent | Composition | Percent | Composition | Percent | Composition |
|---------|-----------------------------|---------|-------------------------|---------|-------------|---------|--------------------|
| | | | | | | | |
| | Siliclastic Grain | | Pelagic Grain | | | | Others |
| | Minerals | | Calcareous Grain | | | | Gypsiferous Grain |
| 40 | Quartz | | Nannofossils | | | | Calcareous Grain |
| | Feldspars | 10 | Foraminifers | | | | Sapropelic Grain |
| | Micas | | Siliceous Grain | | | | Mn Nodules/ Crusts |
| | Ferromagnesian Minerals | | Diatom | | | 15 | Pyrite Grain |
| | Glauconite | | Radiolarians | | | | Opaque Grain |
| | Clay Minerals | | Silicoflagellates | | | | |
| | Zeolites | | Sponge Spicules | | | | |
| | Heavy Minerals | | | | | | |
| | Pyrite | | Neritic Grain | | | | |
| | Phospholite | | Ooid | | | | |
| | Aragonite | | Spherical Particles | | | | |
| | Calcite | | Elliptical Particles | | | | |
| | Oolites | | Bioclast | | | | |
| 5 | Lithic Grain | | Molluscan | | | | |
| | Sedimentary Lithic Grain | | Algal | | | | |
| 30 | Igneous Lithic Grain | | Pellet | | | | |
| | Metamorphic Lithic Grain | | Molluscs | | | | |
| | | | Echinoderms | | | | |
| | | | Others | | | | |
| | Volcaniclastic Grain | | Intraclast | | | | |
| | Scoria / Pumice | | Carbonate Rock Fragment | | | | |
| | Scoria | | Peloid | | | | |
| | Pumice | | Pisolite | | | | |
| | Volcaniclastic Lithic Grain | | Calcareous Grain | | | | |
| | Picritic Lithic Grain | | Dolomitic Grain | | | | |
| | Basaltic Lithic Grain | | Araginitic Graing | | | | |
| | Andesitic Lithic Grain | | Sideritic Graing | | | | |
| | Dacitic Lithic Grain | | | | | | |
| | Rhyolitic Lithic Grain | | | | | | |
| | Crystal Grain | | | | | | |
| | Vitric Grain | | | | | | |

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 12-23-12

Expedition: 338

Observer: KCM

Site: C0002 Hole: L

Core: 4X Sect.: 1

Interval: 16

Sediment Name: silty clay

| Smear Slide | Thin Section | Coarse Fraction | Grain Mount | Granular Sediment | | Chemical Sediment | | Percent Texture | |
|-------------|--------------|-----------------|-------------|-------------------|----------------|-------------------|---------|-----------------|------|
| | | | | Siliciclastic | Volcaniclastic | Peragic | Neritic | Sand | Silt |
| ✓ | | | | ✓ | | | | 25 | 75 |

Select one and check.

Select one and check.

Select one and check.

| Percent | Composition | | Percent | Composition | | Percent | Composition | |
|---------|---------------------|-----------------------------|---------|---------------|-------------------------|---------|-------------|-------------------|
| | Siliciclastic Grain | Minerals | | Pelegic Grain | Calcareous Grain | | Others | Gypsiferous Grain |
| 50 | | Quartz | 20 | | Nannofossils | | | |
| | | Feldspars | | | Foraminifers | | | |
| | | Micas | | | Siliceous Grain | | | |
| | | Ferromagnesian Minerals | 4 | | Diatom | | | |
| | | Glaucanite | F | | Radiolarians | | | |
| 50 | | Clay Minerals | F | | Silicoflagellates | | | |
| | | Zeolites | | | Sponge Spicules | | | |
| | | Heavy Minerals | | | | | | |
| | | Pyrite | | | Neritic Grain | | | |
| | | Phospholite | | | Ooid | | | |
| | | Aragonite | | | Spherical Particles | | | |
| | | Calcite | | | Elliptical Particles | | | |
| | | Oolites | | | Bioclast | | | |
| | | Lithic Grain | | | Molluscan | | | |
| | | Sedimentary Lithic Grain | | | Algal | | | |
| | | Igneous Lithic Grain | | | Pellet | | | |
| | | Metamorphic Lithic Grain | | | Molluscs | | | |
| | | | | | Echinoderms | | | |
| | | | | | Others | | | |
| | | Volcaniclastic Grain | | | Intraclast | | | |
| | | Scoria / Pumice | | | Carbonate Rock Fragment | | | |
| | | Scoria | | | Peloid | | | |
| | | Pumice | | | Pisolite | | | |
| | | Volcaniclastic Lithic Grain | | | Calcareous Grain | | | |
| | | Pieritic Lithic Grain | | | Dolomitic Grain | | | |
| | | Basaltic Lithic Grain | | | Araginitic Grain | | | |
| | | Andesitic Lithic Grain | | | Sideritic Grain | | | |
| | | Dacitic Lithic Grain | | | | | | |
| | | Rhyolitic Lithic Grain | | | | | | |
| | | Crystal Grain | | | | | | |
| | | Vitric Grain | | | | | | |

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 12-23-12

Expedition: 338

Observer: KCM

Site: C0002 Hole: L

Core: 4X

Sec.: 3

Interval: 90

Sediment Name: silty clay

| Smear Slide | Thin Section | Coarse Fraction | Grain Mount | Granular Sediment | | Chemical Sediment | | Percent Texture | |
|-------------|--------------|-----------------|-------------|-------------------|----------------|-------------------|---------|-----------------|------|
| | | | | Siliciclastic | Volcaniclastic | Peragic | Neritic | Sand | Silt |
| ✓ | | | | ✓ | | | | 20 | 80 |

Select one and check.

Select one and check.

Select one and check.

| Percent | Composition | Percent | Composition | Percent | Composition | Percent | Composition |
|---------|-----------------------------|---------|-------------------------|---------|--------------------|---------|-------------|
| | | | | | | | |
| | Siliclastic Grain | | Pelagic Grain | | Others | | Composition |
| | Minerals | | Calcareous Grain | | Gypsiferous Grain | | |
| 22 | Quartz | 10 | Nannofossils | | Calcareous Grain | | |
| | Feldspars | | Foraminifers | | Sapropelic Grain | | |
| | Micas | | Siliceous Grain | | Mn Nodules/ Crusts | | |
| | Ferromagnesian Minerals | 3 | Diatom | | Pyrite Grain | | |
| | Glaucanite | F | Radiolarians | | Opaque Grain | | |
| 65 | Clay Minerals | F | Silicoflagellates | | | | |
| | Zeolites | | Sponge Spicule | | | | |
| | Heavy Minerals | | | | | | |
| | Pyrite | | Neritic Grain | | | | |
| | Phospholite | | Ooid | | | | |
| | Aragonite | | Spherical Particles | | | | |
| | Calcite | | Elliptical Particles | | | | |
| | Oolites | | Bioclast | | | | |
| | Lithic Grain | | Molluscan | | | | |
| | Sedimentary Lithic Grain | | Algal | | | | |
| | Igneous Lithic Grain | | Pellet | | | | |
| | Metamorphic Lithic Grain | | Molluscs | | | | |
| | | | Echinoderms | | | | |
| | Volcaniclastic Grain | | Others | | | | |
| | Scoria / Pumice | | Intraclast | | | | |
| | Scoria | | Carbonate Rock Fragment | | | | |
| | Pumice | | Peloid | | | | |
| | Volcaniclastic Lithic Grain | | Pisolite | | | | |
| | Picritic Lithic Grain | | Calcareous Grain | | | | |
| | Basaltic Lithic Grain | | Dolomitic Grain | | | | |
| | Andesitic Lithic Grain | | Araginitic Grain | | | | |
| | Dacitic Lithic Grain | | Sideritic Grain | | | | |
| | Rhyolitic Lithic Grain | | | | | | |
| | Crystal Grain | | | | | | |
| | Vitric Grain | | | | | | |

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 12-23-12

Expedition: 338

Observer: RLM

Site: 0002 Hole: L

Core: 4X Sect.: 4

Interval: 100

Sediment Name: silty clay

| Smear Slide | Thin Section | Coarse Fraction | Grain Mount | Granular Sediment | | Chemical Sediment | | Percent Texture | |
|-------------|--------------|-----------------|-------------|-------------------|----------------|-------------------|---------|-----------------|------|
| | | | | Siliciclastic | Volcaniclastic | Siliciclastic | Peragic | Sand | Silt |
| ✓ | | | | ✓ | | | | 30 | 70 |

Select one and check.

Select one and check.

Select one and check.

| Percent | | Composition | | Percent | | Composition | | Percent | | Composition | |
|---------|--|-----------------------------|--|-------------------------|----|--------------------|--|---------|--|-------------|--|
| | | Siliciclastic Grain | | Pelagic Grain | | Others | | | | | |
| | | Minerals | | Calcareous Grain | | Gypsiferous Grain | | | | | |
| 25 | | Quartz | | Nannofossils | 10 | Calcareous Grain | | | | | |
| | | Feldspars | | Foraminifers | | Sapropelic Grain | | | | | |
| | | Micas | | Siliceous Grain | | Mn Nodules/ Crusts | | | | | |
| | | Ferromagnesian Minerals | | Diatom | 5 | Pyrite Grain | | | | | |
| | | Glauconite | | Radiolarians | 2 | Opaque Grain | | | | | |
| 55 | | Clay Minerals | | Sillicoflagellates | 75 | | | | | | |
| | | Zeolites | | Sponge Spicule | 2 | | | | | | |
| | | Heavy Minerals | | | | | | | | | |
| | | Pyrite | | Neritic Grain | | | | | | | |
| | | Phospholite | | Ooid | | | | | | | |
| | | Aragonite | | Spherical Particles | | | | | | | |
| | | Calcite | | Elliptical Particles | | | | | | | |
| | | Oolites | | Bioclast | | | | | | | |
| | | Lithic Grain | | Molluscan | | | | | | | |
| | | Sedimentary Lithic Grain | | Algal | | | | | | | |
| | | Igneous Lithic Grain | | Pellet | | | | | | | |
| | | Metamorphic Lithic Grain | | Molluscs | | | | | | | |
| | | | | Echinoderms | | | | | | | |
| | | | | Others | | | | | | | |
| | | Volcaniclastic Grain | | Intraclast | | | | | | | |
| | | Scoria / Pumice | | Carbonate Rock Fragment | | | | | | | |
| | | Scoria | | Peloid | | | | | | | |
| | | Pumice | | Pisolite | | | | | | | |
| | | Volcaniclastic Lithic Grain | | Calcareous Grain | | | | | | | |
| | | Picritic Lithic Grain | | Dolomitic Grain | | | | | | | |
| | | Basaltic Lithic Grain | | Araginitic Grain | | | | | | | |
| | | Andesitic Lithic Grain | | Sideritic Grain | | | | | | | |
| | | Dacitic Lithic Grain | | | | | | | | | |
| | | Rhyolitic Lithic Grain | | | | | | | | | |
| | | Crystal Grain | | | | | | | | | |
| | | Vitric Grain | | | | | | | | | |

Fill percentage (Total must be 100).

Remarks: distinctly harder clay begins @ top of this section

Sediment Smear Slide / Thin Section Description Sheet

Date 12-23-12

Expedition: 338

Observer: KLM

Site: C0002 Hole: L

Core: 4X Sect: 6

Interval: 50

Sediment Name: _____

| | | | |
|-------------------------------------|--------------|-----------------|-------------|
| Smear Slide | Thin Section | Coarse Fraction | Grain Mount |
| <input checked="" type="checkbox"/> | | | |

| Granular Sediment | | Chemical Sediment | |
|-------------------------------------|----------------|-------------------|---------|
| Siliciclastic | Volcaniclastic | Peragic | Neritic |
| <input checked="" type="checkbox"/> | | | |

| Percent Texture | |
|-----------------|---------------------|
| Sand | Silt Clay |
| | <u>30</u> <u>70</u> |

Select one and check.

Select one and check.

Select one and check.

| Percent | Composition |
|-----------|-----------------------------|
| | Siliclastic Grain |
| | Minerals |
| <u>20</u> | Quartz |
| | Feldspars |
| <u>6</u> | Micas |
| | Ferromagnesian Minerals |
| | Glaucanite |
| <u>55</u> | Clay Minerals |
| | Zeolites |
| | Heavy Minerals |
| | Pyrite |
| | Phospholite |
| | Aragonite |
| | Calcite |
| | Oolites |
| | Lithic Grain |
| | Sedimentary Lithic Grain |
| | Igneous Lithic Grain |
| | Metamorphic Lithic Grain |
| | Volcaniclastic Grain |
| | Scoria / Pumice |
| | Scoria |
| | Pumice |
| | Volcaniclastic Lithic Grain |
| | Picritic Lithic Grain |
| | Basaltic Lithic Grain |
| | Andesitic Lithic Grain |
| | Dacitic Lithic Grain |
| | Rhyolitic Lithic Grain |
| | Crystal Grain |
| | Vitric Grain |

| Percent | Composition |
|-----------|-------------------------|
| | Pelagic Grain |
| | Calcareous Grain |
| <u>10</u> | Nannofossils |
| | Foraminifers |
| | Siliceous Grain |
| <u>50</u> | Diatom |
| <u>3</u> | Radiolarians |
| | Silicoflagellates |
| | Sponge Spicules |
| | Neritic Grain |
| | Ooid |
| | Spherical Particles |
| | Elliptical Particles |
| | Bioclast |
| | Molluscan |
| | Algal |
| | Pellet |
| | Molluscs |
| | Echinoderms |
| | Others |
| | Intraclast |
| | Carbonate Rock Fragment |
| | Peloid |
| | Pisolite |
| | Calcareous Grain |
| | Dolomitic Grain |
| | Araginitic Grain |
| | Sideritic Grain |

| Percent | Composition |
|----------|---------------------|
| | Others |
| | Gypsiferous Grain |
| | Calcareous Grain |
| | Sapropelic Grain |
| | Mn Nodules/ Crusts |
| | Pyrite Grain |
| | Opaque Grain |
| <u>F</u> | <u>red-brown OM</u> |

Fill percentage (Total must be 100).

Remarks: _____

Sediment Smear Slide / Thin Section Description Sheet

Date 12-23-12

Expedition: 338

Observer: KLM

Site: C0002

Core: 4X

Sept.: CC

Interval: 30

Sediment Name: Sand

| Smear Slide | Thin Section | Coarse Fraction | Grain Mount | Granular Sediment | | Chemical Sediment | | Percent/Texture | | |
|-------------|--------------|-----------------|-------------|-------------------|----------------|-------------------|---------|-----------------|------|------|
| | | | | Siliciclastic | Volcaniclastic | Peragic | Neritic | Sand | Silt | Clay |
| ✓ | | | | ✓ | | | | 100 | | |

Select one and check.

Select one and check.

Select one and check.

| Percent | Composition | Percent | Composition | Percent | Composition | Percent | Composition |
|---------|-----------------------------|---------|-------------------------|---------|-------------|---------|--------------------|
| | | | | | | | |
| | Siliciclastic Grain | | Pelagic Grain | | | | Others |
| | Minerals | | Calcareous Grain | | | | Gypsiferous Grain |
| | Quartz | | Nannofossils | | | | Calcareous Grain |
| | Feldspars | 5 | Foraminifers | | | | Sapropelic Grain |
| 100 | Micas | | Siliceous Grain | | | | Mn Nodules/ Crusts |
| | Ferromagnesian Minerals | | Diatom | | | | Pyrite Grain |
| | Glauconite | | Radiolarians | | 20 | | Opaque Grain |
| | Clay Minerals | | Silicoflagellates | | | | |
| | Zeolites | | Sponge Spicule | | | | |
| | Heavy Minerals | | | | | | |
| | Pyrite | | Neritic Grain | | | | |
| | Phospholite | | Ooid | | | | |
| | Aragonite | | Spherical Particles | | | | |
| | Calcite | | Elliptical Particles | | | | |
| | Oolites | | Bioclast | | | | |
| 5 | Lithic Grain | | Molluscan | | | | |
| | Sedimentary Lithic Grain | | Algal | | | | |
| | Igneous Lithic Grain | | Pellet | | | | |
| 25 | Metamorphic Lithic Grain | | Molluscs | | | | |
| | | | Echinoderms | | | | |
| | Volcaniclastic Grain | | Others | | | | |
| | Scoria / Pumice | | Intraclast | | | | |
| | Scoria | | Carbonate Rock Fragment | | | | |
| | Pumice | | Peloid | | | | |
| | Volcaniclastic Lithic Grain | | Pisolite | | | | |
| | Picritic Lithic Grain | | Calcareous Grain | | | | |
| | Basaltic Lithic Grain | | Dolomitic Grain | | | | |
| | Andesitic Lithic Grain | | Araginitic Grain | | | | |
| | Dacitic Lithic Grain | | Sideritic Grain | | | | |
| | Rhyolitic Lithic Grain | | | | | | |
| | Crystal Grain | | | | | | |
| 5 | Vitric Grain | | | | | | |

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 12-24-12

Expedition: 338

Observer: KLM

Site: C0002 Hole: L Core: 5X Sect.: 1

Interval: 30

Sediment Name: silt/clay

| Smear Slide | Thin Section | Coarse Fraction | Grain Mount |
|-------------|--------------|-----------------|-------------|
| ✓ | | | |

Select one and check.

| Granular Sediment | | Chemical Sediment | |
|-------------------|----------------|-------------------|---------|
| Siliciclastic | Volcaniclastic | Peragic | Neritic |
| ✓ | | | |

Select one and check.

| Percent Texture | |
|-----------------|-----------|
| Sand | Silt Clay |
| | 25 75 |

Select one and check.

| Percent | Composition |
|---------|-----------------------------|
| | Siliclastic Grain |
| | Minerals |
| | Quartz |
| | Feldspars |
| | Micas |
| | Ferromagnesian Minerals |
| | Glauconite |
| 65 | Clay Minerals |
| | Zeolites |
| | Heavy Minerals |
| | Pyrite |
| | Phospholite |
| | Aragonite |
| | Calcite |
| | Oolites |
| | Lithic Grain |
| | Sedimentary Lithic Grain |
| | Igneous Lithic Grain |
| | Metamorphic Lithic Grain |
| | Volcaniclastic Grain |
| | Scoria / Pumice |
| | Scoria |
| | Pumice |
| | Volcaniclastic Lithic Grain |
| | Picritic Lithic Grain |
| | Basaltic Lithic Grain |
| | Andesitic Lithic Grain |
| | Dacitic Lithic Grain |
| | Rhyolitic Lithic Grain |
| | Crystal Grain |
| | Vitric Grain |

| Percent | Composition |
|---------|-------------------------|
| | Pelagic Grain |
| | Calcareous Grain |
| 3 | Nannofossils |
| | Foraminifers |
| | Siliceous Grain |
| | Diatom |
| | Radiolarians |
| | Silicoflagellates |
| | Sponge Spicules |
| | Neritic Grain |
| | Ooid |
| | Spherical Particles |
| | Elliptical Particles |
| | Bioclast |
| | Molluscan |
| | Algal |
| | Pellet |
| | Molluscs |
| | Echinoderms |
| | Others |
| | Intraclast |
| | Carbonate Rock Fragment |
| | Peloid |
| | Pisolite |
| | Calcareous Grain |
| | Dolomitic Grain |
| | Aragonitic Grain |
| | Sideritic Grain |

| Percent | Composition |
|---------|--------------------|
| | Others |
| | Gypsiferous Grain |
| | Calcareous Grain |
| 1 | Sapropelic Grain |
| | Mn Nodules/ Crusts |
| F | Pyrite Grain |
| | Opaque Grain |
| | red-brown OM |

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Expedition: 338 Date: 12-24-12

Observer: KLM

Site: C0002 Hole: L Core: 5X Sect.: 4 Interval: 20

Sediment Name: silty clay

| Smear Slide | Thin Section | Coarse Fraction | Grain Mount | Granular Sediment | | Chemical Sediment | | Percent Texture | |
|-------------|--------------|-----------------|-------------|-------------------|----------------|-------------------|---------|-----------------|------|
| | | | | Siliciclastic | Volcaniclastic | Peragic | Neritic | Sand | Silt |
| ✓ | | | | ✓ | | | | 30 | 70 |

Select one and check.

Select one and check.

Select one and check.

| Percent | | Composition | | Percent | | Composition | |
|---------|-----------------------------|-------------|-------------------------|---------|--------------------|-------------|--|
| | Siliciclastic Grain | | | | Others | | |
| | Minerals | | | | Gypsiferous Grain | | |
| 36 | Quartz | | Calcareous Grain | 1 | Calcareous Grain | | |
| | Feldspars | | Nannofossils | | Sapropelic Grain | | |
| | Micas | | Foraminifers | | Mn Nodules/ Crusts | | |
| | Ferromagnesian Minerals | | Siliceous Grain | 4 | Pyrite Grain | | |
| | Glaucanite | | Diatom | | Opaque Grain | | |
| 65 | Clay Minerals | | Radiolarians | | | | |
| | Zeolites | | Silicoflagellates | | | | |
| | Heavy Minerals | | Sponge Spicules | 1 | | | |
| | Pyrite | | | | | | |
| | Phospholite | | | | | | |
| | Aragonite | | Neritic Grain | | | | |
| | Calcite | | Ooid | | | | |
| | Oolites | | Spherical Particles | | | | |
| | Lithic Grain | | Elliptical Particles | | | | |
| | Sedimentary Lithic Grain | | Bioclast | | | | |
| | Igneous Lithic Grain | | Molluscan | | | | |
| | Metamorphic Lithic Grain | | Algal | | | | |
| | | | Pellet | | | | |
| | | | Molluscs | | | | |
| | | | Echinoderms | | | | |
| | | | Others | | | | |
| | Volcaniclastic Grain | | Intraclast | | | | |
| | Scoria / Pumice | | Carbonate Rock Fragment | | | | |
| | Scoria | | Peloid | | | | |
| | Pumice | | Pisolite | | | | |
| | Volcaniclastic Lithic Grain | | Calcareous Grain | | | | |
| | Picritic Lithic Grain | | Dolomitic Grain | | | | |
| | Basaltic Lithic Grain | | Araginitic Graing | | | | |
| | Andesitic Lithic Grain | | Sideritic Graing | | | | |
| | Dacitic Lithic Grain | | | | | | |
| | Rholitic Lithic Grain | | | | | | |
| | Crystal Grain | | | | | | |
| 1 | Vitric Grain | | | | | | |

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 12-24-12

Expedition: 338

Observer: KLM

Site: L 5X

Core: 5X

Sect.: 6

Interval: 50

Sediment Name: Sand

| Smear Slide | Thin Section | Coarse Fraction | Grain Mount | Granular Sediment | | Chemical Sediment | | Percent Texture | | |
|-------------|--------------|-----------------|-------------|-------------------|----------------|-------------------|---------|-----------------|------|------|
| | | | | Siliclastic | Volcaniclastic | Peragic | Neritic | Sand | Silt | Clay |
| 1 | | | | ✓ | | | | 90 | 10 | |

Select one and check.

Select one and check.

Select one and check.

| Percent | Composition | | Percent | Composition | | Percent | Composition | |
|---------|-----------------------------|--------------|---------|-------------------------|----------------|---------|-------------------|--------|
| | Minerals | Lithic Grain | | Others | Volcaniclastic | | Chemical Sediment | Others |
| | | | | | | | | |
| 65 | Quartz | | | Calcareous Grain | | | | |
| | Feldspars | | | Nannofossils | | | | |
| | Micas | | 1 | Foraminifers | | | | |
| | Ferromagnesian Minerals | | | Siliceous Grain | | | | |
| | Glauconite | | | Diatom | | | | |
| | Clay Minerals | | | Radiolarians | | | | |
| | Zeolites | | | Silicoflagellates | | 10 | | |
| 1 | Heavy Minerals | | | Sponge Spicules | | | | |
| | Pyrite | | | | | | | |
| | Phospholite | | | | | | | |
| | Aragonite | | | Neritic Grain | | | | |
| | Calcite | | | Ooid | | | | |
| | Oolites | | | Spherical Particles | | | | |
| | Lithic Grain | | | Elliptical Particles | | | | |
| | Sedimentary Lithic Grain | | | Bioclast | | | | |
| | Igneous Lithic Grain | | | Molluscan | | | | |
| 20 | Metamorphic Lithic Grain | | | Algal | | | | |
| | | | | Pellet | | | | |
| | | | | Molluscs | | | | |
| | | | | Echinoderms | | | | |
| | | | | Others | | | | |
| | Volcaniclastic Grain | | | Intraclast | | | | |
| | Scoria / Pumice | | | Carbonate Rock Fragment | | | | |
| | Scoria | | | Peloid | | | | |
| | Pumice | | | Pisolite | | | | |
| | Volcaniclastic Lithic Grain | | | Calcareous Grain | | | | |
| | Picritic Lithic Grain | | | Dolomitic Grain | | | | |
| | Basaltic Lithic Grain | | | Araginitic Graing | | | | |
| | Andesitic Lithic Grain | | | Sideritic Graing | | | | |
| | Dacitic Lithic Grain | | | | | | | |
| | Rhyolitic Lithic Grain | | | | | | | |
| 3 | Crystal Grain | | | | | | | |
| | Vitric Grain | | | | | | | |

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 12-24-12

Expedition: 338

Observer: KUM

Site: C0002 Hole: L Core: 5x Sect.: 8

Interval: 40

Sediment Name: silty clay

| Smear Slide | Thin Section | Coarse Fraction | Grain Mount | Granular Sediment | | Chemical Sediment | | Percent Texture | |
|-------------|--------------|-----------------|-------------|-------------------|----------------|-------------------|---------|-----------------|------|
| | | | | Siliciclastic | Volcaniclastic | Volcaniclastic | Peragic | Sand | Silt |
| ✓ | | | | ✓ | | | | 25 | 75 |

Select one and check.

Select one and check.

Select one and check.

| Percent | Composition | | Percent | Composition | | Percent | Composition | |
|---------|-----------------------------|----------|---------|-------------------------|------------------|---------|--------------------|--------|
| | Siliclastic Grain | Minerals | | Pelagic Grain | Calcareous Grain | | Others | Others |
| 30 | Quartz | | 5 | Calcareous Grain | | | Gypsiferous Grain | |
| | Feldspars | | | Nannofossils | | | Calcareous Grain | |
| | Micas | | | Foraminifers | | | Sapropelic Grain | |
| | Ferromagnesian Minerals | | | Siliceous Grain | | | Mn Nodules/ Crusts | |
| | Glauconite | | | Diatom | | | Pyrite Grain | |
| 65 | Clay Minerals | | | Radiolarians | | | Opaque Grain | |
| | Zeolites | | | Silicoflagellates | | | | |
| | Heavy Minerals | | | Sponge Spicules | | | | |
| | Pyrite | | | | | | | |
| | Phospholite | | | | | | | |
| | Aragonite | | | Neritic Grain | | | | |
| | Calcite | | | Ooid | | | | |
| | Oolites | | | Spherical Particles | | | | |
| | Lithic Grain | | | Elliptical Particles | | | | |
| | Sedimentary Lithic Grain | | | Bioclast | | | | |
| | Igneous Lithic Grain | | | Molluscan | | | | |
| | Metamorphic Lithic Grain | | | Algal | | | | |
| | | | | Pellet | | | | |
| | | | | Molluscs | | | | |
| | | | | Echinoderms | | | | |
| | | | | Others | | | | |
| | Volcaniclastic Grain | | | Intraclast | | | | |
| | Scoria / Pumice | | | Carbonate Rock Fragment | | | | |
| | Scoria | | | Peloid | | | | |
| | Pumice | | | Pisolite | | | | |
| | Volcaniclastic Lithic Grain | | | Calcareous Grain | | | | |
| | Picritic Lithic Grain | | | Dolomitic Grain | | | | |
| | Basaltic Lithic Grain | | | Araginitic Graing | | | | |
| | Andesitic Lithic Grain | | | Sideritic Graing | | | | |
| | Dacitic Lithic Grain | | | | | | | |
| | Rhyolitic Lithic Grain | | | | | | | |
| | Crystal Grain | | | | | | | |
| | Vitric Grain | | | | | | | |

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 12-24-12

Expedition: 338

Observer: KLM

Site: C0002 Hole: L Core: 6x Sect.: 1

Interval: 15

Sediment Name: Silty claystone

| Smear Slide | Thin Section | Coarse Fraction | Grain Mount |
|-------------------------------------|--------------|-----------------|-------------|
| <input checked="" type="checkbox"/> | | | |

| Granular Sediment | | Chemical Sediment | |
|-------------------------------------|----------------|-------------------|---------|
| Siiclastic | Volcaniclastic | Peragic | Neritic |
| <input checked="" type="checkbox"/> | | | |

| Percent Texture | |
|-----------------|--------------|
| Sand | Silt Clay |
| | <u>20 80</u> |

Select one and check.

Select one and check.

Select one and check.

| Percent | Composition |
|---------|-----------------------------|
| | Siiclastic Grain |
| | Minerals |
| | Quartz |
| | Feldspars |
| | Micas |
| | Ferromagnesian Minerals |
| | Glauconite |
| | Clay Minerals |
| | Zeolites |
| | Heavy Minerals |
| | Pyrite |
| | Phospholite |
| | Aragonite |
| | Calcite |
| | Oolites |
| | Lithic Grain |
| | Sedimentary Lithic Grain |
| | Igneous Lithic Grain |
| | Metamorphic Lithic Grain |
| | Volcaniclastic Grain |
| | Scoria / Pumice |
| | Scoria |
| | Pumice |
| | Volcaniclastic Lithic Grain |
| | Picritic Lithic Grain |
| | Basaltic Lithic Grain |
| | Andesitic Lithic Grain |
| | Dacitic Lithic Grain |
| | Rhyolitic Lithic Grain |
| | Crystal Grain |
| | Vitric Grain |

| Percent | Composition |
|---------|-------------------------|
| | Pelagic Grain |
| | Calcareous Grain |
| | Nannofossils |
| | Foraminifers |
| | Siliceous Grain |
| | Diatom |
| | Radiolarians |
| | Silicoflagellates |
| | Sponge Spicules |
| | Neritic Grain |
| | Ooid |
| | Spherical Particles |
| | Elliptical Particles |
| | Bioclast |
| | Molluscan |
| | Algal |
| | Pellet |
| | Molluscs |
| | Echinoderms |
| | Others |
| | Intraclast |
| | Carbonate Rock Fragment |
| | Peloid |
| | Pisolite |
| | Calcareous Grain |
| | Dolomitic Grain |
| | Araginitic Graing |
| | Sideritic Graing |

| Percent | Composition |
|---------|-----------------------|
| | Others |
| | Gypsiferous Grain |
| | Calcareous Grain |
| | Sapropelic Grain |
| | Mn Nodules/ Crusts |
| | Pyrite Grain |
| | Opaque Grain |
| | <u>red-brown O.M.</u> |

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 2-

Expedition: 338

Observer: KLM

Site: C0002 Hole: L

Core: 6X Sect.: 5

Interval: 16

Sediment Name: Sand

| Smear Slide | Thin Section | Coarse Fraction | Grain Mount | Granular Sediment | | Chemical Sediment | | Percent Texture | | |
|-------------|--------------|-----------------|-------------|-------------------|----------------|-------------------|---------|-----------------|------|------|
| | | | | Siliciclastic | Volcaniclastic | Peragic | Neritic | Sand | Silt | Clay |
| | | | | | | | | 90 | 10 | |

Select one and check.

Select one and check.

Select one and check.

| Percent | Composition | Percent | Composition | Percent | Composition | Percent | Composition |
|---------|-----------------------------|---------|-------------------------|---------|-------------|---------|-------------|
| | | | | | | | |
| 63 | Quartz | | Calcareous Grain | | | | |
| | Feldspars | | Nannofossils | | | | |
| | Micas | | Foraminifers | | | | |
| | Ferromagnesian Minerals | | Siliceous Grain | | | | |
| | Glaucanite | | Diatom | | | | |
| | Clay Minerals | | Radiolarians | | | | |
| | Zeolites | | Silicoflagellates | | | | |
| | Heavy Minerals | | Sponge Spicules | | | | |
| | Pyrite | | | | | | |
| | Phospholite | | | | | | |
| | Aragonite | | Neritic Grain | | | | |
| | Calcite | | Ooid | | | | |
| | Oolites | | Spherical Particles | | | | |
| | Lithic Grain | | Elliptical Particles | | | | |
| 5 | Sedimentary Lithic Grain | | Bioclast | | | | |
| | Igneous Lithic Grain | | Molluscan | | | | |
| 25 | Metamorphic Lithic Grain | | Algal | | | | |
| | | | Pellet | | | | |
| | | | Molluscs | | | | |
| | | | Echinoderms | | | | |
| | | | Others | | | | |
| | Volcaniclastic Grain | | Intraclast | | | | |
| | Scoria / Pumice | | Carbonate Rock Fragment | | | | |
| | Scoria | | Peloid | | | | |
| | Pumice | | Pisolite | | | | |
| | Volcaniclastic Lithic Grain | | Calcareous Grain | | | | |
| | Picritic Lithic Grain | | Dolomitic Grain | | | | |
| | Basaltic Lithic Grain | | Araginitic Graing | | | | |
| | Andesitic Lithic Grain | | Sideritic Graing | | | | |
| | Dacitic Lithic Grain | | | | | | |
| | Rhyolitic Lithic Grain | | | | | | |
| | Crystal Grain | | | | | | |
| | Vitric Grain | | | | | | |

Fill percentage (Total must be 100).

Remarks: Rare microlitic class

Sediment Smear Slide / Thin Section Description Sheet

Date 12-24-12

Expedition: 838

Observer: KLM

Site: C0002 Hole: L

Core: 6A Sect.: 5

Interval: 115

Sediment Name: silty clay

| Smear Slide | Thin Section | Coarse Fraction | Grain Mount |
|-------------|--------------|-----------------|-------------|
| ✓ | | | |

| Granular Sediment | | Chemical Sediment | |
|-------------------|----------------|-------------------|---------|
| Siliciclastic | Volcaniclastic | Peragic | Neritic |
| ✓ | | | |

| Percent Texture | | Percent Texture |
|-----------------|------|-----------------|
| Sand | Silt | |
| | 25 | 75 |

Select one and check.

Select one and check.

Select one and check.

| Percent | Composition |
|---------|-----------------------------|
| | Siliciclastic Grain |
| | Minerals |
| 21 | Quartz |
| | Feldspars |
| | Micas |
| | Ferromagnesian Minerals |
| | Glaucanite |
| 65 | Clay Minerals |
| | Zeolites |
| | Heavy Minerals |
| | Pyrite |
| | Phospholite |
| | Aragonite |
| | Calcite |
| | Oolites |
| | Lithic Grain |
| | Sedimentary Lithic Grain |
| | Igneous Lithic Grain |
| | Metamorphic Lithic Grain |
| | Volcaniclastic Grain |
| | Scoria / Pumice |
| | Scoria |
| | Pumice |
| | Volcaniclastic Lithic Grain |
| | Picroitic Lithic Grain |
| | Basaltic Lithic Grain |
| | Andesitic Lithic Grain |
| | Dacitic Lithic Grain |
| | Rhyolitic Lithic Grain |
| | Crystal Grain |
| | Vitric Grain |

| Percent | Composition |
|---------|-------------------------|
| | Pelagic Grain |
| | Calcareous Grain |
| 3 | Nannofossils |
| | Foraminifers |
| | Siliceous Grain |
| | Diatom |
| | Radiolarians |
| | Silicoflagellates |
| | Sponge Spicules |
| | Neritic Grain |
| | Ooid |
| | Spherical Particles |
| | Elliptical Particles |
| | Bioclast |
| | Molluscan |
| | Algal |
| | Pellet |
| | Molluscs |
| | Echinoderms |
| | Others |
| | Intraclast |
| | Carbonate Rock Fragment |
| | Peloid |
| | Pisolite |
| | Calcareous Grain |
| | Dolomitic Grain |
| | Aragonitic Grain |
| | Sideritic Grain |

| Percent | Composition |
|---------|--------------------|
| | Others |
| | Gypsiferous Grain |
| | Calcareous Grain |
| | Sapropelic Grain |
| | Mn Nodules/ Crusts |
| | Pyrite Grain |
| | Opaque Grain |

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 12-24-12

Expedition: 338

Observer: KLM

Site: 10002 Hole: L Core: 6X Sect.: 7

Interval: 36

Sediment Name: fine ash

| Smear Slide | Thin Section | Coarse Fraction | Grain Mount |
|-------------|--------------|-----------------|-------------|
| ✓ | | | |

| Granular Sediment | | Chemical Sediment | |
|-------------------|----------------|-------------------|---------|
| Siliciclastic | Volcaniclastic | Peragic | Neritic |
| ✓ | | | |

| Percent Texture | |
|-----------------|-------------|
| Sand | Silt / Clay |
| 10 | 90 |

Select one and check.

Select one and check.

Select one and check.

| Percent | Composition |
|---------|-----------------------------|
| | Siliciclastic Grain |
| | Minerals |
| 50 | Quartz |
| | Feldspars |
| | Micas |
| | Ferromagnesian Minerals |
| | Glauconite |
| | Clay Minerals |
| | Zeolites |
| | Heavy Minerals |
| | Pyrite |
| | Phospholite |
| | Aragonite |
| | Calcite |
| | Oolites |
| | Lithic Grain |
| | Sedimentary Lithic Grain |
| | Igneous Lithic Grain |
| | Metamorphic Lithic Grain |
| | Volcaniclastic Grain |
| 5 | Scoria / Pumice |
| | Scoria |
| | Pumice |
| | Volcaniclastic Lithic Grain |
| | Pieritic Lithic Grain |
| | Basaltic Lithic Grain |
| | Andesitic Lithic Grain |
| | Dacitic Lithic Grain |
| | Rhyolitic Lithic Grain |
| 90 | Crystal Grain |
| | Vitric Grain |

| Percent | Composition |
|---------|-------------------------|
| | Pelagic Grain |
| | Calcareous Grain |
| | Nannofossils |
| | Foraminifers |
| | Siliceous Grain |
| | Diatom |
| | Radiolarians |
| | Silicoflagellates |
| | Sponge Spicules |
| | Neritic Grain |
| | Ooid |
| | Spherical Particles |
| | Elliptical Particles |
| | Bioclast |
| | Molluscan |
| | Algal |
| | Pellet |
| | Molluscs |
| | Echinoderms |
| | Others |
| | Intraclast |
| | Carbonate Rock Fragment |
| | Peloid |
| | Pisolite |
| | Calcareous Grain |
| | Dolomitic Grain |
| | Aragonitic Grain |
| | Sideritic Grain |

| Percent | Composition |
|---------|--------------------|
| | Others |
| | Gypsiferous Grain |
| | Calcareous Grain |
| | Sapropelic Grain |
| | Mn Nodules/ Crusts |
| | Pyrite Grain |
| | Opaque Grain |

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 12-24-12

Expedition: 338

Observer: KLM

Site: C0002 Hole: L

Core: 6X

Sept.: 9

Interval: 100

Sediment Name: _____

| Smear Slide | Thin Section | Coarse Fraction | Grain Mount |
|-------------|--------------|-----------------|-------------|
| 27 | | | |

Select one and check.

| Granular Sediment | | Chemical Sediment | |
|-------------------|----------------|-------------------|---------|
| Siliciclastic | Volcaniclastic | Peragic | Neritic |
| | | | |

Select one and check.

| Percent Texture | |
|-----------------|------|
| Sand | Clay |
| 30 | 70 |

Select one and check.

| Percent | Composition |
|---------|-----------------------------|
| | Siliclastic Grain |
| | Minerals |
| | Quartz |
| | Feldspars |
| | Micas |
| | Ferromagnesian Minerals |
| | Glauconite |
| 55 | Clay Minerals |
| | Zeolites |
| | Heavy Minerals |
| | Pyrite |
| | Phospholite |
| | Aragonite |
| | Calcite |
| | Oolites |
| | Lithic Grain |
| | Sedimentary Lithic Grain |
| | Igneous Lithic Grain |
| | Metamorphic Lithic Grain |
| | Volcaniclastic Grain |
| | Scoria / Pumice |
| | Scoria |
| | Pumice |
| | Volcaniclastic Lithic Grain |
| | Picritic Lithic Grain |
| | Basaltic Lithic Grain |
| | Andesitic Lithic Grain |
| | Dacitic Lithic Grain |
| | Rhyolitic Lithic Grain |
| | Crystal Grain |
| | Vitric Grain |

| Percent | Composition |
|---------|-------------------------|
| | Pelagic Grain |
| 15 | Calcareous Grain |
| | Nannofossils |
| | Foraminifers |
| 1 | Siliceous Grain |
| 1 | Diatom |
| 1 | Radiolarians |
| 1 | Sillicoflagellates |
| 1 | Sponge Spicule |
| | Neritic Grain |
| | Ooid |
| | Spherical Particles |
| | Elliptical Particles |
| | Bioclast |
| | Molluscan |
| | Algal |
| | Pellet |
| | Molluscs |
| | Echinoderms |
| | Others |
| | Intraclast |
| | Carbonate Rock Fragment |
| | Peloid |
| | Pisolite |
| | Calcareous Grain |
| | Dolomitic Grain |
| | Aragonitic Grain |
| | Sideritic Grain |

| Percent | Composition |
|---------|--------------------|
| | Others |
| | Gypsiferous Grain |
| | Calcareous Grain |
| | Sapropelic Grain |
| | Mn Nodules/ Crusts |
| | Pyrite Grain |
| | Opaque Grain |
| F | red-brown OM |

Fill percentage (Total must be 100).

Remarks: _____

Sediment Smear Slide / Thin Section Description Sheet

Date 12-24-12

Expedition: 338

Observer: KLM

Site: C0002 Hole: L Core: 8X Sect.: 2

Interval: 30

Sediment Name: Sand

| Smear Slide | Thin Section | Coarse Fraction | Grain Mount |
|-------------------------------------|--------------|-----------------|-------------|
| <input checked="" type="checkbox"/> | | | |

Select one and check.

| Granular Sediment | Chemical Sediment | |
|-------------------------------------|-------------------|----------------|
| | Siliciclastic | Volcaniclastic |
| <input checked="" type="checkbox"/> | | |

Select one and check.

| Percent Texture | Sand | Silt | | Clay |
|-----------------|-----------|------|--|------|
| | | | | |
| | <u>60</u> | | | |

Select one and check.

| Percent | Composition |
|-----------|-----------------------------|
| | Siliclastic Grain |
| | Minerals |
| <u>65</u> | Quartz |
| | Feldspars |
| | Micas |
| | Ferromagnesian Minerals |
| | Glauconite |
| | Clay Minerals |
| | Zeolites |
| | Heavy Minerals |
| | Pyrite |
| | Phospholite |
| | Aragonite |
| | Calcite |
| | Oolites |
| | Lithic Grain |
| <u>5</u> | Sedimentary Lithic Grain |
| | Igneous Lithic Grain |
| <u>30</u> | Metamorphic Lithic Grain |
| | |
| | |
| | |
| | Volcaniclastic Grain |
| | Scoria / Pumice |
| | Scoria |
| | Pumice |
| | Volcaniclastic Lithic Grain |
| | Pteritic Lithic Grain |
| | Basaltic Lithic Grain |
| | Andesitic Lithic Grain |
| | Dacitic Lithic Grain |
| | Rhyolitic Lithic Grain |
| | Crystal Grain |
| | Vitric Grain |
| | |
| | |

Select one and check.

| Percent | Composition |
|---------|-------------------------|
| | Pelagic Grain |
| | Calcareous Grain |
| | Nannofossils |
| | Foraminifers |
| | Siliceous Grain |
| | Diatom |
| | Radiolarians |
| | Silicoflagellates |
| | Sponge Spicules |
| | |
| | |
| | Neritic Grain |
| | Ooid |
| | Spherical Particles |
| | Elliptical Particles |
| | Bioclast |
| | Molluscan |
| | Algal |
| | Pellet |
| | Molluscs |
| | Echinoderms |
| | Others |
| | Intraclast |
| | Carbonate Rock Fragment |
| | Peloid |
| | Pisolite |
| | Calcareous Grain |
| | Dolomitic Grain |
| | Aragonitic Grain |
| | Sideritic Grain |
| | |
| | |
| | |

Select one and check.

| Percent | Composition |
|---------|--------------------|
| | Others |
| | Gypsiferous Grain |
| | Calcareous Grain |
| | Sapropelic Grain |
| | Mn Nodules/ Crusts |
| | Pyrite Grain |
| | Opaque Grain |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

Select one and check.

Fill percentage (Total must be 100).

Remarks: potentially good for grain photos

Sediment Smear Slide / Thin Section Description Sheet

Date 12/24/12

Expedition: 338

Observer: KLM

Site: C0002

Hole: L

Core: 8x

Sept.: 2

Interval: 79

Sediment Name: silty clay

| Smear Slide | Thin Section | Coarse Fraction | Grain Mount |
|-------------|--------------|-----------------|-------------|
| ✓ | | | |

Select one and check.

| Granular Sediment | | Chemical Sediment | |
|-------------------|----------------|-------------------|---------|
| Siliciclastic | Volcaniclastic | Peragic | Neritic |
| ✓ | | | |

Select one and check.

| Percent Texture | |
|-----------------|------|
| Sand | Clay |
| 85 | 75 |

Select one and check.

| Percent | Composition |
|---------|-----------------------------|
| | Siliclastic Grain |
| | Minerals |
| 30 | Quartz |
| | Feldspars |
| | Micas |
| | Ferromagnesian Minerals |
| | Glauconite |
| 60 | Clay Minerals |
| | Zeolites |
| | Heavy Minerals |
| | Pyrite |
| | Phospholite |
| | Aragonite |
| | Calcite |
| | Oolites |
| | Lithic Grain |
| | Sedimentary Lithic Grain |
| | Igneous Lithic Grain |
| | Metamorphic Lithic Grain |
| | Volcaniclastic Grain |
| | Scoria / Pumice |
| | Scoria |
| | Pumice |
| | Volcaniclastic Lithic Grain |
| | Picritic Lithic Grain |
| | Basaltic Lithic Grain |
| | Andesitic Lithic Grain |
| | Dacitic Lithic Grain |
| | Rhyolitic Lithic Grain |
| | Crystal Grain |
| | Vitric Grain |

| Percent | Composition |
|---------|-------------------------|
| | Pelagic Grain |
| | Calcareous Grain |
| 10 | Nannofossils |
| | Foraminifers |
| F | Siliceous Grain |
| F | Diatom |
| | Radiolarians |
| | Silicoflagellates |
| | Sponge Spicules |
| | Neritic Grain |
| | Ooid |
| | Spherical Particles |
| | Elliptical Particles |
| | Bioclast |
| | Molluscan |
| | Algal |
| | Pellet |
| | Molluscs |
| | Echinoderms |
| | Others |
| | Intraclast |
| | Carbonate Rock Fragment |
| | Peloid |
| | Pisolite |
| | Calcareous Grain |
| | Dolomitic Grain |
| | Aragonitic Grain |
| | Sideritic Grain |

| Percent | Composition |
|---------|--------------------|
| | Others |
| | Gypsiferous Grain |
| | Calcareous Grain |
| | Sapropelic Grain |
| | Mn Nodules/ Crusts |
| | Pyrite Grain |
| | Opaque Grain |
| 1 | red-brown |

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 12-24-12

Expedition: 338

Observer: KLM

Site: C0002 Hole: L Core: 8X Sect.: 5

Interval: 20

Sediment Name: silty clay

| Smear Slide | Thin Section | Coarse Fraction | Grain Mount |
|-------------------------------------|--------------|-----------------|-------------|
| <input checked="" type="checkbox"/> | | | |

Select one and check.

| Granular Sediment | Chemical Sediment | |
|-------------------------------------|-------------------|----------------|
| | Siliciclastic | Volcaniclastic |
| <input checked="" type="checkbox"/> | | |

Select one and check.

| Percent Texture | Percent Texture | |
|-----------------|-----------------|---------------------|
| | Sand | Silt Clay |
| | | <u>25</u> <u>75</u> |

Select one and check.

| Percent | Composition |
|-----------|-----------------------------|
| | Siliclastic Grain |
| | Minerals |
| <u>30</u> | Quartz |
| | Feldspars |
| | Micas |
| | Ferromagnesian Minerals |
| | Glauconite |
| <u>60</u> | Clay Minerals |
| | Zeolites |
| | Heavy Minerals |
| | Pyrite |
| | Phospholite |
| | Aragonite |
| | Calcite |
| | Oolites |
| | Lithic Grain |
| | Sedimentary Lithic Grain |
| | Igneous Lithic Grain |
| | Metamorphic Lithic Grain |
| | Volcaniclastic Grain |
| | Scoria / Pumice |
| | Scoria |
| | Pumice |
| | Volcaniclastic Lithic Grain |
| | Picritic Lithic Grain |
| | Basaltic Lithic Grain |
| | Andesitic Lithic Grain |
| | Dacitic Lithic Grain |
| | Rhyolitic Lithic Grain |
| | Crystal Grain |
| | Vitric Grain |

| Percent | Composition |
|-----------|-------------------------|
| | Pelagic Grain |
| | Calcareous Grain |
| <u>10</u> | Nannofossils |
| | Foraminifers |
| | Siliceous Grain |
| | Diatom |
| | Radiolarians |
| | Silicoflagellates |
| | Sponge Spicule |
| | Neritic Grain |
| | Ooid |
| | Spherical Particles |
| | Elliptical Particles |
| | Bioclast |
| | Molluscan |
| | Algal |
| | Pellet |
| | Molluscs |
| | Echinoderms |
| | Others |
| | Intraclast |
| | Carbonate Rock Fragment |
| | Peloid |
| | Pisolite |
| | Calcareous Grain |
| | Dolomitic Grain |
| | Aragonitic Grain |
| | Sideritic Grain |

| Percent | Composition |
|----------|-----------------------|
| | Others |
| | Gypsiferous Grain |
| | Calcareous Grain |
| | Sapropelic Grain |
| | Mn Nodules/ Crusts |
| | Pyrite Grain |
| | Opaque Grain |
| <u>1</u> | <u>red-brown clay</u> |

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 12-24-12

Expedition: 338

Observer: KLM

Site: C002

Core: 84

Sect.: 5

Interval: 90

silty clay

Sediment Name:

| Smear Slide | Thin Section | Coarse Fraction | Grain Mount |
|-------------|--------------|-----------------|-------------|
| ✓ | | | |

Select one and check.

| Granular Sediment | | Chemical Sediment | |
|-------------------|----------------|-------------------|---------|
| Siliciclastic | Volcaniclastic | Peragic | Neritic |
| ✓ | | | |

Select one and check.

| Percent Texture | |
|-----------------|------|
| Sand | Clay |
| | 75 |

Select one and check.

| Percent | Composition | Composition |
|---------|-----------------------------|-------------|
| | Siliclastic Grain | |
| | Minerals | |
| 27 | Quartz | |
| | Feldspars | |
| | Micas | |
| | Ferromagnesian Minerals | |
| | Glaucanite | |
| 65 | Clay Minerals | |
| | Zeolites | |
| | Heavy Minerals | |
| | Pyrite | |
| | Phospholite | |
| | Aragonite | |
| | Calcite | |
| | Oolites | |
| | Lithic Grain | |
| | Sedimentary Lithic Grain | |
| | Igneous Lithic Grain | |
| | Metamorphic Lithic Grain | |
| | | |
| | | |
| | | |
| | Volcaniclastic Grain | |
| | Scoria / Pumice | |
| | Scoria | |
| | Pumice | |
| | Volcaniclastic Lithic Grain | |
| | Picritic Lithic Grain | |
| | Basaltic Lithic Grain | |
| | Andesitic Lithic Grain | |
| | Dacitic Lithic Grain | |
| | Rhyolitic Lithic Grain | |
| | Crystal Grain | |
| | Vitric Grain | |
| | | |

| Percent | Composition | Composition |
|---------|-------------------------|-------------|
| | Pelagic Grain | |
| 7 | Calcareous Grain | |
| | Nannofossils | |
| | Foraminifers | |
| | Siliceous Grain | |
| | Diatom | |
| | Radiolarians | |
| | Silicoflagellates | |
| | Sponge Spicules | |
| | | |
| | Neritic Grain | |
| | Ooid | |
| | Spherical Particles | |
| | Elliptical Particles | |
| | Bioclast | |
| | Molluscan | |
| | Algal | |
| | Pellet | |
| | Molluscs | |
| | Echinoderms | |
| | Others | |
| | Intraclast | |
| | Carbonate Rock Fragment | |
| | Peloid | |
| | Pisolite | |
| | Calcareous Grain | |
| | Dolomitic Grain | |
| | Araginitic Grain | |
| | Sideritic Grain | |
| | | |
| | | |

| Percent | Composition | Composition |
|---------|-------------------|-------------|
| | Others | |
| | Gypsiferous Grain | |
| | Calcareous Grain | |
| | Sapropelic Grain | |
| | Mn Nodules/Crusts | |
| | Pyrite Grain | |
| | Opaque Grain | |
| | | |
| | | |
| | | |
| 1 | | red-br. OM |
| | | |
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| | | |
| | | |
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| | | |
| | | |

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 12-25-12

Expedition: 338

Observer: KLM

Site: C0002

Hole: L

Core: 9x

Sect.: 1

Interval: 15

Sediment Name: silty sand

| Smear Slide | Thin Section | Coarse Fraction | Grain Mount |
|-------------------------------------|--------------|-----------------|-------------|
| <input checked="" type="checkbox"/> | | | |

Select one and check.

| Granular Sediment | | Chemical Sediment | |
|-------------------------------------|----------------|-------------------|---------|
| Siliciclastic | Volcaniclastic | Peragic | Neritic |
| <input checked="" type="checkbox"/> | | | |

Select one and check.

| Percent Texture | |
|-----------------|-----------|
| Sand | Clay |
| <u>60</u> | <u>10</u> |

Select one and check.

| Percent | Composition |
|-----------|-----------------------------|
| | Siliciclastic Grain |
| | Minerals |
| <u>55</u> | Quartz |
| | Feldspars |
| | Micas |
| | Ferromagnesian Minerals |
| | Glaucanite |
| <u>10</u> | Clay Minerals |
| | Zeolites |
| <u>1</u> | Heavy Minerals |
| | Pyrite |
| | Phospholite |
| | Aragonite |
| | Calcite |
| | Oolites |
| | Lithic Grain |
| | Sedimentary Lithic Grain |
| | Igneous Lithic Grain |
| <u>30</u> | Metamorphic Lithic Grain |
| | |
| | |
| | |
| | |
| | |
| | Volcaniclastic Grain |
| | Scoria / Pumice |
| | Scoria |
| | Pumice |
| | Volcaniclastic Lithic Grain |
| | Picritic Lithic Grain |
| | Basaltic Lithic Grain |
| | Andesitic Lithic Grain |
| | Dacitic Lithic Grain |
| | Rhyolitic Lithic Grain |
| | Crystal Grain |
| | Vitric Grain |
| | |
| | |

| Percent | Composition |
|----------|-------------------------|
| | Pelagic Grain |
| | Calcareous Grain |
| <u>2</u> | Nannofossils |
| | Foraminifers |
| | Siliceous Grain |
| | Diatom |
| | Radiolarians |
| | Silicoflagellates |
| <u>E</u> | Sponge Spicules |
| | |
| | |
| | Neritic Grain |
| | Ooid |
| | Spherical Particles |
| | Elliptical Particles |
| | Bioclast |
| | Molluscan |
| | Algal |
| | Pellet |
| | Molluscs |
| | Echinoderms |
| | Others |
| | Intraclast |
| | Carbonate Rock Fragment |
| | Peloid |
| | Pisolite |
| | Calcareous Grain |
| | Dolomitic Grain |
| | Araginitic Grain |
| | Sideritic Grain |
| | |
| | |
| | |
| | |

| Percent | Composition |
|----------|---------------------|
| | Others |
| | Gypsiferous Grain |
| | Calcareous Grain |
| | Sapropelic Grain |
| | Mn Nodules/ Crusts |
| | Pyrite Grain |
| <u>2</u> | Opaque Grain |
| | |
| | |
| <u>F</u> | <u>red-brown OM</u> |
| | |
| | |
| | |
| | |
| | |
| | |
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| | |
| | |
| | |
| | |
| | |
| | |

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 12-25-12

Expedition: 338

Observer: KLM

Site: 10002 Hole: L Core: 9X Sect.: 4

Interval: 20

Sediment Name: silty clay

| Smear Slide | Thin Section | Coarse Fraction | Grain Mount |
|-------------|--------------|-----------------|-------------|
| ✓ | | | |

Select one and check.

| Granular Sediment | | Chemical Sediment | |
|-------------------|----------------|-------------------|---------|
| Siliciclastic | Volcaniclastic | Pelagic | Neritic |
| ✓ | | | |

Select one and check.

| Percent Texture | |
|-----------------|------|
| Sand | Clay |
| 30 | 70 |

Select one and check.

| Percent | Composition |
|---------|-----------------------------|
| | Siliclastic Grain |
| | Minerals |
| 35 | Quartz |
| | Feldspars |
| P | Micas |
| | Ferromagnesian Minerals |
| | Glauconite |
| 60 | Clay Minerals |
| | Zeolites |
| | Heavy Minerals |
| | Pyrite |
| | Phospholite |
| | Aragonite |
| | Calcite |
| | Oolites |
| | Lithic Grain |
| | Sedimentary Lithic Grain |
| | Igneous Lithic Grain |
| | Metamorphic Lithic Grain |
| | Volcaniclastic Grain |
| | Scoria / Pumice |
| | Scoria |
| | Pumice |
| | Volcaniclastic Lithic Grain |
| | Pieritic Lithic Grain |
| | Basaltic Lithic Grain |
| | Andesitic Lithic Grain |
| | Dacitic Lithic Grain |
| | Rhyolitic Lithic Grain |
| | Crystal Grain |
| | Vitric Grain |

| Percent | Pelagic Grain | Composition |
|---------|-------------------------|-------------|
| | Calcareous Grain | |
| S | Nannofossils | |
| F | Foraminifers | |
| | Siliceous Grain | |
| | Diatom | |
| | Radiolarians | |
| | Silicoflagellates | |
| | Sponge Spicule | |
| | Neritic Grain | |
| | Ooid | |
| | Spherical Particles | |
| | Ellipsoidal Particles | |
| | Bioclast | |
| | Molluscan | |
| | Algal | |
| | Pellet | |
| | Molluscs | |
| | Echinoderms | |
| | Others | |
| | Intraclast | |
| | Carbonate Rock Fragment | |
| | Peloid | |
| | Pisolite | |
| | Calcareous Grain | |
| | Dolomitic Grain | |
| | Aragonitic Grain | |
| | Sideritic Grain | |

| Percent | Others | Composition |
|---------|--------------------|-------------|
| | Gypsiferous Grain | |
| F | Calcareous Grain | |
| | Sapropelic Grain | |
| | Mn Nodules/ Crusts | |
| | Pyrite Grain | |
| | Opaque Grain | |
| F | | red-brown |

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 12-25-12

Expedition: 338

Observer: KLM

Site: 10007 Hole: L Core: 10x Sect.: 2

Interval: 14

Sediment Name: silty clay (almost c/g)

| Smear Slide | Thin Section | Coarse Fraction | Grain Mount |
|-------------|--------------|-----------------|-------------|
| ✓ | | | |

| Granular Sediment | | Chemical Sediment | |
|-------------------|----------------|-------------------|---------|
| Siliciclastic | Volcaniclastic | Peragic | Neritic |
| ✓ | | | |

| Percent Texture | | |
|-----------------|------|------|
| Sand | Silt | Clay |
| | 20 | 80 |

Select one and check.

Select one and check.

Select one and check.

| Percent | Composition |
|---------|-----------------------------|
| | Siliclastic Grain |
| | Minerals |
| 25 | Quartz |
| | Feldspars |
| | Micas |
| | Ferromagnesian Minerals |
| | Glaucophane |
| 70 | Clay Minerals |
| | Zeolites |
| | Heavy Minerals |
| | Pyrite |
| | Phospholite |
| | Aragonite |
| | Calcite |
| | Oolites |
| | Lithic Grain |
| | Sedimentary Lithic Grain |
| | Igneous Lithic Grain |
| | Metamorphic Lithic Grain |
| | Volcaniclastic Grain |
| | Scoria / Pumice |
| | Scoria |
| | Pumice |
| | Volcaniclastic Lithic Grain |
| | Picritic Lithic Grain |
| | Basaltic Lithic Grain |
| | Andesitic Lithic Grain |
| | Dacitic Lithic Grain |
| | Rhyolitic Lithic Grain |
| | Crystal Grain |
| | Vitric Grain |

| Percent | Composition |
|---------|-------------------------|
| | Pelagic Grain |
| 5 | Calcareous Grain |
| | Nannofossils |
| | Foraminifers |
| | Siliceous Grain |
| | Diatom |
| | Radiolarians |
| | Silicoflagellates |
| | Sponge Spicules |
| | Neritic Grain |
| | Ooid |
| | Spherical Particles |
| | Elliptical Particles |
| | Bioclast |
| | Molluscan |
| | Algal |
| | Pellet |
| | Molluscs |
| | Echinoderms |
| | Others |
| | Intraclast |
| | Carbonate Rock Fragment |
| | Peloid |
| | Pisolite |
| | Calcareous Grain |
| | Dolomitic Grain |
| | Aragonitic Grain |
| | Sideritic Grain |

| Percent | Composition |
|---------|--------------------|
| | Others |
| | Gypsiferous Grain |
| | Calcareous Grain |
| | Sapropelic Grain |
| | Mn Nodules/ Crusts |
| F | Pyrite Grain |
| | Opaque Grain |
| F | red-brown OM |

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 12-25-17

Expedition: 338

Observer: KLM

Site: C0002 Hole: L Core: 10X Sect: 6

Interval: 60

Sediment Name: clay

| | | | |
|-------------|--------------|-----------------|-------------|
| Smear Slide | Thin Section | Coarse Fraction | Grain Mount |
| ✓ | | | |

| Granular Sediment | | Chemical Sediment | |
|-------------------|----------------|-------------------|---------|
| Siliciclastic | Volcaniclastic | Pelagic | Neritic |
| ✓ | | | |

| Percent Texture | |
|-----------------|-------|
| Sand | Clay |
| | 15 85 |

Select one and check.

Select one and check.

Select one and check.

| Percent | Composition |
|---------|-----------------------------|
| | Siliclastic Grain |
| | Minerals |
| | Quartz |
| | Feldspars |
| | Micas |
| | Ferromagnesian Minerals |
| | Glauconite |
| | Clay Minerals |
| | Zeolites |
| | Heavy Minerals |
| | Pyrite |
| | Phospholite |
| | Aragonite |
| | Calcite |
| | Oolites |
| | Lithic Grain |
| | Sedimentary Lithic Grain |
| | Igneous Lithic Grain |
| | Metamorphic Lithic Grain |
| | Volcaniclastic Grain |
| | Scoria / Pumice |
| | Scoria |
| | Pumice |
| | Volcaniclastic Lithic Grain |
| | Pieritic Lithic Grain |
| | Basaltic Lithic Grain |
| | Andesitic Lithic Grain |
| | Dacitic Lithic Grain |
| | Rhyolitic Lithic Grain |
| | Crystal Grain |
| | Vitric Grain |

| Percent | Composition |
|---------|-------------------------|
| | Pelagic Grain |
| | Calcareous Grain |
| | Nannofossils |
| | Foraminifers |
| | Siliceous Grain |
| | Diatom |
| | Radiolarians |
| | Silicoflagellates |
| | Sponge Spicule |
| | Neritic Grain |
| | Ooid |
| | Spherical Particles |
| | Elliptical Particles |
| | Bioclast |
| | Molluscan |
| | Algal |
| | Pellet |
| | Molluscs |
| | Echinoderms |
| | Others |
| | Intraclast |
| | Carbonate Rock Fragment |
| | Peloid |
| | Pisolite |
| | Calcareous Grain |
| | Dolomitic Grain |
| | Aragonitic Grain |
| | Sideritic Grain |

| Percent | Composition |
|---------|--------------------|
| | Others |
| | Gypsiferous Grain |
| | Calcareous Grain |
| | Sapropelic Grain |
| | Mn Nodules/ Crusts |
| | Pyrite Grain |
| | Opaque Grain |

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 12-25-12

Expedition: 338

Observer: KLM

Site: D0002 Hole: L

Core: 10X

Section: 8

Interval: 80

Sediment Name: _____

Sand

| Smear Slide | Thin Section | Coarse Fraction | Grain Mount |
|-------------|--------------|-----------------|-------------|
| ✓ | | | |

Select one and check.

| Granular Sediment | | Chemical Sediment | |
|-------------------|----------------|-------------------|---------|
| Siliciclastic | Volcaniclastic | Peragic | Neritic |
| ✓ | | | |

Select one and check.

| Percent Texture | |
|-----------------|------|
| Sand | Clay |
| 100 | |

Select one and check.

| Percent | Composition |
|---------|-----------------------------|
| | Siliclastic Grain |
| | Minerals |
| 35 | Quartz |
| 25 | Feldspars |
| | Micas |
| | Ferromagnesian Minerals |
| | Glaucosnrite |
| | Clay Minerals |
| | Zeolites |
| | Heavy Minerals |
| | Pyrite |
| | Phospholite |
| | Aragonite |
| | Calcite |
| | Oolites |
| | Lithic Grain |
| 10 | Sedimentary Lithic Grain |
| | Igneous Lithic Grain |
| 30 | Metamorphic Lithic Grain |
| | Volcaniclastic Grain |
| | Scoria / Pumice |
| | Scoria |
| | Pumice |
| | Volcaniclastic Lithic Grain |
| | Picritic Lithic Grain |
| | Basaltic Lithic Grain |
| | Andesitic Lithic Grain |
| | Dacitic Lithic Grain |
| | Rhyolitic Lithic Grain |
| | Crystal Grain |
| F | Vitric Grain |

| Percent | Composition |
|---------|-------------------------|
| | Pelagic Grain |
| | Calcareous Grain |
| | Nannofossils |
| F | Foraminifers |
| | Siliceous Grain |
| | Diatom |
| | Radiolarians |
| | Silicoflagellates |
| | Sponge Spicule |
| | Neritic Grain |
| | Ooid |
| | Spherical Particles |
| | Ellipsical Particles |
| | Bioclast |
| | Molluscan |
| | Algal |
| | Pellet |
| | Molluscs |
| | Echinoderms |
| | Others |
| | Intraclast |
| | Carbonate Rock Fragment |
| | Peloid |
| | Pisolite |
| | Calcareous Grain |
| | Dolomitic Grain |
| | Araginitic Grain |
| | Sideritic Grain |

| Percent | Composition |
|---------|--------------------|
| | Others |
| | Gypsiferous Grain |
| | Calcareous Grain |
| | Sapropelic Grain |
| | Mn Nodules/ Crusts |
| | Pyrite Grain |
| | Opaque Grain |

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 12-25-12

Expedition: 338

Observer: KLM

Site: C0002 Hole: L Core: 10x Sect.: CC

Interval: 20

Sediment Name: clay

| | | | | | | | |
|-------------|---|--------------|--|-----------------|--|-------------|--|
| Smear Slide | ✓ | Thin Section | | Coarse Fraction | | Grain Mount | |
|-------------|---|--------------|--|-----------------|--|-------------|--|

| | | | |
|-------------------|---|-------------------|---------|
| Granular Sediment | | Chemical Sediment | |
| Siliciclastic | ✓ | Volcaniclastic | Peragic |
| Neritic | | Neritic | |

| | |
|-----------------|------|
| Percent Texture | |
| Sand | Clay |
| 15 | 85 |

Select one and check.

Select one and check.

Select one and check.

| Percent | Composition |
|---------|-----------------------------|
| | Siliclastic Grain |
| | Minerals |
| 20 | Quartz |
| | Feldspars |
| | Micas |
| | Ferromagnesian Minerals |
| | Glauconite |
| 75 | Clay Minerals |
| | Zeolites |
| | Heavy Minerals |
| | Pyrite |
| | Phospholite |
| | Aragonite |
| | Calcite |
| | Oolites |
| | Lithic Grain |
| | Sedimentary Lithic Grain |
| | Igneous Lithic Grain |
| | Metamorphic Lithic Grain |
| | Volcaniclastic Grain |
| | Scoria / Pumice |
| | Scoria |
| | Pumice |
| | Volcaniclastic Lithic Grain |
| | Picroitic Lithic Grain |
| | Basaltic Lithic Grain |
| | Andesitic Lithic Grain |
| | Dacitic Lithic Grain |
| | Rhyolitic Lithic Grain |
| | Crystal Grain |
| | Vitric Grain |

| Percent | Composition |
|---------|-------------------------|
| | Pelagic Grain |
| | Calcareous Grain |
| 5 | Nannofossils |
| | Foraminifers |
| | Siliceous Grain |
| | Diatom |
| | Radiolarians |
| | Silicoflagellates |
| | Sponge Spicule |
| | Neritic Grain |
| | Ooid |
| | Spherical Particles |
| | Elliptical Particles |
| | Bioclast |
| | Molluscan |
| | Algal |
| | Pellet |
| | Molluscs |
| | Echinoderms |
| | Others |
| | Intraclast |
| | Carbonate Rock Fragment |
| | Peloid |
| | Pisolite |
| | Calcareous Grain |
| | Dolomitic Grain |
| | Araginitic Grain |
| | Sideritic Grain |

| Percent | Composition |
|---------|---------------------|
| | Others |
| | Gypsiferous Grain |
| | Calcareous Grain |
| | Sapropelic Grain |
| | Mn Nodules / Crusts |
| | Pyrite Grain |
| | Opaque Grain |

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 12-25-12

Expedition: 338 Observer: KLM

Site: C0002 Hole: L Core: 11X Sect.: 1 Interval: 5

Sediment Name: silty clay (dominant lithol)

| Smear Slide | Thin Section | Coarse Fraction | Grain Mount |
|-------------|--------------|-----------------|-------------|
| ✓ | | | |

Select one and check.

| Granular Sediment | | Chemical Sediment | |
|-------------------|----------------|-------------------|---------|
| Siliciclastic | Volcaniclastic | Peragic | Neritic |
| ✓ | | | |

Select one and check.

| Percent Texture | |
|-----------------|-------|
| Sand | Clay |
| | 20 80 |

Select one and check.

| Percent | Composition |
|---------|-----------------------------|
| | Siliclastic Grain |
| | Minerals |
| | Quartz |
| | Feldspars |
| | Micas |
| | Ferromagnesian Minerals |
| | Glauconite |
| | Clay Minerals |
| 70 | Zeolites |
| | Heavy Minerals |
| | Pyrite |
| | Phospholite |
| | Aragonite |
| | Calcite |
| | Oolites |
| | Lithic Grain |
| | Sedimentary Lithic Grain |
| | Igneous Lithic Grain |
| | Metamorphic Lithic Grain |
| | Volcaniclastic Grain |
| | Scoria / Pumice |
| | Scoria |
| | Pumice |
| | Volcaniclastic Lithic Grain |
| | Picrotic Lithic Grain |
| | Basaltic Lithic Grain |
| | Andesitic Lithic Grain |
| | Dacitic Lithic Grain |
| | Rhyolitic Lithic Grain |
| | Crystal Grain |
| | Vitric Grain |

| Percent | Composition |
|---------|-------------------------|
| | Pelagic Grain |
| | Calcareous Grain |
| 5 | Nannofossils |
| | Foraminifers |
| | Siliceous Grain |
| | Diatom |
| | Radiolarians |
| | Silicoflagellates |
| | Sponge Spicule |
| | Neritic Grain |
| | Ooid |
| | Spherical Particles |
| | Elliptical Particles |
| | Bioclast |
| | Molluscan |
| | Algal |
| | Pellet |
| | Molluscs |
| | Echinoderms |
| | Others |
| | Intraclast |
| | Carbonate Rock Fragment |
| | Peloid |
| | Pisolite |
| | Calcareous Grain |
| | Dolomitic Grain |
| | Aragonitic Grain |
| | Sideritic Grain |

| Percent | Composition |
|---------|---------------------|
| | Others |
| | Gypsiferous Grain |
| | Calcareous Grain |
| | Sapropelic Grain |
| | Mn Nodules / Crusts |
| | Pyrite Grain |
| | Opaque Grain |
| 1 | Red-brown GM |

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 12-25-12

Expedition: 338

Observer: KLM

Site: 0002 Hole: L Core: 11X Sect: 1

Interval: 23.5

Sediment Name: Silty clay (yellow-green lithol.) (marite)

| | | | |
|-------------------------------------|--------------|-----------------|-------------|
| Smear Slide | Thin Section | Coarse Fraction | Grain Mount |
| <input checked="" type="checkbox"/> | | | |

| Granular Sediment | | Chemical Sediment | |
|-------------------------------------|----------------|-------------------|---------|
| Siiliclastic | Volcaniclastic | Peragic | Neritic |
| <input checked="" type="checkbox"/> | | | |

| Percent Texture | | |
|-----------------|-----------|-----------|
| Sand | Silt | Clay |
| | <u>85</u> | <u>90</u> |

Select one and check.

Select one and check.

Select one and check.

| Percent | Composition |
|-----------|-----------------------------|
| | Siiliclastic Grain |
| | Minerals |
| <u>50</u> | Quartz |
| | Feldspars |
| | Micas |
| | Ferromagnesian Minerals |
| | Glaucosnite |
| | Clay Minerals |
| | Zeolites |
| | Heavy Minerals |
| | Pyrite |
| | Phospholite |
| | Aragonite |
| | Calcite |
| | Oolites |
| | Lithic Grain |
| | Sedimentary Lithic Grain |
| | Igneous Lithic Grain |
| | Metamorphic Lithic Grain |
| | Volcaniclastic Grain |
| | Scoria / Pumice |
| | Scoria |
| | Pumice |
| | Volcaniclastic Lithic Grain |
| | Picritic Lithic Grain |
| | Basaltic Lithic Grain |
| | Andesitic Lithic Grain |
| | Dacitic Lithic Grain |
| | Rholitic Lithic Grain |
| | Crystal Grain |
| | Vitric Grain |

| Percent | Composition |
|---------|-------------------------|
| | Pelagic Grain |
| | Calcareous Grain |
| | Nannofossils |
| | Foraminifers |
| | Siliceous Grain |
| | Diatom |
| | Radiolarians |
| | Silicoflagellates |
| | Sponge Spicule |
| | Neritic Grain |
| | Ooid |
| | Spherical Particles |
| | Elliptical Particles |
| | Bioclast |
| | Molluscan |
| | Algal |
| | Pellet |
| | Molluscs |
| | Echinoderms |
| | Others |
| | Intraclast |
| | Carbonate Rock Fragment |
| | Peloid |
| | Pisolite |
| | Calcareous Grain |
| | Dolomitic Grain |
| | Araginitic Grain |
| | Sideritic Grain |

| Percent | Composition |
|-----------|---------------------|
| | Others |
| | Gypsiferous Grain |
| | Calcareous Grain |
| | Sapropelic Grain |
| | Mn Nodules/ Crusts |
| | Pyrite Grain |
| | Opaque Grain |
| <u>45</u> | <u>microcalcite</u> |
| | <u>anhedral</u> |

Fill percentage (Total must be 100).

Remarks:

2 estimates of clay/carb very uncertain - carb poss. much higher

Sediment Smear Slide / Thin Section Description Sheet

Date 12-25-12

Expedition: 338

Observer: KLM

Site: 10002 Hole: L Core: 11X Sect: 1

Interval: 77

Sediment Name: Sand

| Smear Slide | Thin Section | Coarse Fraction | Grain Mount |
|-------------|--------------|-----------------|-------------|
| ✓ | | | |

Select one and check.

| Granular Sediment | | Chemical Sediment | |
|-------------------|----------------|-------------------|---------|
| Siliciclastic | Volcaniclastic | Peragic | Neritic |
| ✓ | | | |

Select one and check.

| Percent Texture | |
|-----------------|-----------|
| Sand | Silt Clay |
| 100 | |

Select one and check.

| Percent | Composition |
|---------|-----------------------------|
| | Siliclastic Grain |
| | Minerals |
| 30 | Quartz |
| 20 | Feldspars |
| | Micas |
| | Ferromagnesian Minerals |
| | Glauconite |
| | Clay Minerals |
| | Zeolites |
| | Heavy Minerals |
| | Pyrite |
| | Phospholite |
| | Aragonite |
| | Calcite |
| | Oolites |
| | Lithic Grain |
| 5 | Sedimentary Lithic Grain |
| | Igneous Lithic Grain |
| 25 | Metamorphic Lithic Grain |
| | Volcaniclastic Grain |
| | Scoria / Pumice |
| | Scoria |
| | Pumice |
| | Volcaniclastic Lithic Grain |
| | Picritic Lithic Grain |
| | Basaltic Lithic Grain |
| | Andesitic Lithic Grain |
| | Dacitic Lithic Grain |
| | Rhyolitic Lithic Grain |
| | Crystal Grain |
| k | Vitric Grain |

| Percent | Composition |
|---------|-------------------------|
| | Pelagic Grain |
| | Calcareous Grain |
| | Nannofossils |
| R | Foraminifers |
| | Siliceous Grain |
| | Diatom |
| | Radiolarians |
| | Silicoflagellates |
| | Sponge Spicule |
| | Neritic Grain |
| | Ooid |
| | Spherical Particles |
| | Elliptical Particles |
| | Bioclast |
| | Molluscan |
| | Algal |
| | Pellet |
| | Molluscs |
| | Echinoderms |
| | Others |
| | Intraclast |
| | Carbonate Rock Fragment |
| | Peloid |
| | Pisolite |
| | Calcareous Grain |
| | Dolomitic Grain |
| | Aragonitic Grain |
| | Sideritic Grain |

| Percent | Composition |
|---------|--------------------|
| | Others |
| | Gypsiferous Grain |
| | Calcareous Grain |
| | Sapropelic Grain |
| | Mn Nodules/ Crusts |
| | Pyrite Grain |
| 20 | Opaque Grain |
| k | glauconite |

Fill percentage (Total must be 100).

Remarks: Good for photomicrographs

Sediment Smear Slide / Thin Section Description Sheet

Date 12-25-12

Expedition: 338

Observer: KLM

Site: C0002

Core: L

Sect.: 1

Interval: 5

Sediment Name: silty clay

| | | | |
|-------------------------------------|--------------------------|--------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Smear Slide | Thin Section | Coarse Fraction | Grain Mount |

| | | | | |
|-------------------------------------|--------------------------|-------------------|--------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Granular Sediment | <input type="checkbox"/> | <input type="checkbox"/> |
| | | Siliciclastic | | |

| | | | |
|--------------------------|--------------------------|-----------------|-----------|
| <input type="checkbox"/> | <input type="checkbox"/> | Percent Texture | |
| | | Sand | Clay |
| | | <u>25</u> | <u>75</u> |

Select one and check.

Select one and check.

Select one and check.

| Percent | Composition |
|---------|-----------------------------|
| | Siliclastic Grain |
| | Minerals |
| | Quartz |
| | Feldspars |
| | Micas |
| | Ferromagnesian Minerals |
| | Glauconite |
| | Clay Minerals |
| | Zeolites |
| | Heavy Minerals |
| | Pyrite |
| | Phospholite |
| | Aragonite |
| | Calcite |
| | Oolites |
| | Lithic Grain |
| | Sedimentary Lithic Grain |
| | Igneous Lithic Grain |
| | Metamorphic Lithic Grain |
| | Volcaniclastic Grain |
| | Scoria / Pumice |
| | Scoria |
| | Pumice |
| | Volcaniclastic Lithic Grain |
| | Picritic Lithic Grain |
| | Basaltic Lithic Grain |
| | Andesitic Lithic Grain |
| | Dacitic Lithic Grain |
| | Rhyolitic Lithic Grain |
| | Crystal Grain |
| | Vitric Grain |

| Percent | Composition |
|---------|-------------------------|
| | Pelagic Grain |
| | Calcareous Grain |
| | Nannofossils |
| | Foraminifers |
| | Siliceous Grain |
| | Diatom |
| | Radiolarians |
| | Silicoflagellates |
| | Sponge Spicules |
| | Neritic Grain |
| | Ooid |
| | Spherical Particles |
| | Elliptical Particles |
| | Bioclast |
| | Molluscan |
| | Algal |
| | Pellet |
| | Molluscs |
| | Echinoderms |
| | Others |
| | Intraclast |
| | Carbonate Rock Fragment |
| | Peloid |
| | Pisolite |
| | Calcareous Grain |
| | Dolomitic Grain |
| | Aragonitic Grain |
| | Sideritic Grain |

| Percent | Composition |
|----------|---------------------|
| | Others |
| | Gypsiferous Grain |
| | Calcareous Grain |
| | Sapropelic Grain |
| | Mn Nodules / Crusts |
| | Pyrite Grain |
| | Opaque Grain |
| <u>F</u> | <u>red-brown dm</u> |

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 12-25-12

Expedition: 338

Observer: KCM

Site: C0002

Hole: L

Core: 12X

Sect.: 2

Interval: 89

Sediment Name: Sand

| Smear Slide | Thin Section | Coarse Fraction | Grain Mount |
|-------------|--------------|-----------------|-------------|
| ✓ | | | |

| Granular Sediment | | Chemical Sediment | |
|-------------------|----------------|-------------------|---------|
| Siliciclastic | Volcaniclastic | Peragic | Neritic |
| ✓ | | | |

| Percent Texture | | |
|-----------------|------|------|
| Sand | Silt | Clay |
| 90 | 10 | |

Select one and check.

Select one and check.

Select one and check.

| Percent | Composition |
|---------|-----------------------------|
| | Siliclastic Grain |
| | Minerals |
| 35 | Quartz |
| 30 | Feldspars |
| | Micas |
| | Ferromagnesian Minerals |
| | Glauconite |
| | Clay Minerals |
| | Zeolites |
| | Heavy Minerals |
| | Pyrite |
| | Phospholite |
| | Aragonite |
| | Calcite |
| | Oolites |
| | Lithic Grain |
| 5 | Sedimentary Lithic Grain |
| | Igneous Lithic Grain |
| 25 | Metamorphic Lithic Grain |
| | Volcaniclastic Grain |
| | Scoria / Pumice |
| | Scoria |
| | Pumice |
| | Volcaniclastic Lithic Grain |
| | Pieritic Lithic Grain |
| | Basaltic Lithic Grain |
| | Andesitic Lithic Grain |
| | Dacitic Lithic Grain |
| | Rhyolitic Lithic Grain |
| | Crystal Grain |
| F | Vitric Grain |

| Percent | Composition |
|---------|-------------------------|
| | Pelagic Grain |
| | Calcareous Grain |
| | Nannofossils |
| | Foraminifers |
| | Siliceous Grain |
| | Diatom |
| | Radiolarians |
| | Silicoflagellates |
| | Sponge Spicule |
| | Neritic Grain |
| | Ooid |
| | Spherical Particles |
| | Elliptical Particles |
| | Bioclast |
| | Molluscan |
| | Algal |
| | Pellet |
| | Molluscs |
| | Echinoderms |
| | Others |
| | Intraclast |
| | Carbonate Rock Fragment |
| | Peloid |
| | Pisolite |
| | Calcareous Grain |
| | Dolomitic Grain |
| | Aragonitic Grain |
| | Sideritic Grain |

| Percent | Others | Composition |
|---------|--------------------|-------------|
| | Gypsiferous Grain | |
| | Calcareous Grain | |
| | Sapropelic Grain | |
| | Mn Nodules/ Crusts | |
| 2 | Pyrite Grain | |
| 3 | Opaque Grain | |
| | <u>F glauc</u> | |

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 12-26-12

Expedition: 338

Observer: KLM

Site: 10002 Hole: L Core: BX Sect.: 1

Interval: 18

Sediment Name: Sand

| Smear Slide | Thin Section | Coarse Fraction | Grain Mount | Granular Sediment | | Chemical Sediment | | Percent Texture | | |
|-------------|--------------|-----------------|-------------|-------------------|----------------|-------------------|---------|-----------------|------|------|
| | | | | Siiliclastic | Volcaniclastic | Peragic | Neritic | Sand | Silt | Clay |
| ✓ | | | | ✓ | | | | 90 | 10 | |

Select one and check.

| Percent | Composition | Percent | Composition | Percent | Composition | Percent | Composition |
|---------|-----------------------------|---------|-------------------------|---------|-------------|---------|--------------------|
| | | | | | | | |
| | Siiliclastic Grain | | Pelagic Grain | | | | |
| | Minerals | | Calcareous Grain | | | | Gypsiferous Grain |
| | Quartz | | Nannofossils | | | | Calcareous Grain |
| | Feldspars | | Foraminifers | | | | Sapropelic Grain |
| | Micas | | Siliceous Grain | | | | Mn Nodules/ Crusts |
| | Ferromagnesian Minerals | | Diatom | | | | Pyrite Grain |
| | Glauconite | | Radiolarians | | | | Opaque Grain |
| | Clay Minerals | | Sillicoflagellates | | | | |
| | Zeolites | | Sponge Spicule | | | | |
| | Heavy Minerals | | | | | | |
| | Pyrite | | | | | | |
| | Phospholite | | | | | | |
| | Aragonite | | Neritic Grain | | | | |
| | Calcite | | Ooid | | | | |
| | Oolites | | Spherical Particles | | | | |
| | Lithic Grain | | Elliptical Particles | | | | |
| | Sedimentary Lithic Grain | | Bioclast | | | | |
| | Igneous Lithic Grain | | Molluscan | | | | |
| | Metamorphic Lithic Grain | | Algal | | | | |
| | | | Pellet | | | | |
| | | | Molluscs | | | | |
| | | | Echinoderms | | | | |
| | | | Others | | | | |
| | Volcaniclastic Grain | | Intraclast | | | | |
| | Scoria / Pumice | | Carbonate Rock Fragment | | | | |
| | Scoria | | Peloid | | | | |
| | Pumice | | Pisolite | | | | |
| | Volcaniclastic Lithic Grain | | Calcareous Grain | | | | |
| | Picritic Lithic Grain | | Dolomitic Grain | | | | |
| | Basaltic Lithic Grain | | Aragonitic Grain | | | | |
| | Andesitic Lithic Grain | | Sideritic Grain | | | | |
| | Dacitic Lithic Grain | | | | | | |
| | Rhyolitic Lithic Grain | | | | | | |
| | Crystal Grain | | | | | | |
| | Vitric Grain | | | | | | |

Fill percentage (Total must be 100).

Remarks: opagues may be sed lithics

Sediment Smear Slide / Thin Section Description Sheet

Date 12-26-12

Expedition: 338

Observer: RUM

Site: 6002 L

Core: 13X Sect.: 3

Interval: 64

Sediment Name: silty clay

| Smear Slide | Thin Section | Coarse Fraction | Grain Mount |
|-------------|--------------|-----------------|-------------|
| ✓ | | | |

| Granular Sediment | | Chemical Sediment | |
|-------------------|----------------|-------------------|---------|
| Siliciclastic | Volcaniclastic | Peragic | Neritic |
| ✓ | | | |

| Percent Texture | |
|-----------------|------|
| Sand | Clay |
| 20 | 80 |

Select one and check.

Select one and check.

Select one and check.

| Percent | Composition |
|---------|-----------------------------|
| | Siliclastic Grain |
| | Minerals |
| 25 | Quartz |
| | Feldspars |
| F | Micas |
| | Ferromagnesian Minerals |
| | Glauconite |
| 70 | Clay Minerals |
| | Zeolites |
| | Heavy Minerals |
| | Pyrite |
| | Phospholite |
| | Aragonite |
| | Calcite |
| | Oolites |
| | Lithic Grain |
| | Sedimentary Lithic Grain |
| | Igneous Lithic Grain |
| | Metamorphic Lithic Grain |
| | Volcaniclastic Grain |
| | Scoria / Pumice |
| | Scoria |
| | Pumice |
| | Volcaniclastic Lithic Grain |
| | Picritic Lithic Grain |
| | Basaltic Lithic Grain |
| | Andesitic Lithic Grain |
| | Dacitic Lithic Grain |
| | Rhyolitic Lithic Grain |
| | Crystal Grain |
| | Vitric Grain |

| Percent | Pelagic Grain | Composition |
|---------|-------------------------|-------------|
| | Calcareous Grain | |
| S | Nannofossils | |
| F | Foraminifers | |
| | Siliceous Grain | |
| | Diatom | |
| | Radiolarians | |
| | Silicoflagellates | |
| | Sponge Spicule | |
| | Neritic Grain | |
| | Ooid | |
| | Spherical Particles | |
| | Elliptical Particles | |
| | Bioclast | |
| | Molluscan | |
| | Algal | |
| | Pellet | |
| | Molluscs | |
| | Echinoderms | |
| | Others | |
| | Intraclast | |
| | Carbonate Rock Fragment | |
| | Peloid | |
| | Pisolite | |
| | Calcareous Grain | |
| | Dolomitic Grain | |
| | Aragonitic Grain | |
| | Sideritic Grain | |

| Percent | Others | Composition |
|---------|--------------------|-------------|
| | Gypsiferous Grain | |
| | Calcareous Grain | |
| | Sapropelic Grain | |
| | Mn Nodules/ Crusts | |
| | Pyrite Grain | |
| | Opaque Grain | |

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 12-26-12

Expedition: 338

Observer: KLM

Site: 0002 L Core: 13X Sect: 6

Interval: 15

Sediment Name: fine ash

| | | | | | | | |
|-------------|---|--------------|--|-----------------|--|-------------|--|
| Smear Slide | ✓ | Thin Section | | Coarse Fraction | | Grain Mount | |
|-------------|---|--------------|--|-----------------|--|-------------|--|

Select one and check.

| Granular Sediment | | Chemical Sediment | |
|-------------------|---|-------------------|--|
| Siliciclastic | ✓ | Volcaniclastic | |
| Peragic | | Neritic | |

Select one and check.

| Percent Texture | |
|-----------------|----|
| Sand | 10 |
| Silt | 90 |
| Clay | |

Select one and check.

| Percent | Composition |
|---------|-----------------------------|
| | Siliclastic Grain |
| | Minerals |
| 5 | Quartz |
| | Feldspars |
| | Micas |
| | Ferromagnesian Minerals |
| | Glauconite |
| | Clay Minerals |
| | Zeolites |
| | Heavy Minerals |
| | Pyrite |
| | Phospholite |
| | Aragonite |
| | Calcite |
| | Oolites |
| | Lithic Grain |
| | Sedimentary Lithic Grain |
| | Igneous Lithic Grain |
| | Metamorphic Lithic Grain |
| | Volcaniclastic Grain |
| | Scoria / Pumice |
| | Scoria |
| 10 | Pumice |
| | Volcaniclastic Lithic Grain |
| | Picritic Lithic Grain |
| | Basaltic Lithic Grain |
| | Andesitic Lithic Grain |
| | Dacitic Lithic Grain |
| | Rhyolitic Lithic Grain |
| | Crystal Grain |
| 85 | Vitric Grain |

| Percent | Composition |
|---------|-------------------------|
| | Pelagic Grain |
| | Calcareous Grain |
| | Nannofossils |
| | Foraminifers |
| | Siliceous Grain |
| | Diatom |
| | Radiolarians |
| | Silicoflagellates |
| | Sponge Spicules |
| | Neritic Grain |
| | Ooid |
| | Spherical Particles |
| | Elliptical Particles |
| | Bioclast |
| | Molluscan |
| | Algal |
| | Pellet |
| | Molluscs |
| | Echinoderms |
| | Others |
| | Intraclast |
| | Carbonate Rock Fragment |
| | Peloid |
| | Pisolite |
| | Calcareous Grain |
| | Dolomitic Grain |
| | Aragonitic Grain |
| | Sideritic Grain |

Fill percentage (Total must be 100).

Remarks: