

| Drilling disturb. | Color | Grain-size | | Sed. struct. / contact | Bioturb. | Samples | Comments | Logged by: ED | Date: 25/12/11 |
|-------------------|------------------|------------|------|------------------------|----------|---------|---|------------------|-------------------|
| | | Avg. | Max. | | | | | | |
| -- 0 -- | | | | | | | | | |
| -- 10 -- | 2.5Y 4/2 ↓ | clay | m.s. | | 3 ↓ | | reddish ⊕ <u>qu</u> few small shell frags | | |
| -- 20 -- | | | | | | | | | |
| -- 30 -- | | | | | | | | | |
| -- 40 -- | | | | | | | | | |
| -- 50 -- | | | | | | | | | |
| -- 60 -- | | | | | | | | | |
| -- 70 -- | | | | | | | | | |
| -- 80 -- | | | | | | | | | |
| -- 90 -- | | | | | | | | | |
| -- 100 -- | | | | | | | | | |
| -- 110 -- | | | | | | | | | |
| -- 120 -- | | | | | | | | | |
| -- 130 -- | | | | | | | | | |
| -- 140 -- | | | | | | | | | |
| -- 150 -- | | | | | | | | | |

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

339-U1389C-9H-2-A_SHLF3582411_20111225165020_.tif
 Expedition 339: Mediterranean Outflow

| Drilling disturb. | Color | Grain-size | | Sed. struct. / contact | Bioturb. | Samples | Comments | Logged by: | Date: |
|----------------------|------------------|------------|------|------------------------------|----------|---------|--|------------|----------|
| | | Avg. | Max. | | | | | ED | 25/12/11 |
| -- 0 -- | | | | | | | | | |
| -- 10 -- | 2.5Y 4/2 ↓ | clay | m.s. | | 3 ↓ | | reddish ① <u>NUD</u> few small shell frags | | |
| -- 20 -- | | | | | | 20 SS | Calcareous Mud | | |
| -- 30 -- | | | | | | | | | |
| -- 40 -- | | | | | | | | | |
| -- 50 -- | | | | | | | | | |
| -- 60 -- | | | | | | | | | |
| -- 70 -- | | | | | | | | | |
| -- 80 -- | | | | | | | | | |
| -- 90 -- | | | | | | | | | |
| -- 100 -- | | | | | | | | | |
| -- 110 -- | | | | | | | | | |
| -- 120 -- | | | | | | | | | |
| -- 130 -- | | | | | | | | | |
| -- 140 -- | | | | | | | | | |
| -- 150 -- | | | | | | | | | |

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Expedition 339: Mediterranean Outflow

| Drilling disturb. | Color | Grain-size | | Sed. struct. / contact | Bioturb. | Samples | Comments | Logged by: | Date: |
|-------------------|--------------------|------------|------|------------------------|----------|---------|---|------------|----------|
| | | Avg. | Max. | | | | | EO | 25/12/11 |
| -- 0 -- | | | | | | | 0-24 cm: reddish | | |
| -- 10 -- | 2.54 4/2 | | | | 3 ↓ | | 12: shell frags 18/19: gastropod shell frags | | |
| -- 20 -- | reddish 24 | | | | | | 24: gradational color change | | |
| -- 30 -- | | | | | | | | | |
| -- 40 -- | CLAY 107 4/2 | clay | w.s. | | | | ⊙ <u>NUD</u> | | |
| -- 50 -- | | | | | | | | | |
| -- 60 -- | | | | | | | | | |
| -- 70 -- | | | | | | | | | |
| -- 80 -- | | | | | | | 80: shell frags 83-85 cm: greenish nit-filled burrows | | |
| -- 90 -- | | | | | | | | | |
| -- 100 -- | | | | | | | 101 | | |
| -- 110 -- | 2.54 4/4 6 | | | grad. contact | | | reddish | | |
| -- 120 -- | | clay | w.s. | wet/low | | | ⊙ SILTY NUD 121-123: stick-filled burrows small shell frags and sand-filled burrows | | |
| -- 130 -- | reddish | | | | | | | | |
| -- 140 -- | | | | | | | | | |
| -- 150 -- | | | | | | | | | |

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| Drilling disturb. | Color | Grain-size | | Sed. / struct. / contact | Bioturb. | Samples | Comments | Logged by: | Date: |
|-------------------|-------------|------------|------|--------------------------|----------|-----------------------|---|------------|----------|
| | | Avg. | Max. | | | | | ED | 25/12/11 |
| -- 0 -- | | | | | | | 3 shell frags | | |
| -- 10 -- | 2.5Y 4/1 | | | | | | 7 shell frags reddish ② SILTY MUD | | |
| -- 20 -- | | clay | m.s. | mottled | | | 23-24 shell frags | | |
| -- 30 -- | | | | | | | | | |
| -- 40 -- | | | | | | | | | |
| -- 50 -- | | | | sharp + inclined contact | lined | XRD 52-53 56 SS cm | black sand SAND (2 cm) normal grading ↑ NUD | | |
| -- 60 -- | | | | sharp + inclined contact | lined | | SAND (2 cm) normal grading ↳ 2 turbidites? 56 S.S. Silty Sand w/ Bio Carb | | |
| -- 70 -- | | | | | | | | | |
| -- 80 -- | | clay | m.s. | mottled | | | reddish ② SILTY MUD small shell frags | | |
| -- 90 -- | | | | | | | | | |
| -- 100 -- | | | | | | | | | |
| -- 110 -- | | | | | | | | | |
| -- 120 -- | | | | | | | 122 color change greenish | | |
| -- 130 -- | 10Y 4/1 | | | | | | | | |
| -- 140 -- | | | | | | | | | |
| -- 150 -- | | | | | | | | | |

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|-------------------|-----------------|------------|------|--------------------------|----------|---------|---|------------|----------|
| | | Avg. | Max. | | | | | ED | 25/12/11 |
| | CLAY 104 4/1 | clay | m.s. | wotted biot. contact | 3 ↓ | | ② SILTY MUD | | |
| | | silt | m.s. | wotted | | | SANDY MUD small shell frags | | |
| | | | | biot. contact | | | | | |
| | | clay | m.s. | wotted | | | ② SILTY MUD | | |
| | | | | biot. contact | | | | | |
| | | silt | m.s. | wotted | | | SANDY MUD small shell frags | | |
| | | | | biot. contact | | | | | |
| | | clay | m.s. | wotted | | | ② SILTY MUD small shell frags | | |
| | | | | inclined, biot. contact | | | 78/84 inclined contact → disturbance? | | |
| | | silt | m.s. | | | SS | 96 cm SANDY MUD small shell frags Sandy Mud w/ Bio Corb | | |
| | | | | inclined contact | | | 102/112 inclined contact? | | |
| | | clay | m.s. | sharper inclined contact | | | ② SILTY MUD + pocket of silt (black) | | |
| | | clay | m.s. | | | | ② SILTY MUD | | |
| | | | | grad. contact | | | 130 | | |
| | | clay | m.s. | | | | 124/135: echinoderm spine? | | |
| | | | | | | | ① MUD | | |

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|-------------------|-------------|------------|------|------------------------|----------|---------|---|------------------|-------------------|
| | | Avg. | Max. | | | | | | |
| -- 0 -- | | | | | | | slit-filled burrow | | |
| | GREY 104 | | | | 3 | | | | |
| -- 10 -- | 4/2 ↓ | | | | ↓ | | | | |
| -- 20 -- | | | | | | | | | |
| | | clay | w.s. | | | | 25 shell 22 fms a little bit more silty | ① NUD | |
| -- 30 -- | | | | | | | | | |
| -- 40 -- | | | | | | | 40 small shell fms | | |
| -- 50 -- | | | | | | | | | |
| | | | | | | | 54: crack | | |
| -- 60 -- | | | | | | | | | |
| -- 70 -- | | | | biot. contact | | | 72 large vertical burrow. | | |
| | | clay | w.s. | wotted | | | | ① SILTY NUD | |
| -- 80 -- | | | | | | | small shell fms | | |
| | | | | grad. contact | | | 87 | | |
| -- 90 -- | | | | | | | | | |
| -- 100 -- | | | | | | | | | |
| | | clay | w.s. | | | | | ① NUD | |
| -- 110 -- | | | | | | | 105: crack | | |
| -- 120 -- | | | | | | | | | |
| -- 130 -- | | | | | | | | | |
| -- 140 -- | | | | | | | | | |
| -- 150 -- | | | | | | | | | |

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| Drilling disturb. | Color | Grain-size | | Sed. struct. / contact | Bioturb. | Samples | Comments | Logged by: | Date: |
|-------------------|---------|------------|------|------------------------|----------|---------|--|------------|----------|
| | | Avg. | Max. | | | | | ED | 25/12/11 |
| -- 0 -- | grey | | | | | | | | |
| | 10Y 4/1 | clay | m.s. | | 2 | | | | |
| -- 10 -- | | | | | ↓ | | | | |
| | | | | ? | | | 16: crack | | |
| -- 20 -- | | clay | m.s. | biot. contact | | | 21 | | |
| | | | | | | | | | |
| -- 30 -- | | | | | | | | | |
| | | | | | | | | | |
| -- 40 -- | | | | biot. contact | | | 41 | | |
| | | | | | | | 42 shell frags | | |
| -- 50 -- | | | | | | | | | |
| | | | | | | | | | |
| -- 60 -- | | clay | m.s. | | | | | | |
| | | | | | | | | | |
| -- 70 -- | | | | | | | | | |
| | | | | | | | | | |
| -- 80 -- | | | | biot. contact | | | 80 | | |
| | | | | | | | | | |
| -- 90 -- | | clay | m.s. | | | | | | |
| | | | | | | | | | |
| -- 100 -- | | | | biot. contact | | | 102 | | |
| | | | | | | | | | |
| -- 110 -- | | clay | m.s. | mottled | | | 106: scalloped frnt 107) <u>SILTY MUD</u> 109) vertical burrow with black diffuse color. | | |
| | | | | | | | | | |
| -- 120 -- | | | | | | | | | |
| | | | | | | | | | |
| -- 130 -- | | | | | | | | | |
| | | | | | | | | | |
| -- 140 -- | | | | | | | | | |
| | | | | | | | | | |
| -- 150 -- | | | | | | | | | |

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| Drilling disturb. | Color | Grain-size | | Sed. struct. / contact | Bioturb. | Samples | Comments | Logged by: | Date: |
|-------------------|---------------------|------------|------|----------------------------|----------|---------|---|------------|----------|
| | | Avg. | Max. | | | | | | |
| -- 0 -- | grey loam 1/2 | silt | m.s. | washed | 3 | | | EO | 25/12/11 |
| -- 10 -- | | clay | m.s. | washed inclined contact | ↓ | | 6 sandy mud small shell frags + micras? inclined contact → disturbance? | | |
| -- 20 -- | | | | grad. contact | | | 16 | | |
| -- 30 -- | | clay | m.s. | | | | 23: shell frag ① mud | | |
| -- 40 -- | | | | | | | | | |
| -- 50 -- | | | | | | | | | |
| -- 60 -- | | | | | | | | | |
| -- 70 -- | | | | | | | | | |
| -- 80 -- | | | | | | | | | |
| -- 90 -- | | | | | | | | | |
| -- 100 -- | | | | | | | | | |
| -- 110 -- | | | | | | | | | |
| -- 120 -- | | | | | | | | | |
| -- 130 -- | | | | | | | | | |
| -- 140 -- | | | | | | | | | |
| -- 150 -- | | | | | | | | | |

MAJOR LITHOLOGY:

MINOR LITHOLOGY: