

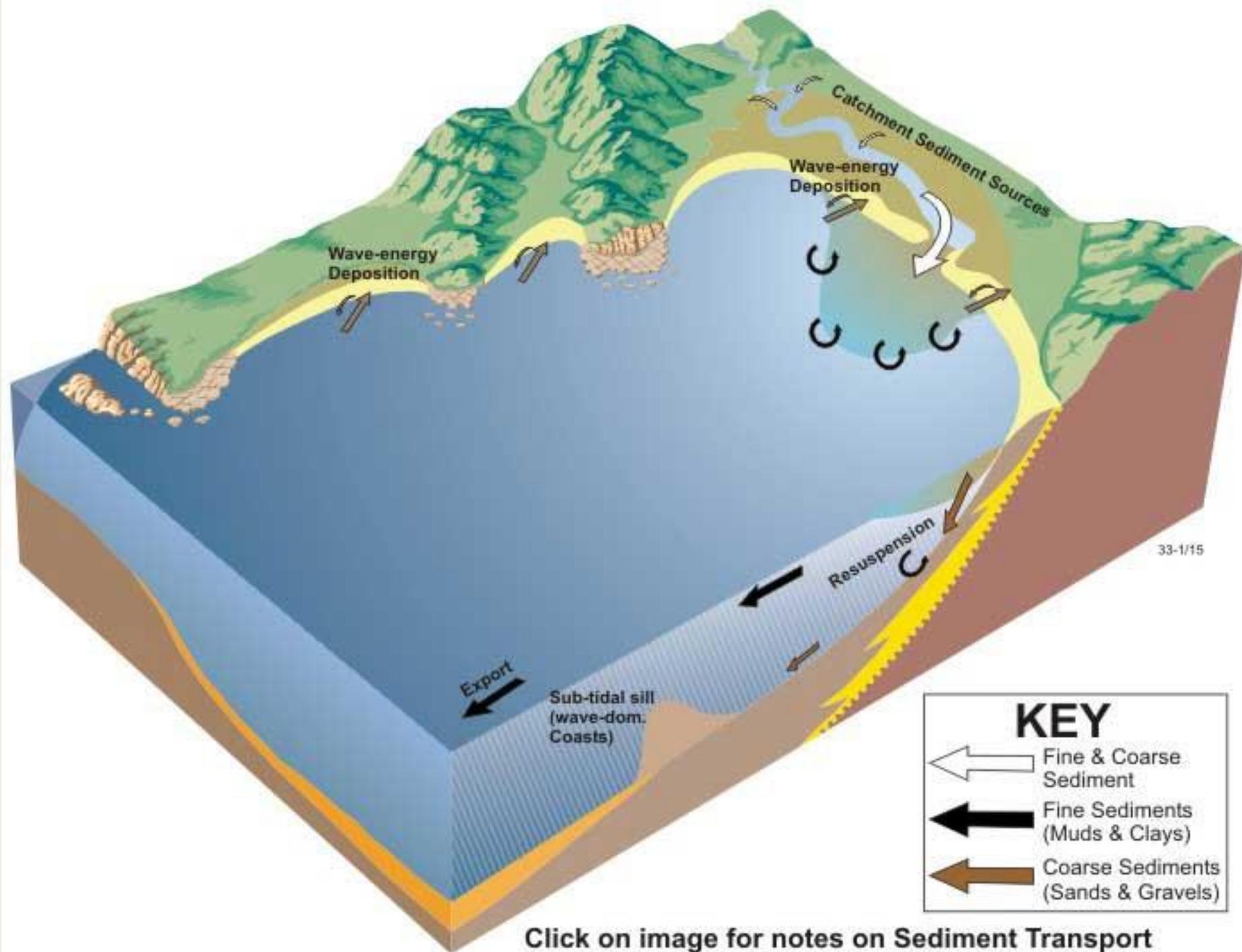


JEM 458

DENİZ JEOLOJİSİ

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10. Hafta



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| | relative importance | idealized composition |
|------------------------------|---------------------|---|
| Quarz | +++ | SiO ₂ |
| Calcite | + | CaCO ₃ |
| Dolomite | + | (Ca,Mg)CO ₃ |
| Feldspars | | |
| Plagioclase | ++ | (Na,Ca)[Al(Si,Al)Si ₂ O ₆] |
| Orthoclase | ++ | K[AlSi ₃ O ₆] |
| Muscovite | ++ | KAl ₂ [(AlSi ₃)O ₁₀](OH) ₂ |
| Clay minerals | | |
| Kaolinite | +++ | Al ₂ Si ₂ O ₅ (OH) ₄ |
| Mica Group | | |
| e.g. Illite | +++ | K _{0.8-0.9} (Al,Fe,Mg) ₂ (Si,Al) ₄ O ₁₀ (OH) ₂ |
| Chlorite Groupe | | |
| e.g. Chlorite s.s. | +++ | (Mg _{3-y} Al ₁ Fe _y)Mg ₃ (Si _{4-x} Al) ₄ O ₁₀ (OH) ₆ |
| Smektite Groupe | | |
| e.g. Montmorillonite | +++ | Na _{0.33} (Al _{1.67} Mg _{0.33})Si ₄ O ₁₀ (OH) ₂ ·nH ₂ O |
| Heavy minerals, e. g. | | |
| Amphiboles | | |
| e.g. Hornblende | + | Ca ₂ (Mg,Fe) ₄ Al[(Si ₇ ,Al ₂₂)](OH) ₂ |
| Pyroxene | | |
| e.g. Augite | + | (Ca,Na)(Mg,Fe,Al)[(Si,Al) ₂ O ₆] |
| Magnetite | - | Fe ₃ O ₄ |
| Ilmenite | - | FeTiO ₃ |
| Rutile | - | TiO ₂ |
| Zircon | - | ZrO ₂ |
| Tourmaline | - | (Na,Ca)(Mg,Fe,Al,Li) ₃ Al ₆ (BO ₃) ₃ Si ₆ O ₁₈ (OH) ₄ |
| Garnet | | |
| e.g. Grossular | - | Ca ₃ Al ₂ (SiO ₄) ₃ |