

Handbook Recommendation Evaluation Form

Name of reviewer (optional): _____

Recommendations

AGREE

NO OPINION

DISAGREE

Comments

(please mark your opinion with X)

If you disagree with KMM and KLM recommendations please explain why.

(KMM and KLM recommendations in gray)

1. Terrigenous Sediments

1A - Use Udden-Wentworth Scale

1B - Clarify use of term clay

1C - Use of Shepard Diagram

1C.1 Include unmodified (Fig. 1A)

1C.2 Include Slightly Modified

Options (Figs. 1B,C)

1C.3 Include Significantly Modified

Options (Figs. 1D, E, F, G)

2. Volcaniclastic Sediments (marine)

2.A Use nongenetic terminology for sediment description in VCD and Barrel Sheets

2. B Use genetic terminology for preliminary interpretation in report if confident on origin and transport mechanism of volcaniclastic intervals

3. Glacial (high latitude) sediments

1. Add descriptive options for poorly sorted sediments

2.A Use nongenetic terminology for sediment description in VCD and Barrel Sheets

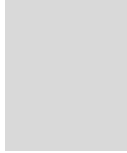
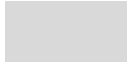
2. B Use genetic terminology for preliminary interpretation in report if confident on origin and transport mechanism of sediment

4. Neritic Carbonate Sediments

1. Continue use of Dunham classification with Embry/Kloyan modification

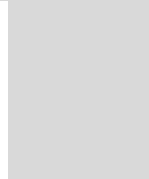
5. Biosiliceous Pelagic Sediments

1. Continue to use MG approach emphasizing grain assemblage
2. Use terms radiolarite, diatomite, spiculite
- 3A. Use hand specimen terms porcellanite and chert for lithified
- 3B. Use radiolarian, diatom and spicule as modifiers for chert/porcellanite



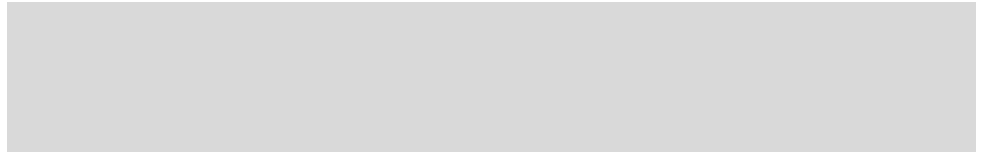
6. Calcareous Pelagic Sediments

1. Continue to use MG approach emphasizing grain assemblage
2. Use minimum total carbonate of 50% for ooze(chalk) vs. mud(mudstone) boundary
2. Use minimum total carbonate of 60% for ooze(chalk) vs. mud(mudstone) boundary



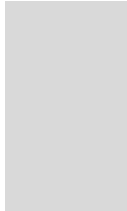
7. Other Rock Type Comments?

1. Organic-rich
2. Serpenticlastic
3. Evaporitic
4. Metaliferous



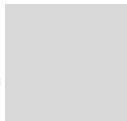
8. Classification Diagram Options

- 1A. Include MG diagram (Fig. 6A)
- 1B. Include Modified MG without mixed sediment (Figs. 6B)
- 1C. Include Modified MG with Ribbon Format (Figs. 6C)
- 1D. Include suggested ternary options (Figs. 6D, 6E)



GENERAL RECOMMENDATIONS

1. Identify and provide sources (references) for methods
- 2A. Use non-genetic terminology in description



- 2B. Reserve genetic terminology for preliminary interpretation in report
- 3. Methods should align with Expedition goals
- 4A. Textural description of sediment should be done of all granular sediments
- 4B. Compositional description should be independent of texture
- 5. MG classification was a good effort but there is no universal scheme for all sediment
- 6. Diagenetic modification should be ignored for purposes of classification, but can be used as modifiers
- 7. Methods are important and need to be updated after the cruise adequately represent what was done on the cruise