




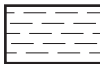



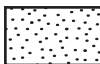



# Logging Reference Sheet - Siliciclastic Rock

## Shading Log Key

### Relative grain size abundance

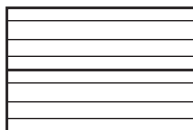
	dominant (> 50%)
	secondary (5-50%)
	minor (< 5%)

## Rock Type

	shale		conglomerate
	siltstone		diamictite
	sandstone		limestone
	breccia		dolostone

## Bedding & Sedimentary Structure Examples

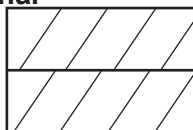
### parallel stratification



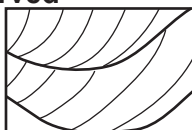
### climbing ripples



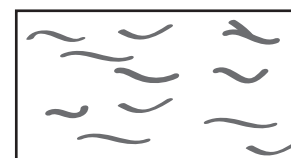
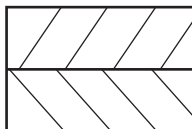
### cross-stratification, planar



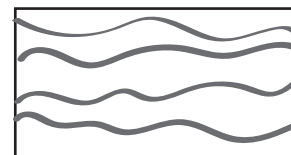
### cross-stratification, curved



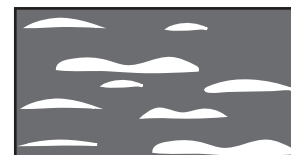
### cross-stratification, bidirectional



lenticular bedding



wavy bedding



flaser bedding

## Sorting

### Very Well

nearly all grains have the same size

### Well Sorted

most grains are in a single grain size class with few outliers

### Moderately Sorted

more than one grain size present but one prevails

### Poorly Sorted

several grain sizes present, none prevail

### Very Poorly Sorted

wide spectrum of different grain sizes

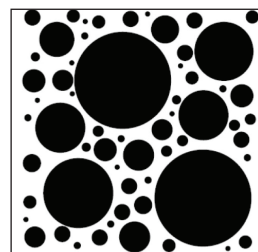
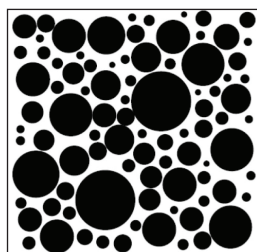
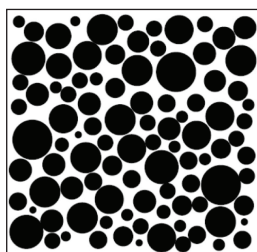
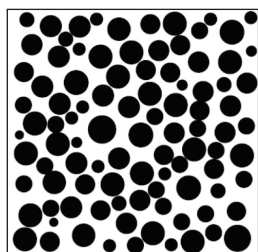
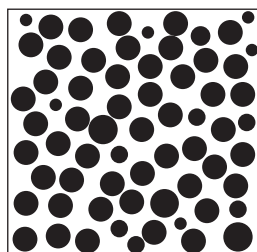


Figure modified from Gary Nichols (2023), *Sedimentology and Stratigraphy*, Third Edition.

## Roundness













	Well rounded	Rounded	Sub-rounded	Sub-angular	Angular	Very angular
Low sphericity						
High sphericity						

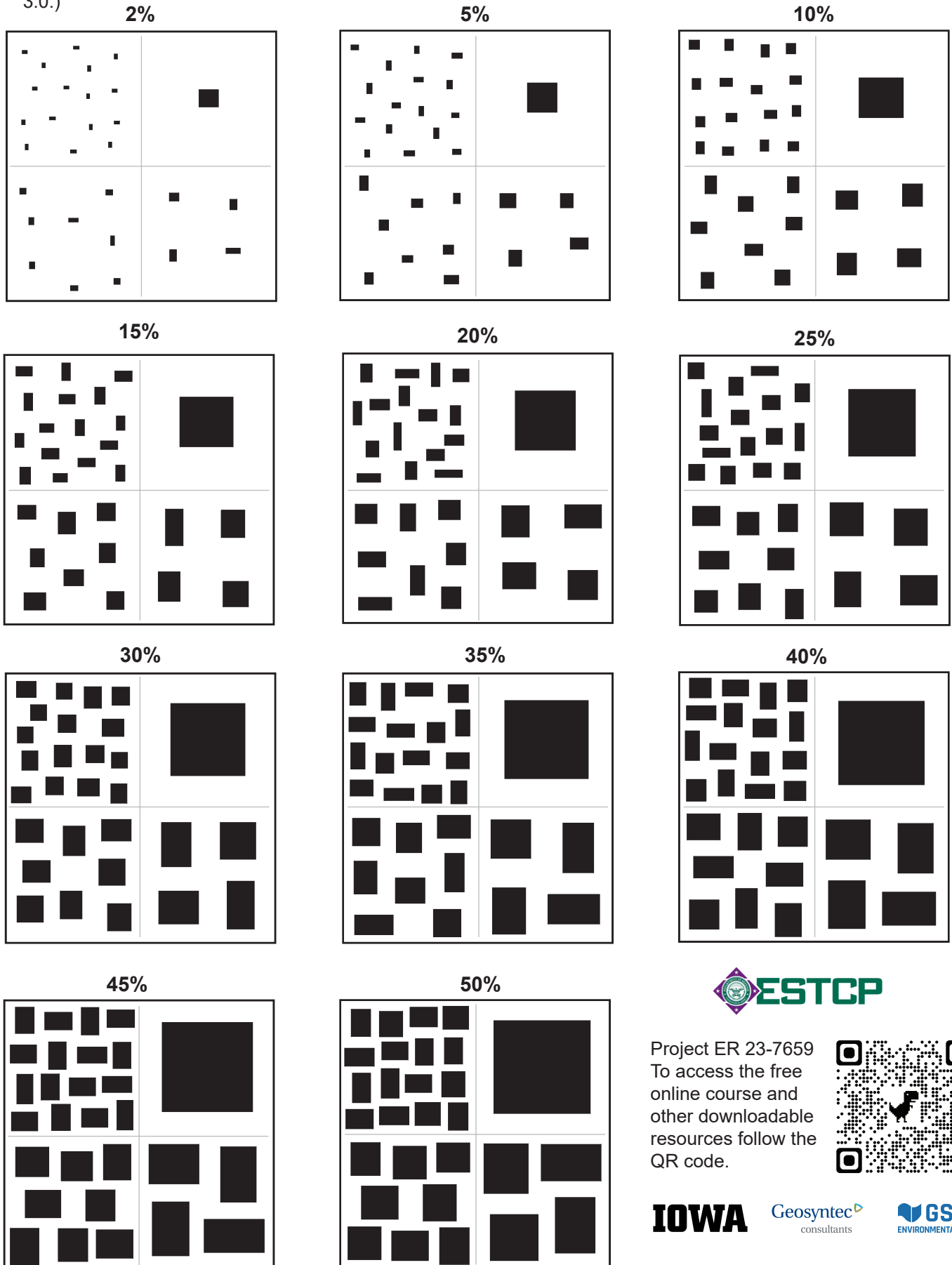
Figure modified from Gary Nichols (2023), *Sedimentology and Stratigraphy*, Third Edition. Classification originally from Pettijohn et al. (1987).

## Cementation Index

- 0 Unconsolidated
- 1 Easily disaggregated, poorly cemented, much visible porosity
- 2 Cannot easily disaggregate, moderately cemented, visible porosity
- 3 No loose grains, well cemented, some visible porosity
- 4 Very well cemented, no visible porosity

## Percent of Area Covered

Within each large box a quadrant contains the same total area covered but contains different object sizes and numbers. (from Schoeneberger et al. 2012, Field book for describing and sampling soils, version 3.0.)



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