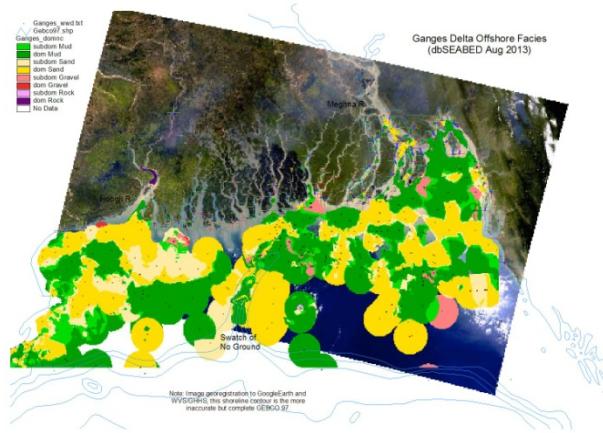


The numeric encoding of FOLK and DOMNC codes for use with GIS grids

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Because grids in GIS have to be numeric, a scheme for representing seafloor textures and bottom-type codes as numbers is required. Below are the specifications of the dbSEABED schemes for the Folk sediment texture and Dominance (alt 'RGSM' rock-gravel-sand-mud) bottom-type codes.

Use the dbSEABED standard legends to produce maps of the numeric-encoded grids. Note that coded grids cannot be interpolated. It is necessary to interpolate the fractions first, then to form the codes.

FOLK (GSM) - FOLK codes summarize sediment textures in terms of percent mud, sand and gravel fractions. They do not refer to the rock presence at a site. Basically, as in '*(slightly sandy) gravelly MUD*' the primary is capitalized, fractionally is lower case, and a slight fraction is in brackets. The coding was invented by Folk (##). There is an extension for sand, silt and clay though that is not used here (too few samples are analyzed sufficiently accurately to warrant it).

| | | | | |
|-----|-------|-----|-----|---|
| 003 | M | 203 | gM | Each numeric code has 3 registers: for gravel, sand, mud. |
| 023 | sM | 230 | gS | |
| 030 | S | 232 | gmS | |
| 032 | mS | 300 | G | For each a 3 denotes it is primary, 2 that it |
| 103 | (g)M | 302 | mG | is X-ly, 1 is slightly present, 0 is negligible. |
| 123 | (g)sM | 320 | sG | |
| 130 | (g)S | 322 | msG | |
| 132 | (g)mS | | | |

DOMNC (RGSM) - This scheme was devised for use in dbSEABED to provide 'executive summary' mappings of the most prevalent bottom type distributions for habitat studies.

| | | |
|------|-----------------|---|
| 3000 | dominant Rck | Method: first to fourth registers (positions in the code) represent rock, gravel, sand, mud respectively. The numbers 2,3 mark each as sub-dominant (50-67%) or dominant (>67%) respectively. |
| 2000 | subdominant Rck | |
| 0300 | dominant Gvl | |
| 0200 | subdominant Gvl | |
| 0030 | dominant Snd | |
| 0020 | subdominant Snd | |
| 0003 | dominant Mud | |
| 0002 | subdominant Mud | |