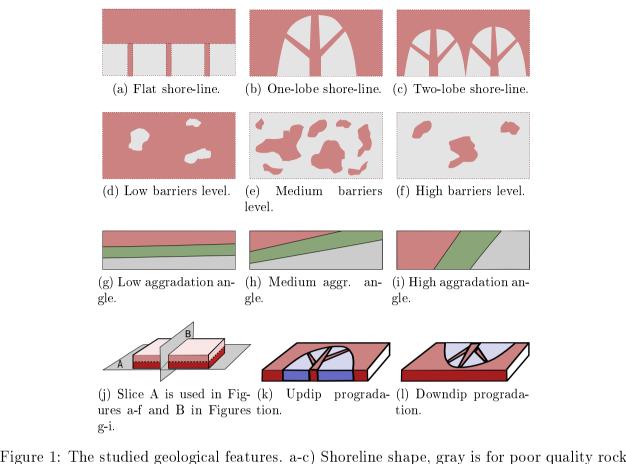
quality of flow simulations.

Figure 1.



multiplier. Gray color is for zero and brown color shows one. g-i) Aggradation angle. k-l) Progradation direction.

Table 1: Marker codes used in the result plots. The code level corresponds to levels in

and brown color resembles a good quality rock. d-f) Barriers level defined by transmissibility

Code	Description	Code level	Feature level
Thickness	Fault	${ m thin/medium/thick}$	${\rm unfaulted/open/close}$
Shape	Lobosity	square/circle/diamond	flat/one-lobe/two-lobe
Size	Barriers	m small/medium/large	$10\% \ / \ 50\% \ / \ 90\%$
Color	Aggradation	blue/green/red	low/medium/high
Case no. counting	Progradation	first half/second half	up-dip / down-dip

 Color
 Aggradation
 blue/green/red
 low/medium/high

 Case no. counting
 Progradation
 first half/second half
 up-dip / down-dip

 We have selected five geological parameters from the SAIGUP project to study the im

parameters span realistic intervals for progradational shallow-marine depositional systems with limited tidal influence. The considered features with the grading levels in each one, are $\stackrel{4}{4}$

pact of heterogeneity on the pressure responses in a typical CO₂ injection problem. These