

Supporting Information

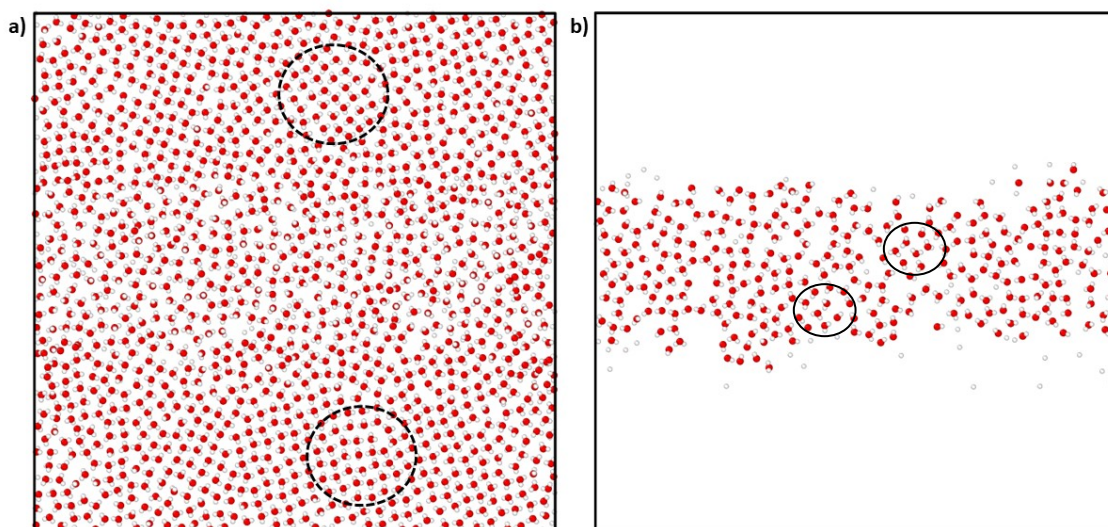


Figure S1: Top view of the snapshots of (a) bottom layer and (b) top layer seen from top in the case of scenario B after equilibration. The black dashed circles show the presence of square ice pattern in these water structures.

Table S1: LJ potential coefficients used for various pair of atoms used in the simulations (* denotes any atom type out of Au, C, O and H)

Atom Pairs	ϵ (meV)	σ (Å)
Au - C	8	3.42
Au - O	25.5	3.6
C - O	6.74	3.17
O - O	4.06	3.19
H - *	0	0