

Figure 1 Three different cones used in the research

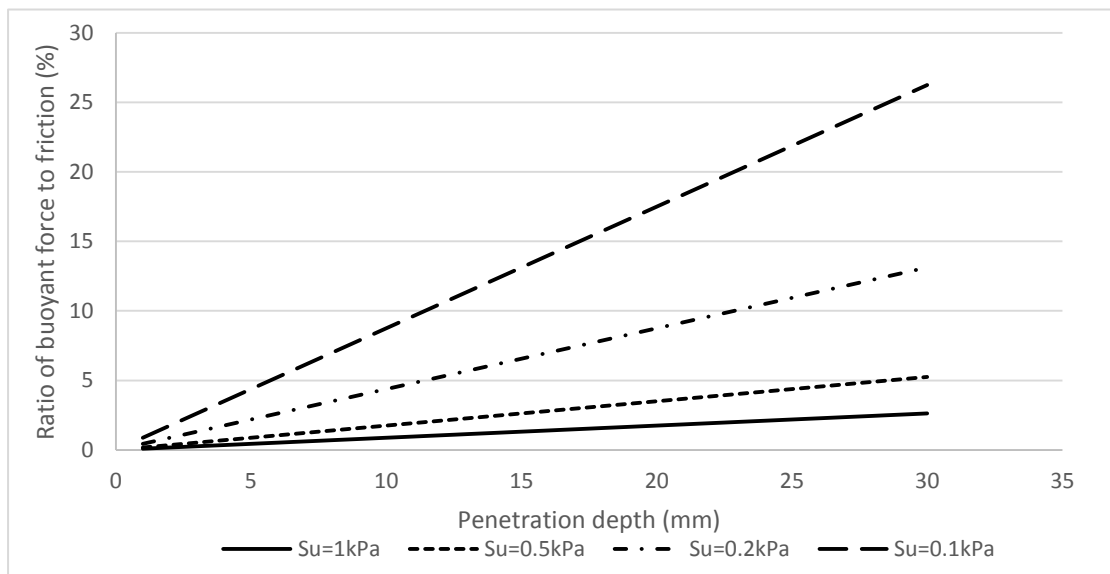
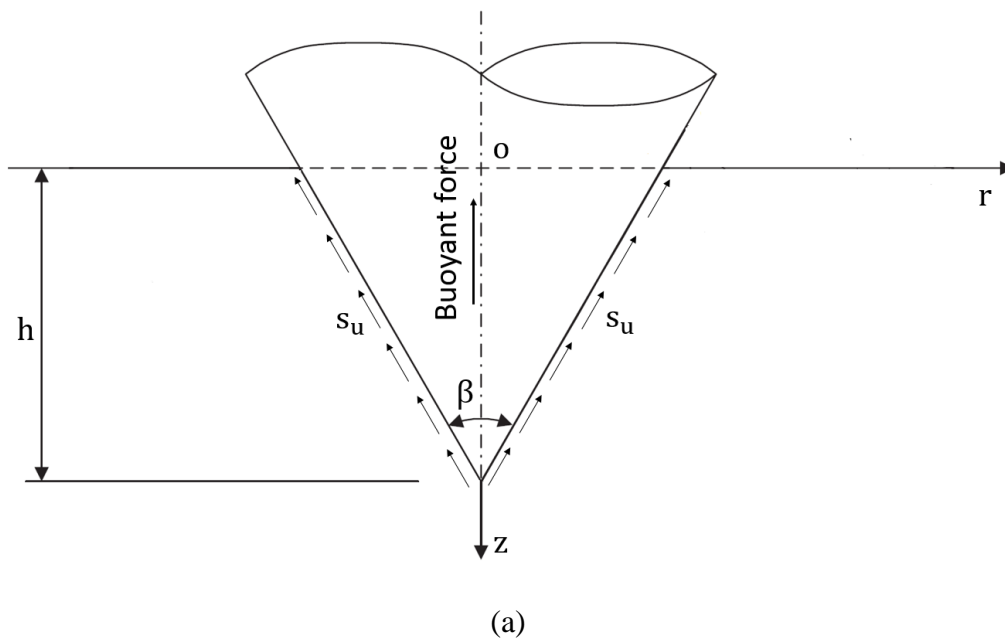
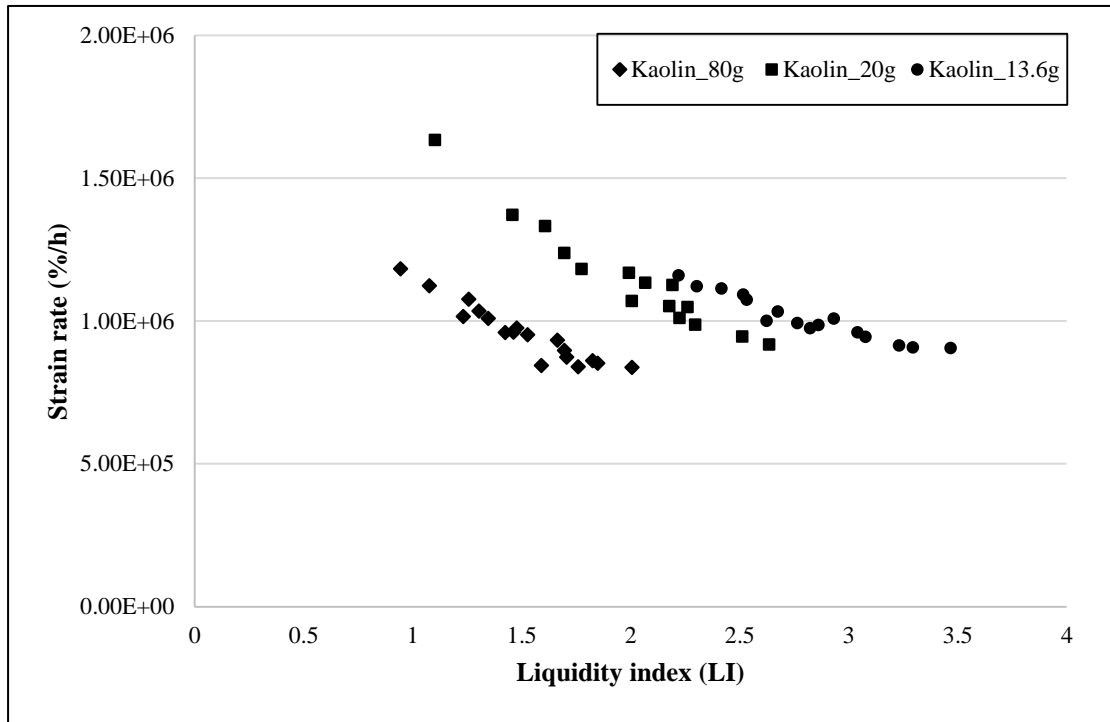
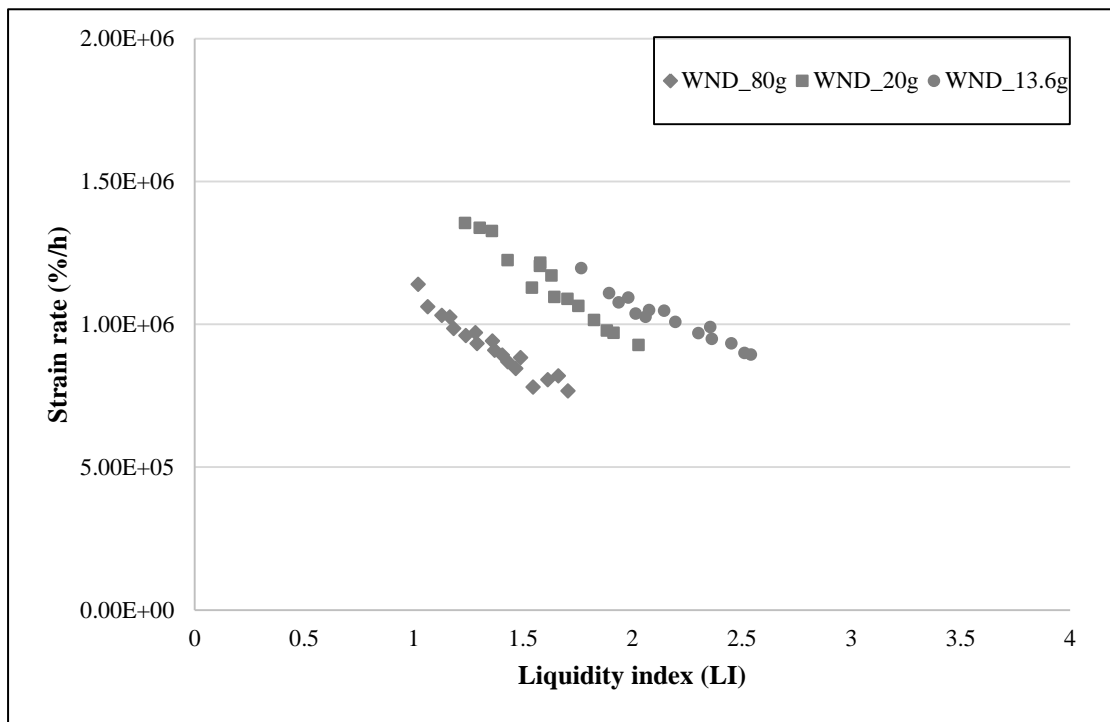


Figure 2. Buoyant effect in fall cone test: (a) simplified schematic diagram of fall cone test; (b) ratio of buoyant force to friction



(a)



(b)

Figure 3. Strain rate in the fall cone test: (a) Kaolin; (b) WND

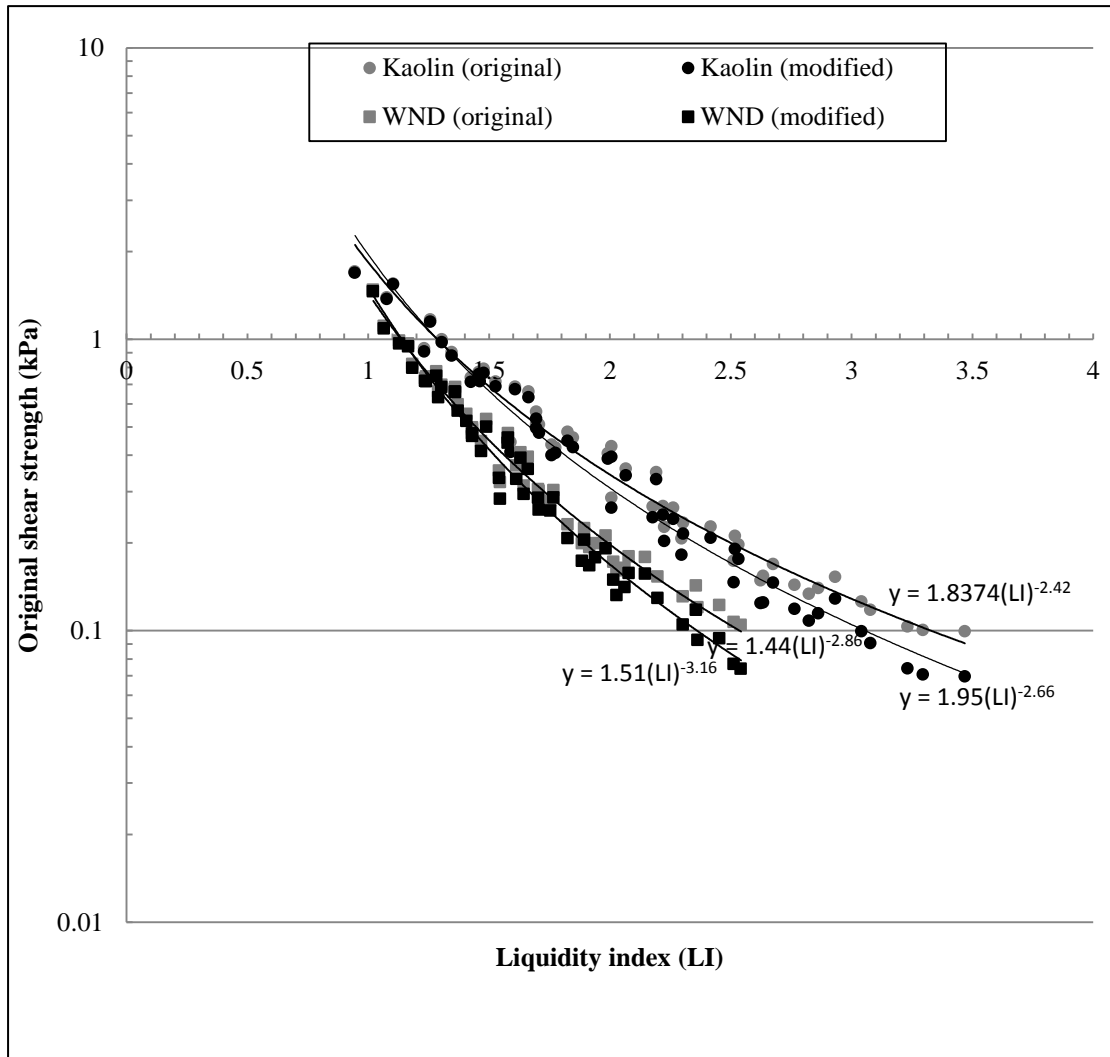
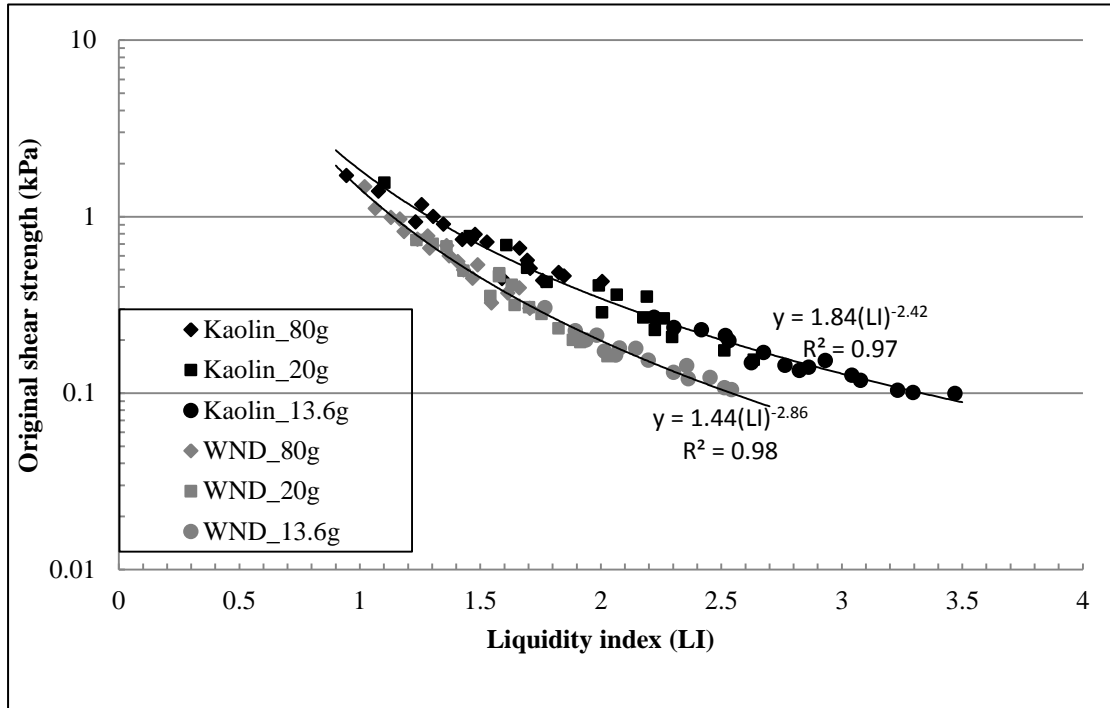
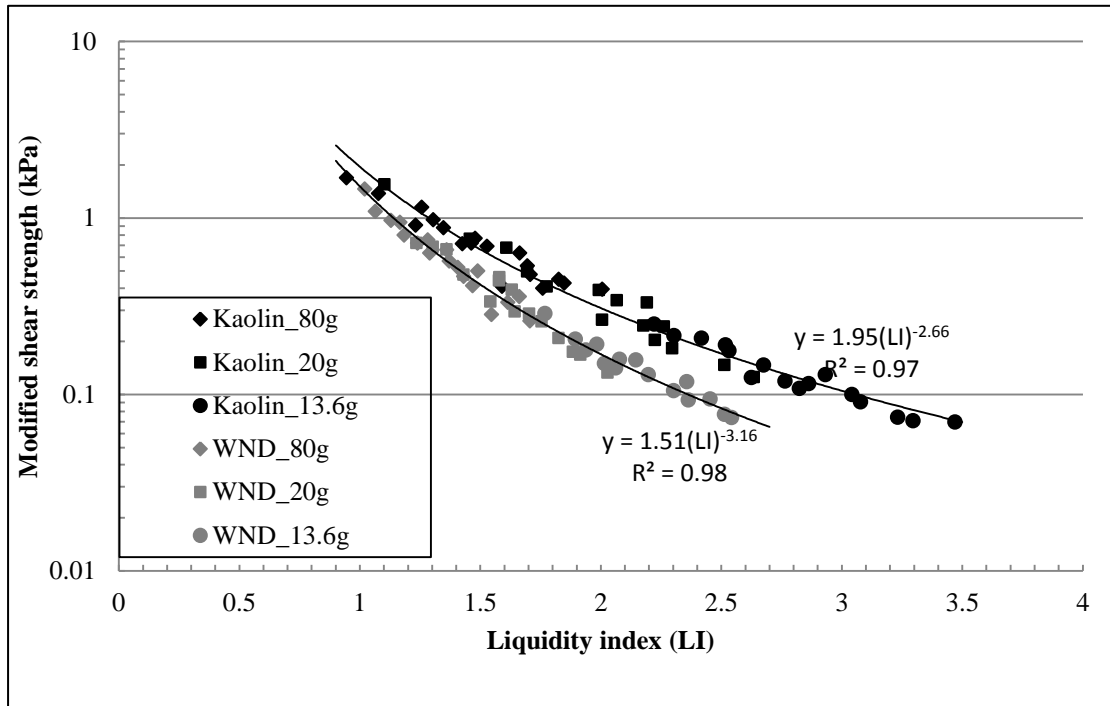


Figure 4. Relationship between undrained shear strength and liquidity index

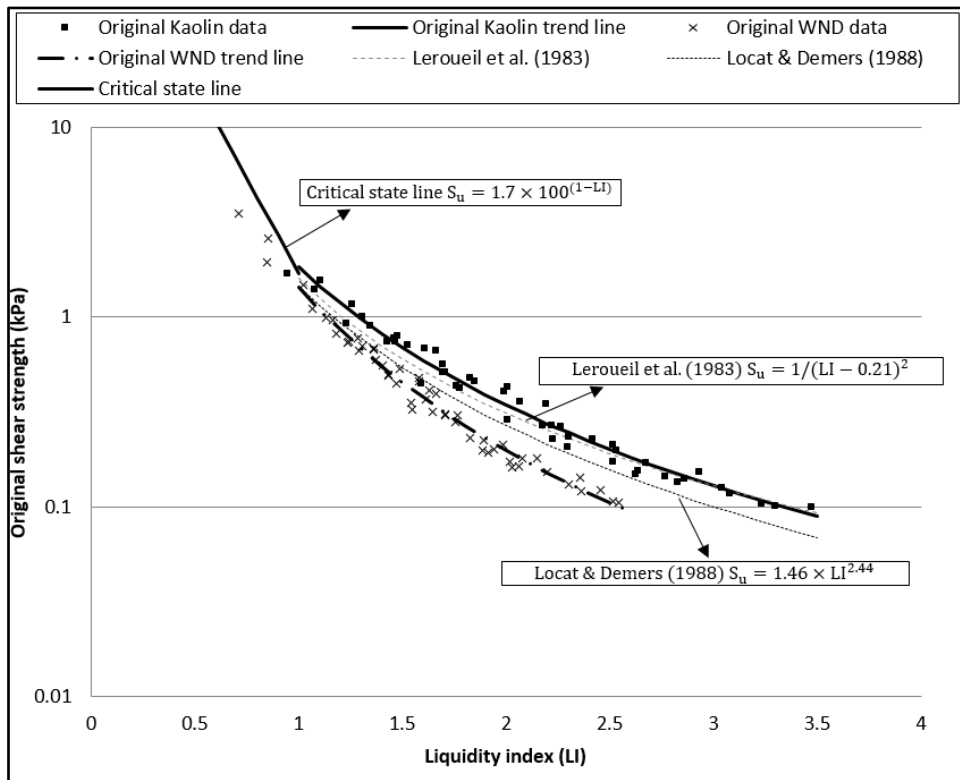


(a) Original shear strength of Kaolin and WND

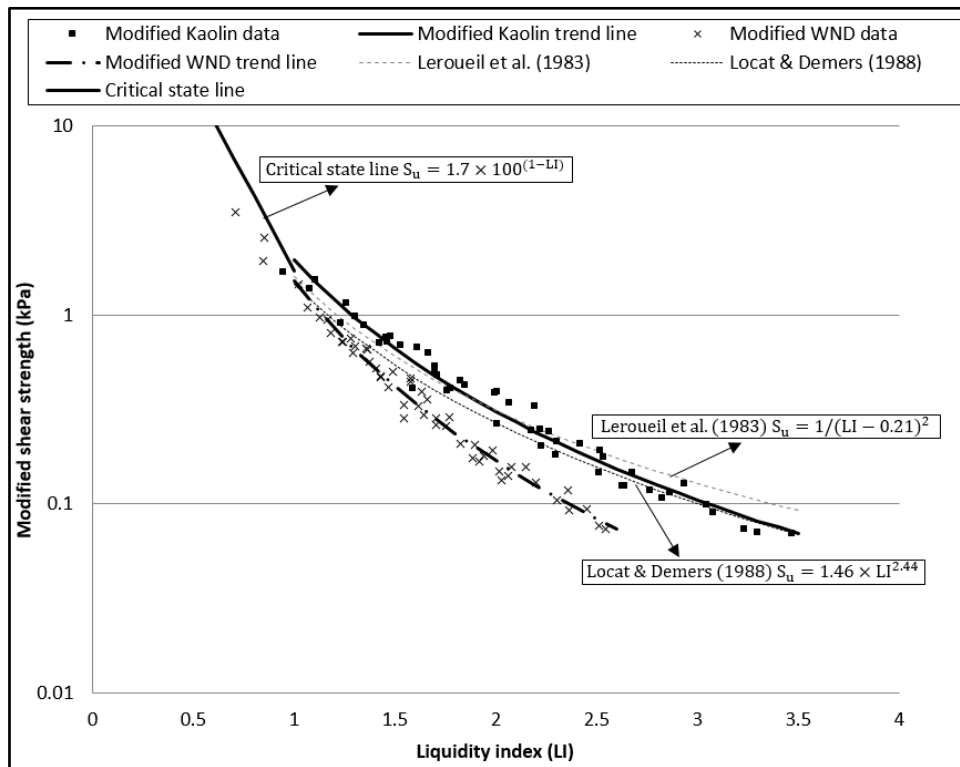


(b) Modified shear strength of Kaolin and WND

Figure 5. Comparison of shear strengths measured using different cones

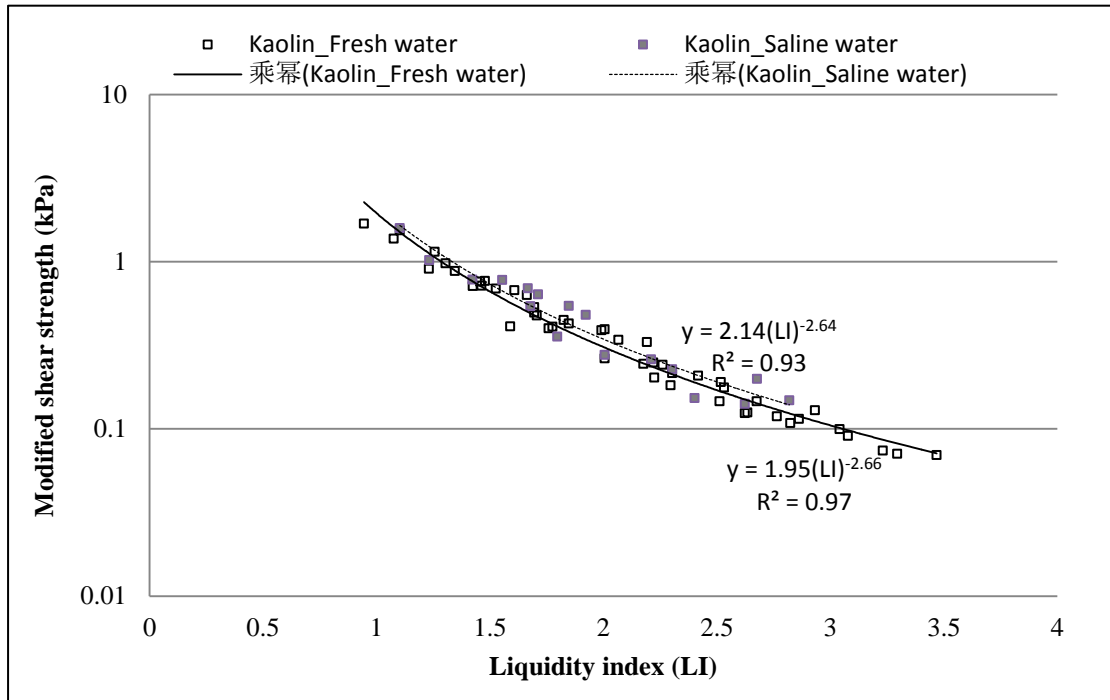


(a)

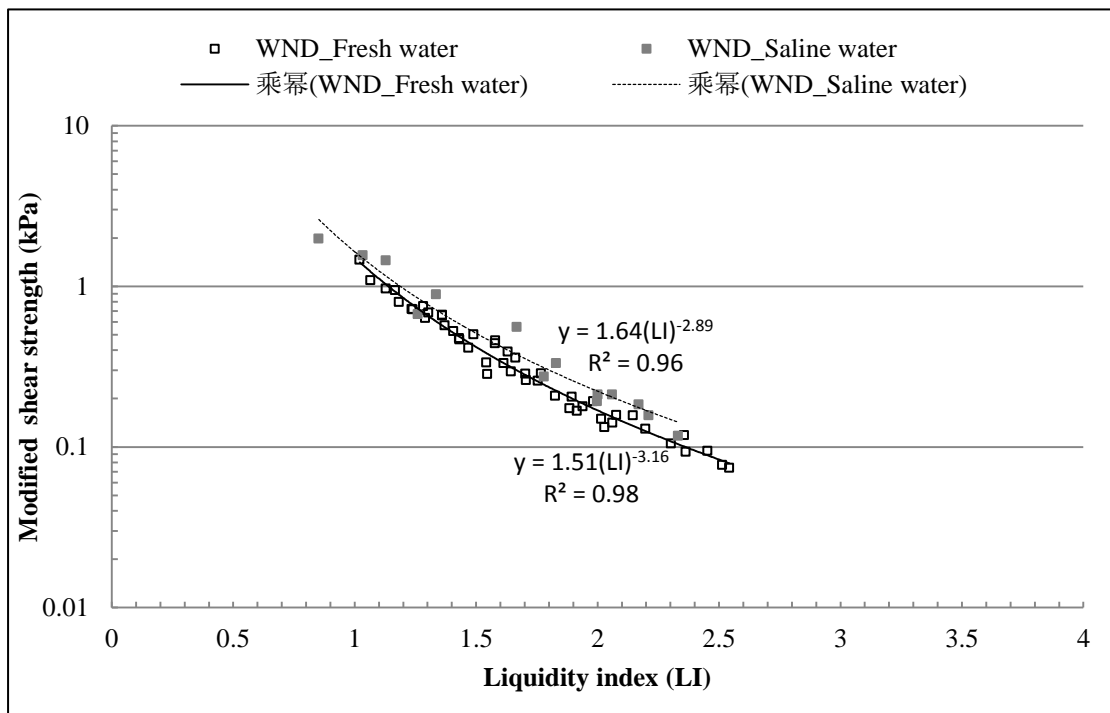


(b)

Figure 6. Comparison between different strength-liquidity index correlations: (a) original data; (b) modified data



(a) Kaolin clay



(b) WND

Figure 7. Comparison of results for the liquidity index and the shear strength of soil mixed with saline water and fresh water

