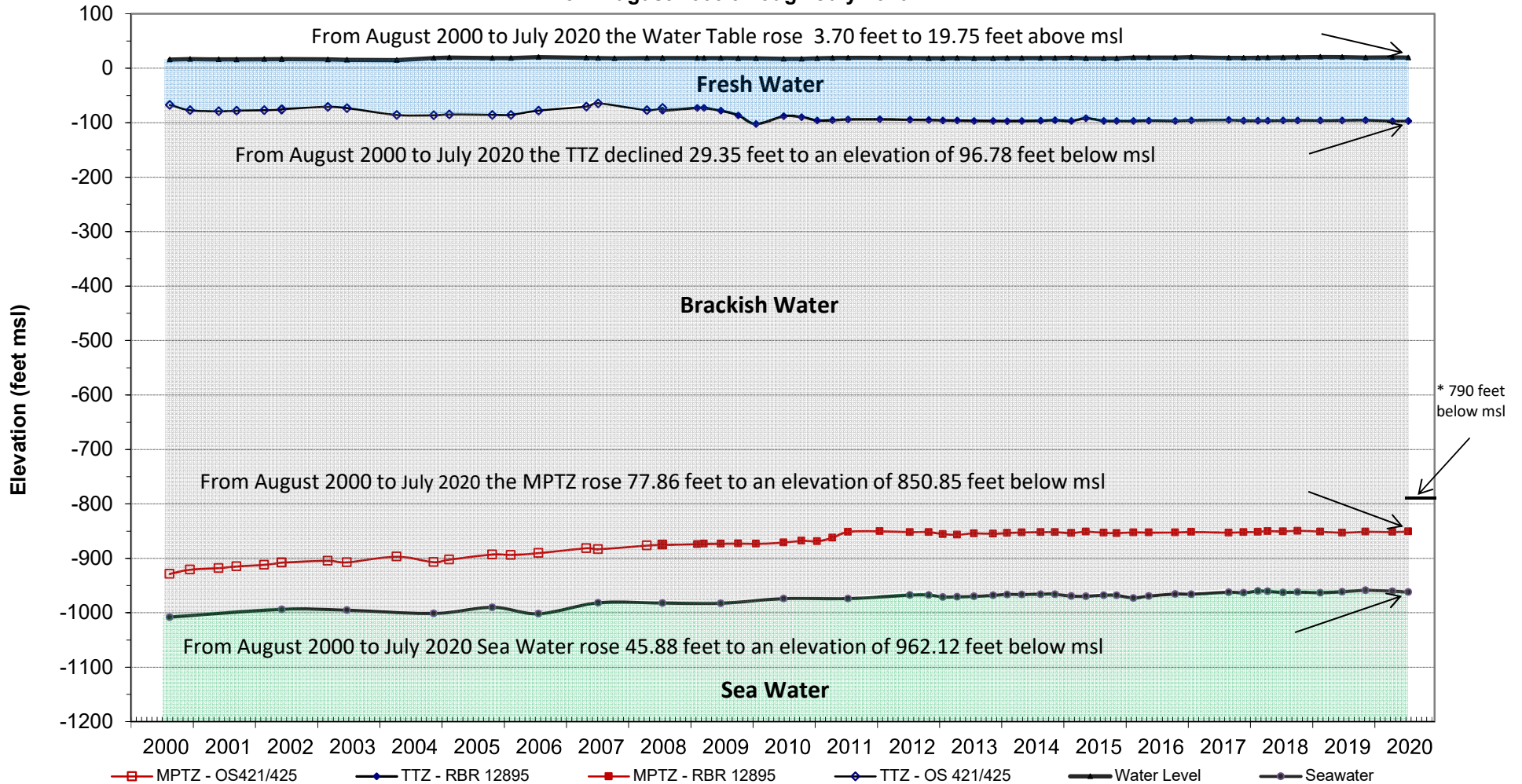


## Halawa Deep Monitor Well, Oahu (3-2253-003)

**Fluctuations in the Water Table, Top of Transition Zone (TTZ), and Midpoint of Transition Zone (MPTZ)  
From August 2000 through July 2020**



Notes: (1) TTZ = 1,000  $\mu\text{S}/\text{cm}$  ( $\sim 220 \text{ mg/L Cl}^-$ ); MPTZ = 25,000  $\mu\text{S}/\text{cm}$  ( $\sim 8,500 \text{ mg/L Cl}^-$ ) (2) Fresh Water  $< 220 \text{ mg/L Cl}^-$ , Brackish Water 220  $\text{mg/L Cl}^-$  to 16,999  $\text{mg/L Cl}^-$ , Sea Water  $\geq 17,000 \text{ mg/L Cl}^-$ ; (3) OS 421/425 = Ocean Sensors CTD (absolute conductivity); (4) RBR 12895 = RBR Global CTD (Specific Conductivity); (5) msl = mean sea level.

\* Since the year 2000, the MPTZ has risen 77.86 feet, rising toward a calculated Ghyben-Herzberg equilibrium elevation of approximately 790 feet below msl (relative to the Water Table, measured at 19.75 feet above msl). Note the relatively thick mixing zone, resulting from upward borehole flow of an influx of brackish water.