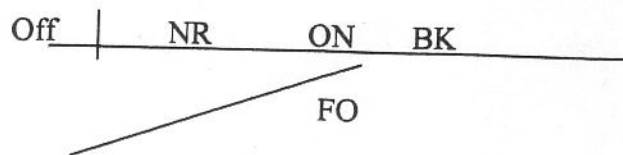


Shore – land sea interface affected by waves
Coast = Ocean environment

On, Off, Near, Fore, Back

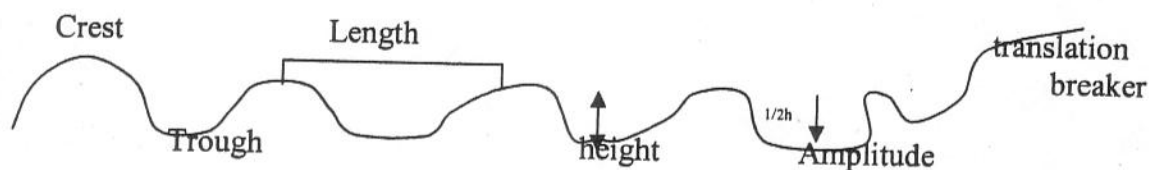
Swash/ Backwash



Waves – Wind/Storm 1.2 knots

Sea vs. swell

Wave Nomenclature



Wave Train 1-7

Depth $\frac{1}{2}$ length = deep H₂O wave

Waves not felt below 100 ft.

Submariners don't get seasick

Plunging, surging, spilling = breaker/beach type

Mud, Sand, Gravel

Long shore current and drift

Undertow

Seiche

Bore

Tsunami

Storm surge

Note in low pressure storms – pressure release causes sea surface rise of - +3ft. - + 30 – 35 ft. from wind driven h₂O – (New Orleans \pm 40 ft.) – Reason for great damage.

Tides – SME Relationship

Diurnal

Semi-diurnal

Mixed

Bay of Fundy - 50 \pm ft.

Ocean currents & Planetary winds

Eustacy vs. Isostacy

Wisconsin Sea Level Rise – 20,000, yago

Tidal bench and shore platform