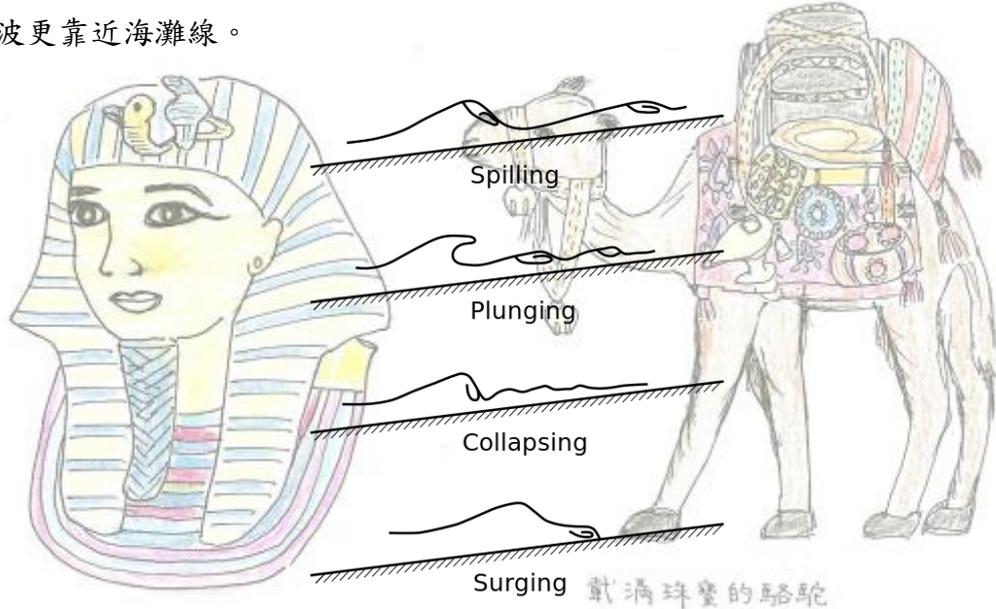


## 崩潰波(Collapsing breaker)

Galvin 在 1968 年在捲入波與洶湧間增加一種崩潰波，其碎波發生位置比捲入波更靠近海灘線。



摘自：[https://www.wikiwand.com/en/Breaking\\_wave](https://www.wikiwand.com/en/Breaking_wave)

Type	Diagram	Example	Description
<b>Spilling</b> $\zeta_0 < 0.5$			-Wave crest becomes unstable and spills down while introducing air bubbles inside. -Characteristic foamy water. -High-steepness waves over mild slopes.
<b>Plunging</b> $0.5 < \zeta_0 < 2.5$			-Wave shoreward face becomes first vertical, curls over and finally plunges into the water ahead. -Air can be trapped inside the curl. -Medium steepness waves over intermediate slopes.
<b>Collapsing</b> $2.5 < \zeta_0 < 3.7$			-Wave crest becomes vertical, until the base collapses arriving to the shoreline as a thin water layer. -Low steepness waves over steep slopes.
<b>Surging</b> $\zeta_0 > 3.7$			-Wave crest remains unbroken, and the wave arrives to the shoreline with small shape changes. -Low steepness waves over very steep slopes.

摘自：<https://inductiva.ai/blog/article/perspectives-on-the-sea-6>