

## Global Shoreline Ternary Process Classification

The global shoreline ternary process classification dataset is based on the work described in

Nyberg, B. & Howell, J.A., (2016). Global distribution of modern shallow marine shorelines. Implications for exploration and reservoir analogue studies, Marine and Petroleum Geology, Vo. 71, 2016, Pages 83-104.

Null values = 0 or -9999

Coordinate System = World\_Equidistant\_Cylindrical

### GSTPC

Parameter	Description
<i>Wave</i>	Mean Significant Wave Height (m)
<i>Tide</i>	Tidal range (m)
<i>F_Inf</i>	Fluvial influence acting on a shoreline based on equation $\left(\frac{Qs^3}{D}\right)$ where $D$ is $\geq 10km$ . $Qs$ is in kg/s and $D$ distance from the fluvial source.
<i>Process</i>	The two-tier ternary process classification to define the dominant and influenced processes acting on a shoreline. For example <b>Ft</b> = Fluvial Dominated Tide Influenced. Nine different shoreline types are available as <b>F, Ft, Fw, T, Tf, Tw, W, Wf</b> and <b>Wt</b> ;
<i>Structure</i>	Simplified tectonic regime imposed on the coastal region.
<i>MainClass</i>	Main climate at the shoreline based on the KÖPPEN-GEIGER classification scheme
<i>Shelf</i>	The type of continental shelf as 0 – narrow (<25km), 1 - medium (25 – 75km), 2 – epicontinental seaways/miscellaneous and 3 – wide (>75km)
<i>Funnel_L</i>	Length of a funnel feature (e.g., estuary, embayment, etc...) in meters.
<i>Subclass</i>	Sub climate based on the based on the KÖPPEN-GEIGER classification scheme
<i>T</i>	Relative tidal influence acting on the shoreline 0 – 1 (0 – 100%)
<i>F</i>	Relative fluvial influence acting on the shoreline 0 – 1 (0 – 100%)
<i>W</i>	Relative wave influence acting on the shoreline 0 – 1 (0 – 100%)
<i>Qs</i>	Calculated total suspended sediment load in kg/s based on the BQART formula of Syvitski and Milliman (2007)

