| **Attribute** | **Description** |
| --- | --- |
| Bloom\_Index | Quantifies algal bloom intensity (negative = subnormal, positive = bloom) |
| Rolling\_Chlorophyll\_Anomaly | 30-day chlorophyll deviation from historical baseline |
| Rolling\_SST\_Anomaly | 30-day sea surface temperature deviation from climatological mean |
| Surface\_Chlorophyll | Near-real-time chlorophyll-a concentration (mg/m³) |
| Sea\_Surface\_Temperature | Instantaneous water surface temperature (°C) |
| Dissolved\_Oxygen | Oxygen availability for marine life (mg/L) |
| pH | Acidity/alkalinity of seawater |
| Total\_Nitrogen | Combined inorganic/organic nitrogen (mg/L) |
| Total\_Phosphorus | Bioavailable phosphorus concentration (mg/L) |

**Dataset attributes and their descriptions:**