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|  | **SiteRecord** | **Site Underlying Data** | **For each water body simulated, the following Parameters are required** |  |
| Site Name | SiteName | N / A | Site's Name. Used for Reference only. | N / A |
| Max Length (or reach) | SiteLength | Length | Maximum effective length for wave setup | km |
| Vol. | Volume | Volume | Initial volume of site (must be copied into state var.) | m3 |
| Surface Area | SurfArea | Area | Site area | m2 |
| Estuary Site Width | SiteWidth | Width | Width of estuary | m |
| Mean Depth | ZMean | ZMean | Mean depth, (initial condition if dynamic mean depth is selected) | M |
| Maximum Depth | ZMax | ZMax | Maximum depth | M |
| Ave. Temp. (epilimnetic or hypolimnetic) | TempMean | TempMean | Mean annual temperature of epilimnion (or hypolimnion) | °C |
| Epilimnetic Temp. Range (or hypolimnetic) | TempRange | TempRange | Annual temperature range of epilimnion (or hypolimnion) | °C |
| Latitude | Latitude | Latitude | Latitude | Deg, decimal |
| Altitude (affects oxygen sat.) | Altitude | Altitude | Site specific altitude | m |
| Average Light | LightMean | LightMean | Mean annual light intensity | Langleys/day |
| Annual Light Range | LightRange | LightRange | Annual range in light intensity | Langleys/day |
| *Total Alkalinity* | *AlkCaCO3* | *N / A* | *Not utilized as a parameter by the code.* | *mg/L* |
| *Hardness as CaCO3* | *HardCaCO3* | *N / A* | *Not utilized as a parameter by the code.* | *mg CaCO3 / L* |
| *Sulfate Ion Conc* | *SO4Conc* | *N / A* | *Not utilized as a parameter by the code.* | *mg/L* |
| *Total Dissolved Solids* | *TotalDissSolids* | *N / A* | *Not utilized as a parameter by the code.* | *mg/L* |
| Enclosure Wall Area | EnclWallArea | EnclWallArea | Area of experimental enclosures walls; only relevant to enclosure | m2 |
| Mean Evaporation | MeanEvap | MeanEvap | Mean annual evaporation | inches / year |
| Extinct. Coeff Water | ECoeffWater | ExtinctH2O | Light extinction of wavelength 312.5 nm in pure water | 1/m |
| Extinct. Coeff Sediment | ECoeffSed | ECoeffSed | Light extinction due to inorganic sediment in water | 1/(m·g/m3) |
| Extinct. Coeff DOM | ECoeffDOM | ECoeffDOM | Light extinction due to dissolved organic matter in water | 1/(m·g/m3) |
| Extinct. Coeff POM | ECoeffPOM | ECoeffPOM | Light extinction due to particulate organic matter in water | 1/(m·g/m3) |
| Baseline Percent Embeddedness | BasePercentEmbed | baseline embeddedness | Observed embeddedness that is used as an initial condition | percent (0-100) |
| Minimum Volume Frac. | Min\_Vol\_Frac | Minimum Volume Frac. | Fraction of initial condition that is the minimum volume of a site | frac. of Initial Condition |
| Auto Select Eqn. for reaeration | UseCovar | Covar | Boolean to determine whether user is entering reaeration coefficient | boolean |
| Enter KReaer | KReaer | KReaer | Depth-averaged reaeration coefficient | 1/d |
| Total Length | TotalLength | TotLength | Total river length for calculating Nhytoplankton retention | km |
| Watershed Area | WaterShedArea | WaterShed | Watershed area for estimating total river length (above) | km2 |
| Fractal Dimension | FractalD | FractalDMarsh | Fractal dimension of marsh-water interface for the site. | unitless |
| Fractal D. Refuge Coefficient | FD\_Refuge\_Coeff | Coeff | Fractal dimension *Refuge* coefficient (-0.5 to 100 with the lowest values providing the strongest *Refuge* effect). | unitless |
| Half Sat Oyster Refuge | HalfSatOysterRefuge | HalfSat (eqn. 95) | Half-saturation constant for oysters in terms of providing refuge from feeding | g/m2 |
| M2, Amplitude & Epoch | amplitude1, k1 | M2 | Estuary Only - principal lunar semidiurnal constituent | m, deg. Local Siderial Time (LST) |
| S2, Amplitude & Epoch | amplitude2, k2 | S2 | Estuary Only - principal solar semidiurnal constituent | m, deg. LST |
| N2, Amplitude & Epoch | amplitude3, k3 | N2 | Estuary Only - larger lunar elliptic semidiurnal constituent | m, deg. LST |
| K1, Amplitude & Epoch | amplitude4, k4 | K1 | Estuary Only - lunar diurnal constituent | m, deg. LST |
| O1, Amplitude & Epoch | amplitude5, k5 | O1 | Estuary Only - lunar diurnal constituent | m, deg. LST |
| SSA, Amplitude & Epoch | amplitude6, k6 | SSA | Estuary Only - solar semiannual constituent | m, deg. LST |
| SA, Amplitude & Epoch | amplitude7, k7 | SA | Estuary Only - solar annual constituent | m, deg. LST |
| P1, Amplitude & Epoch | amplitude8, k8 | P1 | Estuary Only - solar diurnal constituent | m, deg. LST |