Table 1 Eco-geographical variable applied in the ENFA

| Eco-geographical Variables | Data Source | Data Synthesis Method |
|---|---|---|
| Seabed Sediments | Distribution of seabed sediment type from P3GL | The sediment type data was digitized and converted to a raster format then transformed to φ Wentworth (Williams et al., 2006) |
| Bathymetry | Points data and depth contours of bathymetry map from Dishidros | Data interpolation with IDW method in geostatistic-ArcGIS |
| Distance from Estuary | Indonesia topographic map from Bakosurtanal updated with 2008 ASTER satellite image | Synthesis data by *buffering* method in geostatistics-ArcGIS |
| Sea Surface TSS | Sea water sampling analyzed in laboratory | Extracted from Landsat 7 ETM+ satellite image by generating the TSS Algorithm |
| Seabed Current Velocity | Hourly wind data from BMG Bathymetry and tidal data from Dishidros Coastline of 2008 Aster satellite image | SMS 8.1 Modeling |
| Seabed Temperature Seabed Salinity | Primary data obtained by *in-situ* analysis using CTD+ | Data interpolation with IDW method in geostatistics-ArcGIS |
| Seabed Acidity (pH) | Primary data obtained by *in-situ* analysis using *pH-meter*. Water was sampled using Nansen Bottle | Data interpolation with IDW method in geostatistics-ArcGIS |
| Seabed Plankton Density | Seabed planktons maintained in Nansen Bottle was analyzed in the laboratory | Data interpolation with IDW method in geostatistics-ArcGIS |

Note: All data were converted into raster data with $100 \times 100$ m2 grid size