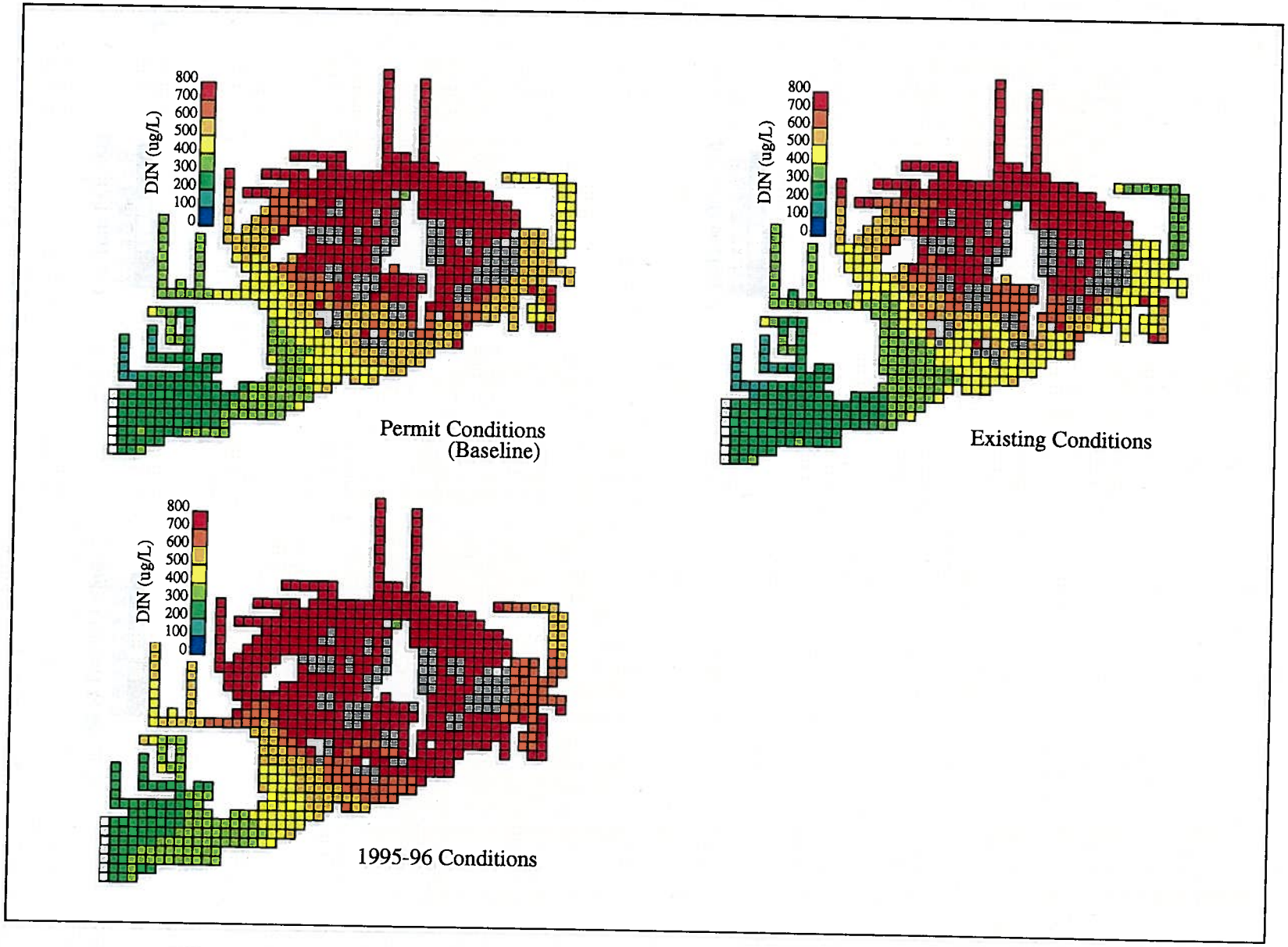

Figure 7-1. Summer Average Surface DIN Results, Baseline Alternatives

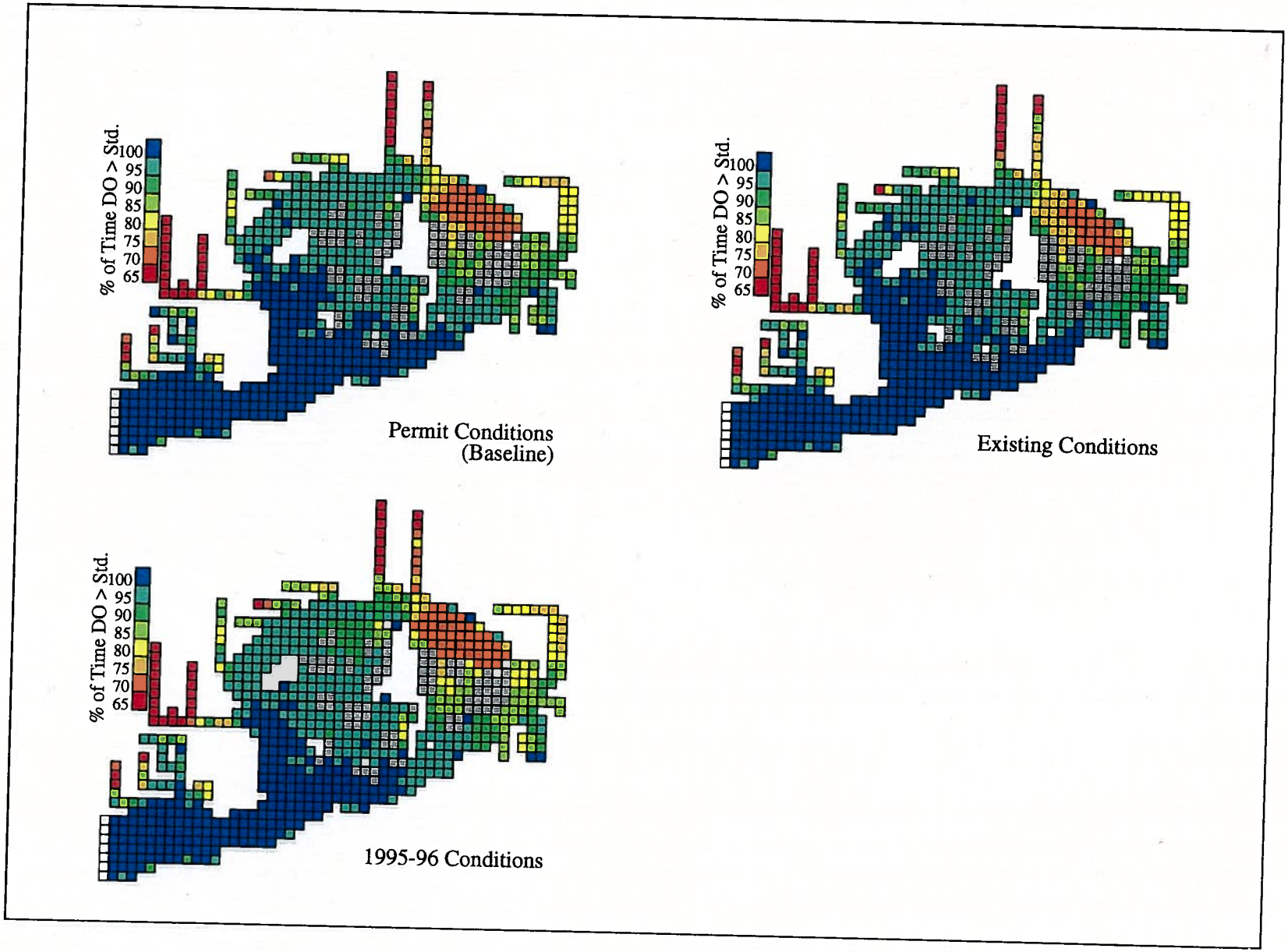

Figure 7-2 Percent of Time Bottom DO Greater than Current NYSDEC Standards, Annual, Baseline Alternatives

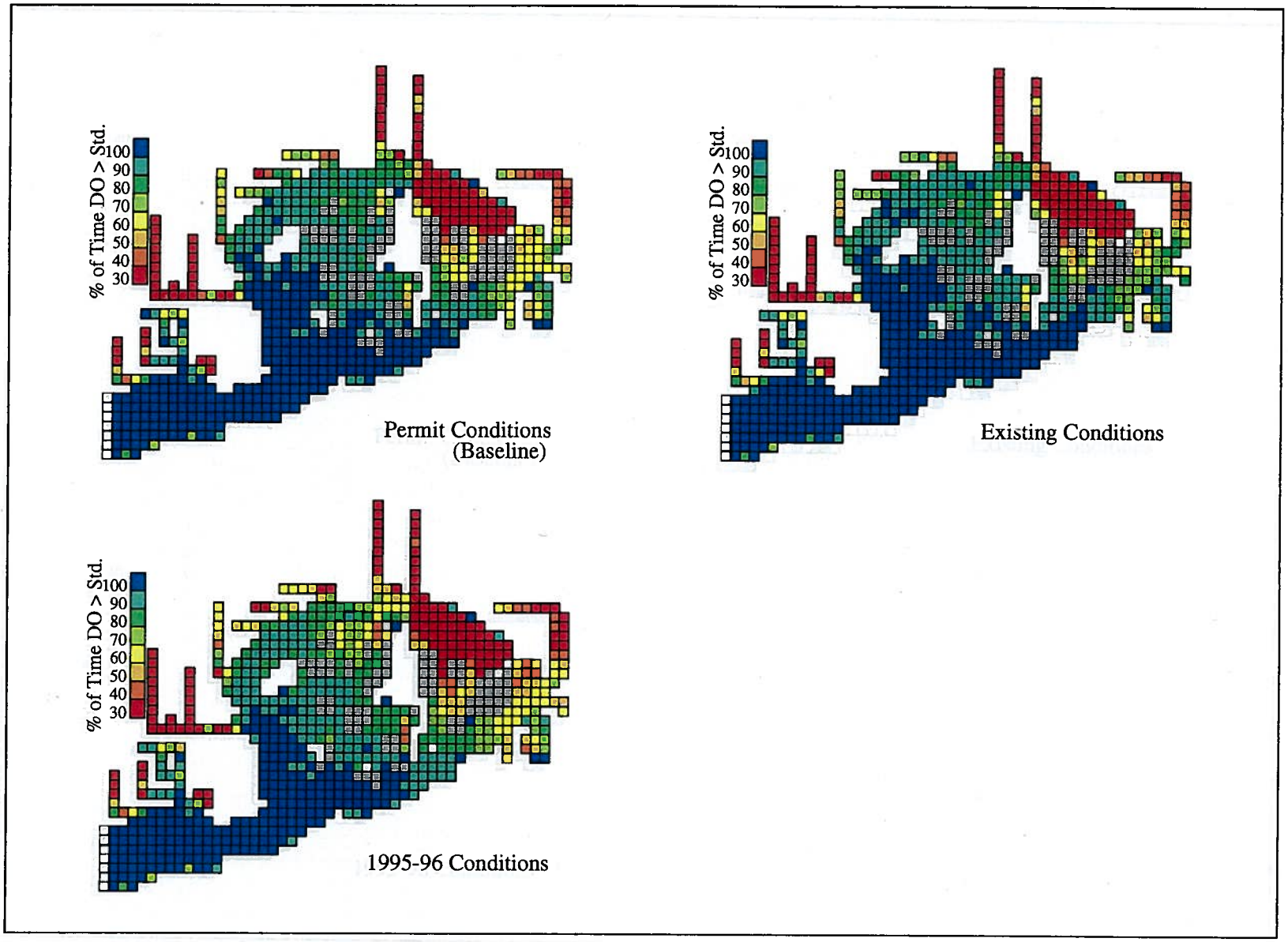

Figure 7-3 Percent of Time Bottom DO Greater than Current NYSDEC Standards, Summer, Baseline Alternatives

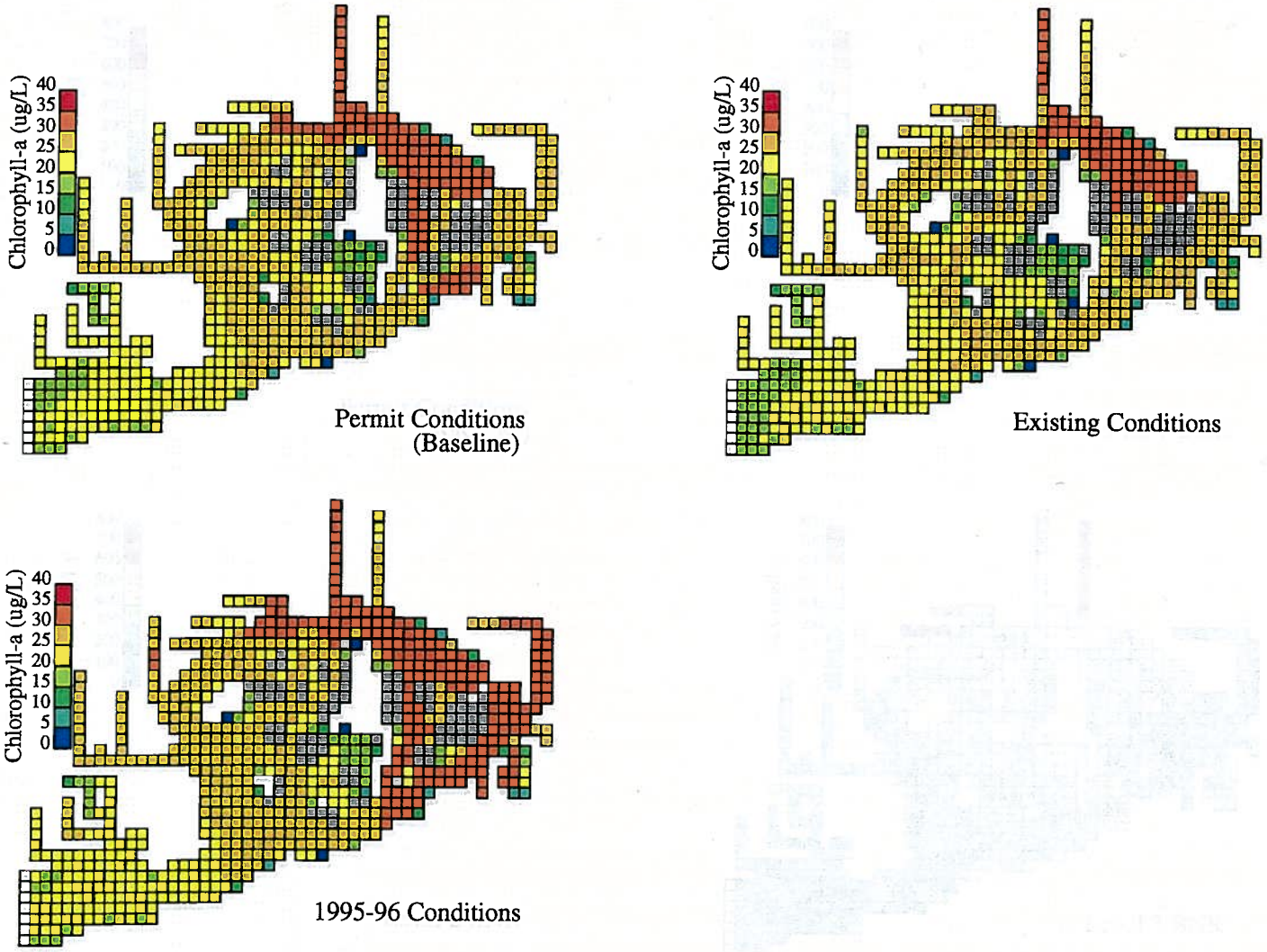

Figure 7-4 Annual Average Surface Chlorophyll-a Results, Baseline Alternatives

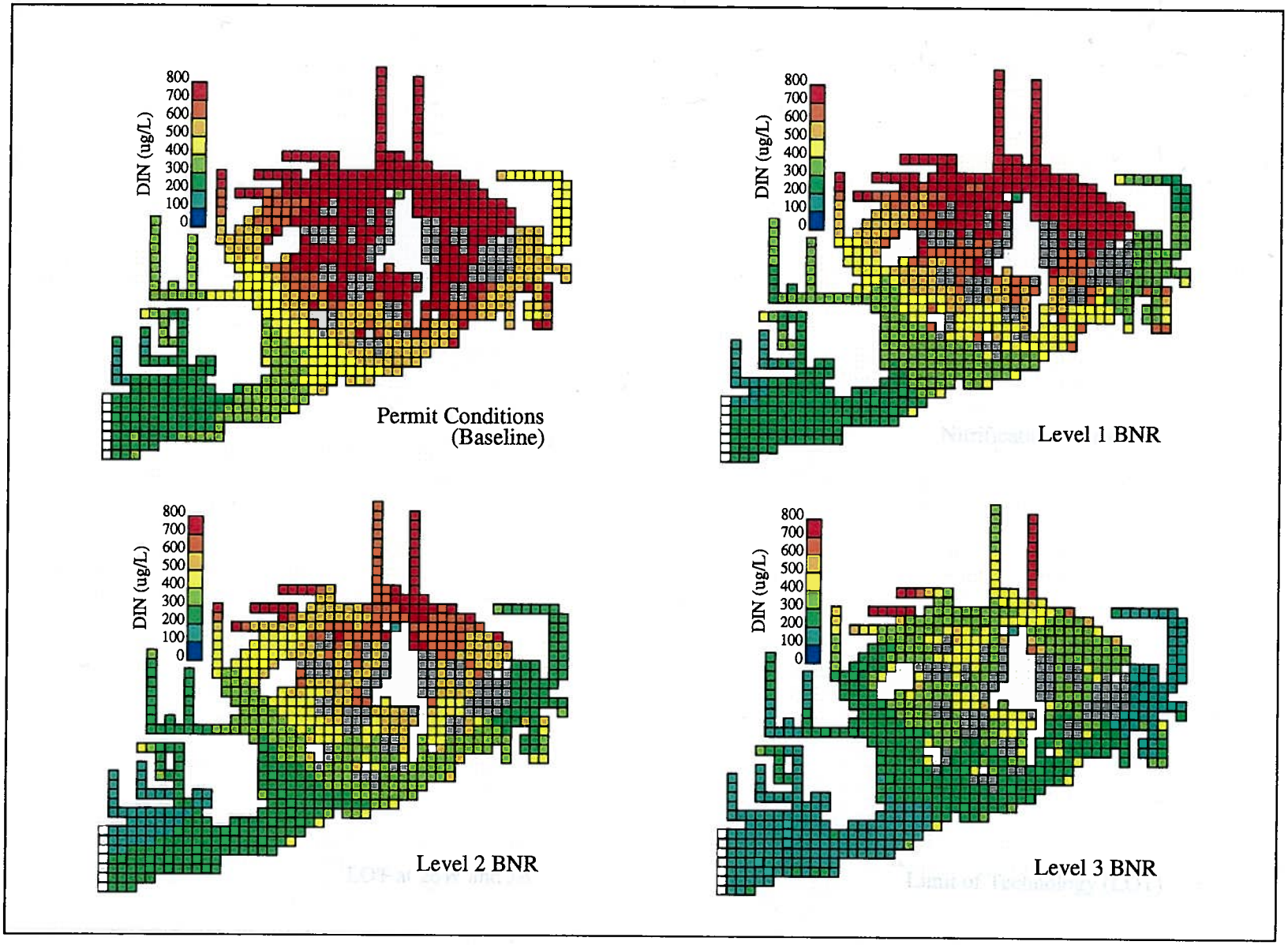

Figure 7-5 Summer Average Surface DIN Results, Treatment Alternatives

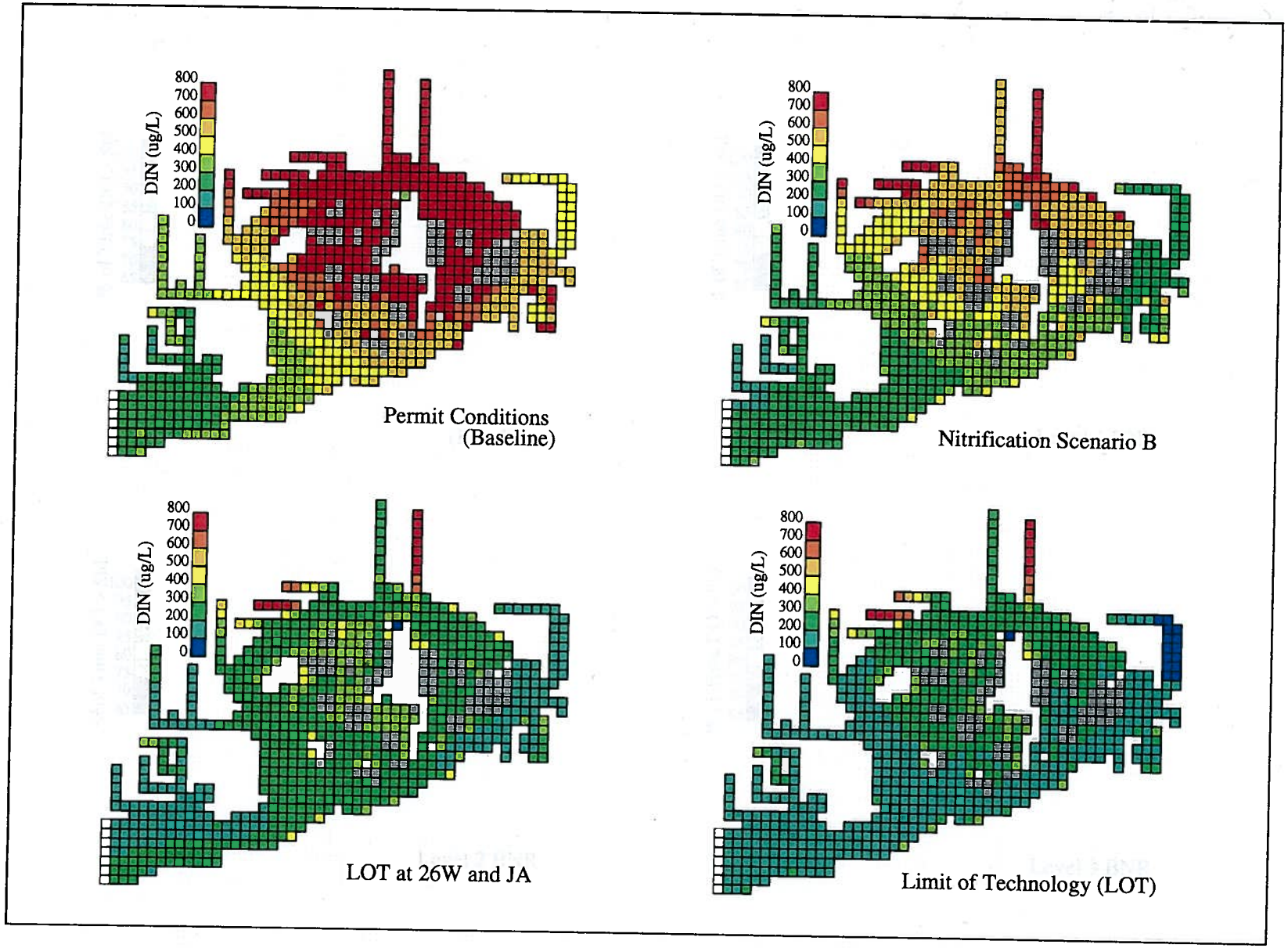

Figure 7-6 Summer Average Surface DIN Results, Treatment Alternatives

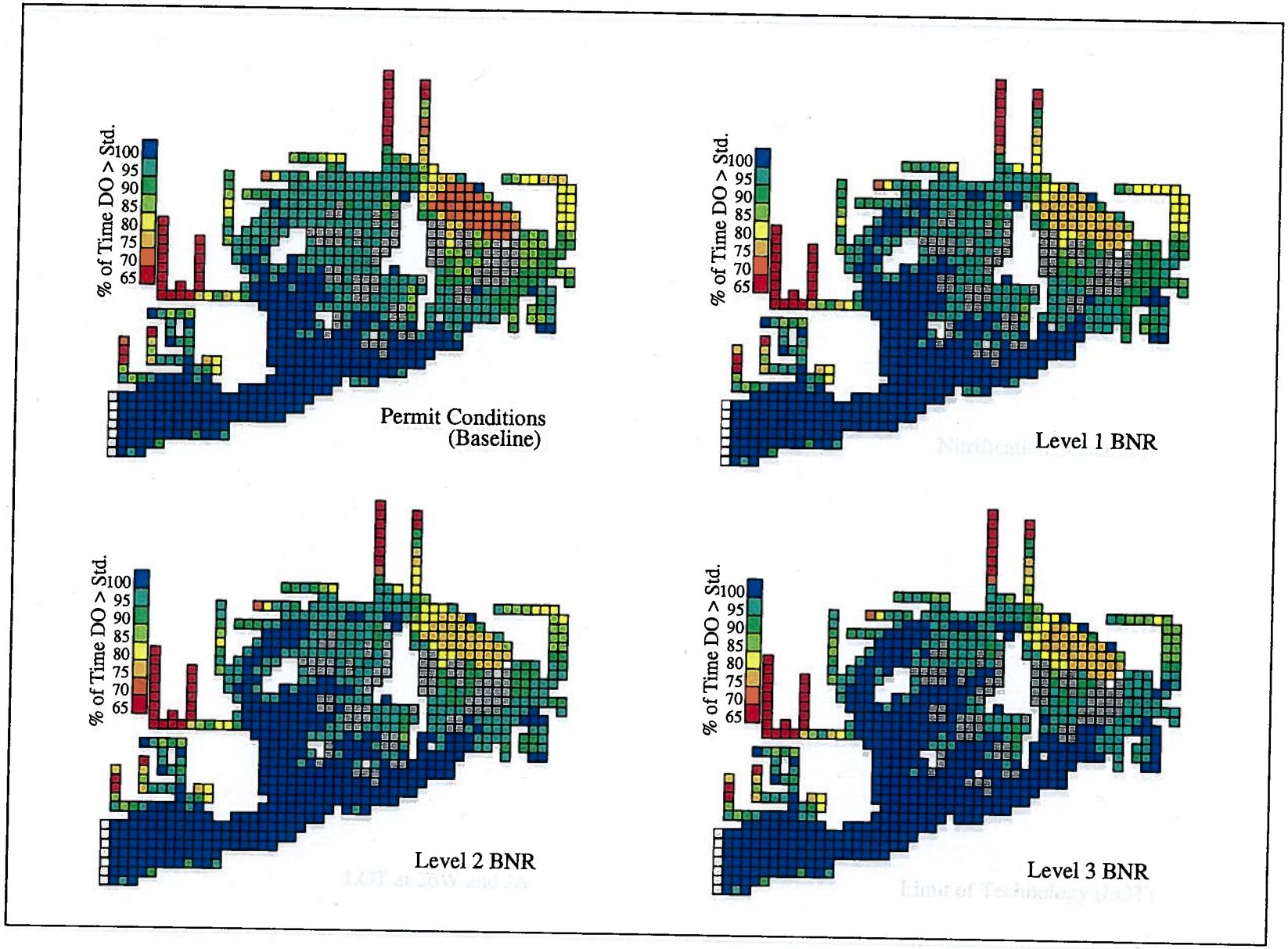

Figure 7-7 Percent of Time Bottom DO Greater than Current NYSDEC Standards, Annual, Treatment Alternatives

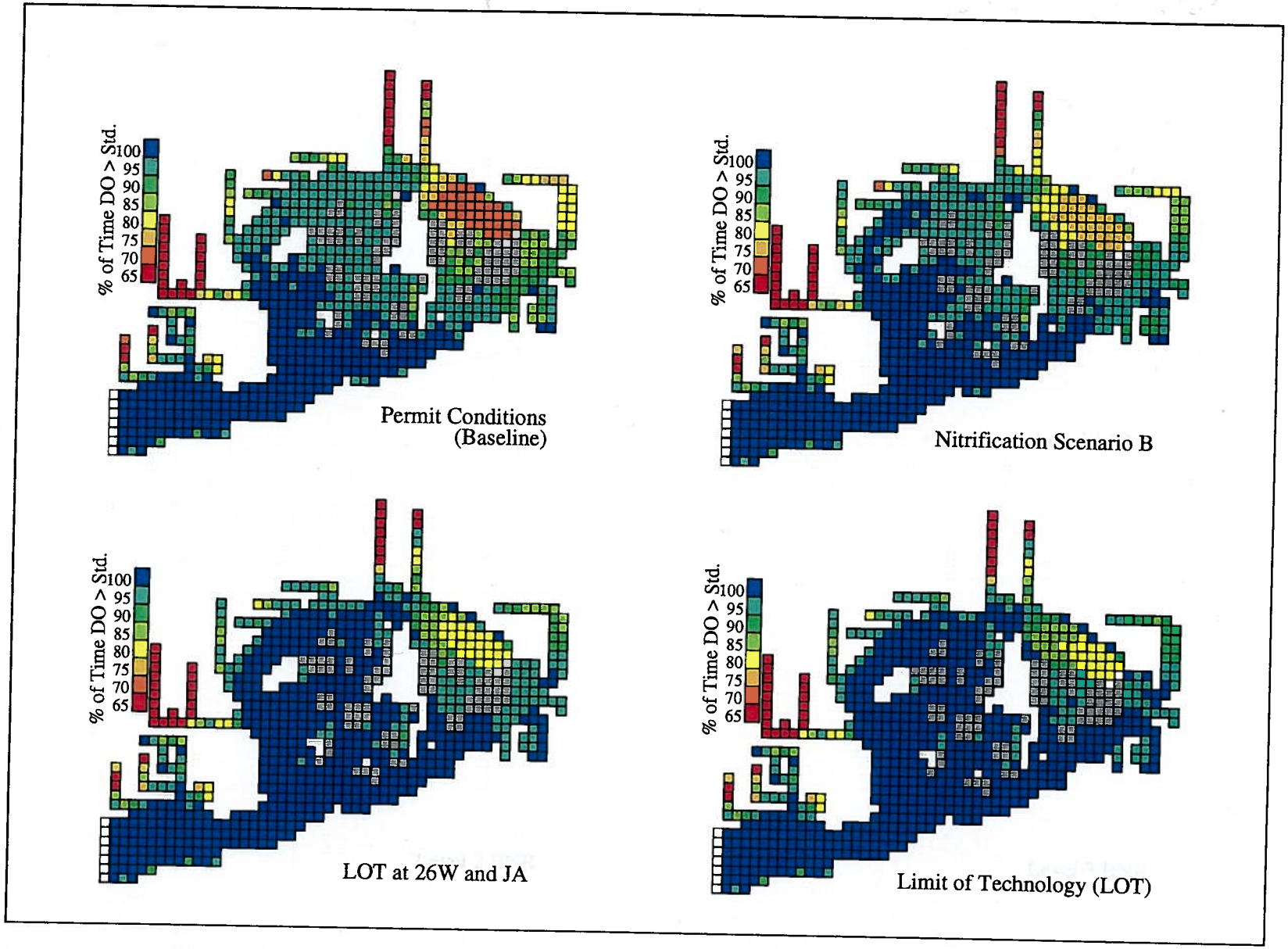

Figure 7-8 Percent of Time Bottom DO Greater than Current NYSDEC Standards, Annual, Treatment Alternatives

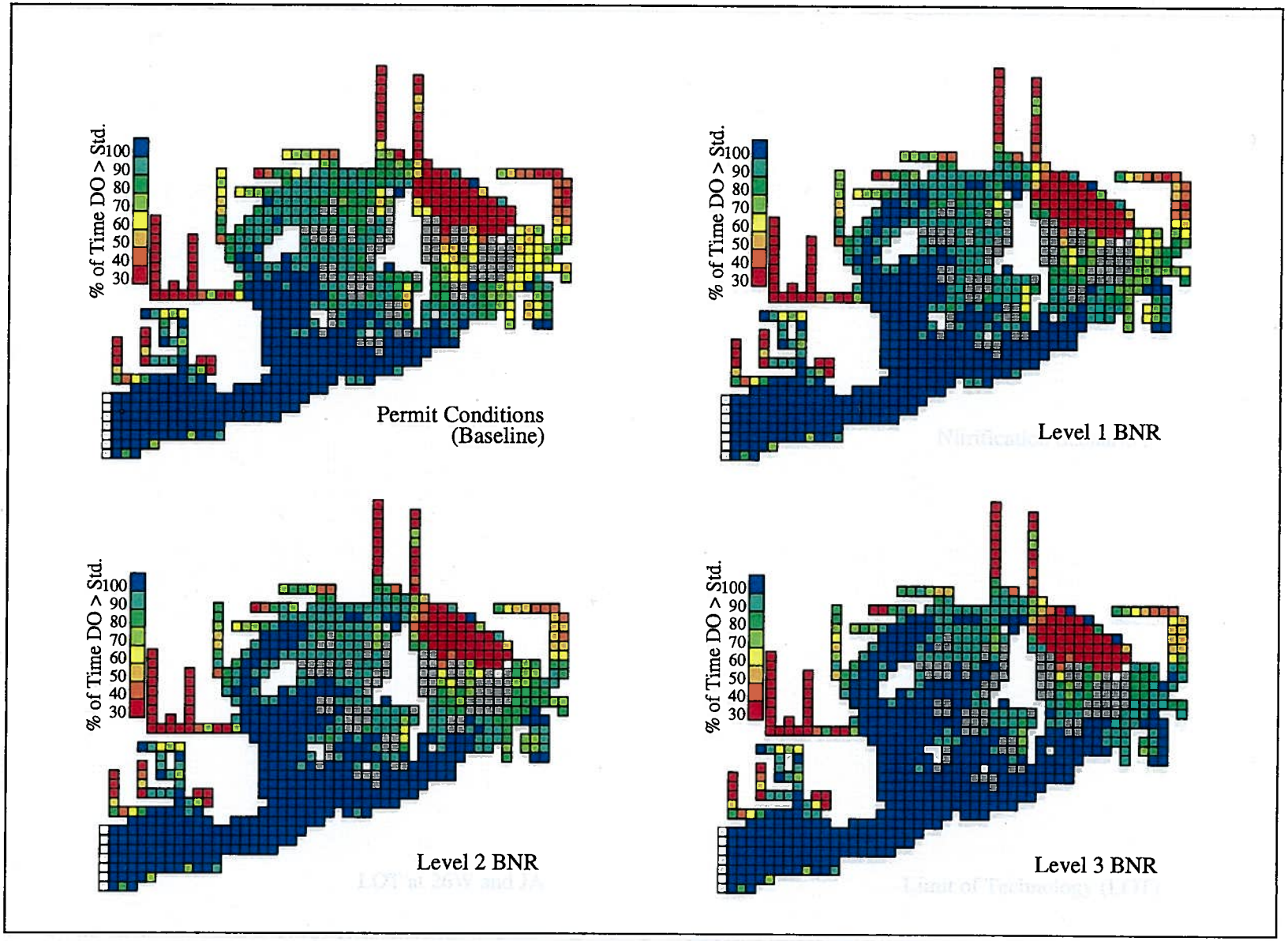

Figure 7-9 Percent of Time Bottom DO Greater than Current NYSDEC Standards, Summer, Treatment Alternatives

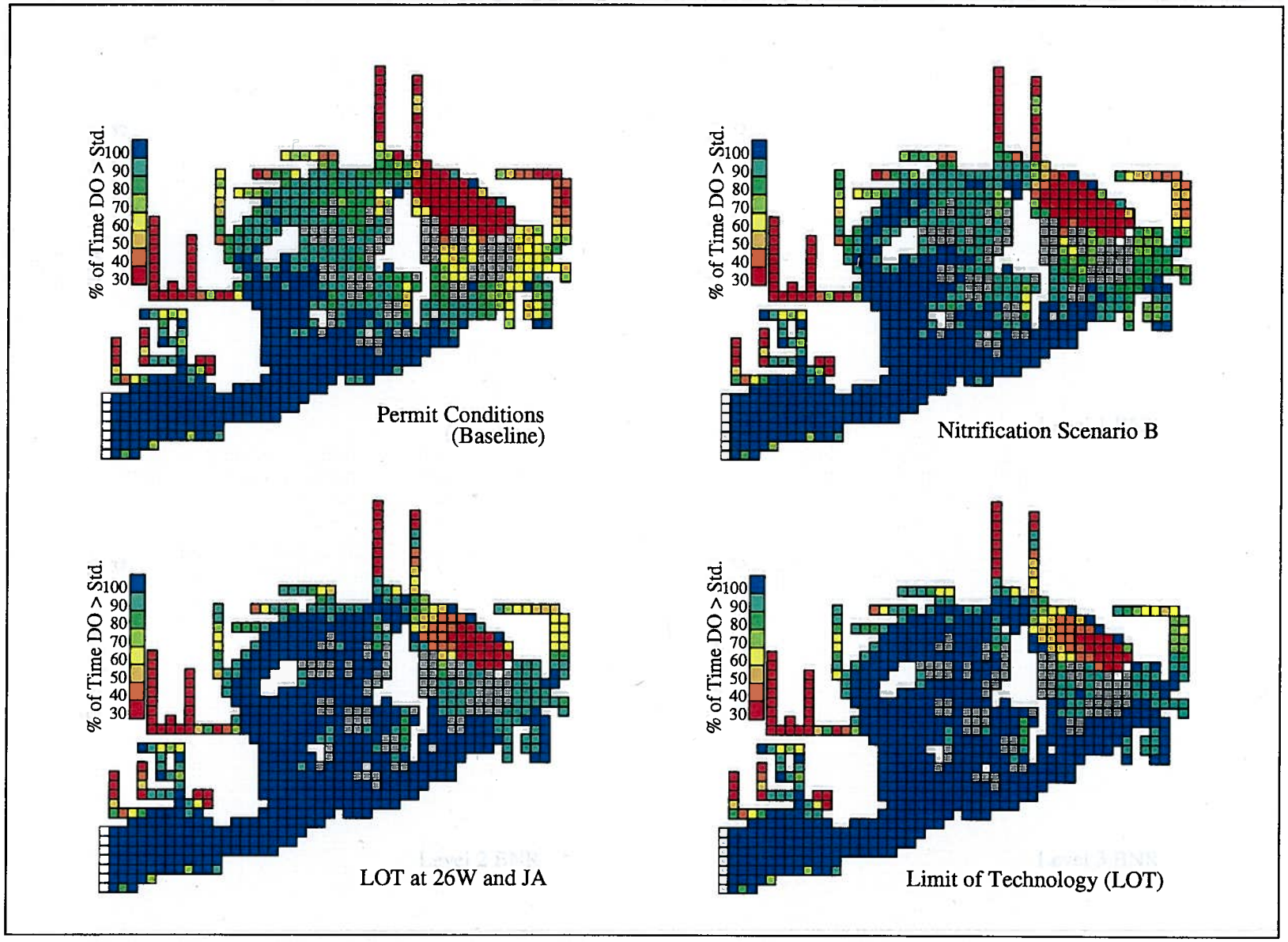

Figure 7-10 Percent of Time Bottom DO Greater than Current NYSDEC Standards, Summer, Treatment Alternatives

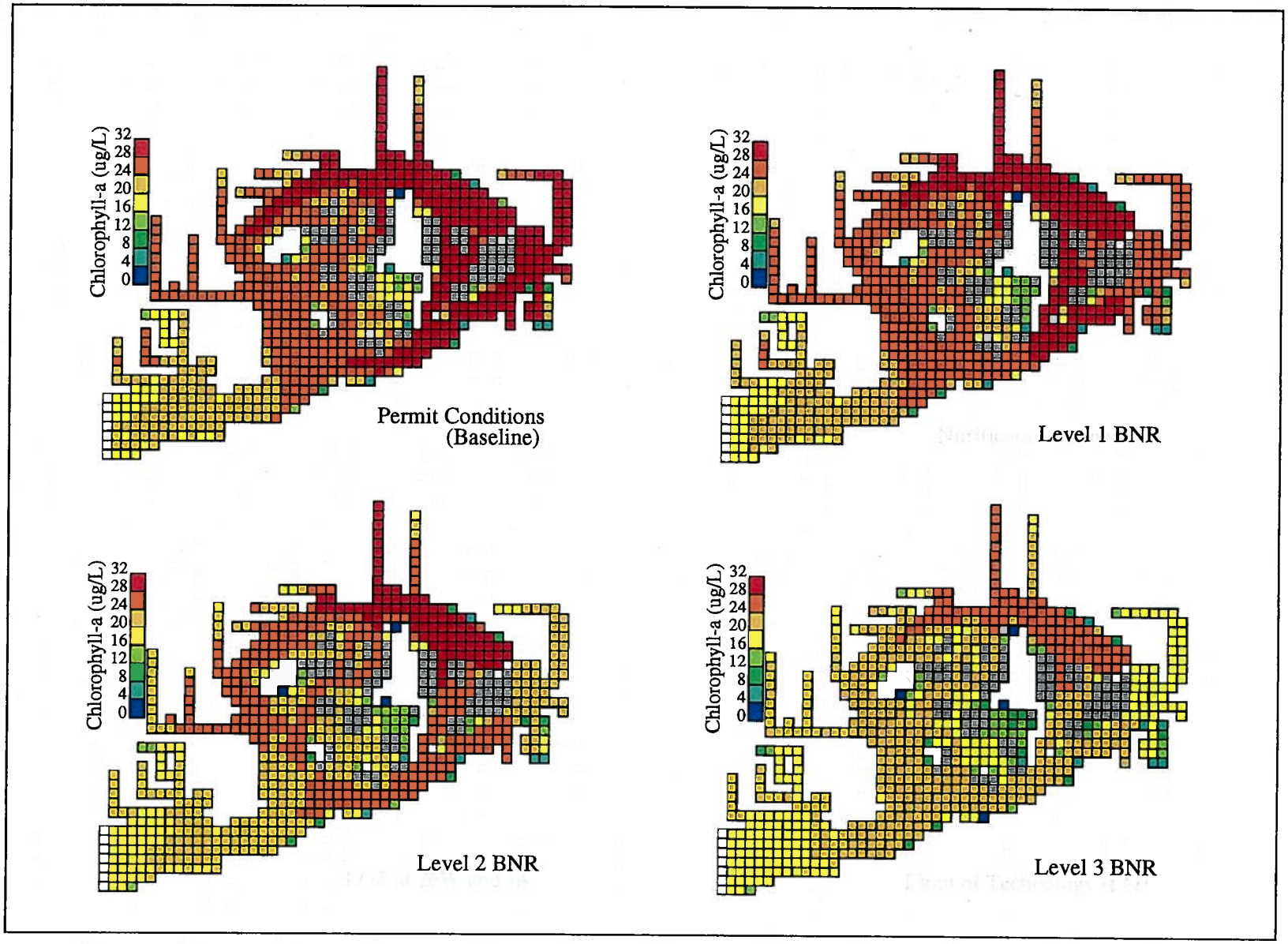

Figure 7-11 Annual Average Surface Chlorophyll-a Results, Treatment Alternatives

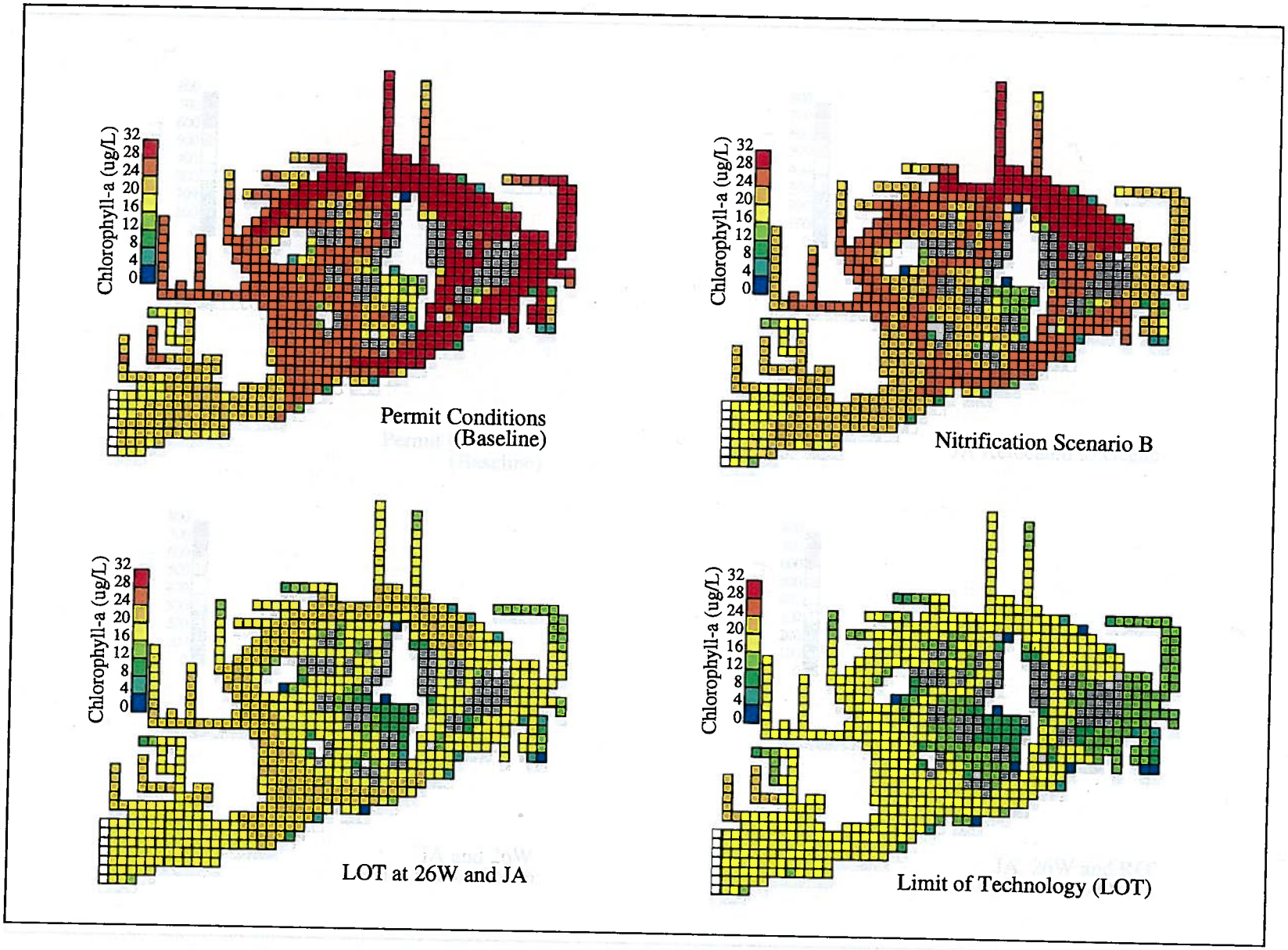

Figure 7-12 Annual Average Surface Chlorophyll-a Results, Treatment Alternatives

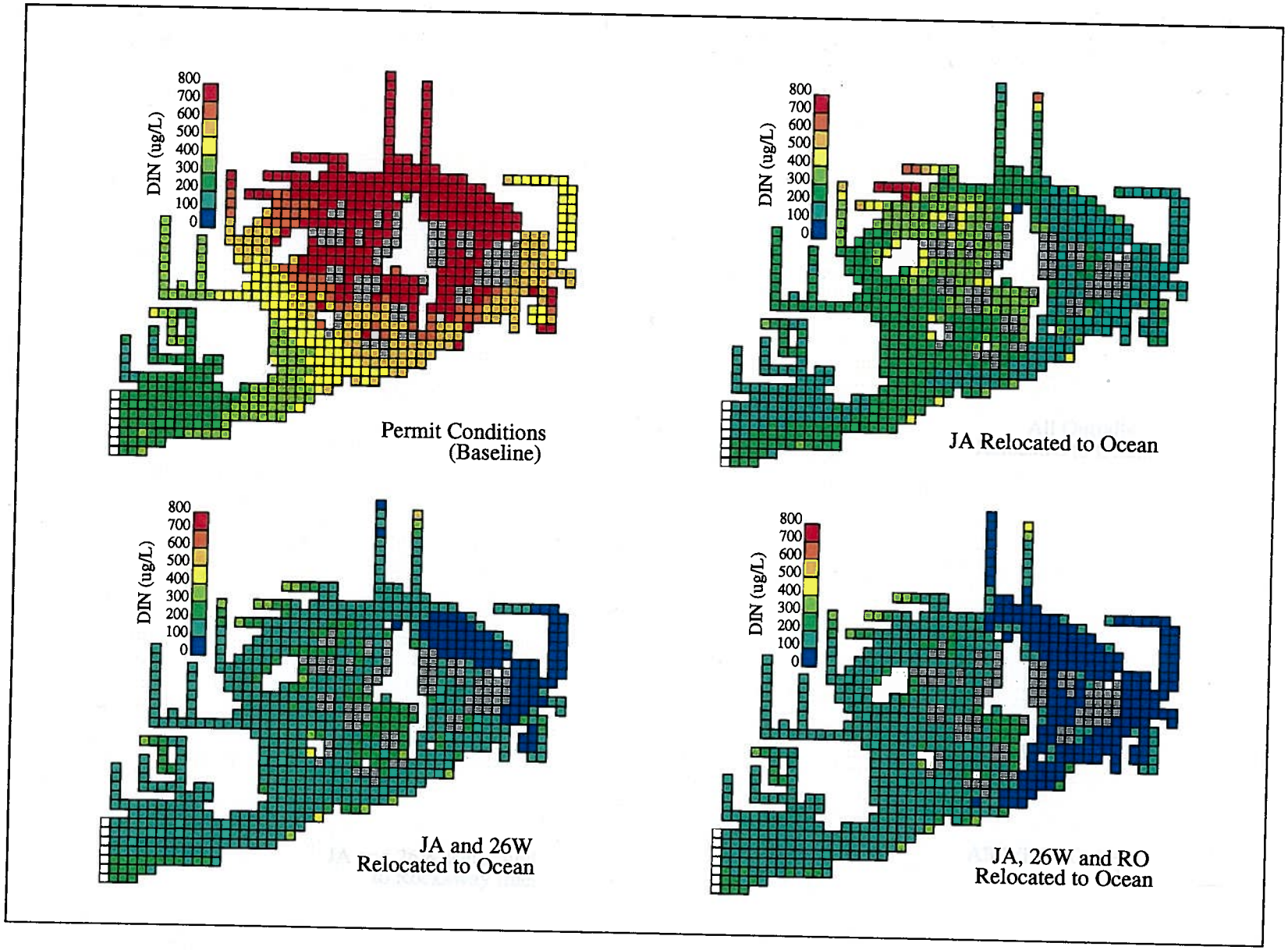

Figure 7-13 Summer Average Surface DIN Results, Relocation Alternatives

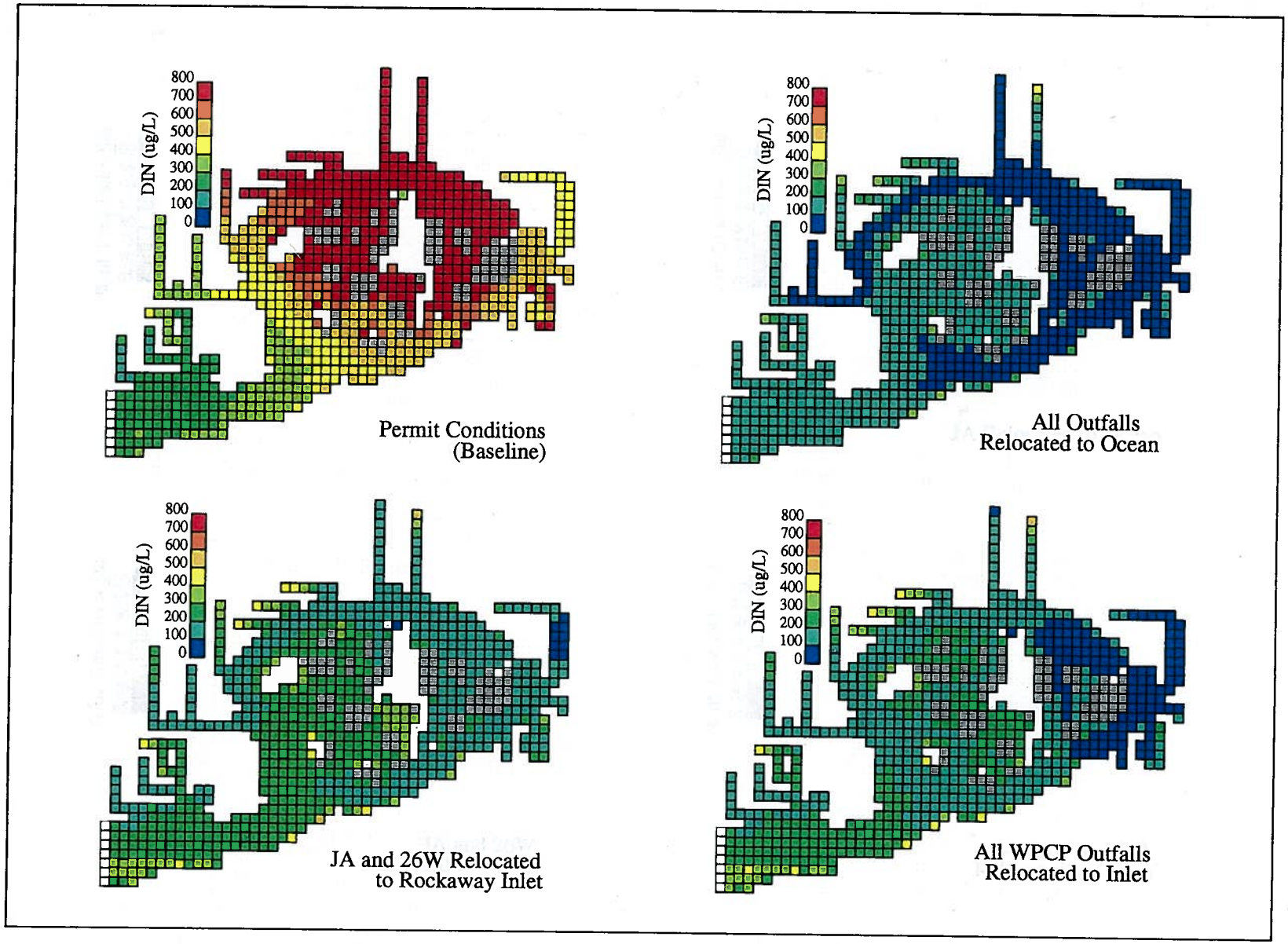

Figure 7-14 Summer Average Surface DIN Results, Relocation Alternatives

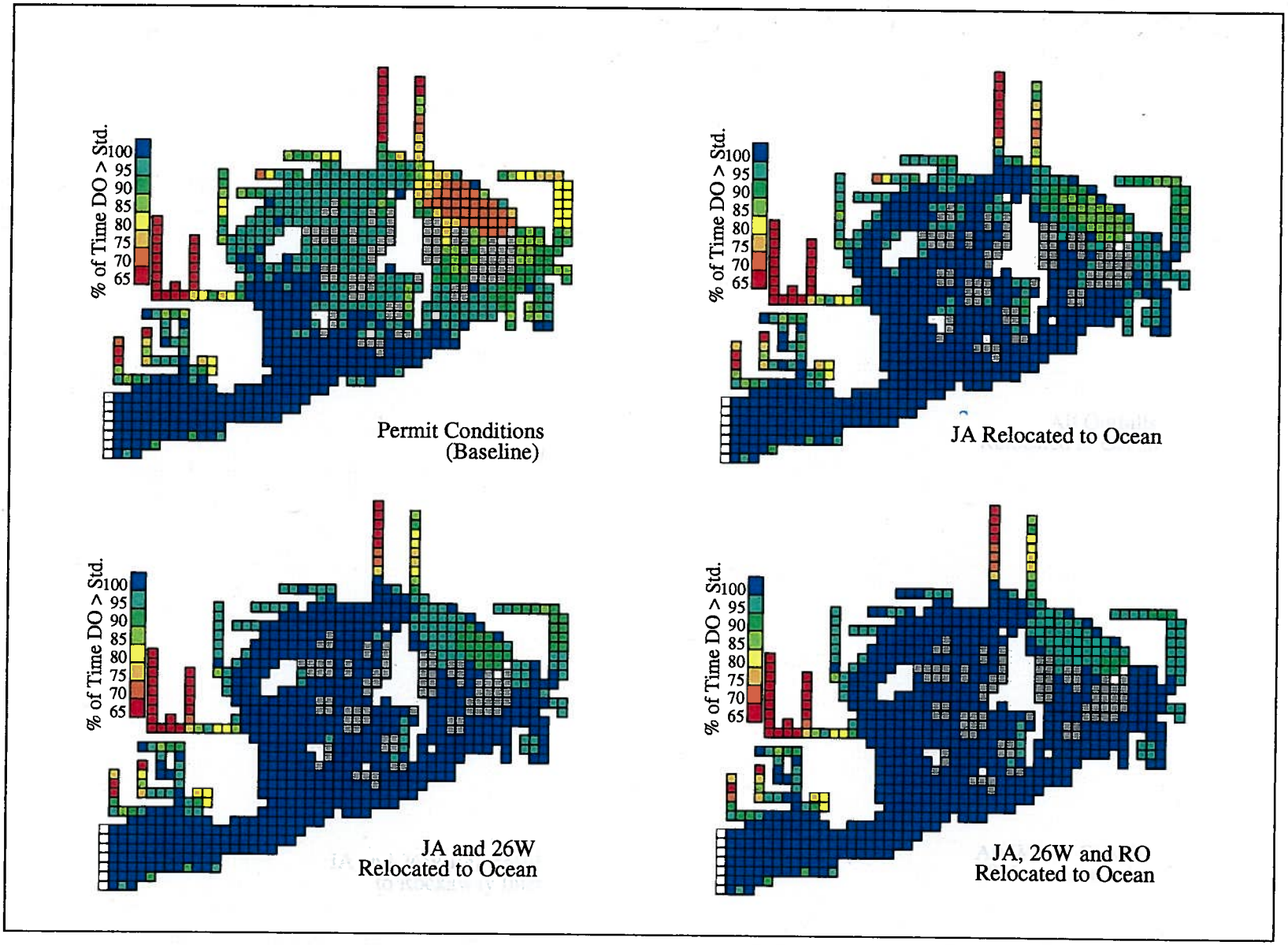

Figure 7-15 Percent of Time Bottom DO Greater than Current NYSDEC Standards, Annual, Relocation Alternatives

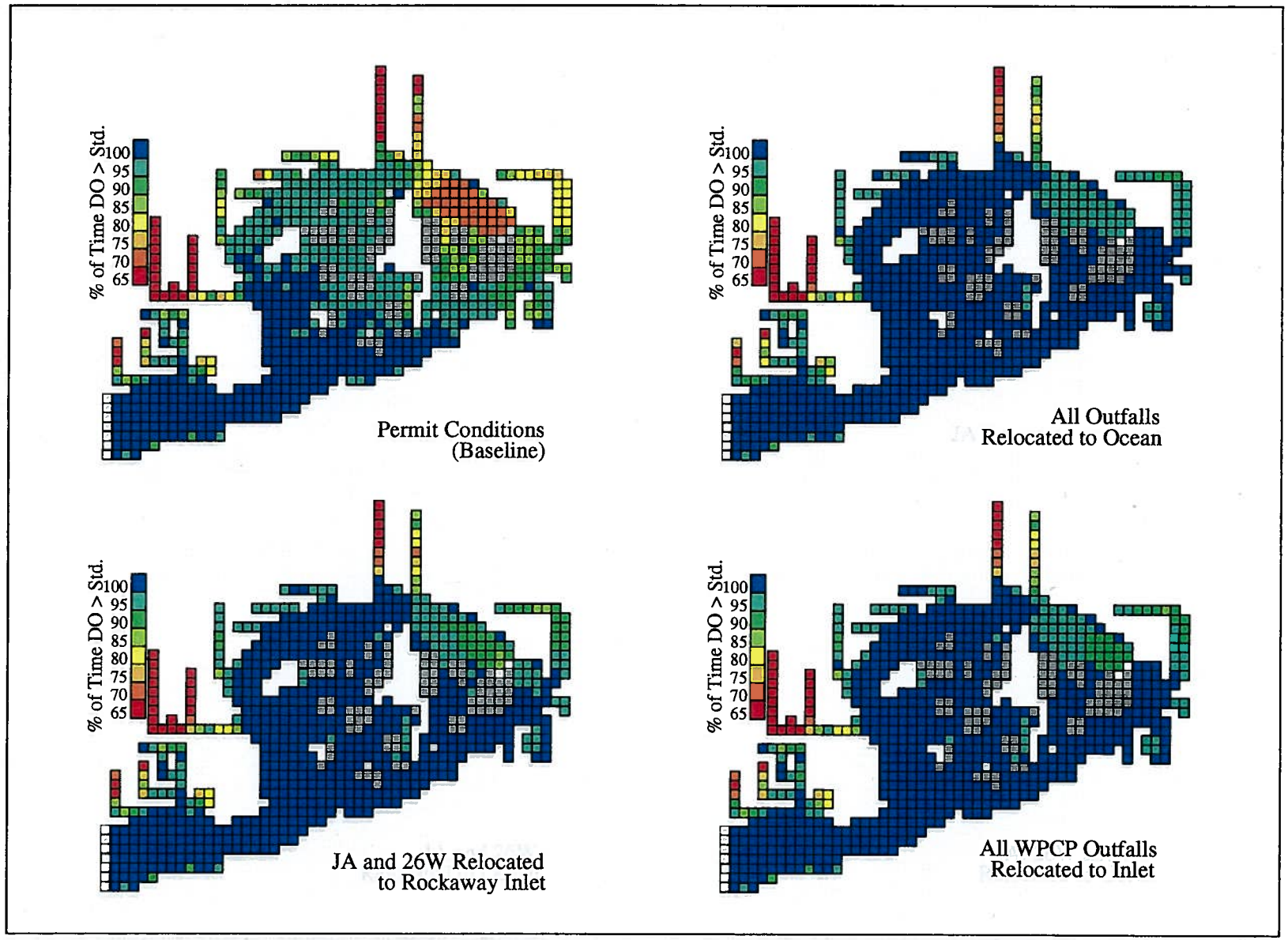

Figure 7-16 Percent of Time Bottom DO Greater than Current NYSDEC Standards, Annual, Relocation Alternatives

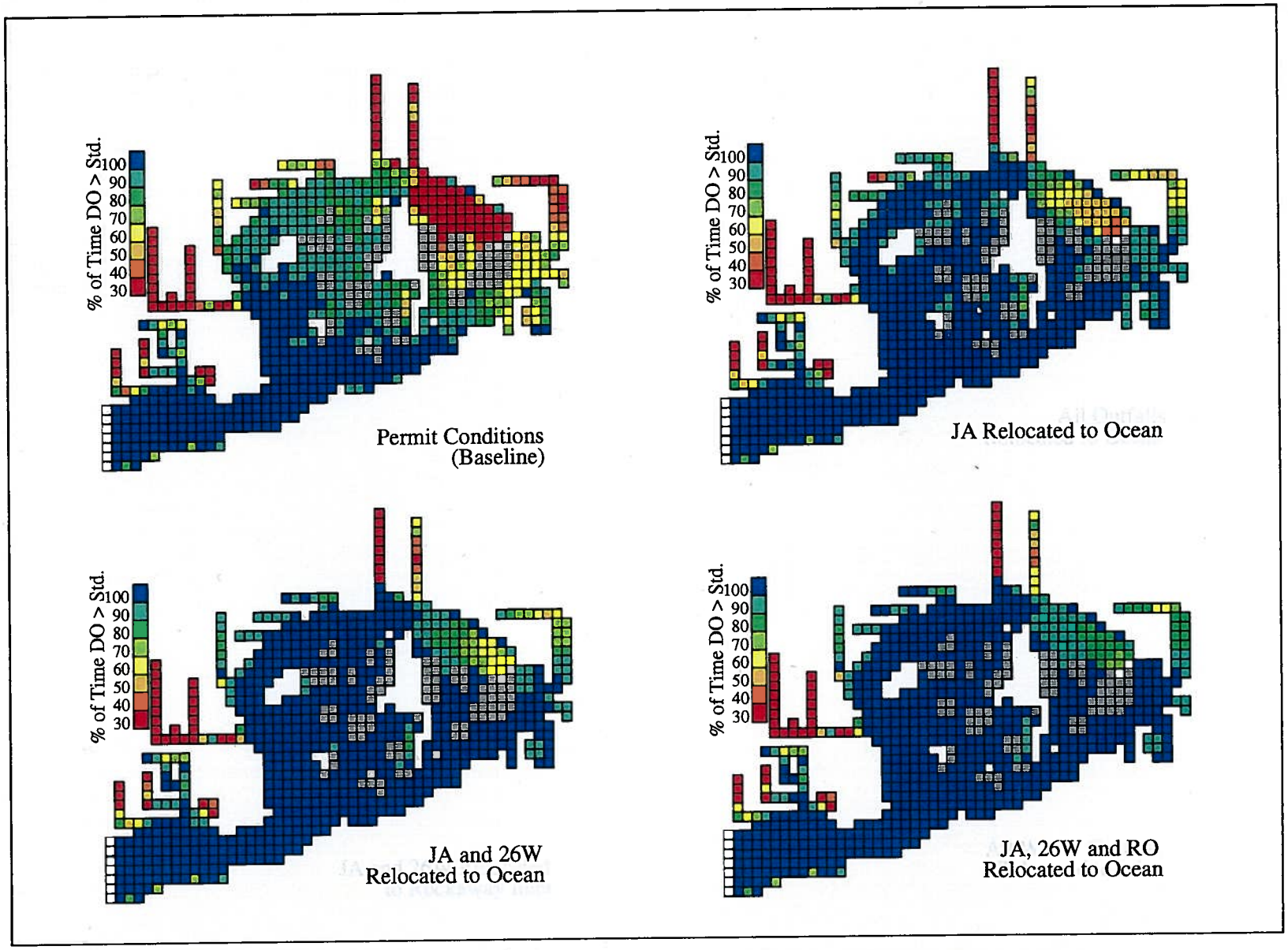

Figure 7-17 Percent of Time Bottom DO Greater than Current NYSDEC Standards, Summer, Relocation Alternatives

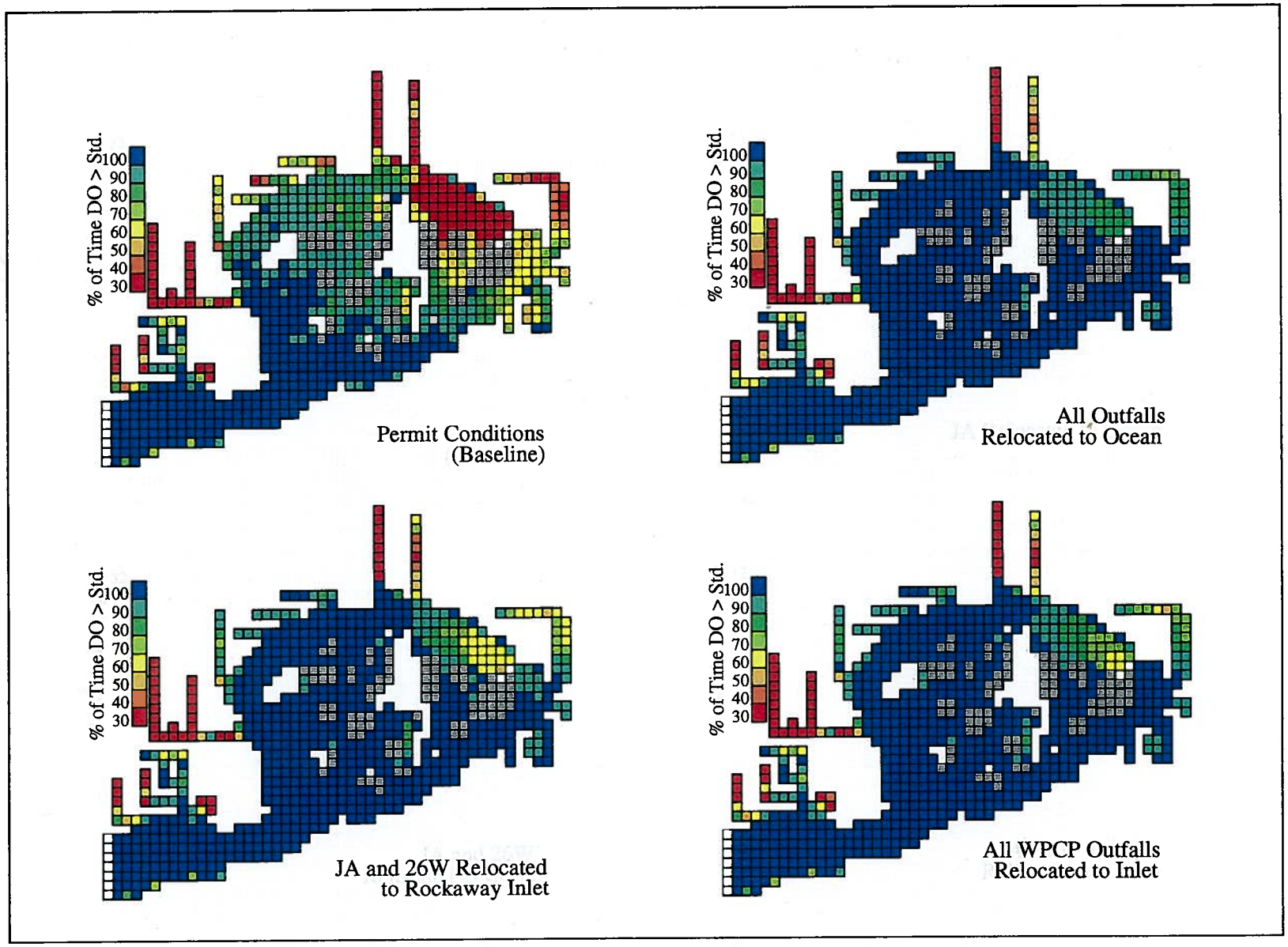

Figure 7-18 Percent of Time Bottom DO Greater than Current NYSDEC Standard, Summer, Relocation Alternatives

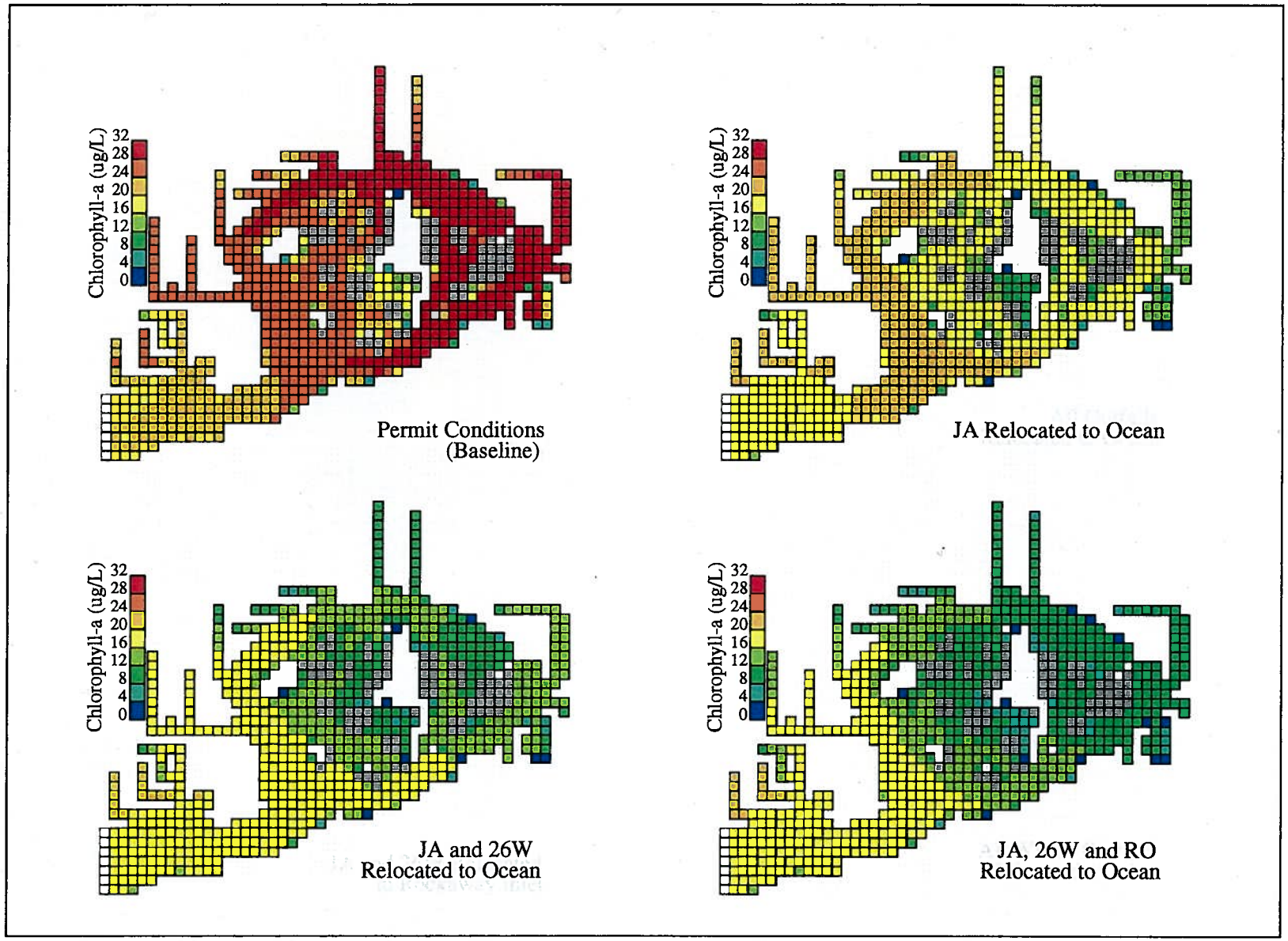

Figure 7-19 Annual Average Surface Chlorophyll-a Results, Relocation Alternatives

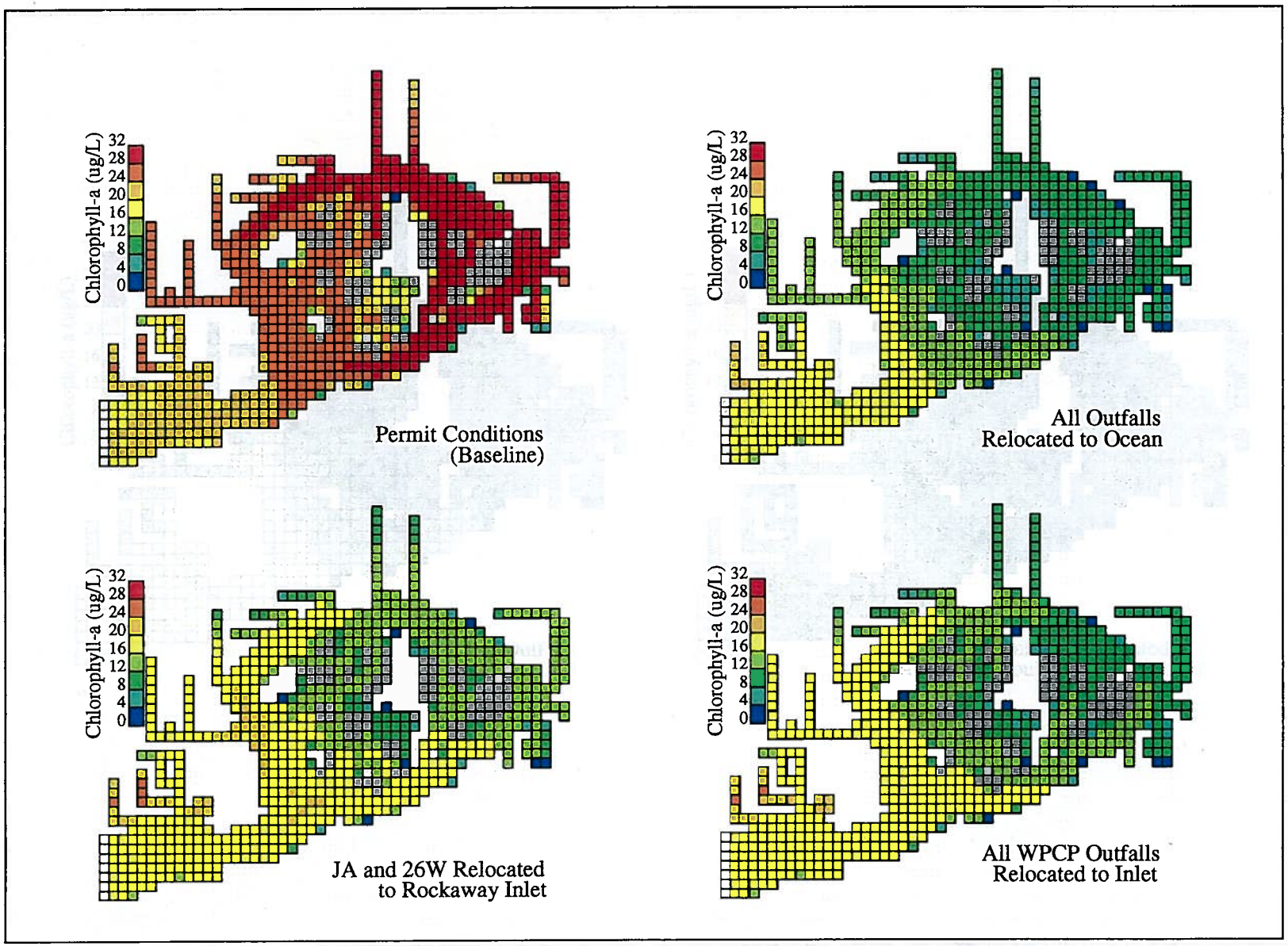

Figure 7-20 Annual Average Surface Chlorophyll-a Results, Relocation Alternatives

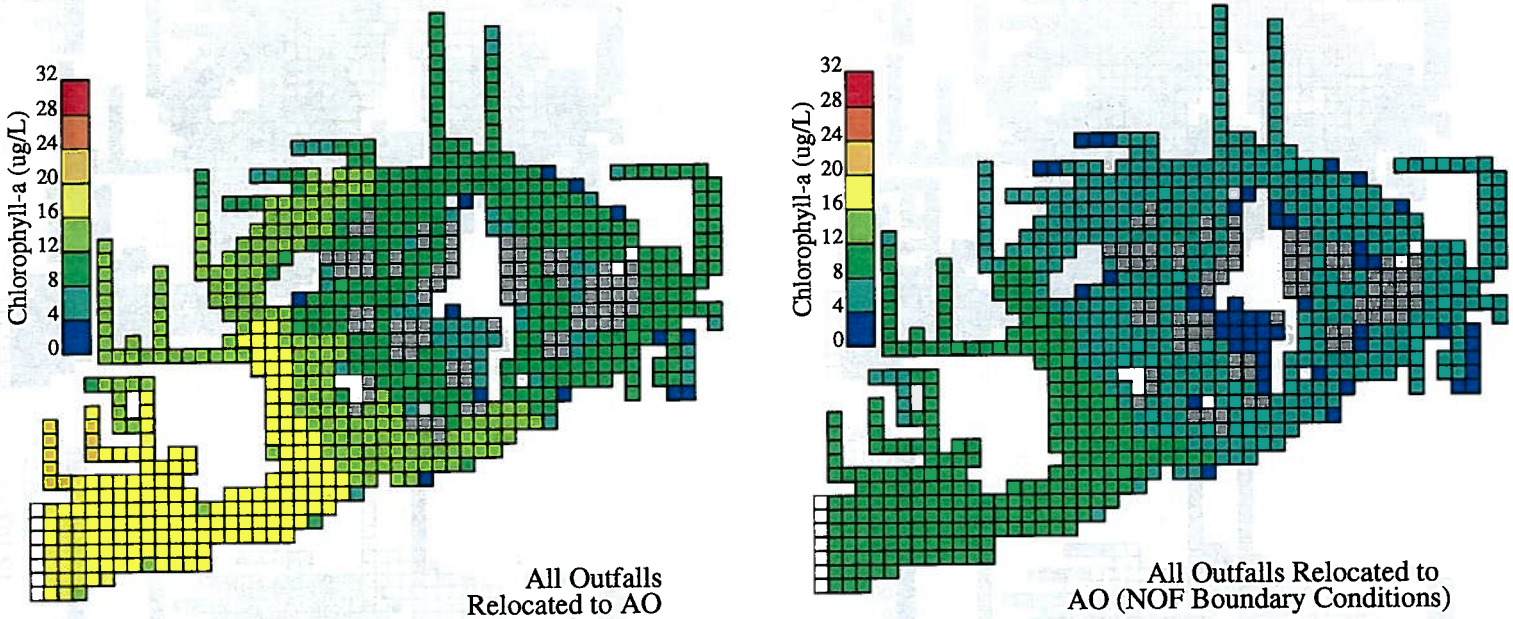

Figure 7-21 Annual Average Surface Chlorophyll-a, Relocation to Atlantic Ocean Alternatives

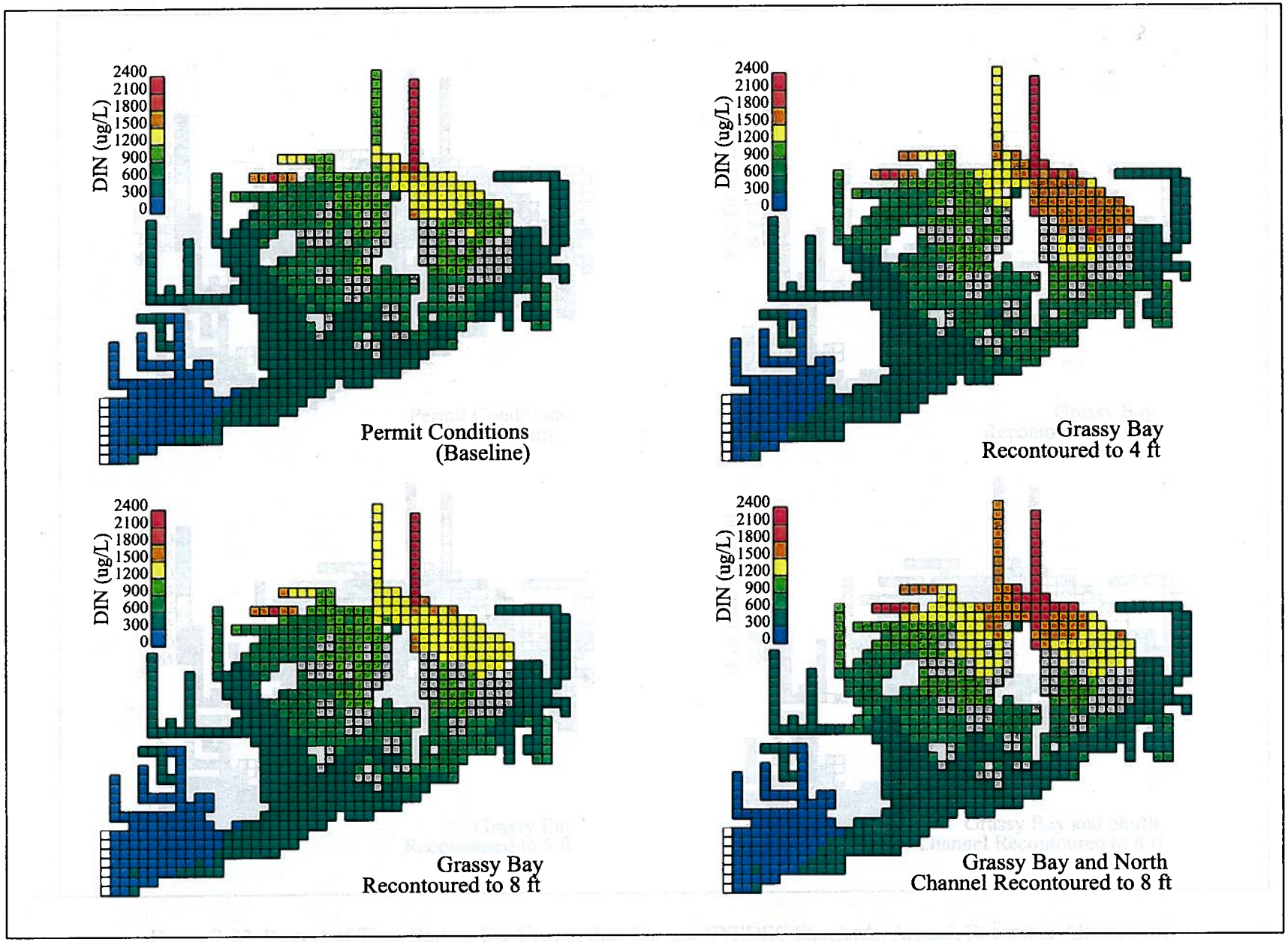

Figure 7-22. Summer Average Surface DIN Results, Recontour Alternatives

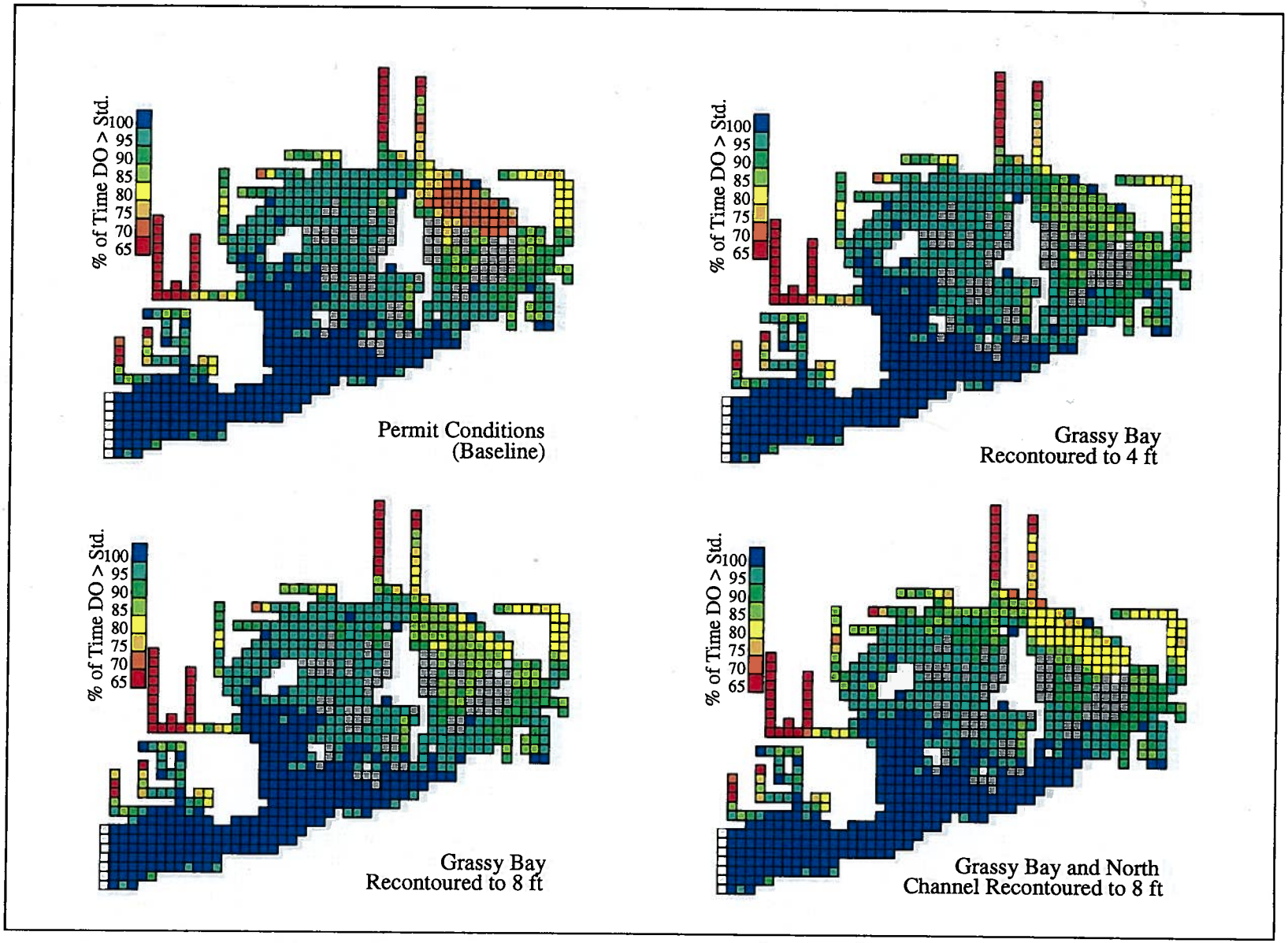

Figure 7-23 Percent of Time Bottom DO Greater than Current NYSDEC Standards, Annual, Recontour Alternatives

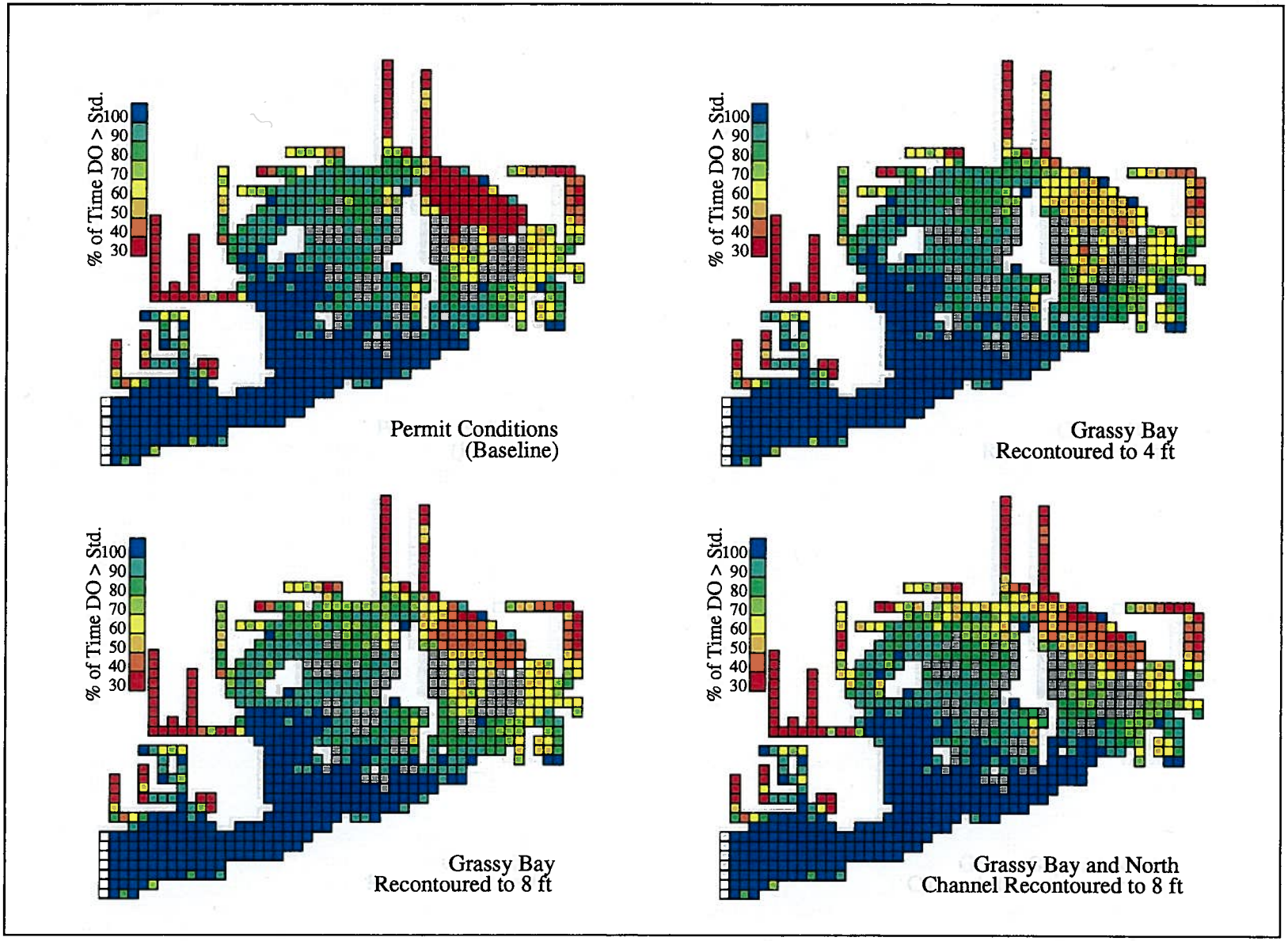

Figure 7-24 Percent of Time Bottom DO Greater than Current NYSDEC Standards, Summer, Recontour Alternatives

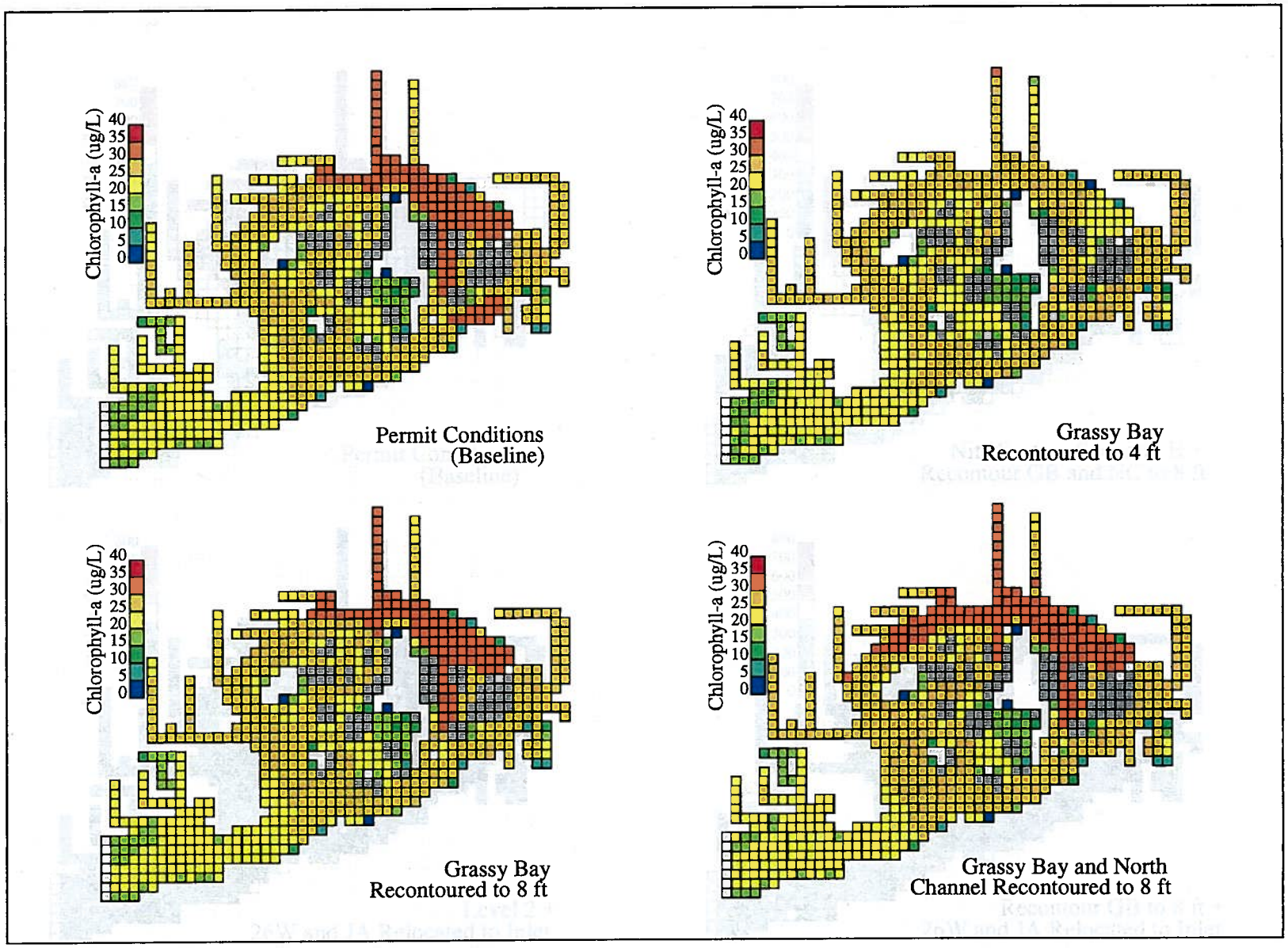

Figure 7-25 Annual Average Surface Chlorophyll-a Results, Recontour Alternatives

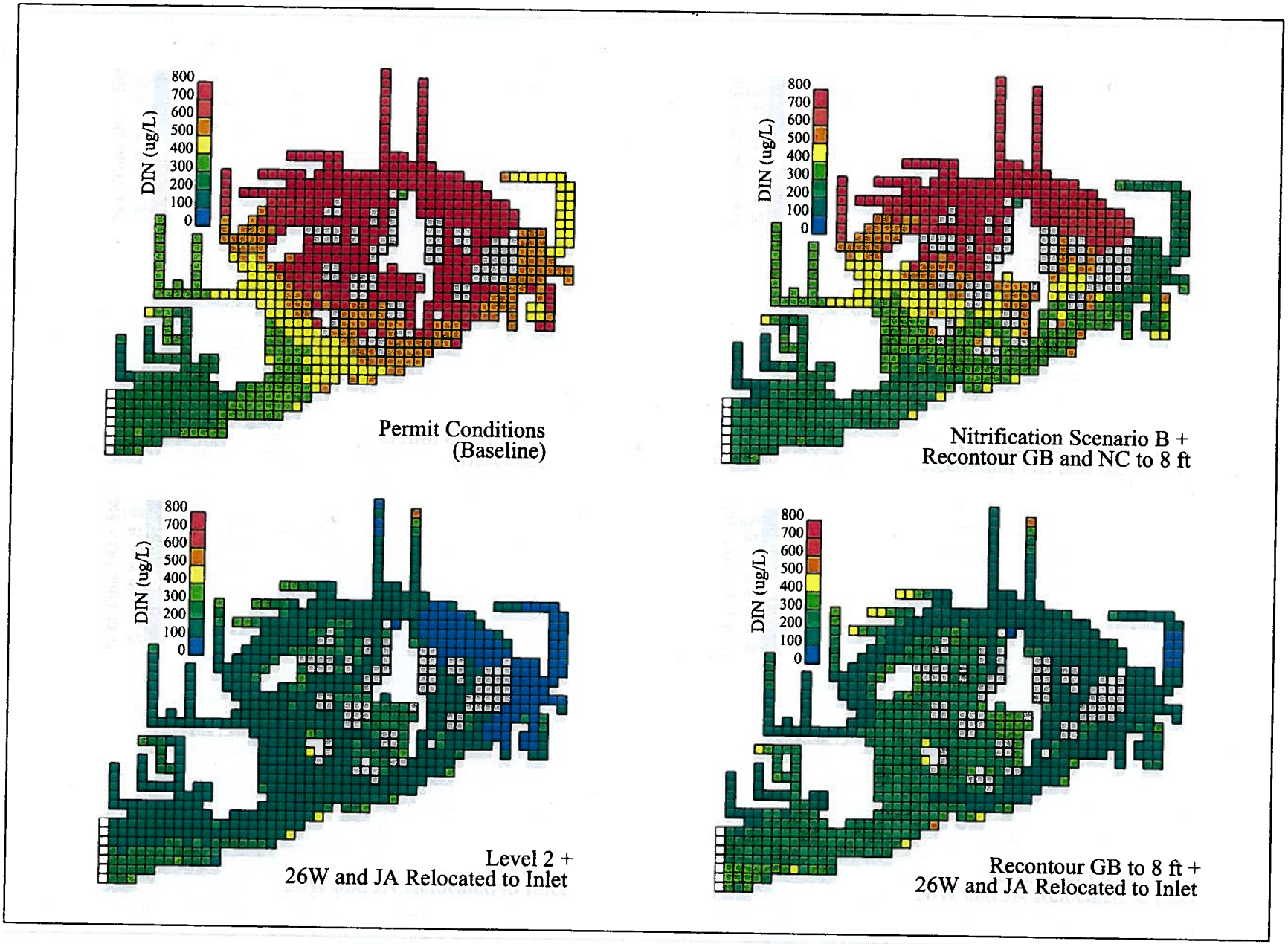

Figure 7-26 Summer Average Surface DIN Results, Combination Alternatives

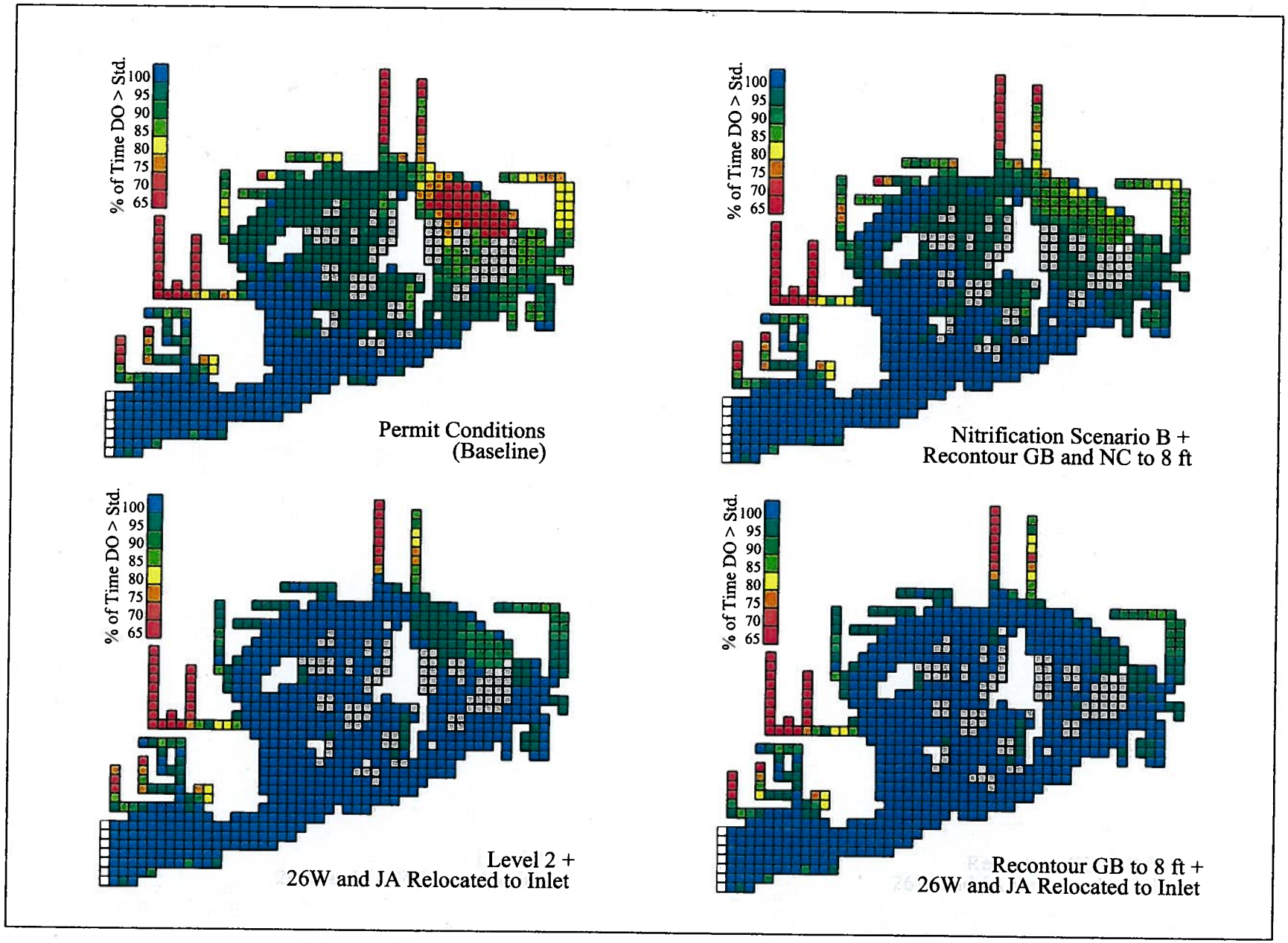

Figure 7-27 Percent of Time Bottom DO Greater than Current NYSDEC Standards, Annual, Combination Alternatives

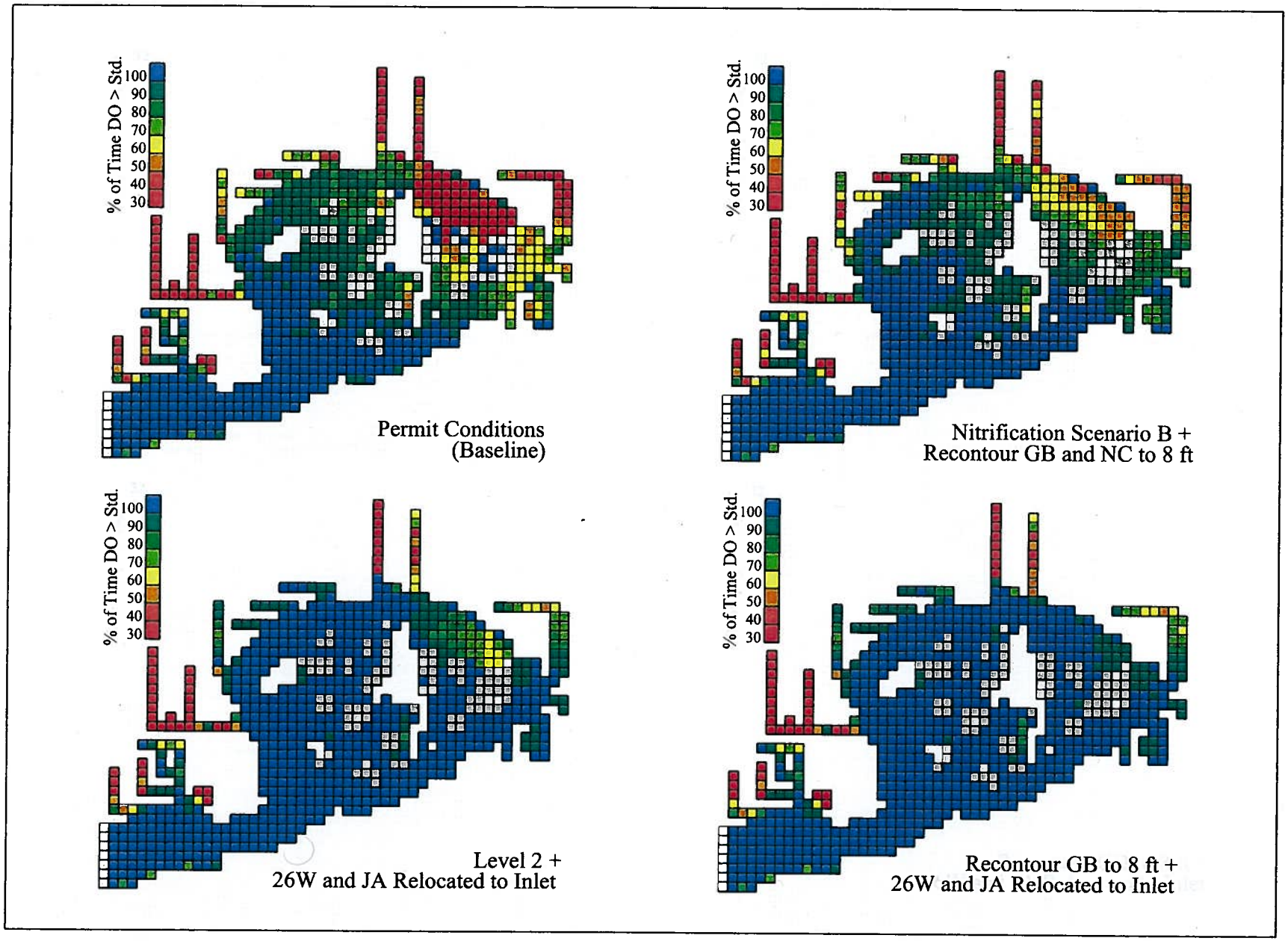

Figure 7-28 Percent of Time Bottom DO Greater than Current NYSDEC Standards, Summer, Combination Alternatives

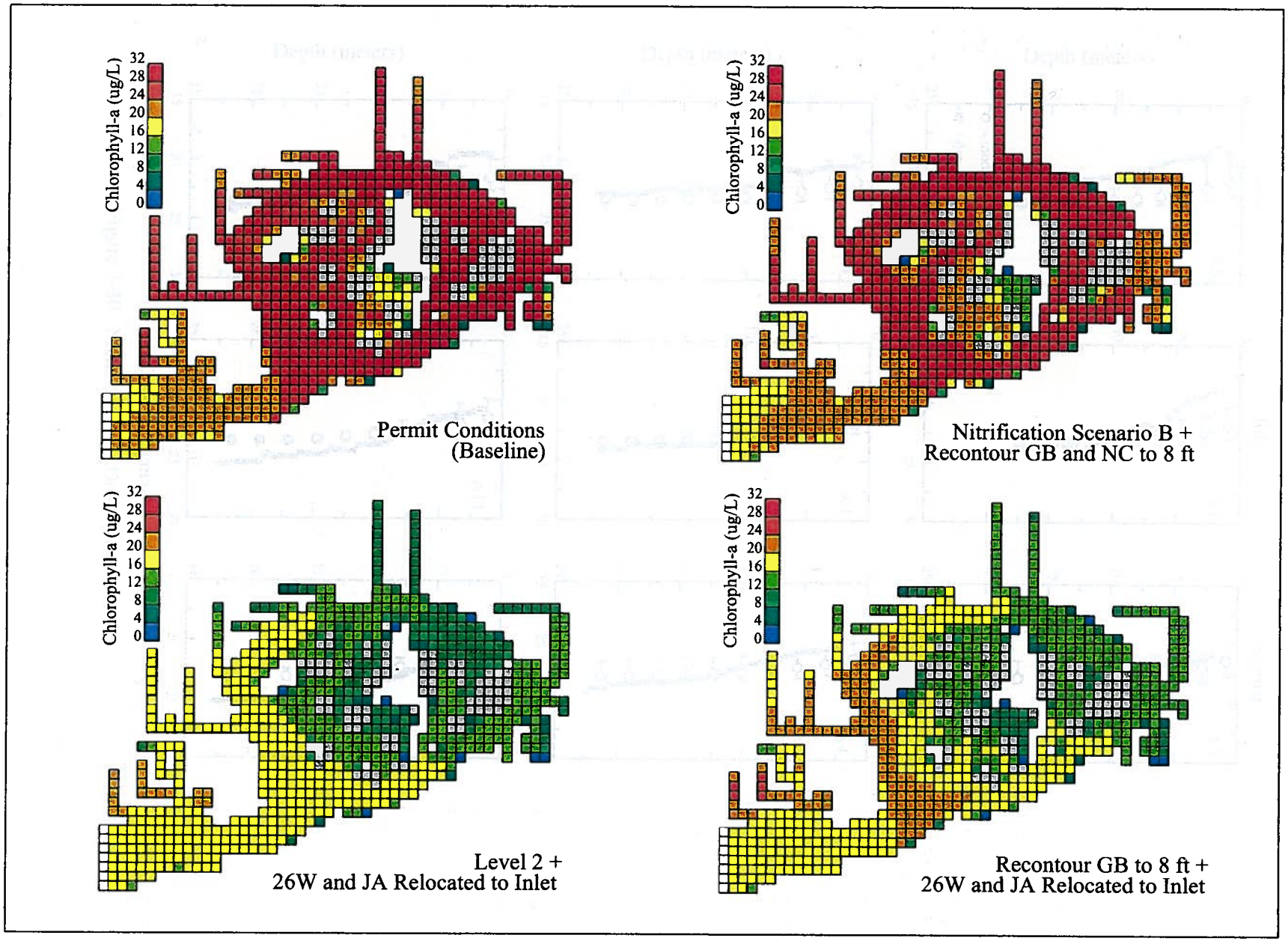

Figure 7-29 Annual Average Surface Chlorophyll-a Results, Combination Alternatives

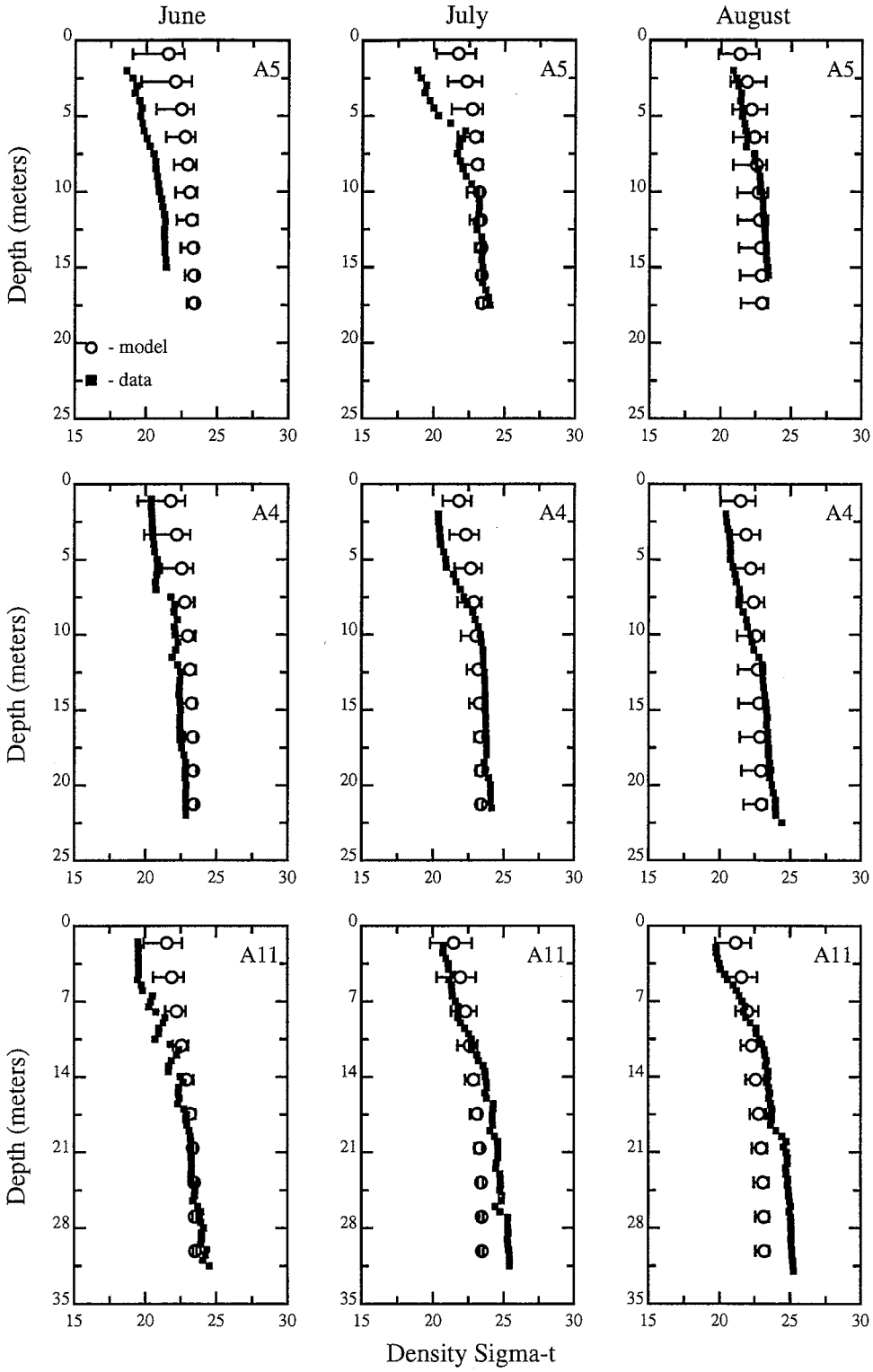

Figure 7-30 Model vs. Data Density Comparison

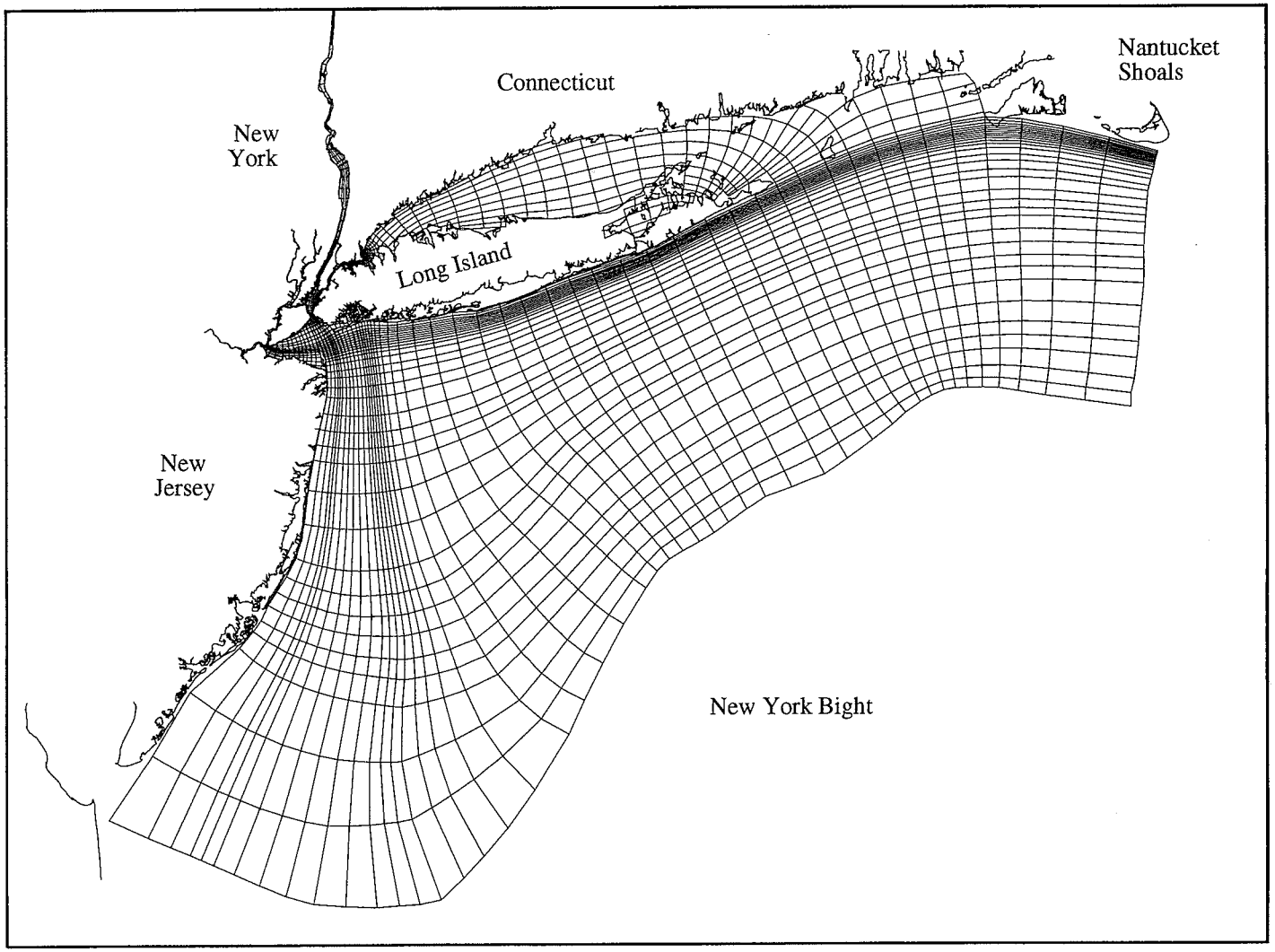

Figure 7-31 Model Grid

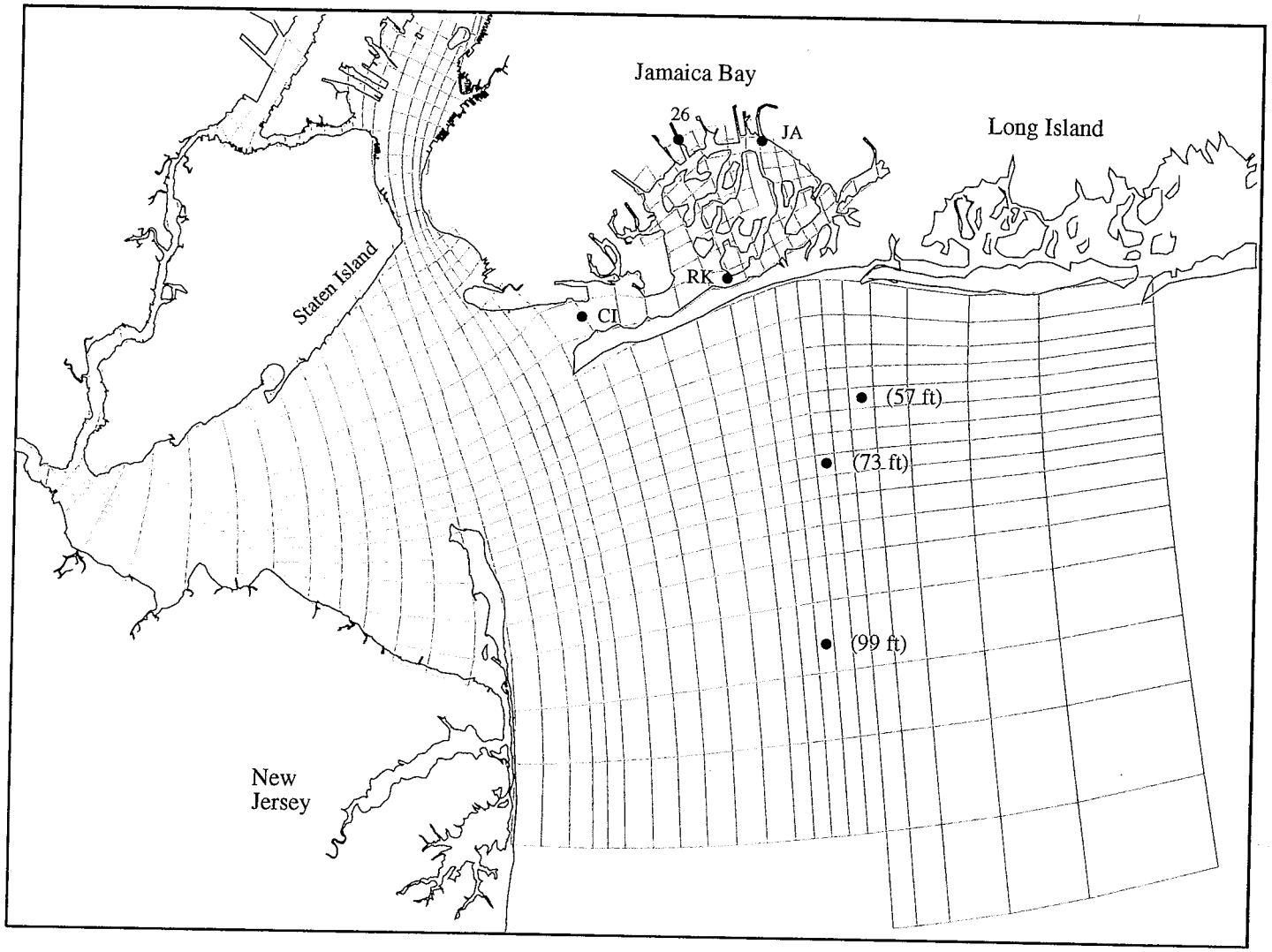

Figure 7-32 - Model Grid in Study Area

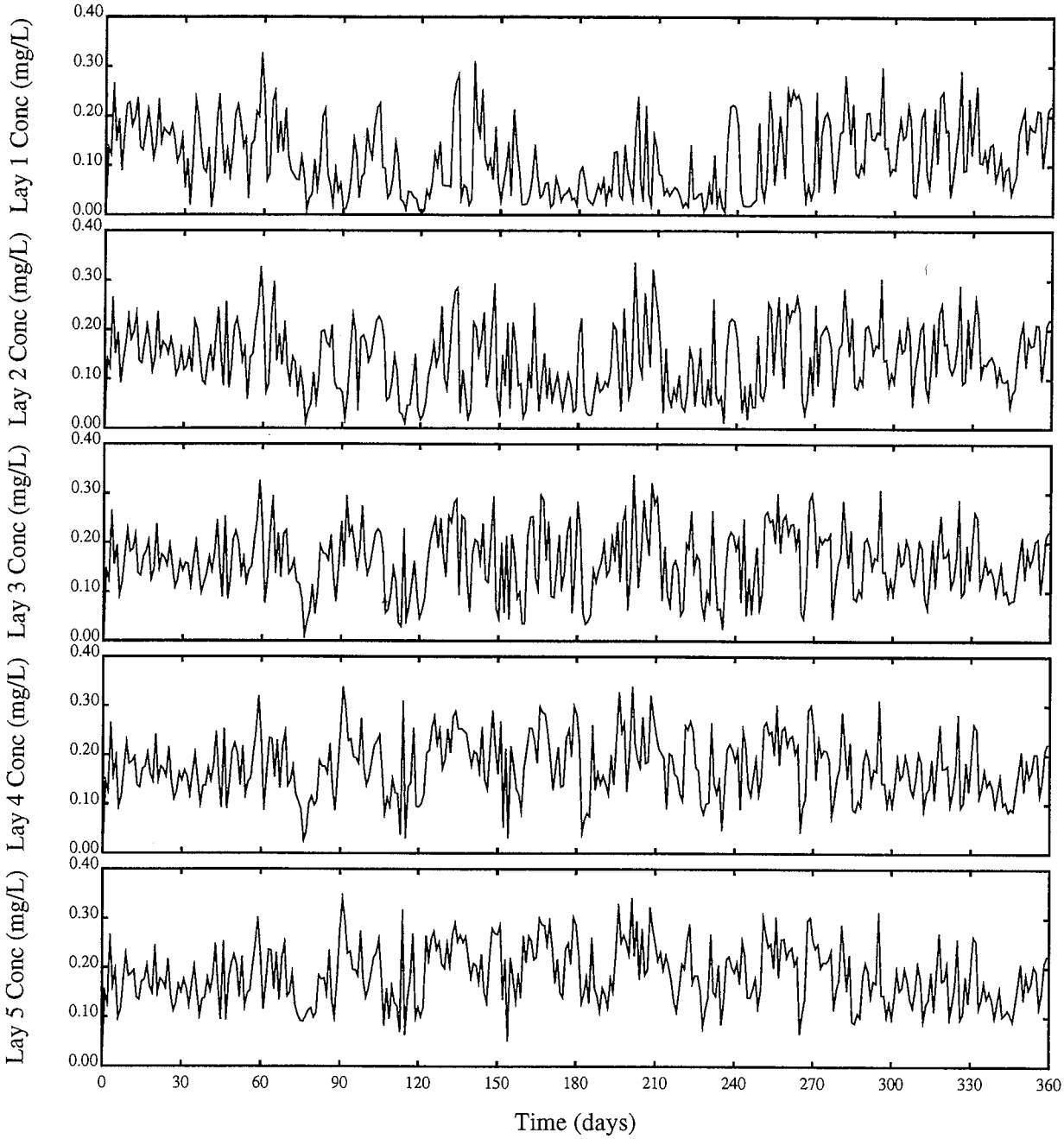

Figure 7-33 Model Dye Results - All Four WPCPs Discharging at 57 ft

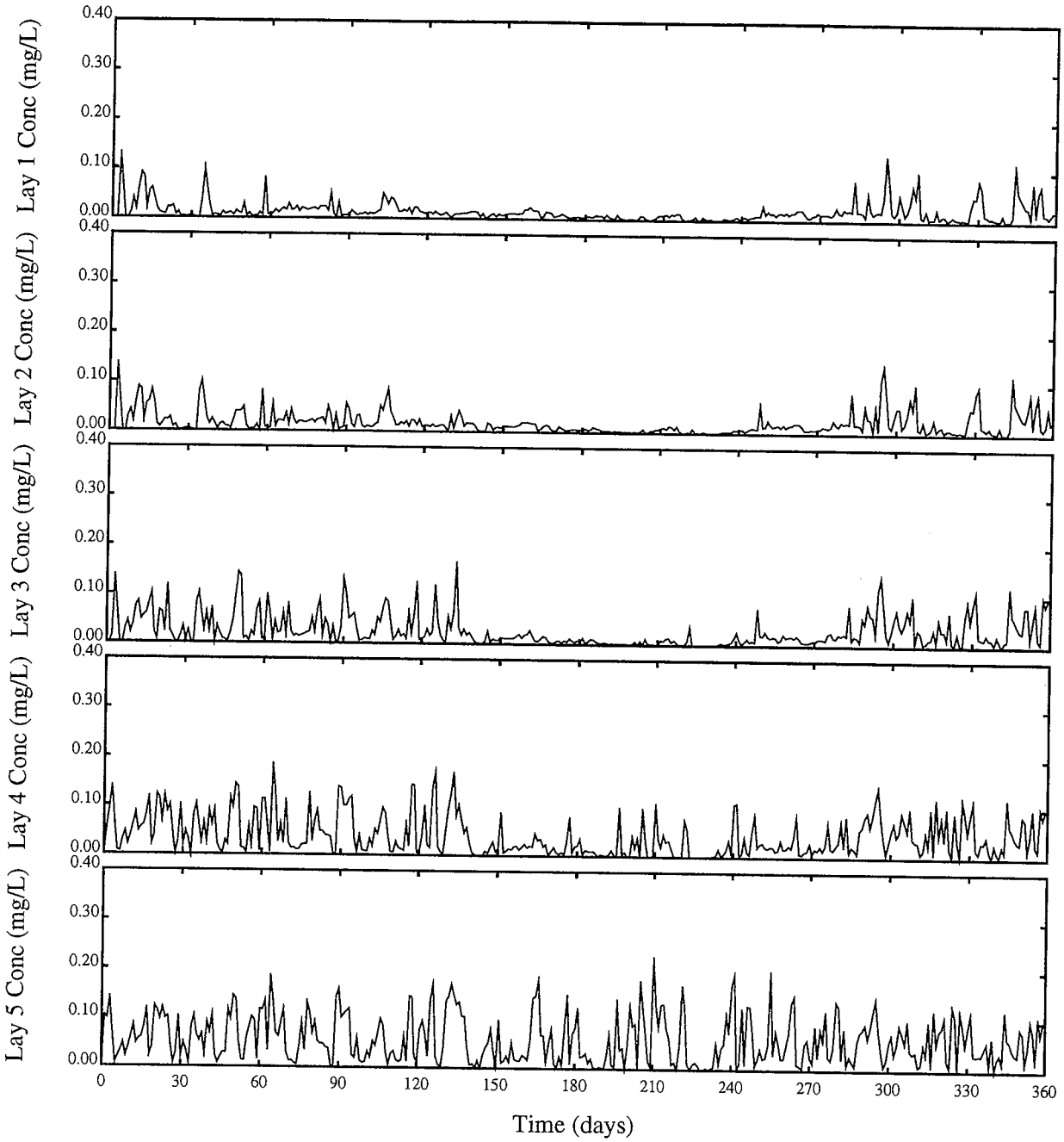

Figure 7-34 Model Dye Results - All Four WPCPs Discharging at 99 ft

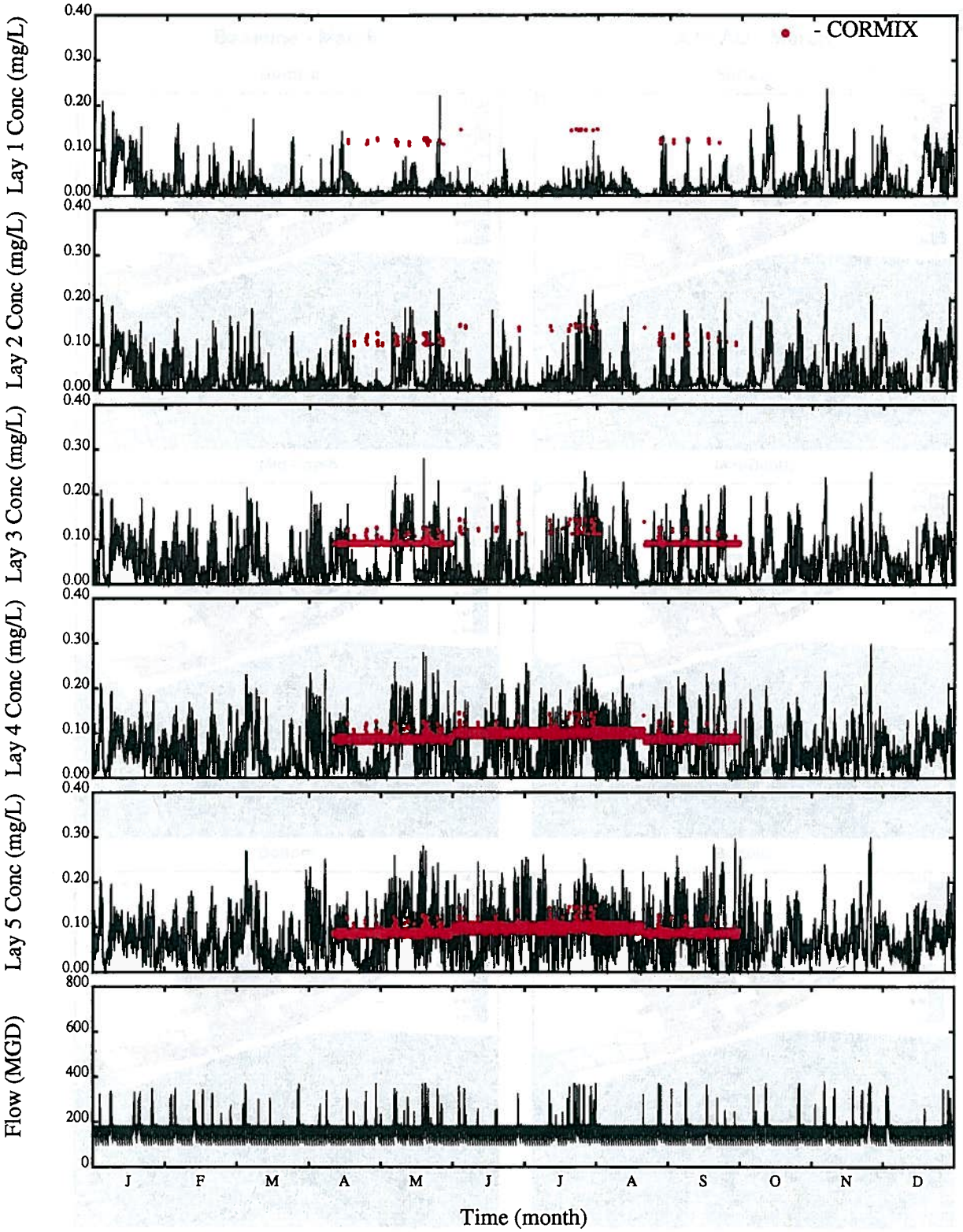

Figure 7-35 ECOM vs. CORMIX Comparison - Jamaica and 26th Ward WPCPs Discharging at 73 ft

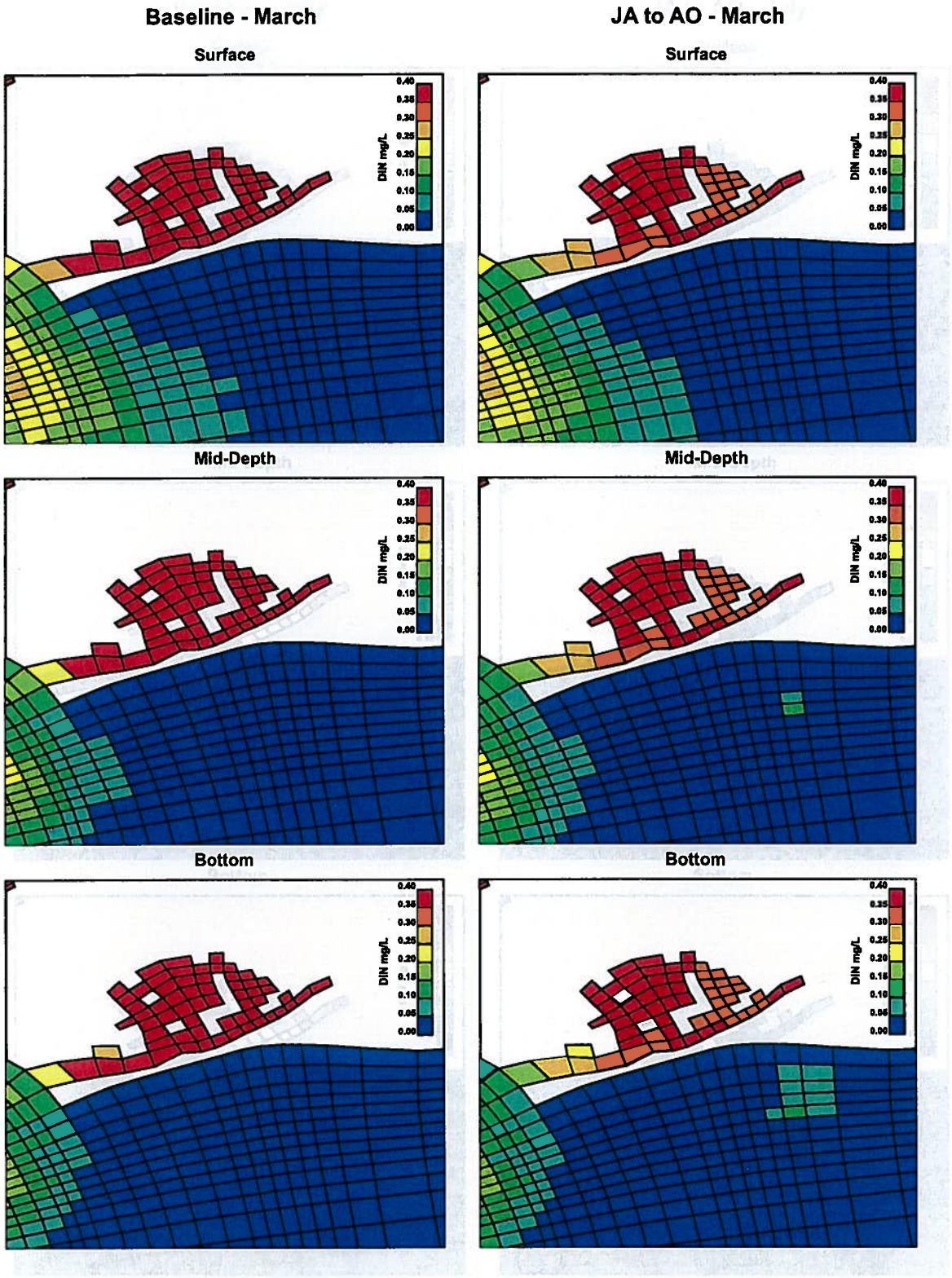

Figure 7-36 Baseline and Jamaica WPCP to the Ocean Results for DIN during March

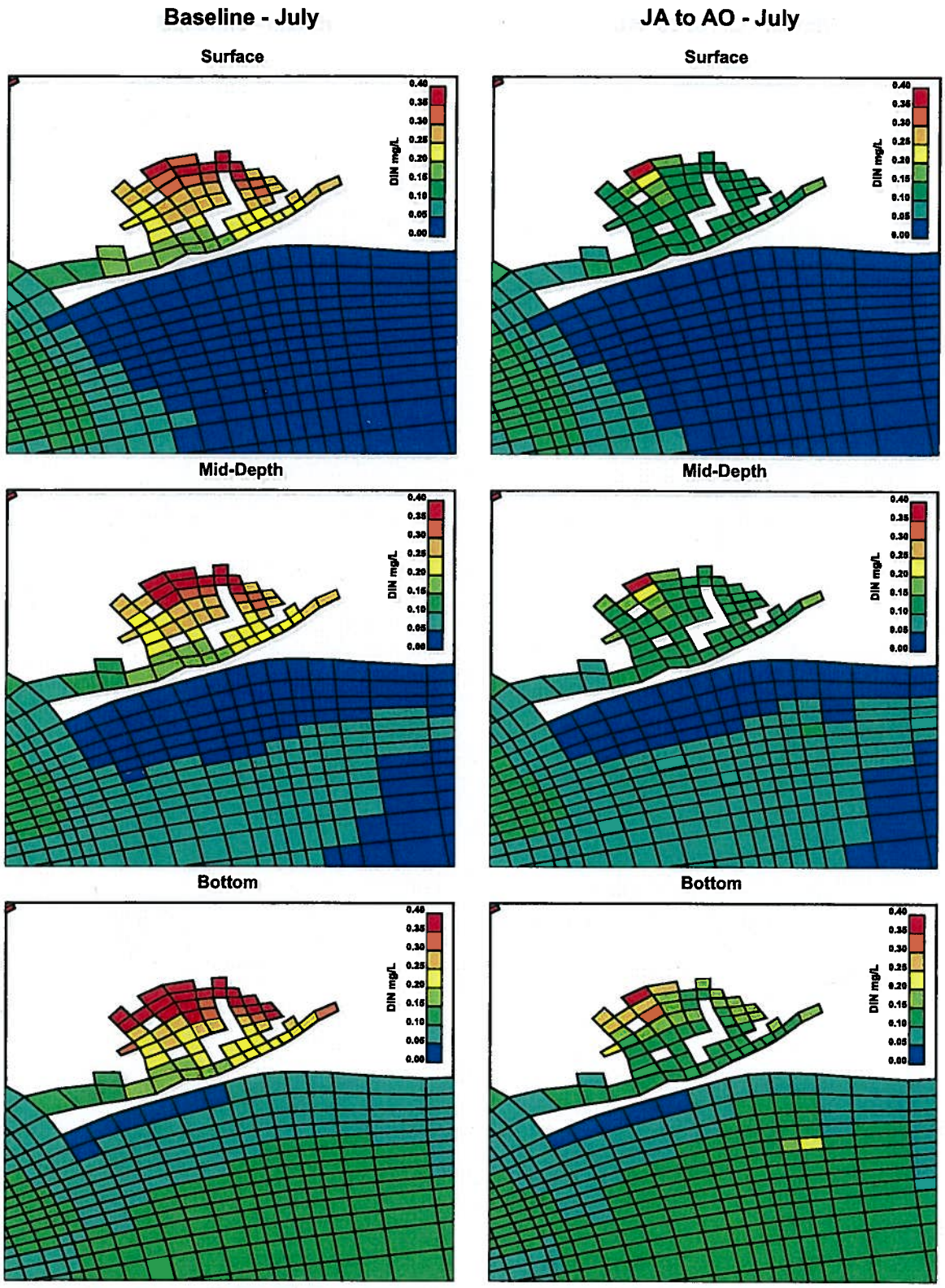

Figure 7-37 Baseline and Jamaica WPCP to the Ocean Results for DIN during July

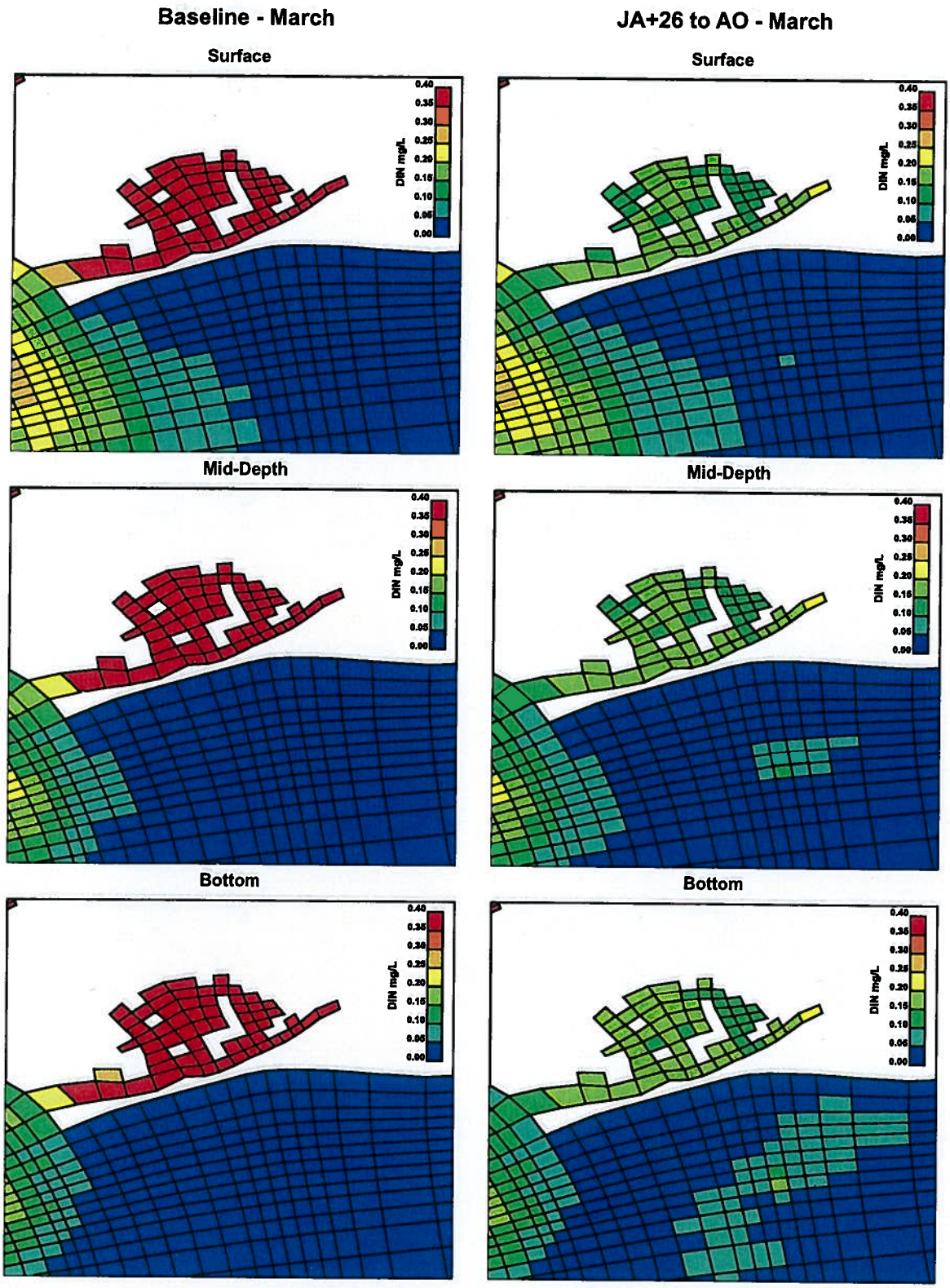

Figure 7-38 Baseline and Jamaica & 26th Ward WPCPs to the Ocean Results for DIN during March

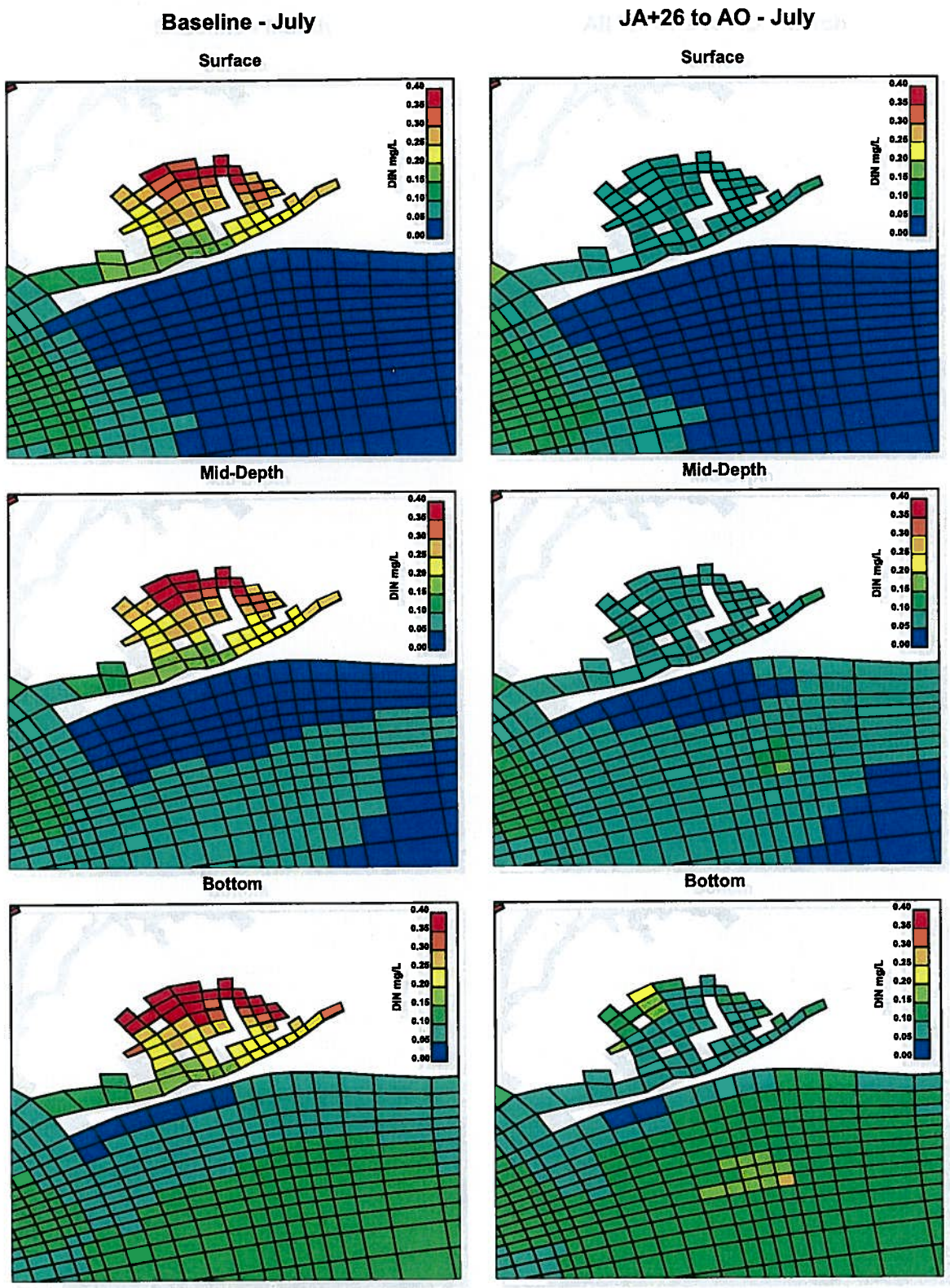

Figure 7-39 Baseline and Jamaica & 26th Ward WPCPs to the Ocean Results for DIN during July

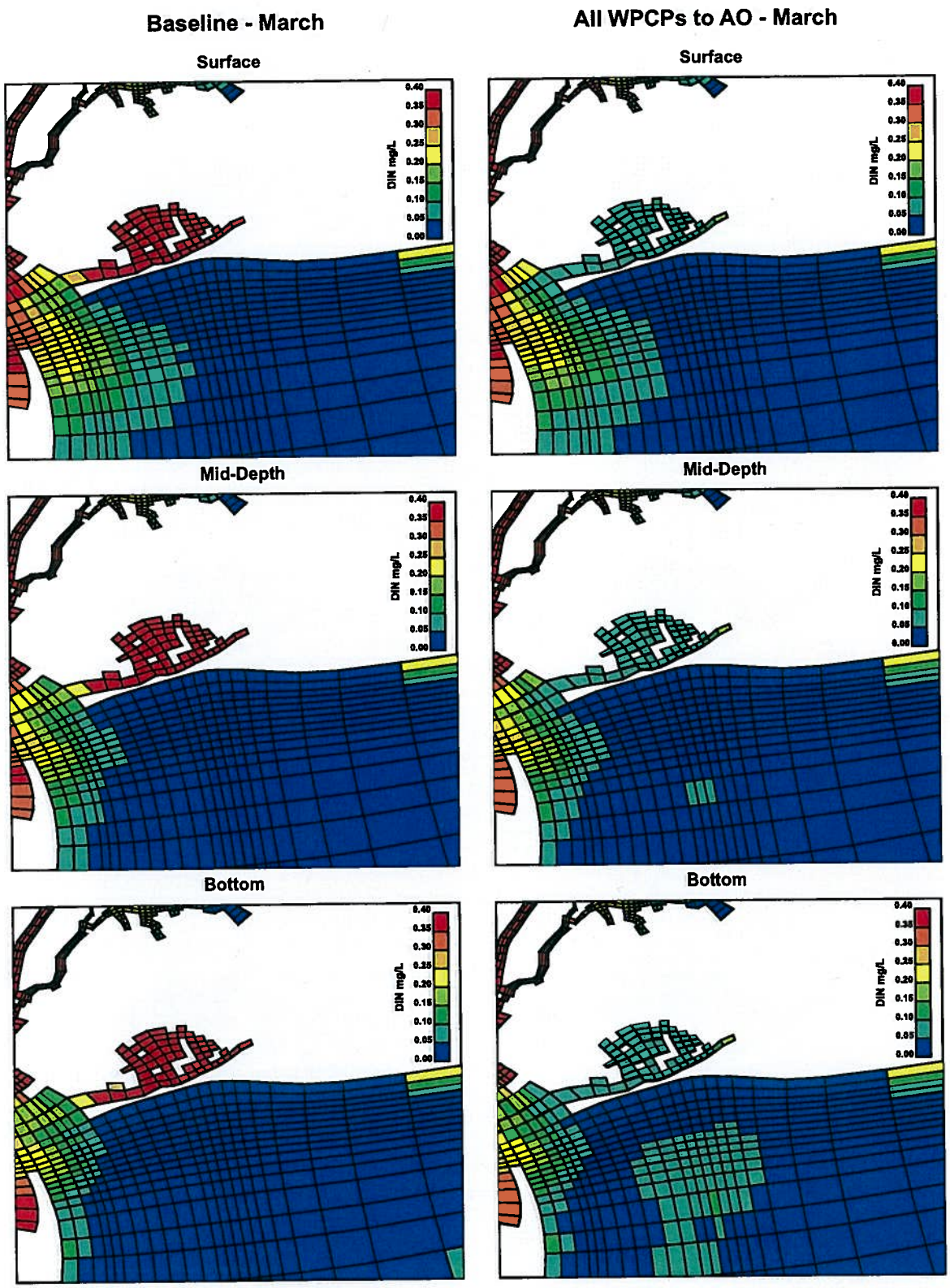

Figure 7-40 Baseline and All WPCPs to the Ocean Results for DIN during March

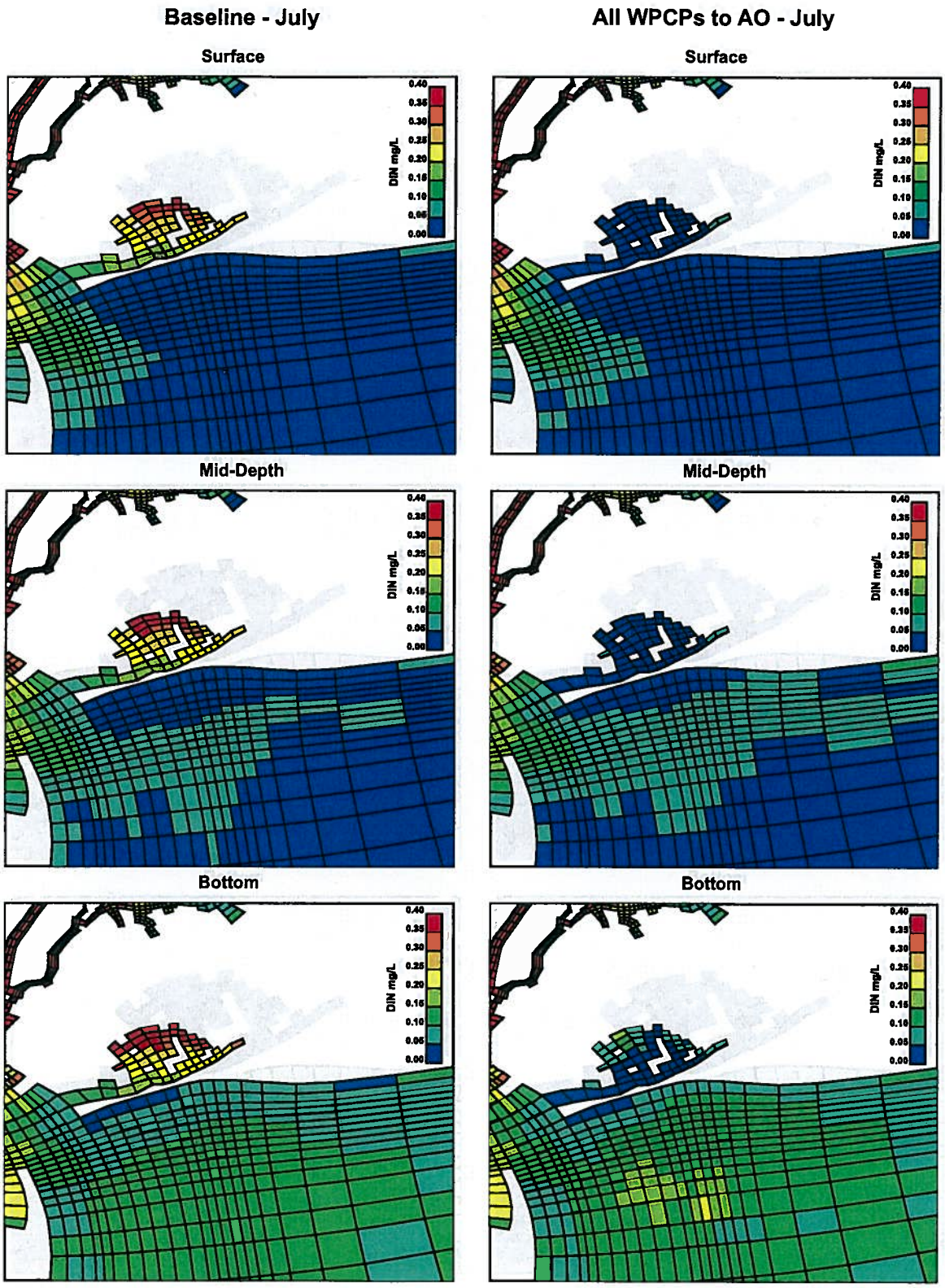

Figure 7-41 Baseline and All WPCPs to the Ocean Results for DIN during July

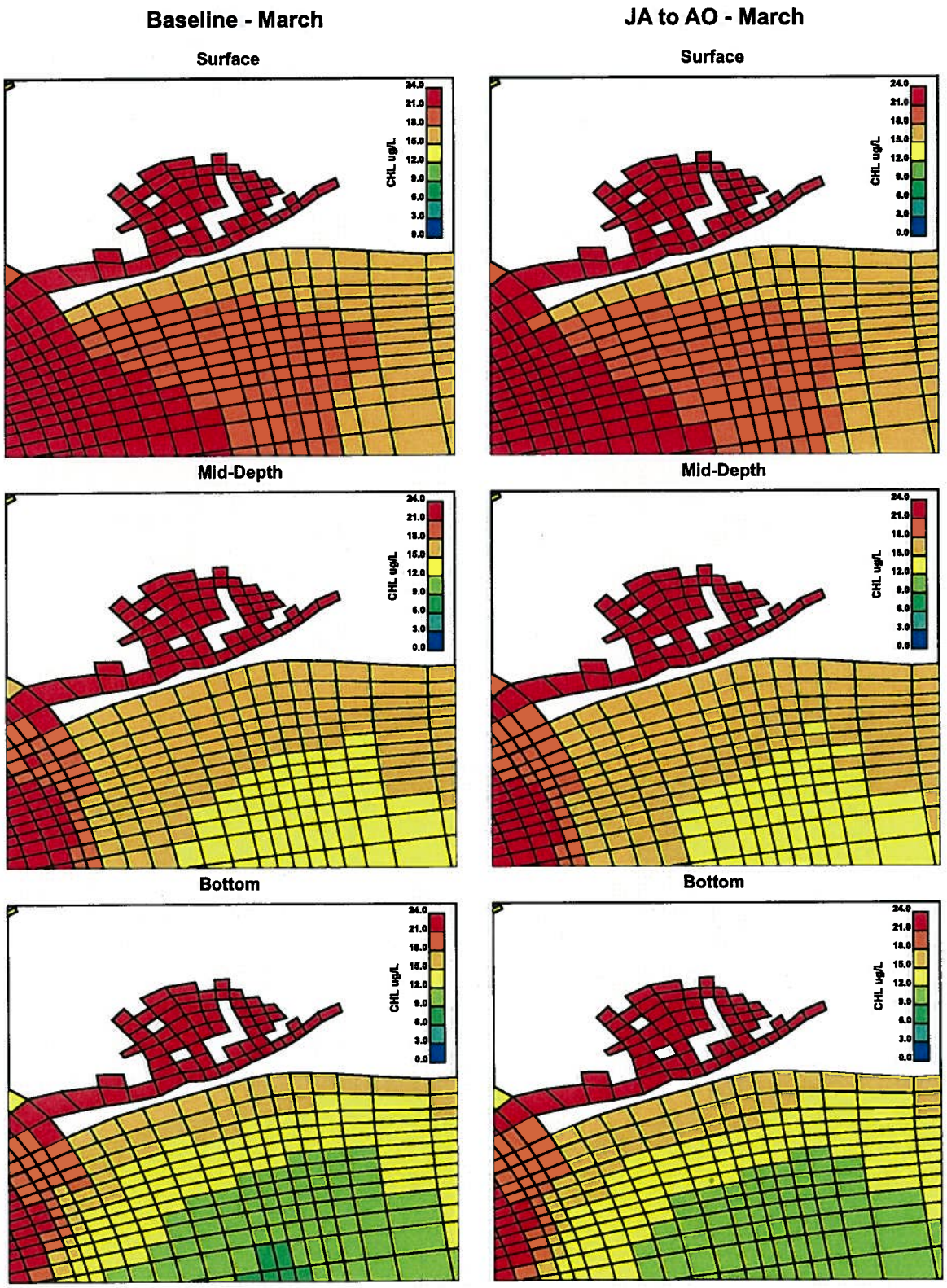

Figure 7-42 Baseline and Jamaica WPCP to the Ocean Results for Chl-a during March

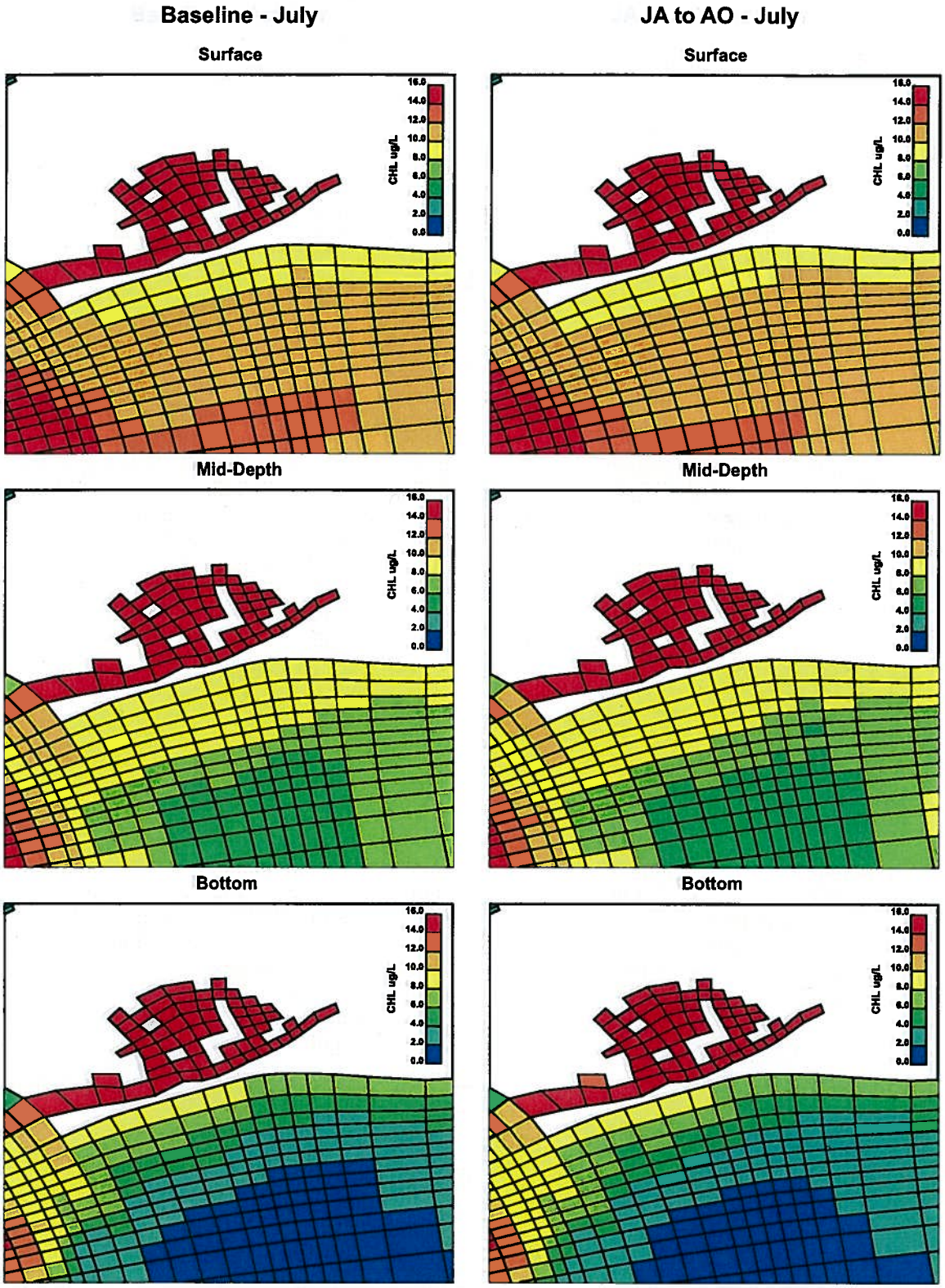

Figure 7-43 Baseline and Jamaica WPCP to the Ocean Results for Chl-a during July

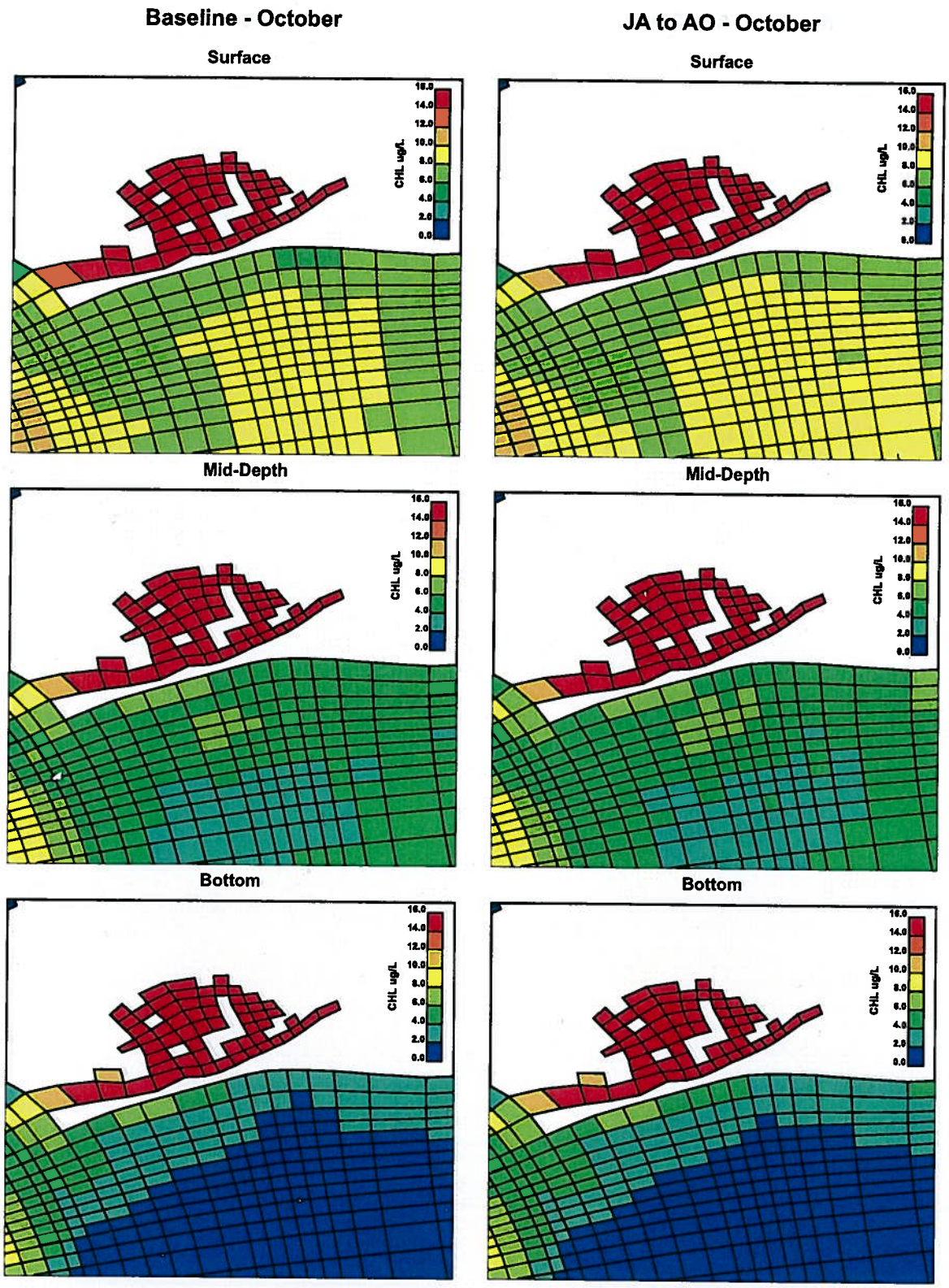

Figure 7-44 Baseline and Jamaica WPCP to the Ocean Results for Chl-a during October

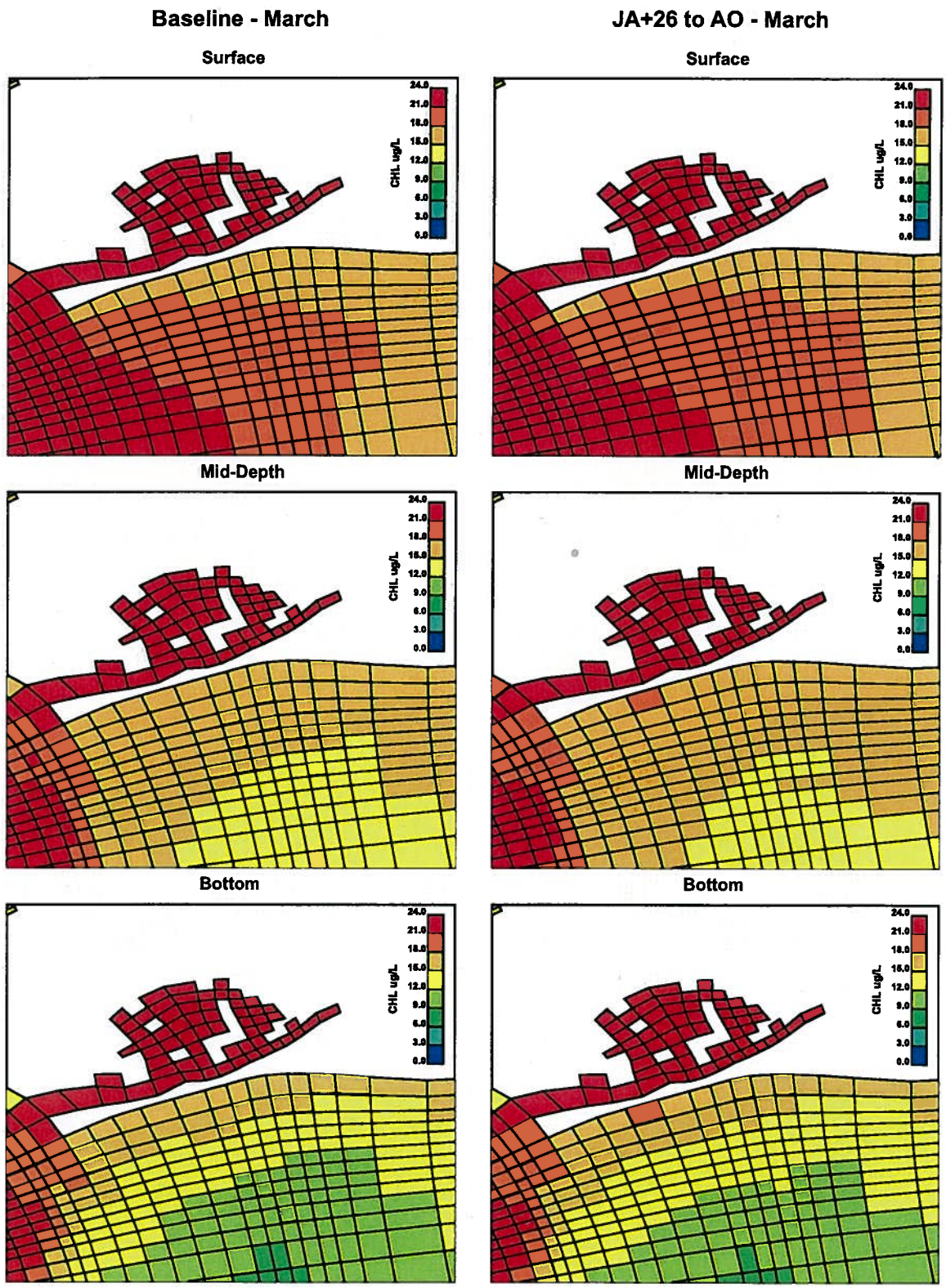

Figure 7-45 Baseline and Jamaica & 26th Ward WPCPs to the Ocean Results for Chl-a during March

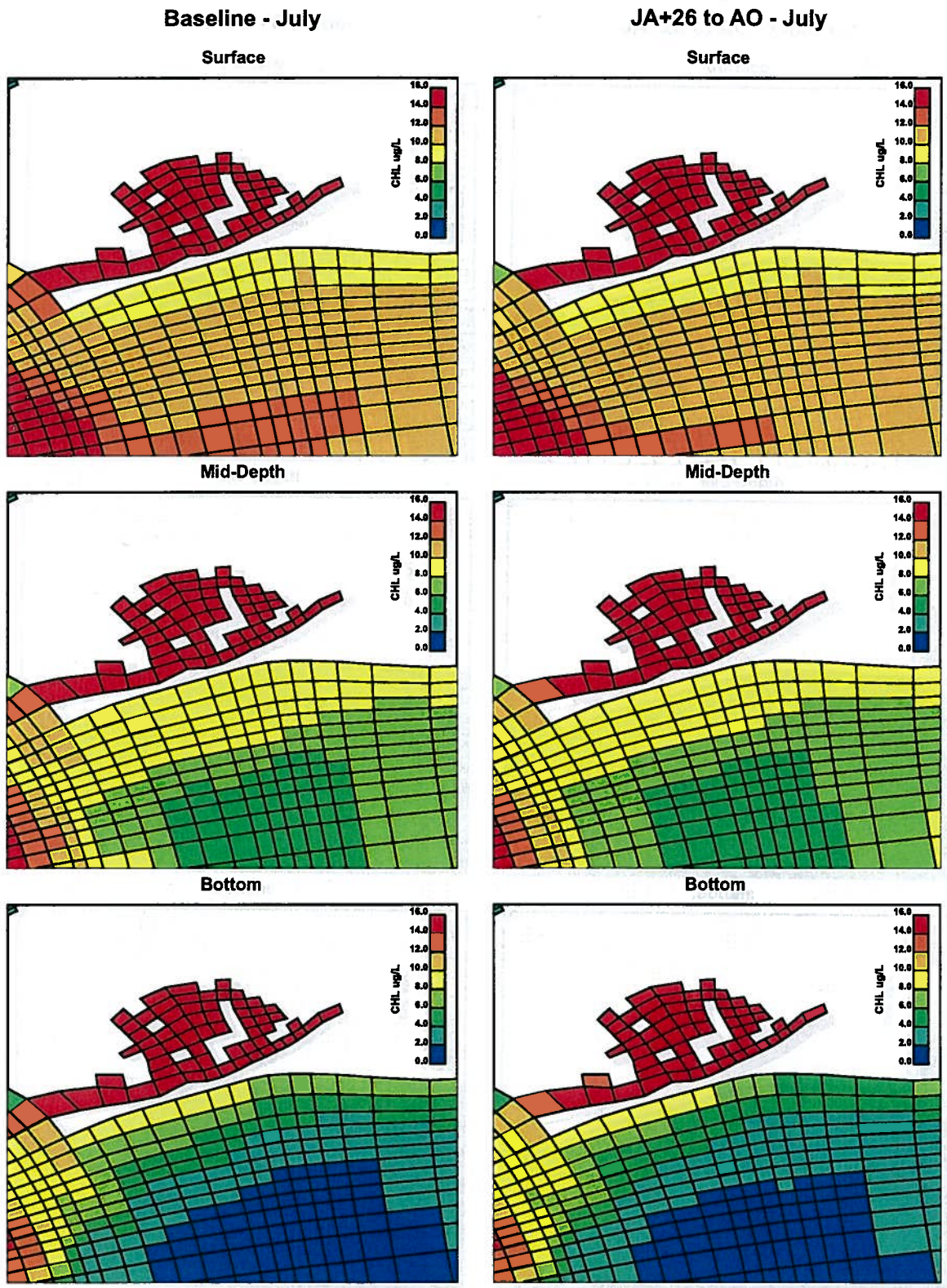

Figure 7-46 Baseline and Jamaica & 26th Ward WPCPs to the Ocean Results for Chl-a during July

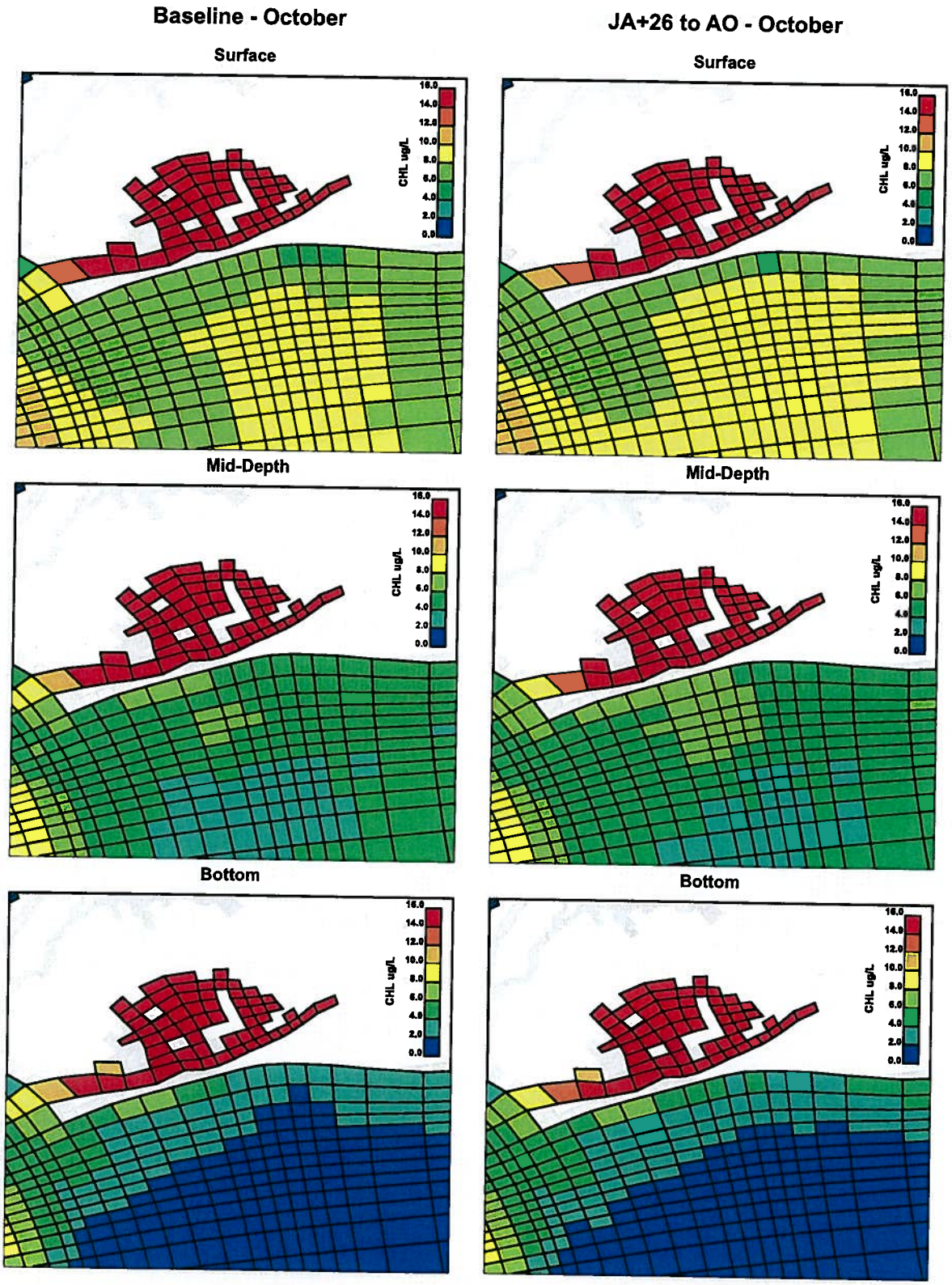

Figure 7-47 Baseline and Jamaica & 26th Ward WPCPs to the Ocean Results for Chl-a during October

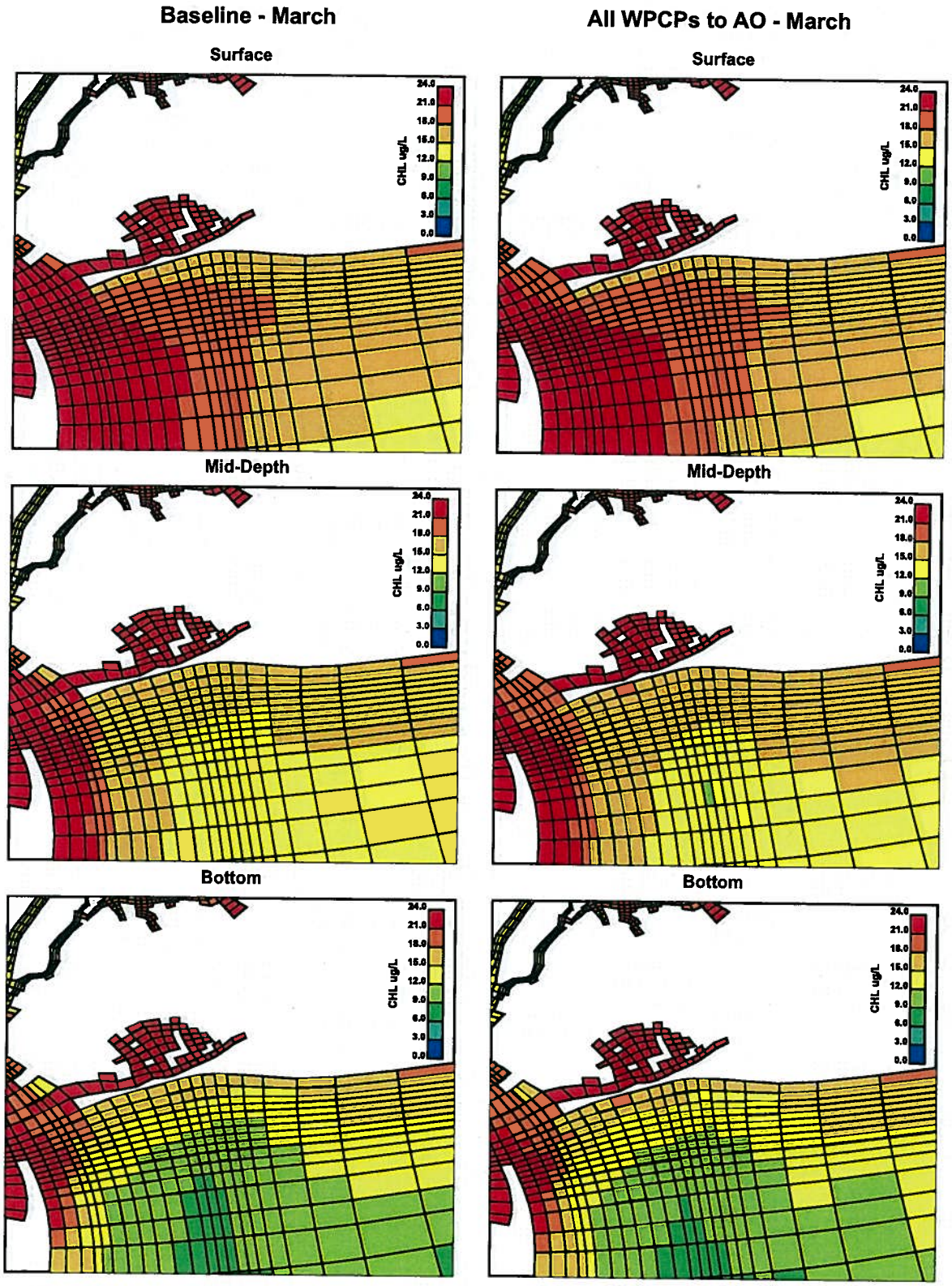

Figure 7-48 Baseline and All WPCPs to the Ocean Results for Chl-a during March

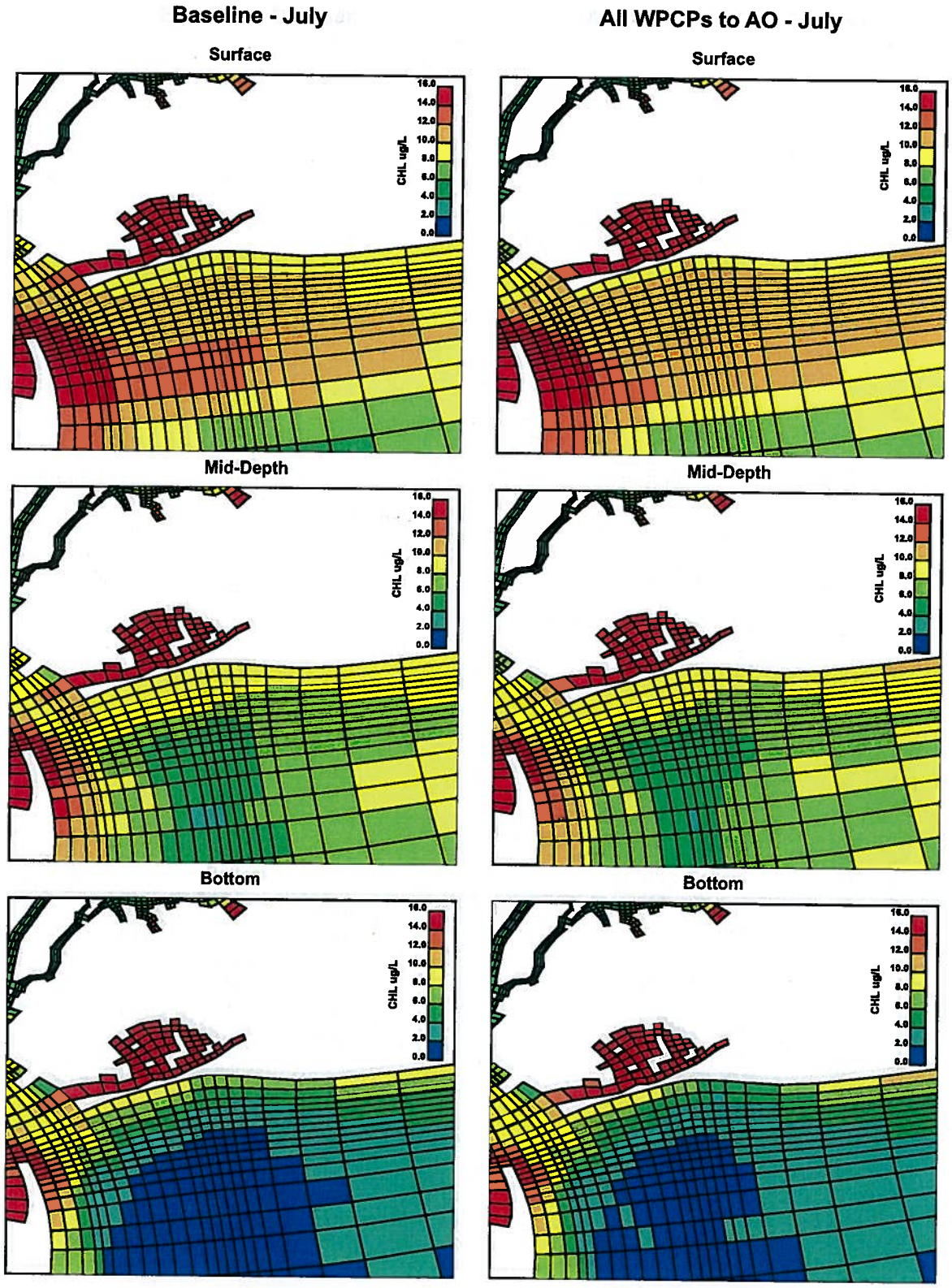

Figure 7-49 Baseline and All WPCPs to the Ocean Results for Chl-a during July

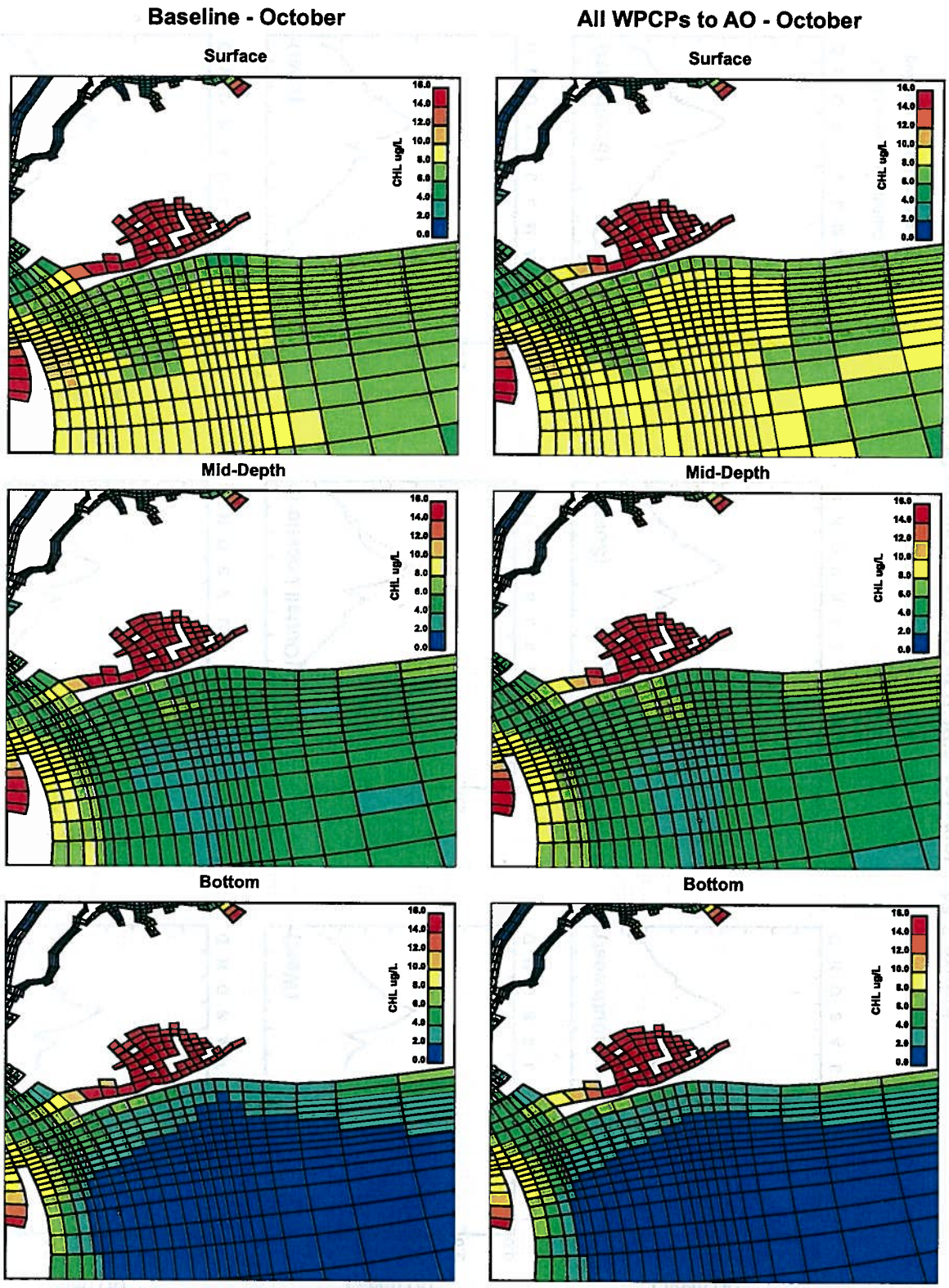

Figure 7-50 Baseline and All WPCPs to the Ocean Results for Chl-a during October

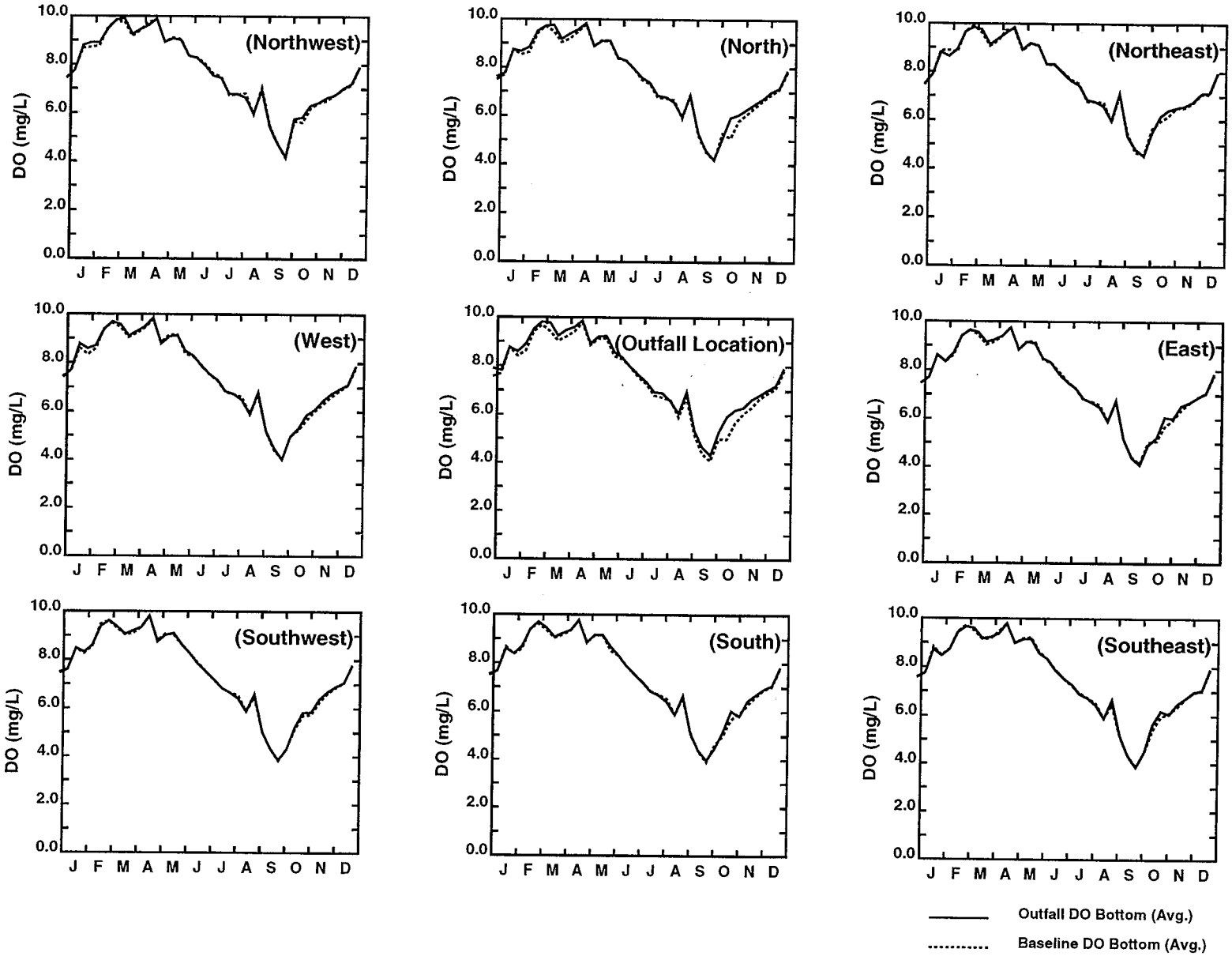

Figure 7-51 Jamaica WPCP to Ocean - Bottom DO Modeling Results

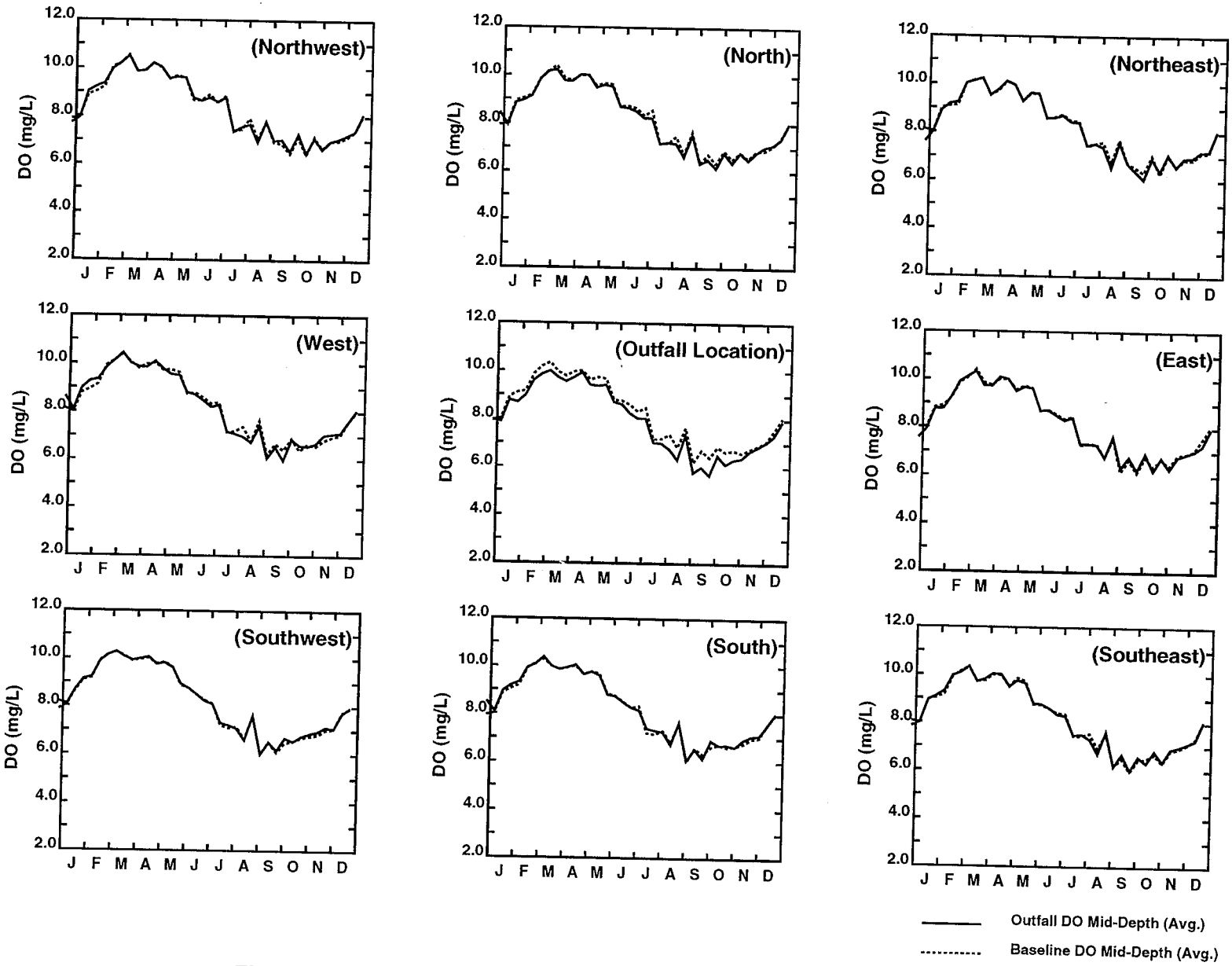

Figure 7-52 Jamaiaca WPCP to Ocean - Mid-Depth DO Modeling Results

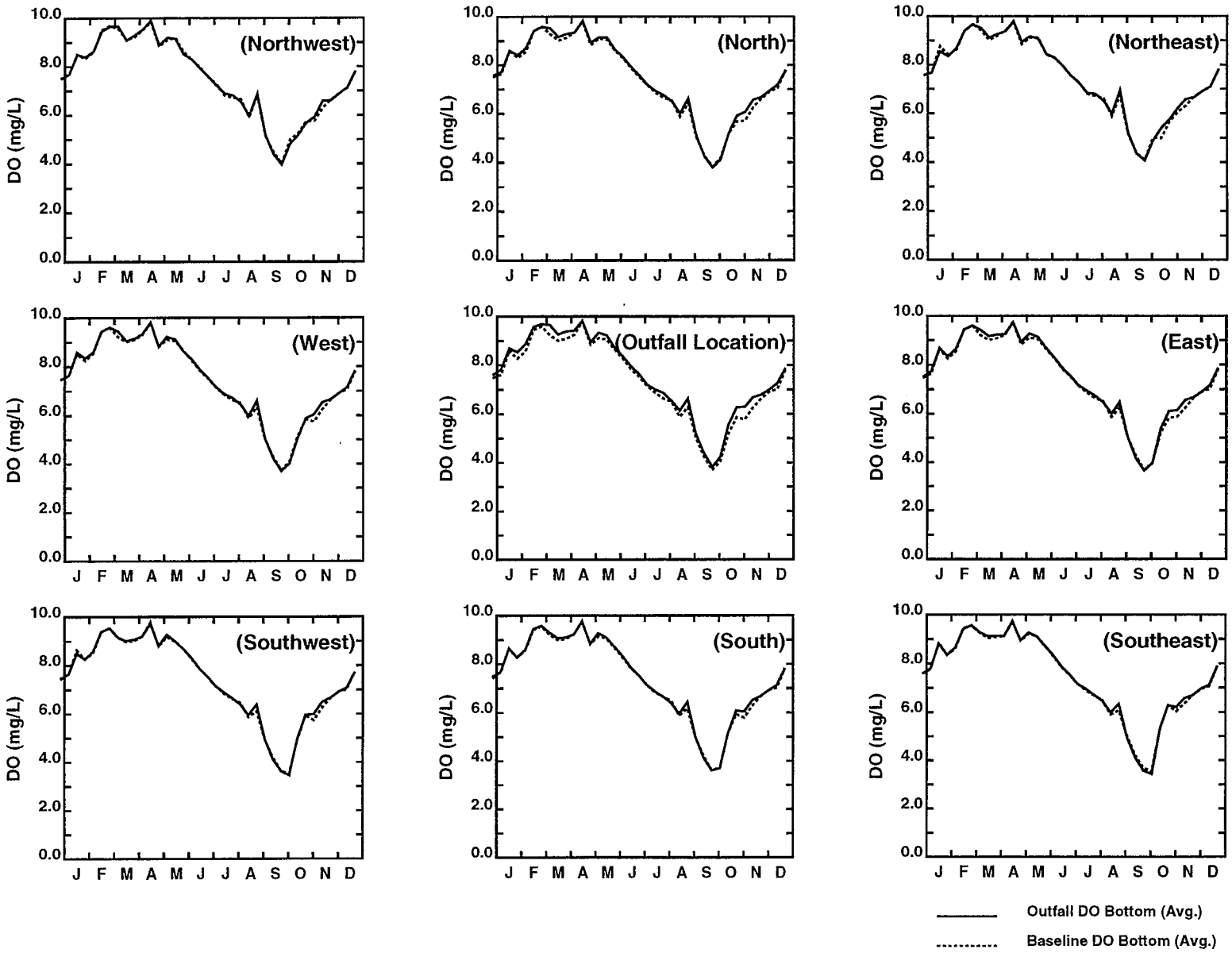

Figure 7-53 Jamaica and 26th Ward WPCPs to Ocean - Bottom DO Modeling Results

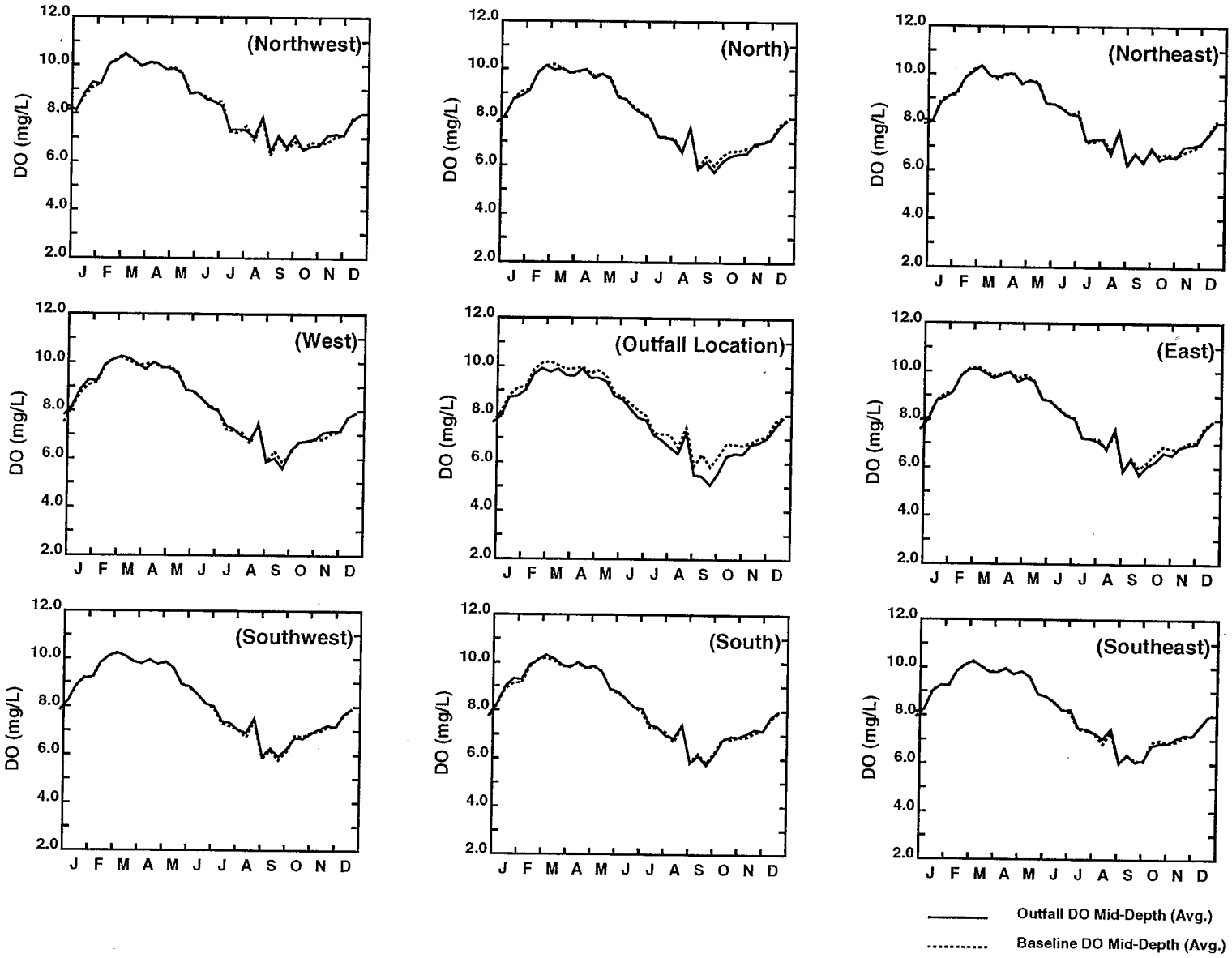

Figure 7-54 Jamaica and 26th Ward WPCPs to Ocean - Mid-Depth DO Modeling Results

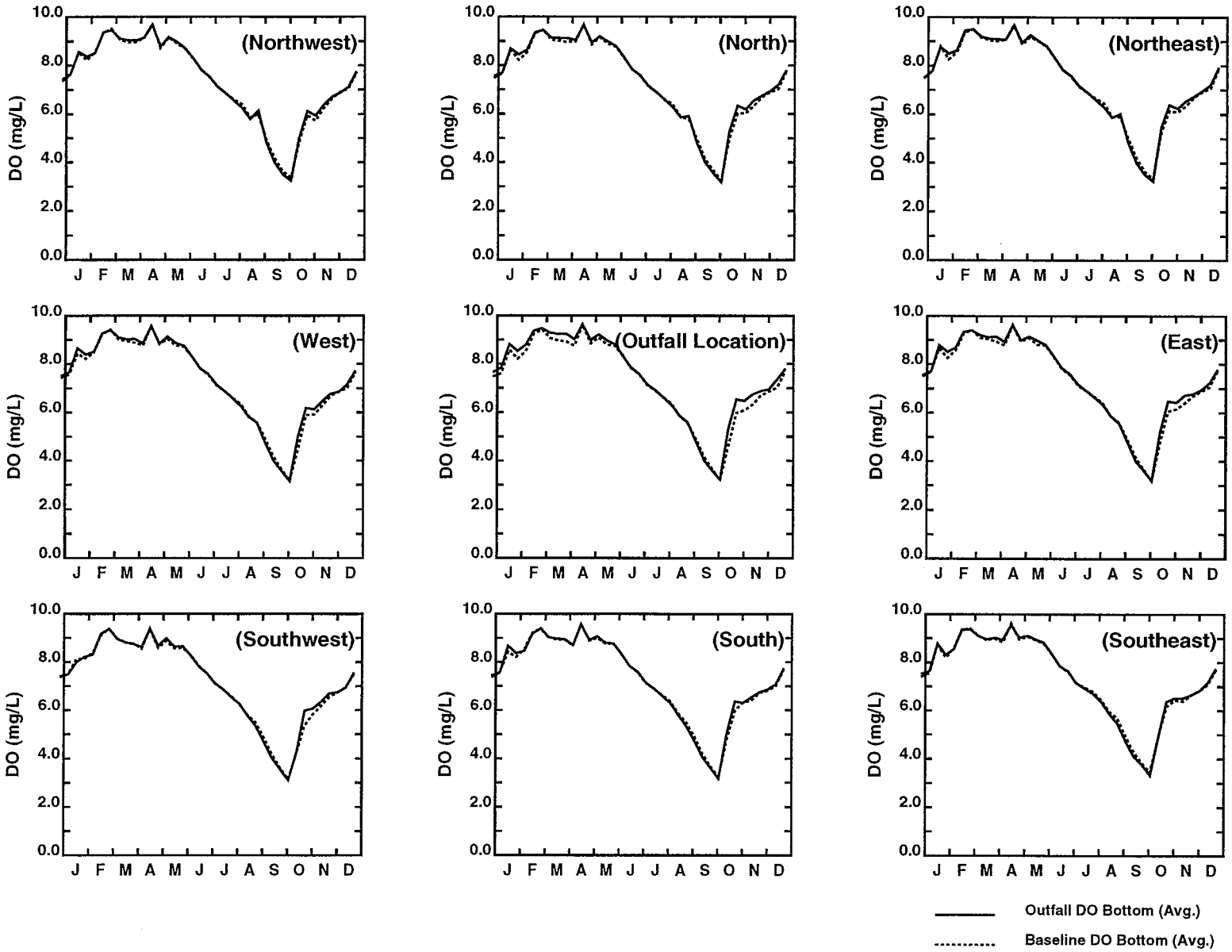

Figure 7-55 All WPCPs to Ocean - Bottom DO Modeling Results

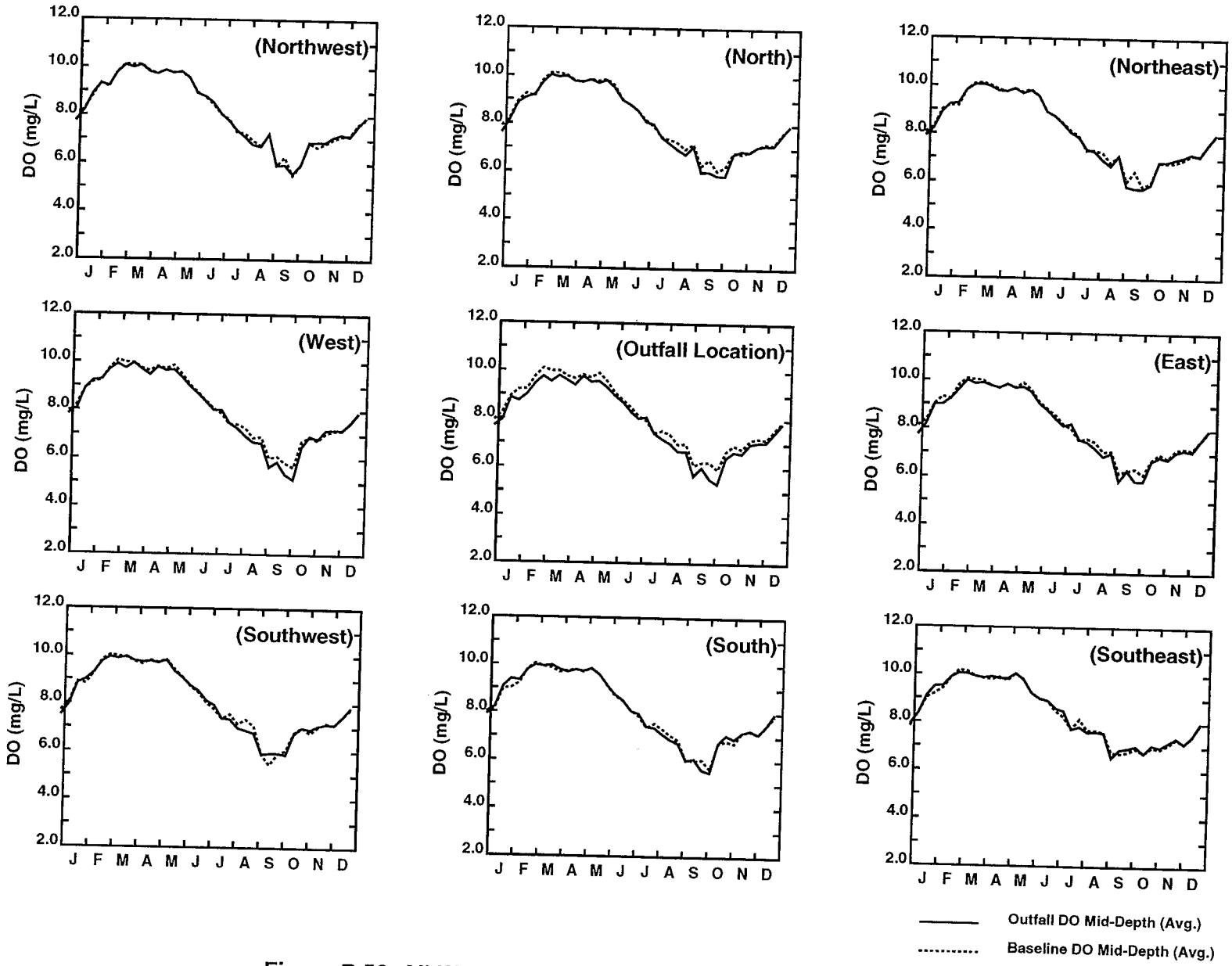

Figure 7-56 All WPCPs to Ocean - Mid-Depth DO Modeling Results

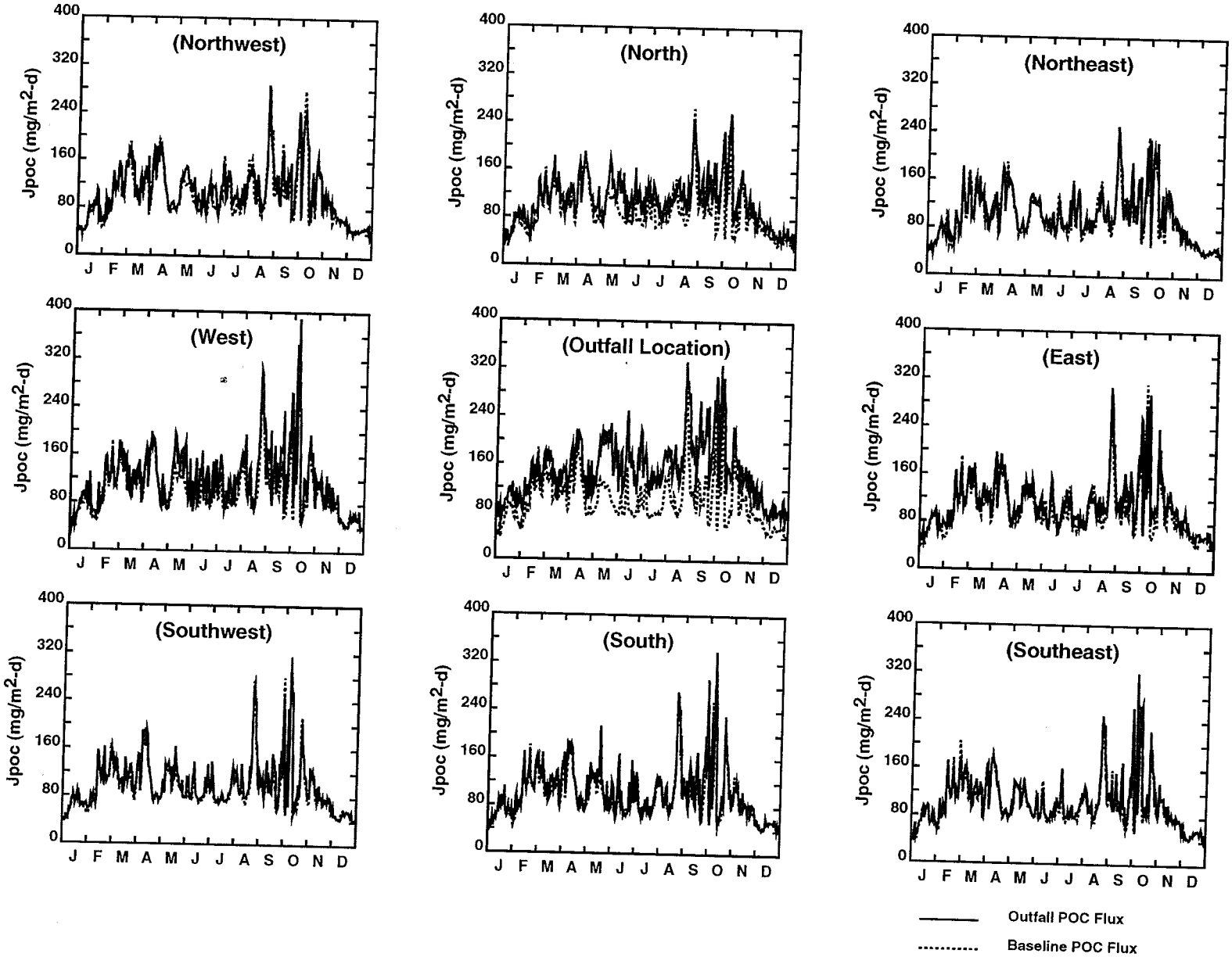

Figure 7-57 Jamaica WPCP to Ocean - POC Flux Modeling Results

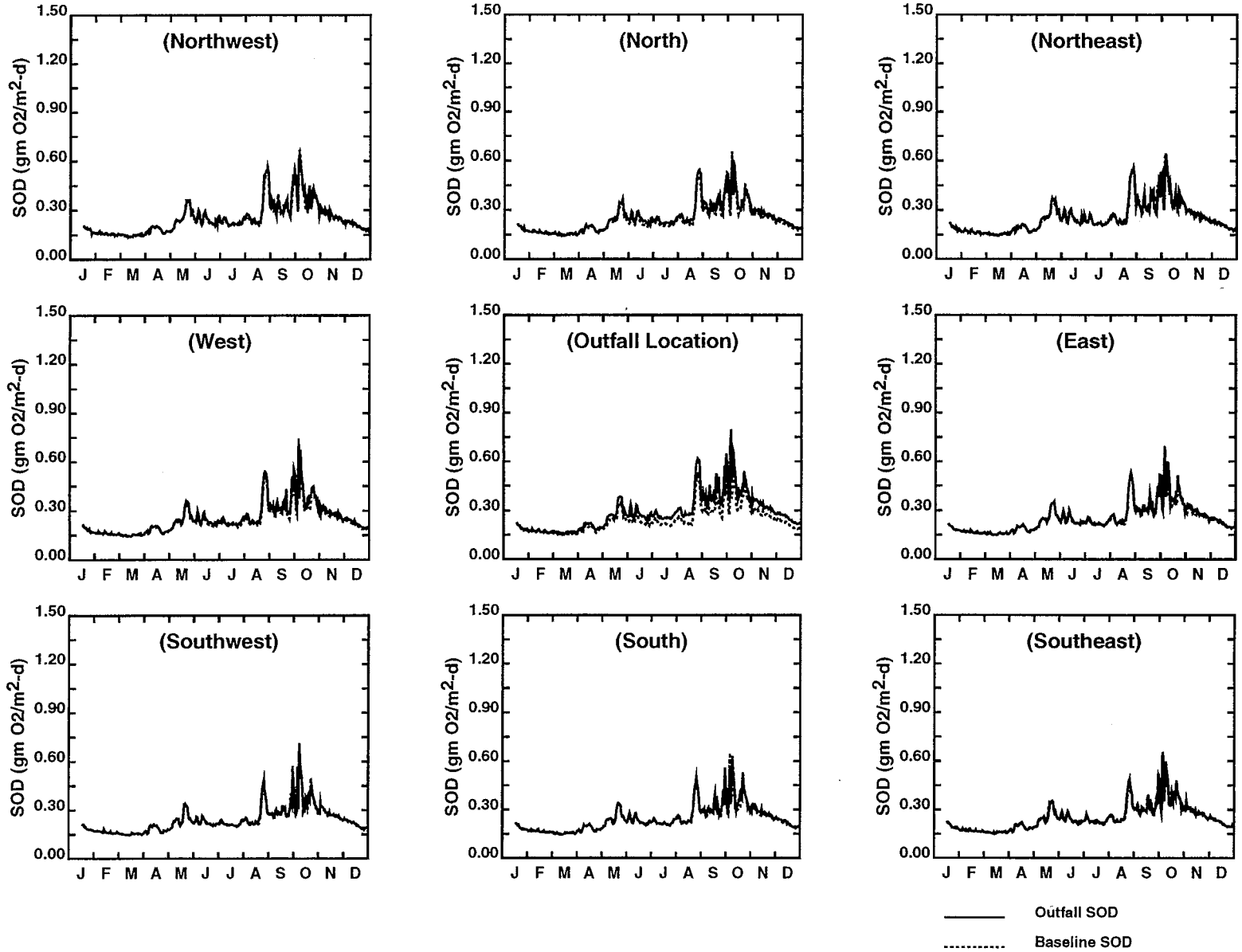

Figure 7-58 Jamaica WPCP to Ocean - Sediment Oxygen Demand Modeling Results

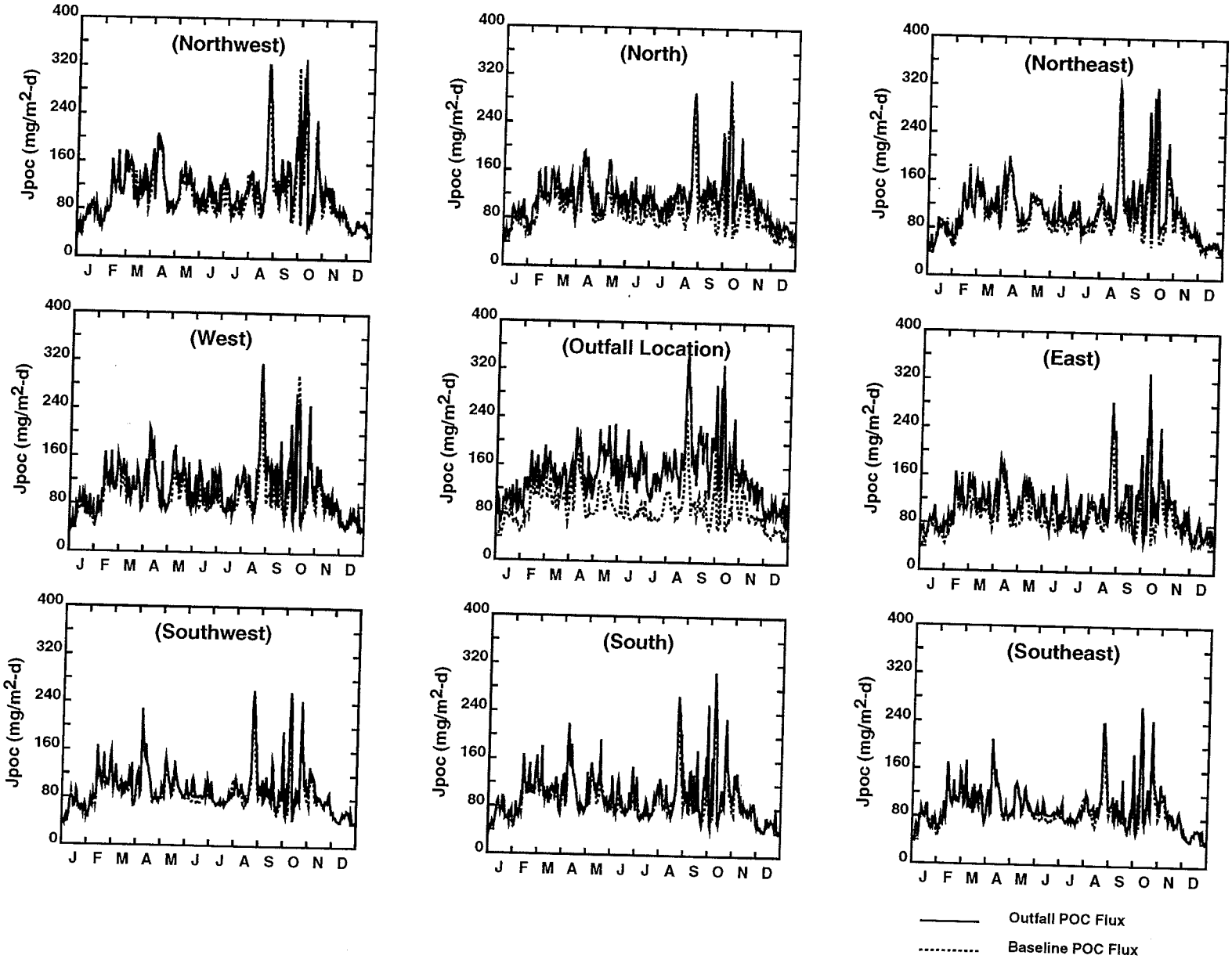

Figure 7-59 Jamaica and 26th Ward WPCPs to Ocean - POC Flux Modeling Results

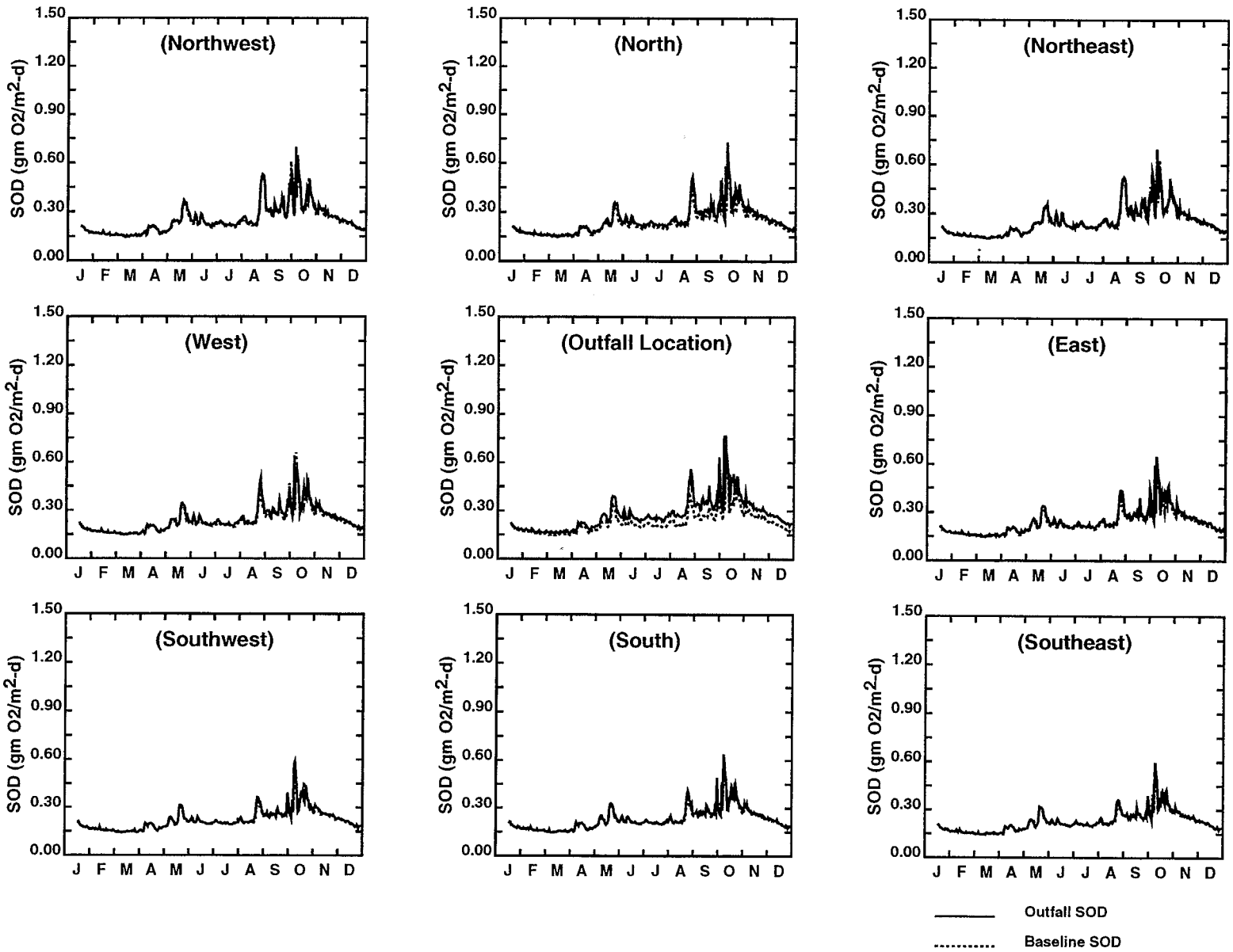

Figure 7-60 Jamaica and 26th Ward WPCPs to Ocean - Sediment Oxygen Demand Modeling Results

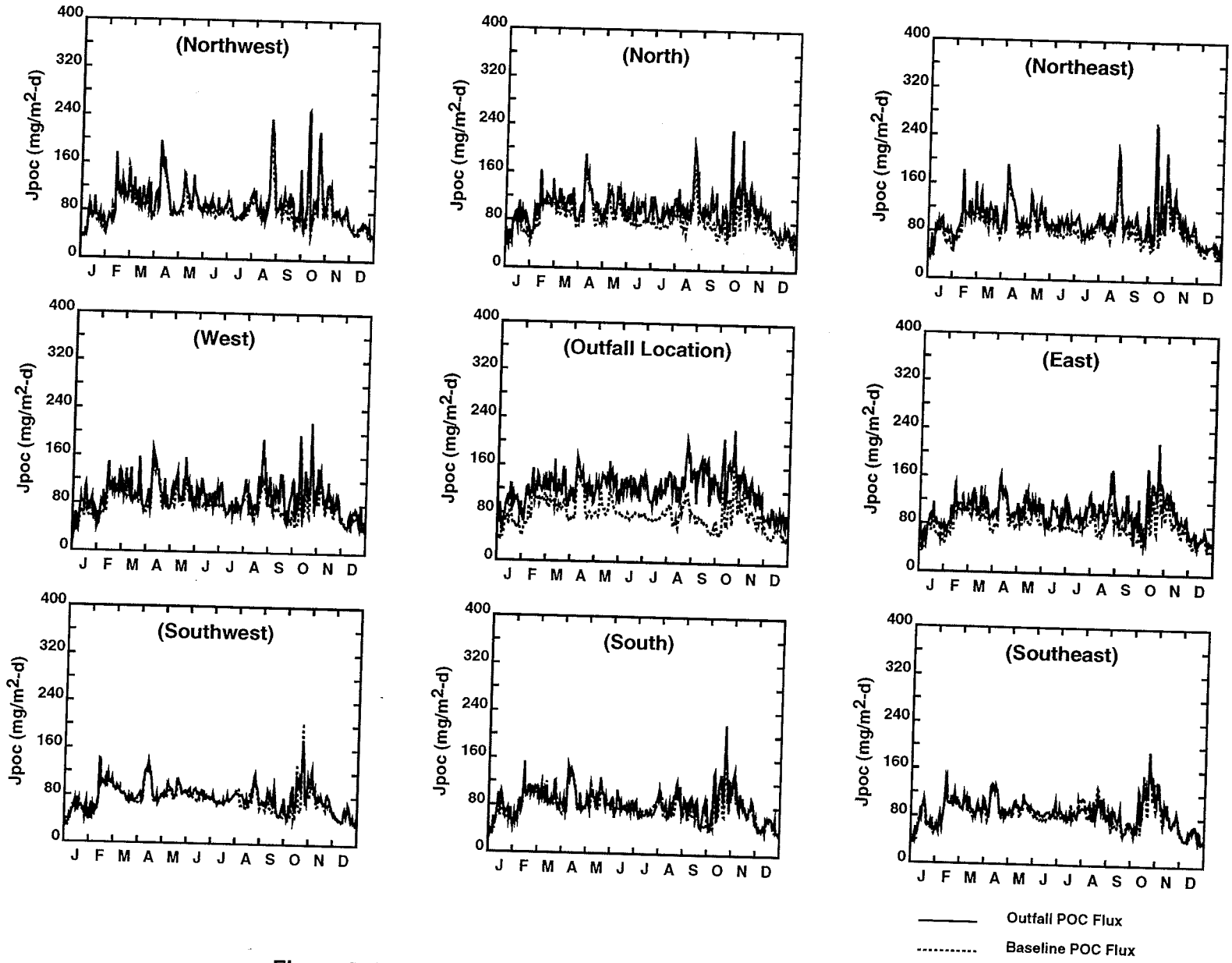

Figure 7-61 All WPCPs to Ocean - POC Flux Modeling Results

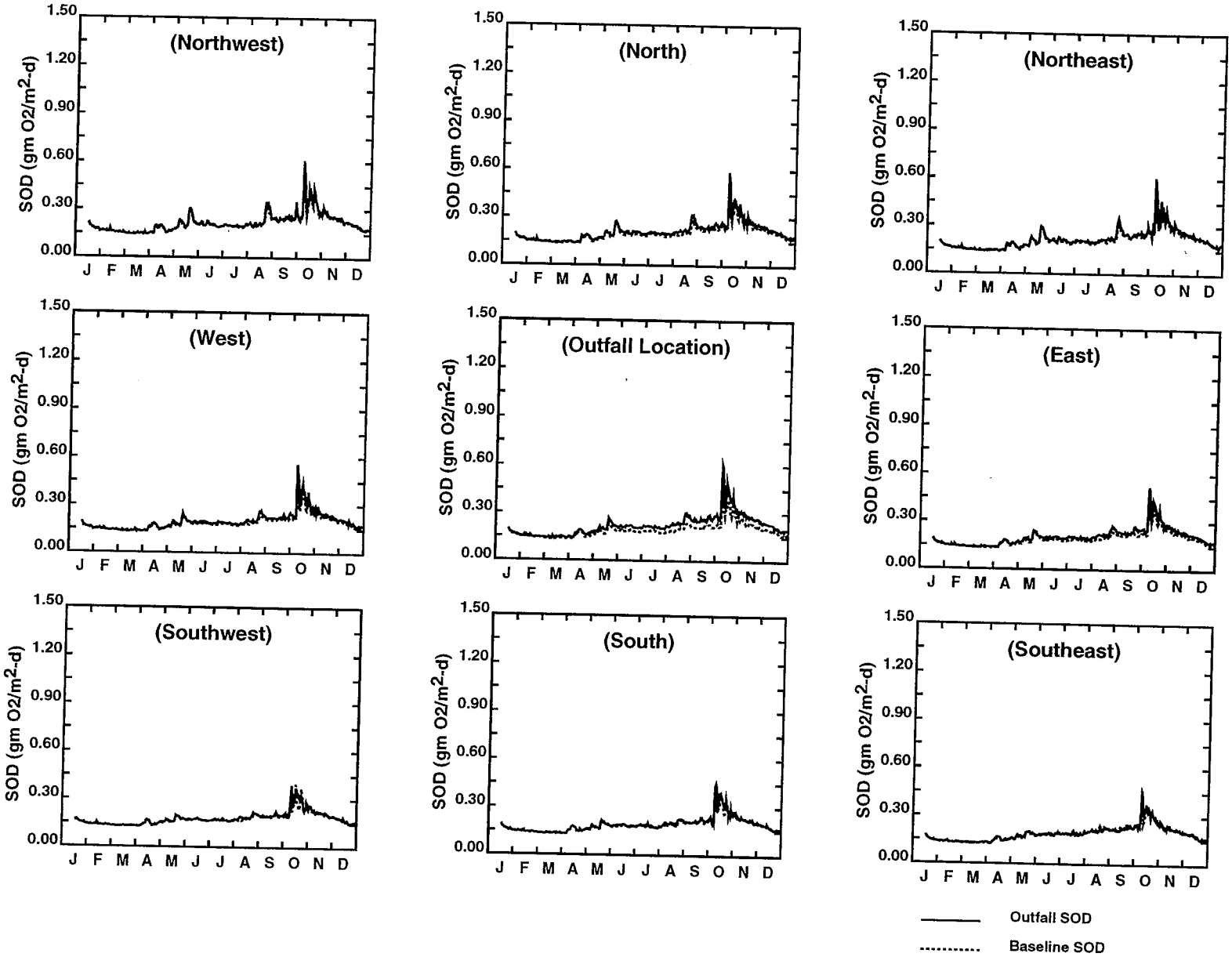

Figure 7-62 All WPCPs to Ocean - Sediment Oxygen Demand Results

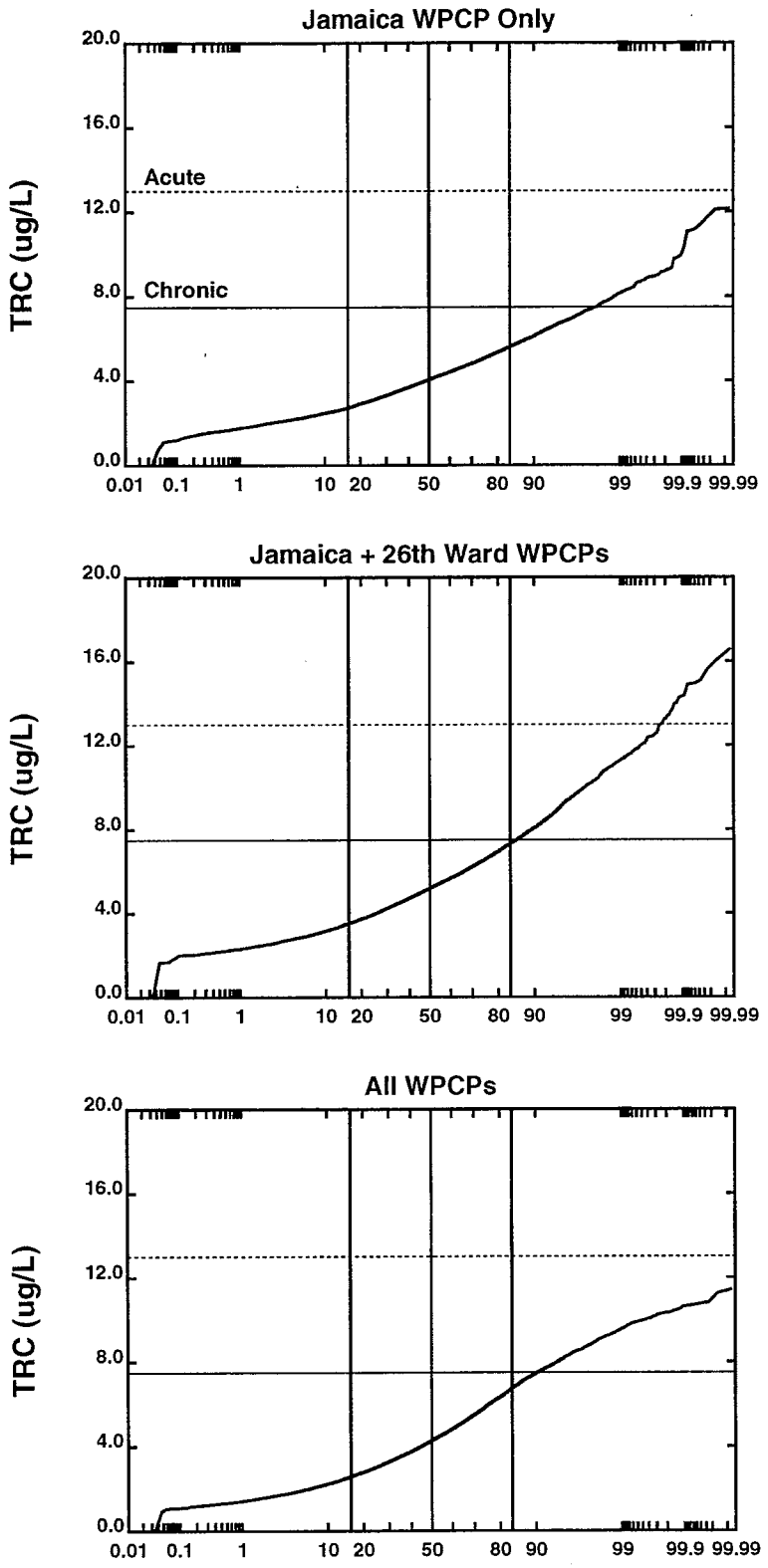

Figure 7-63 TRC Concentration at Outfall - No Decay in Tunnel

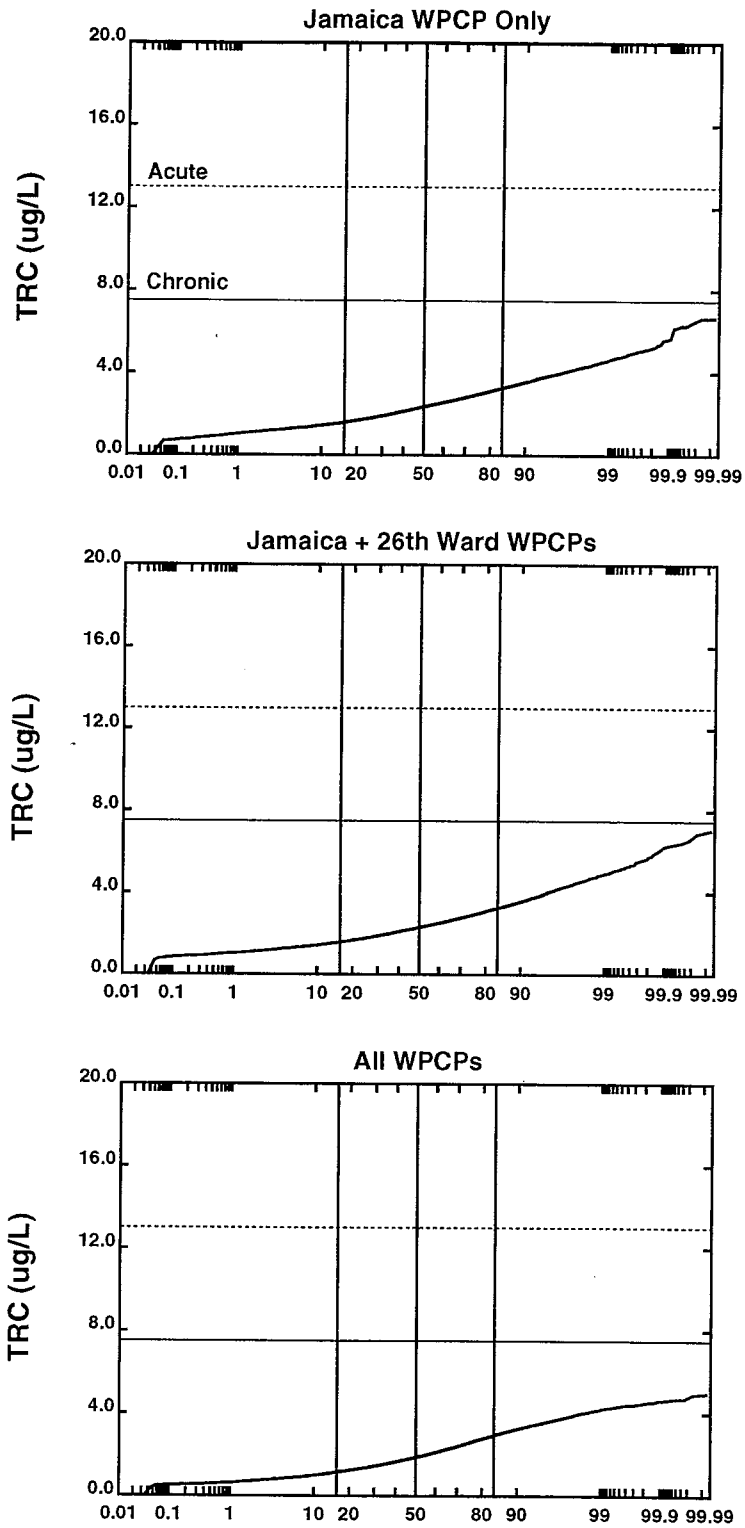

Figure 7-64 TRC Concentration at Outfall - 2.0 d^{-1} Decay in Tunnel

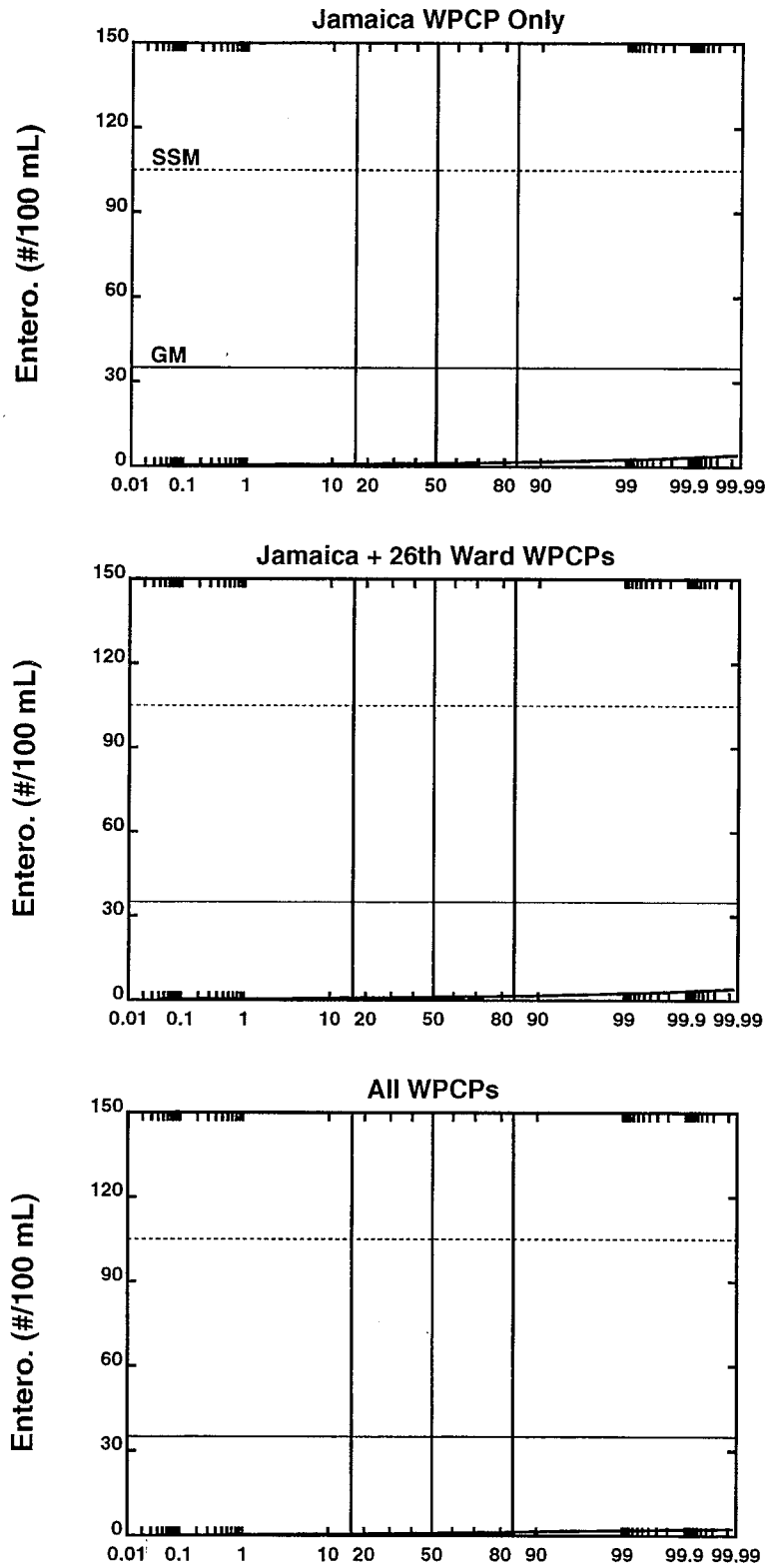

Figure 7-65 Enterococci Concentrations at Outfall

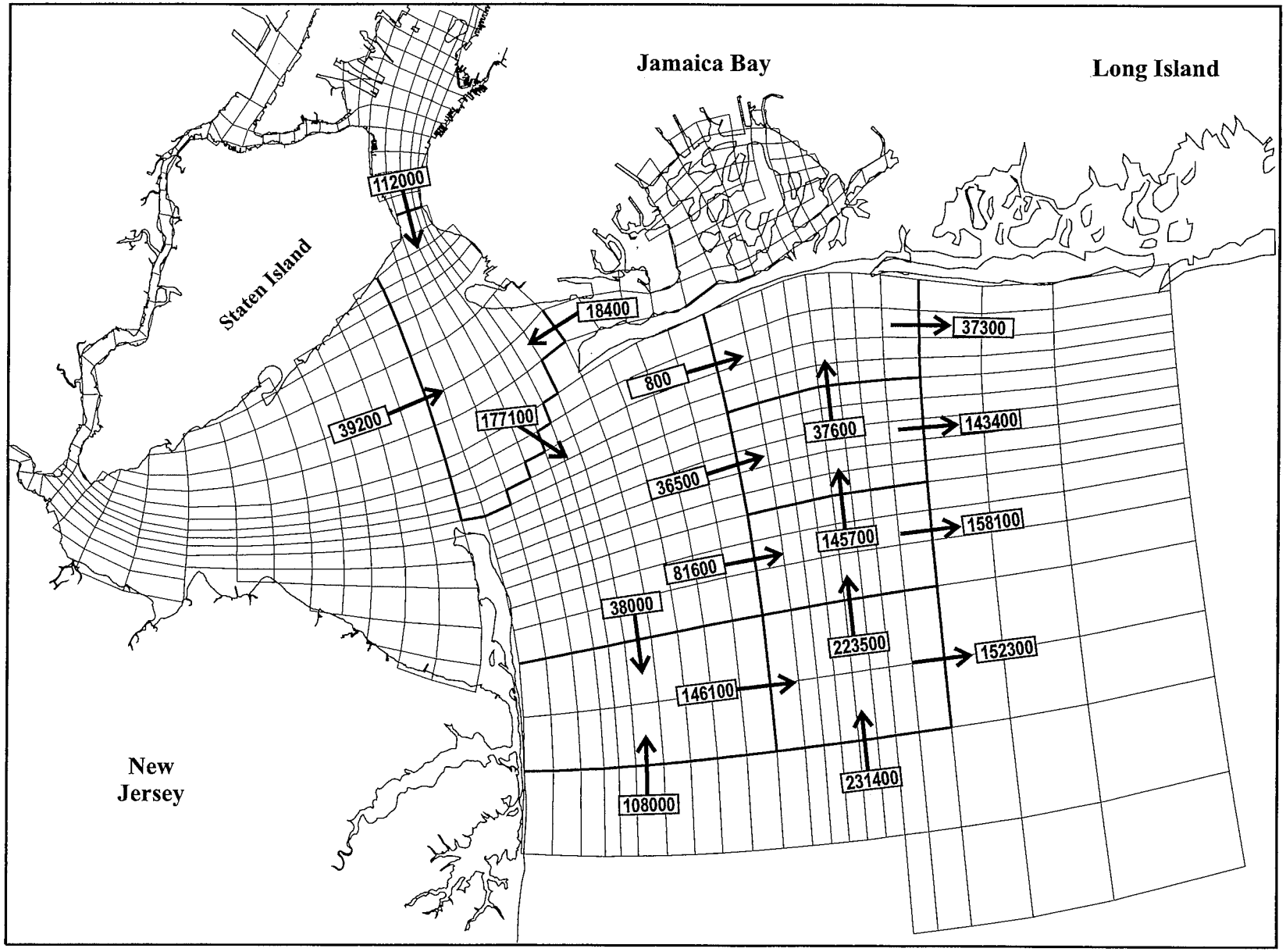

Figure 7-66 Baseline TN Flux (kg/d) Layers 1-10

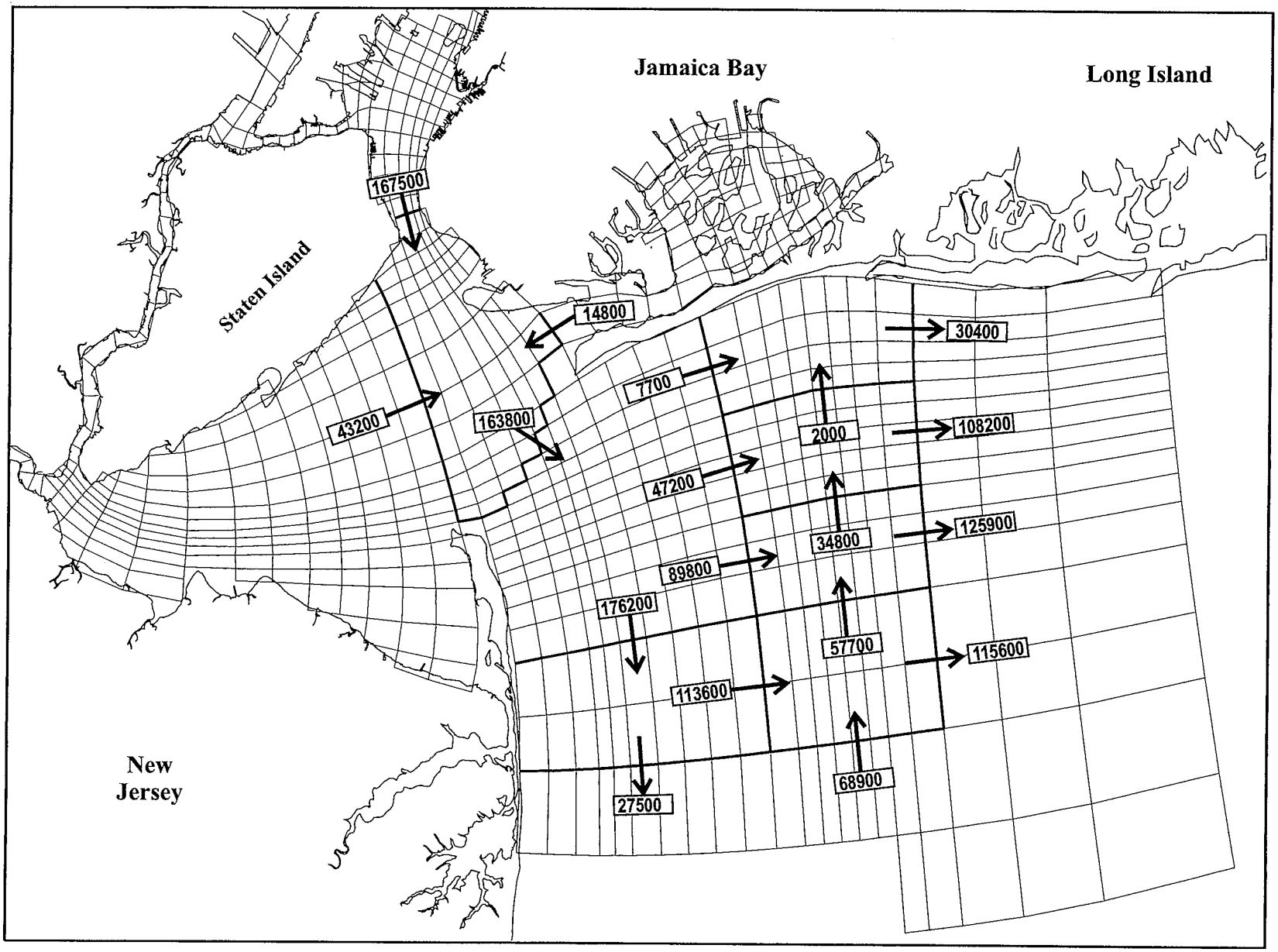

Figure 7-67 Baseline TN Flux (kg/d) Layers 1-5

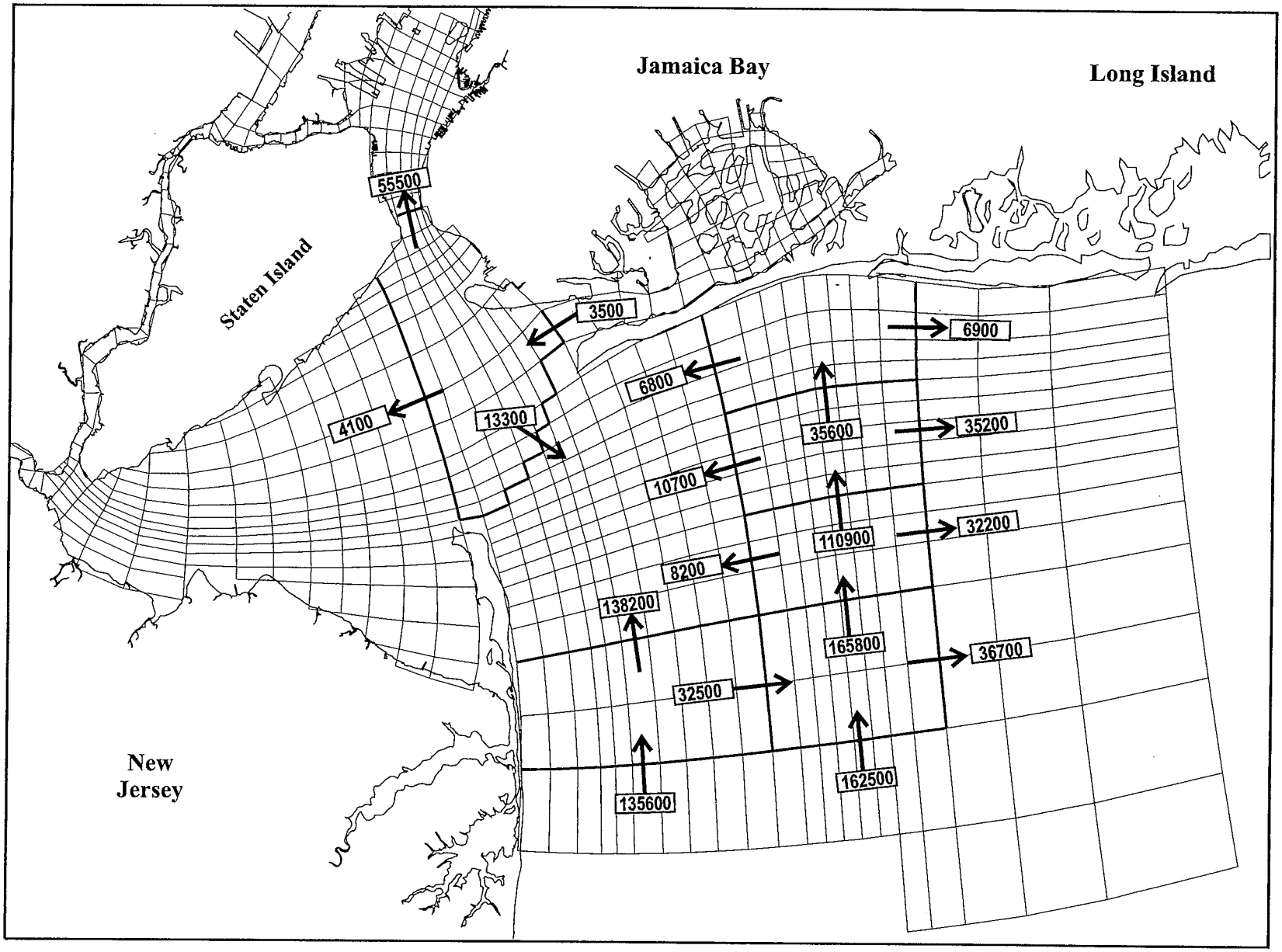

Figure 7-68 Baseline TN Flux (kg/d) Layers 6-10

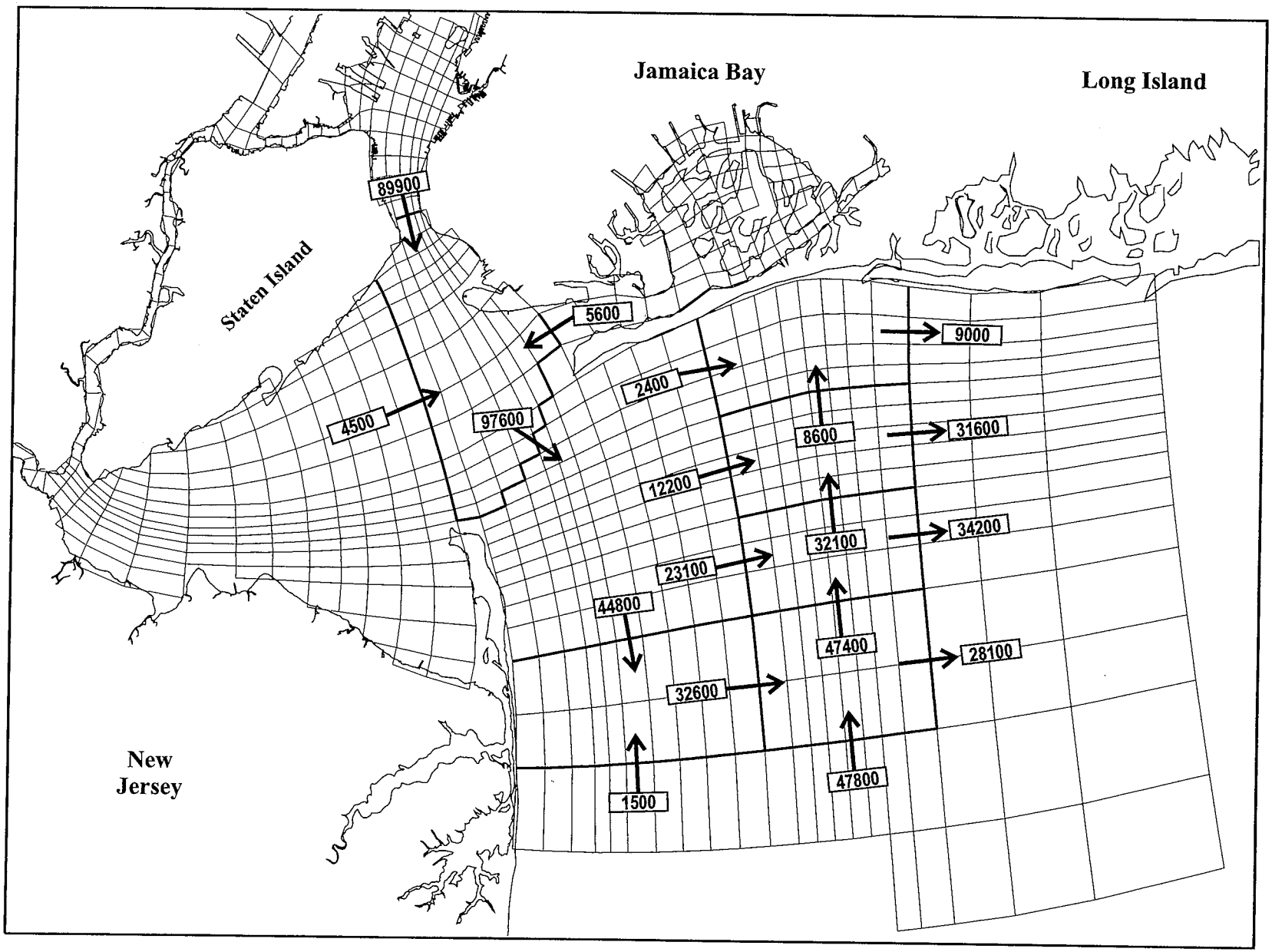

Figure 7-69 Baseline DIN Flux (kg/d) Layers 1-10

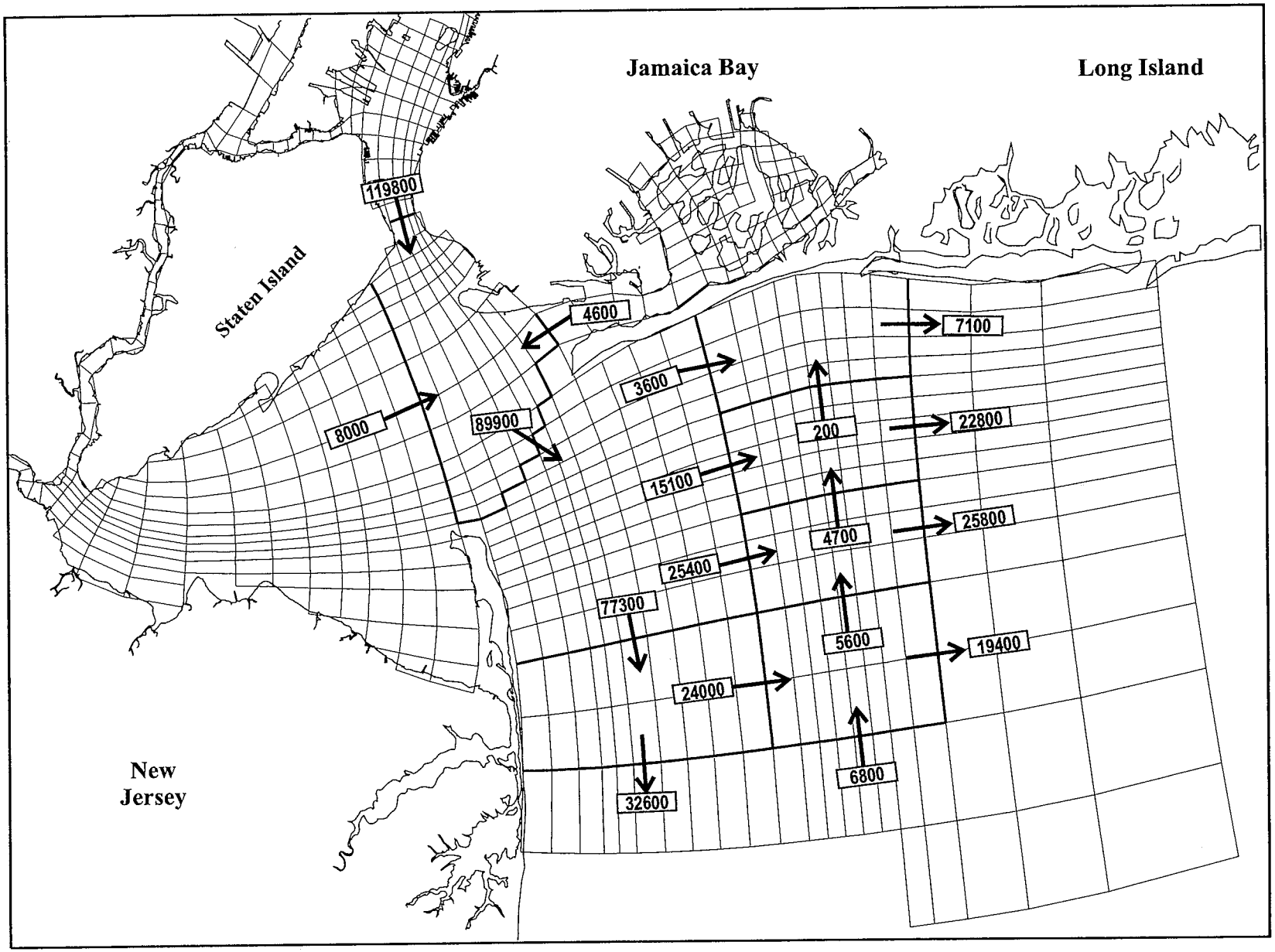

Figure 7-70 Baseline DIN Flux (kg/d) Layers 1-5

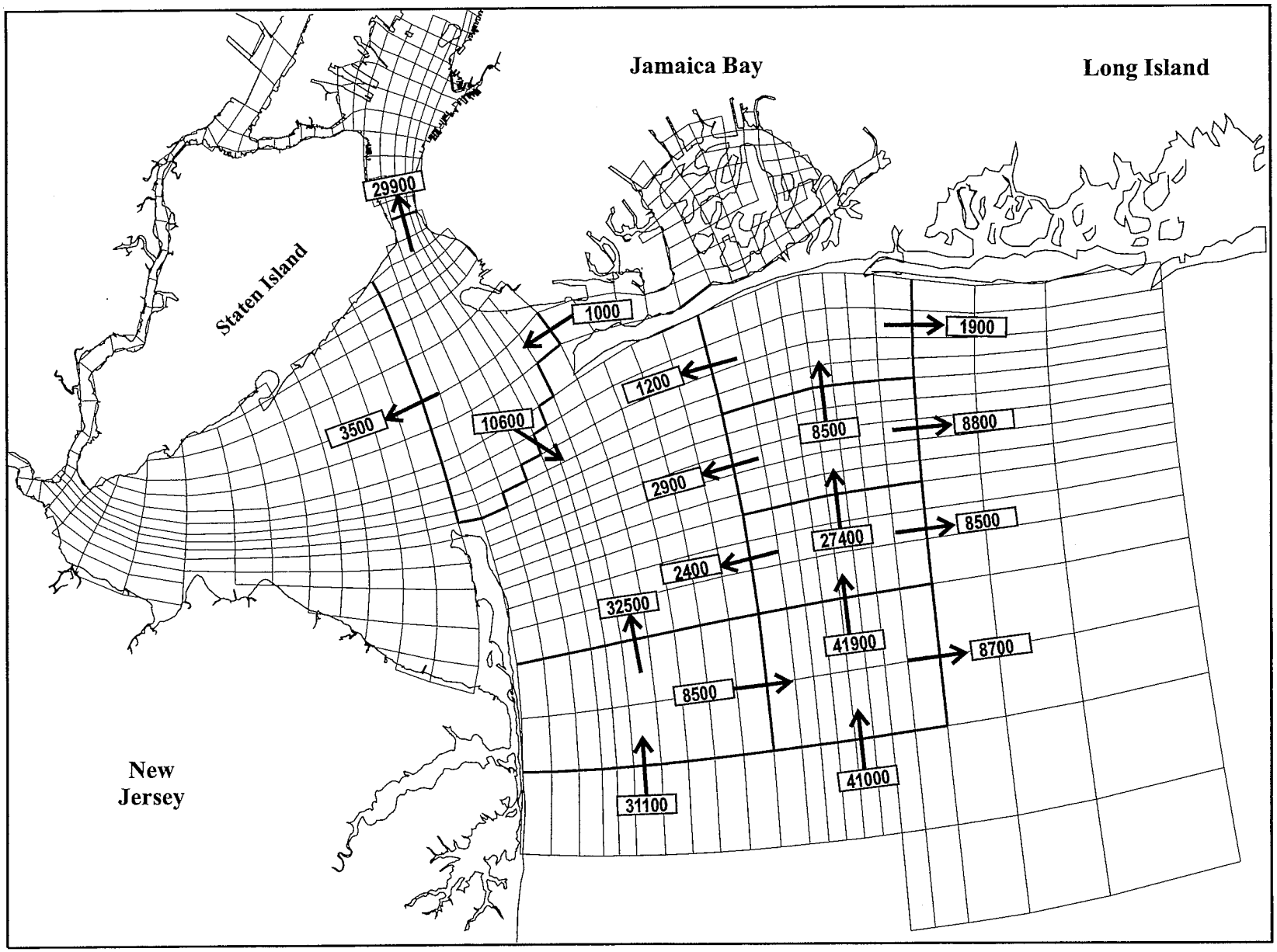

Figure 7-71 Baseline DIN Flux (kg/d) Layers 6-10

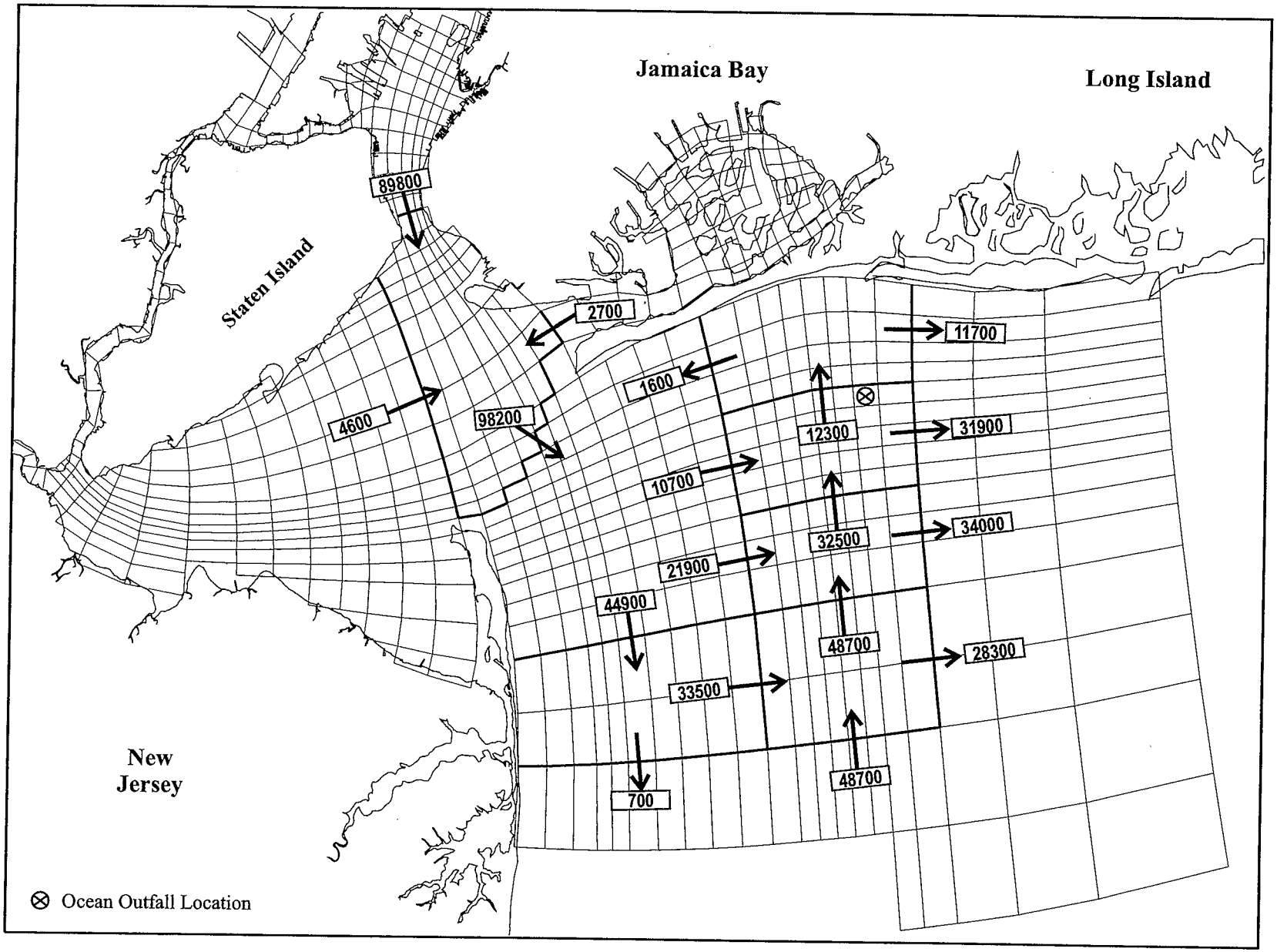

Figure 7-72 Jamaica WPCP to Ocean Outfall DIN Flux (kg/d) Layers 1-10

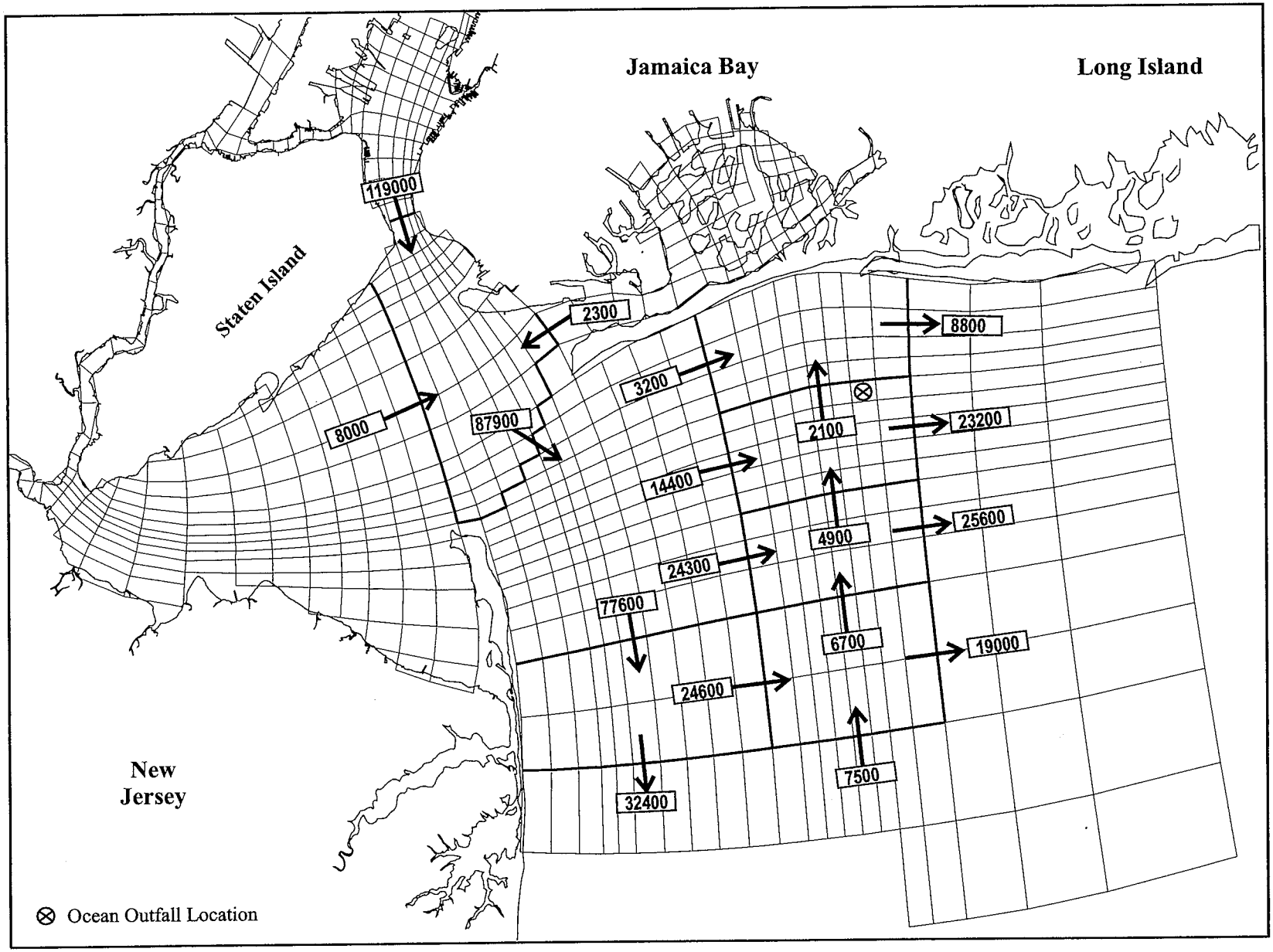

Figure 7-73 Jamaica WPCP to Ocean Outfall DIN Flux (kg/d) Layers 1-5

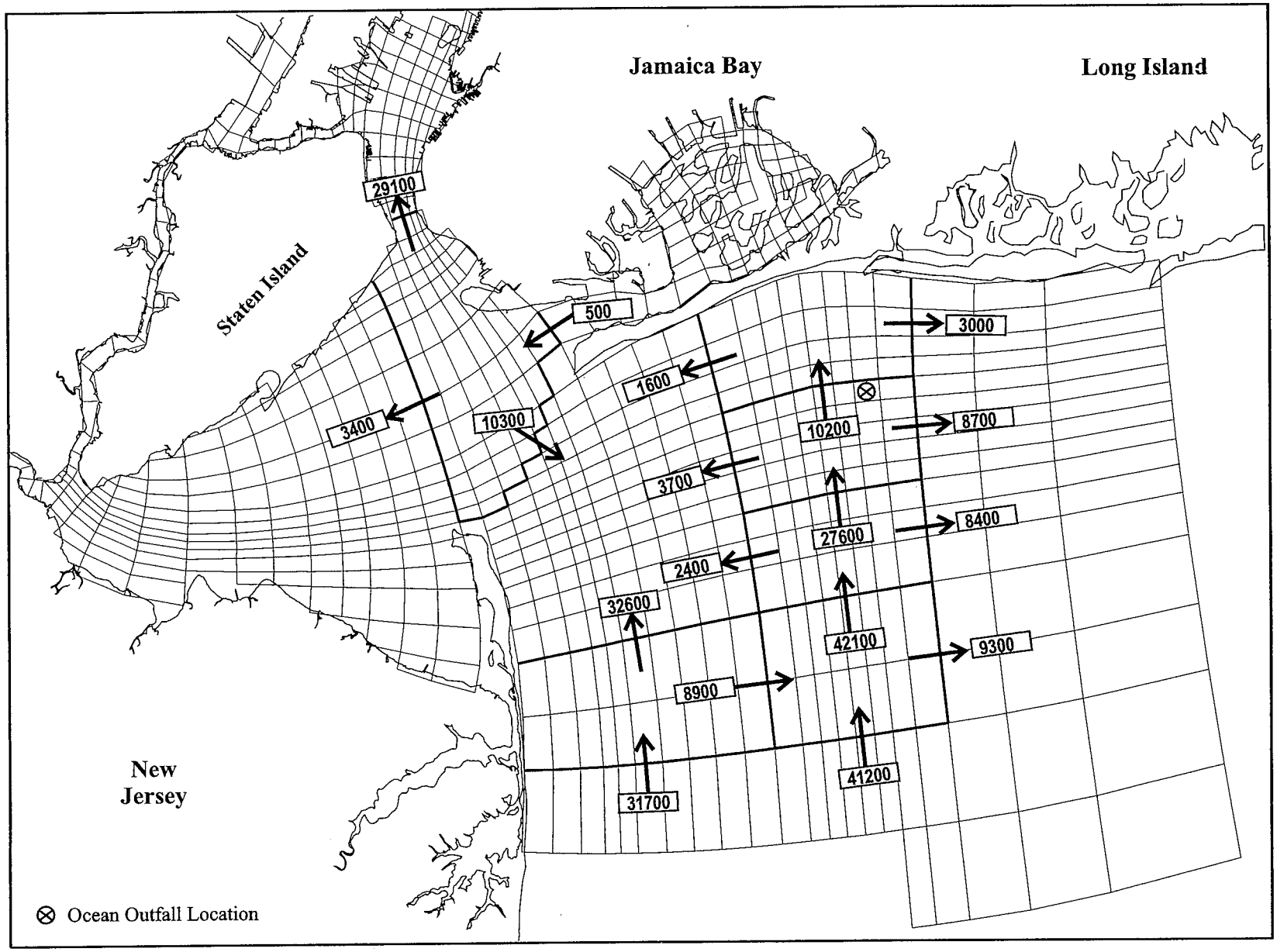

Figure 7-74 Jamaica WPCP to Ocean Outfall DIN Flux (kg/d) Layers 6-10

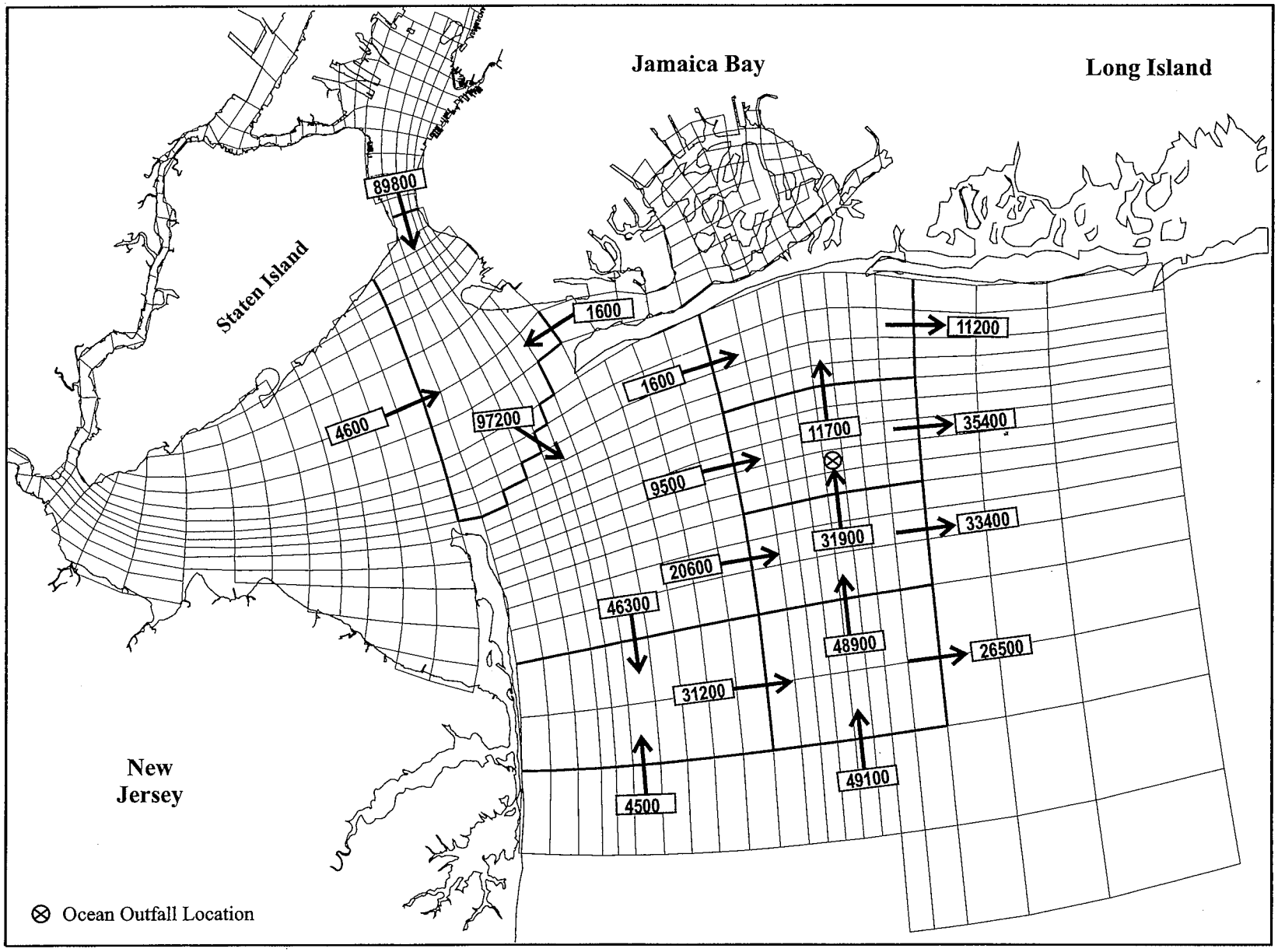

Figure 7-75 Jamaica and 26th Ward WPCPs to Ocean Outfall DIN Flux (kg/d) Layers 1-10

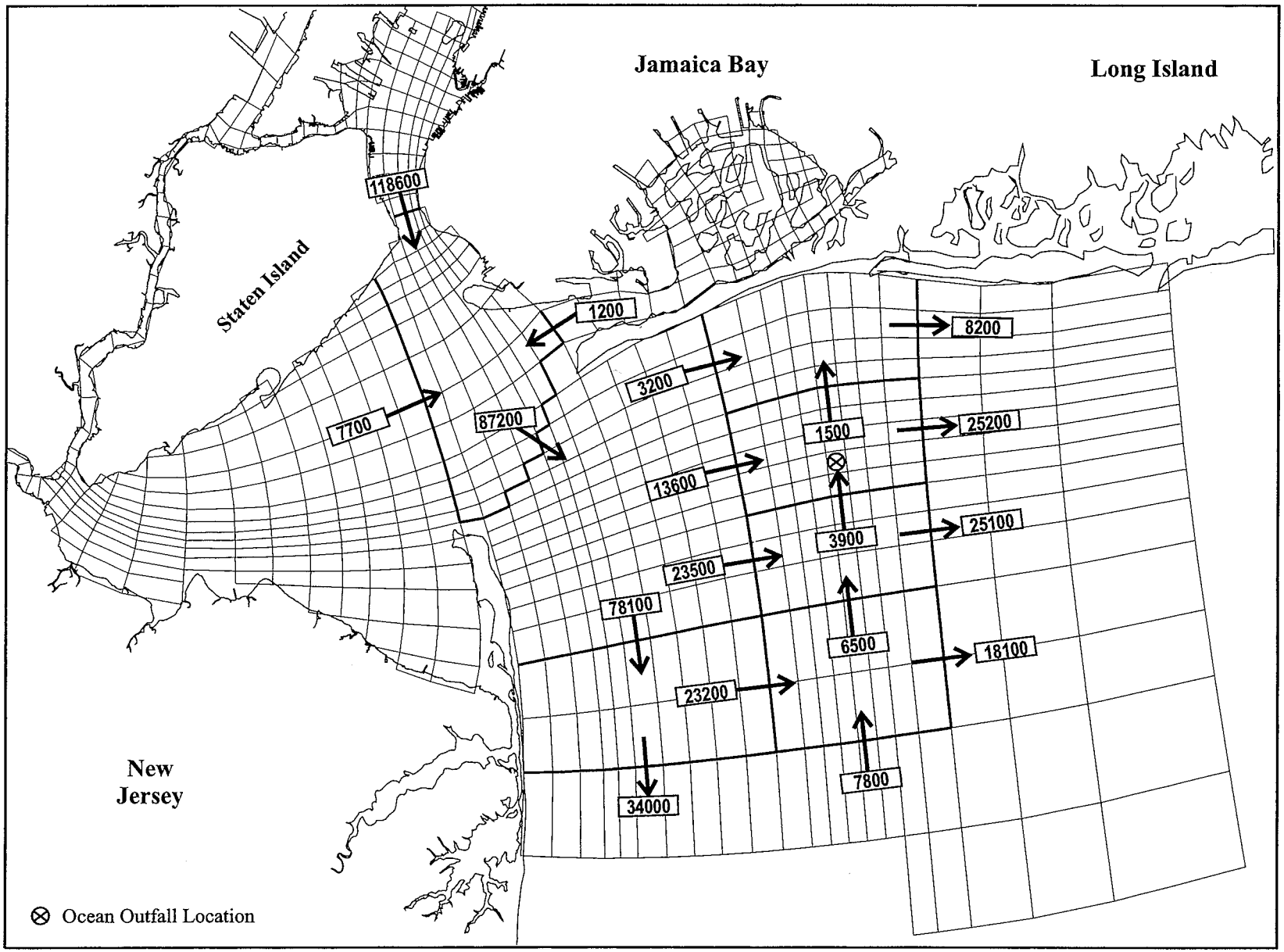

Figure 7-76 Jamaica and 26th Ward WPCPs to Ocean Outfall DIN Flux (kg/d) Layers 1-5

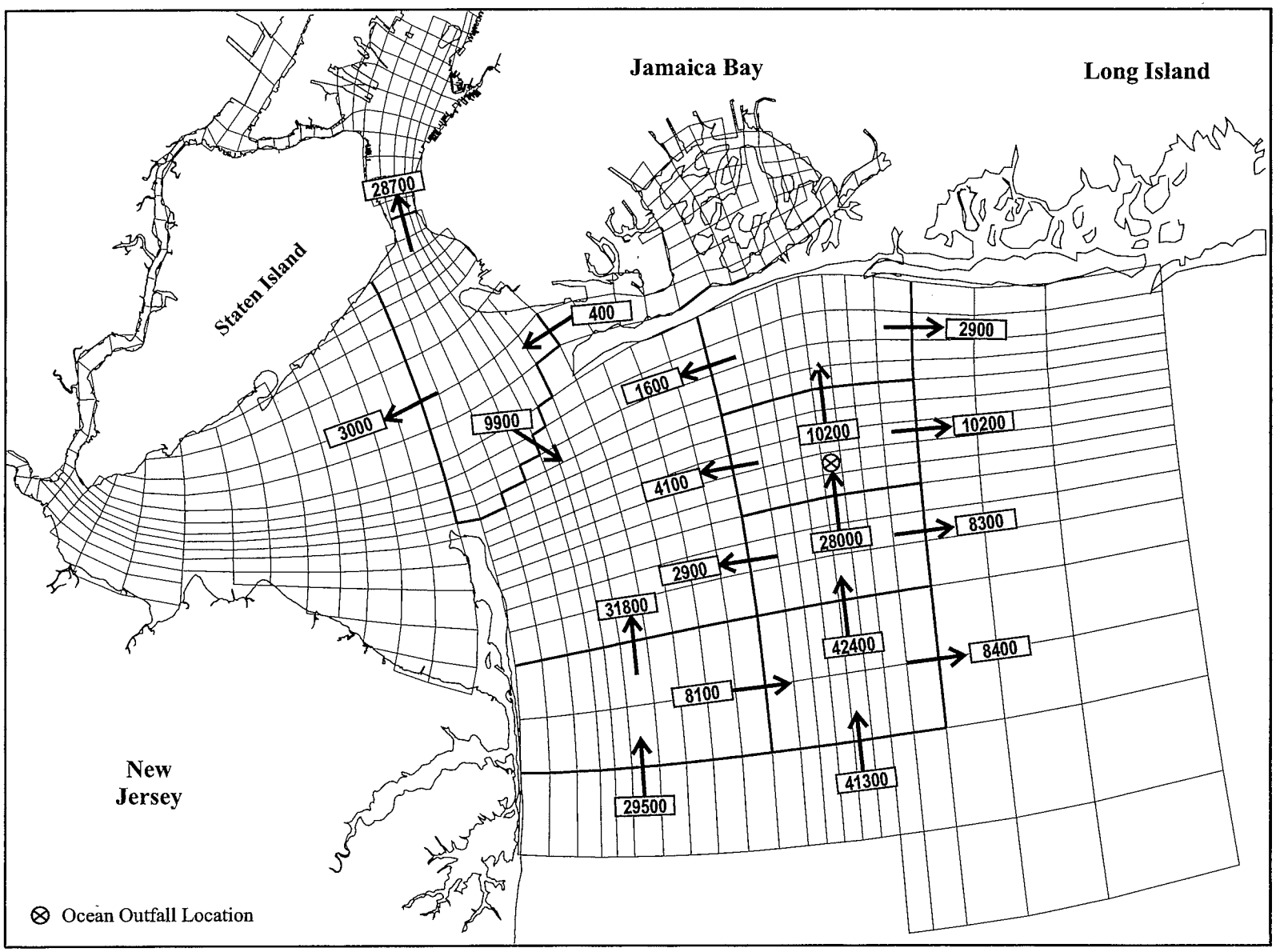

Figure 7-77 Jamaica and 26th Ward WPCPs to Ocean Outfall DIN Flux (kg/d) Layers 6-10

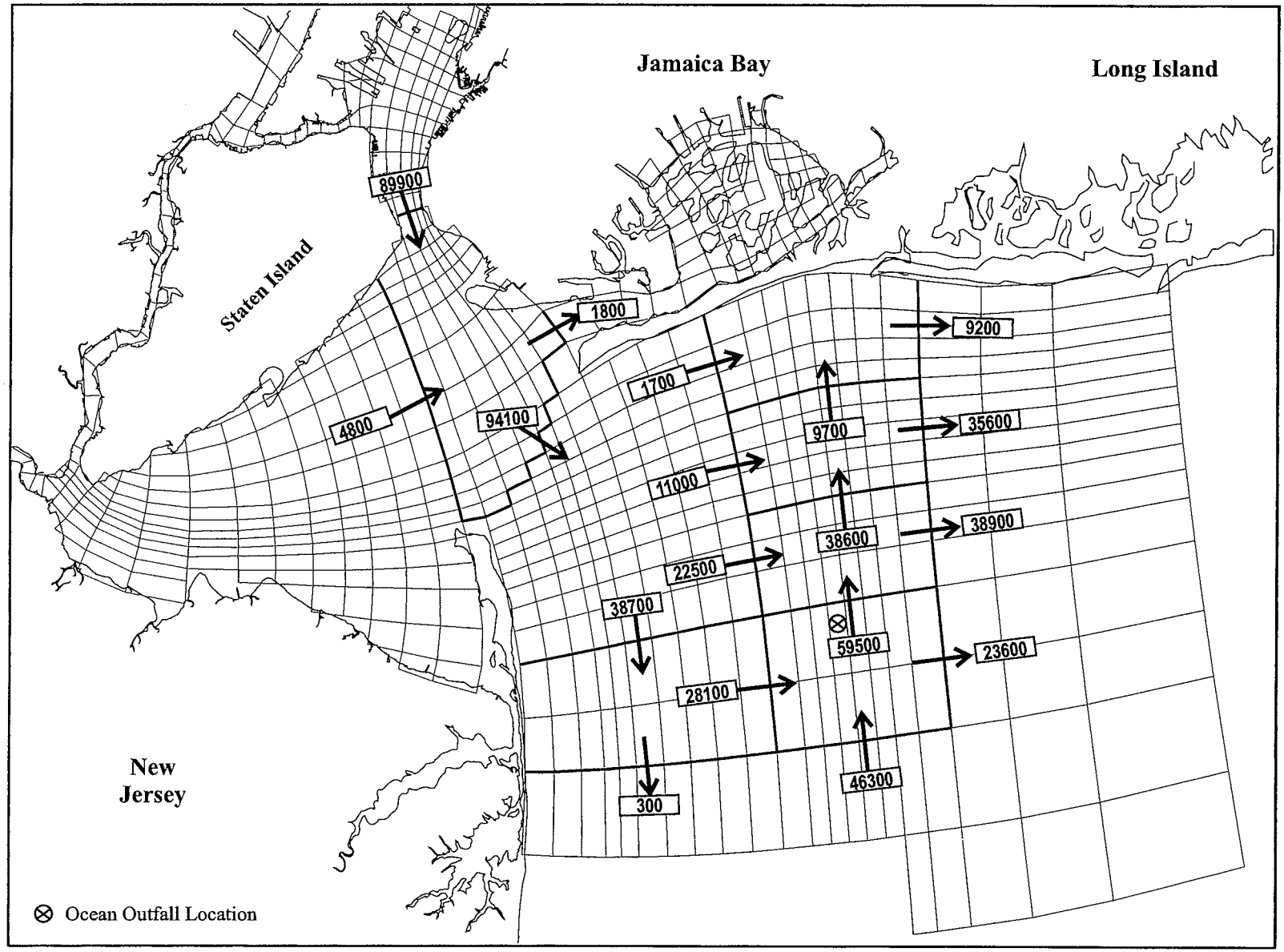

Figure 7-78 All Jamaica Bay WPCPs to Ocean Outfall DIN Flux (kg/d) Layers 1-10

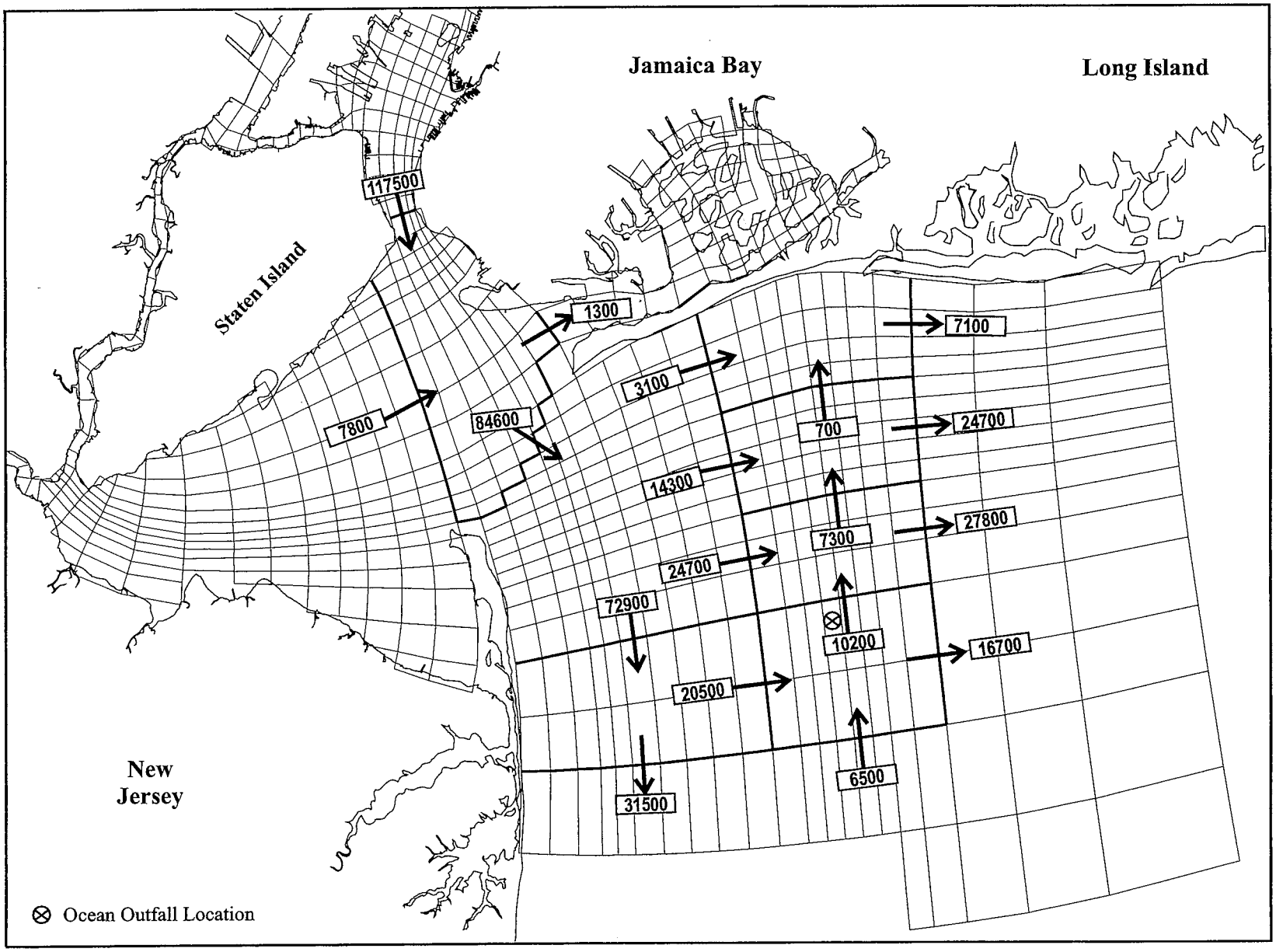

Figure 7-79 All Jamaica Bay WPCPs to Ocean Outfall DIN Flux (kg/d) Layers 1-5

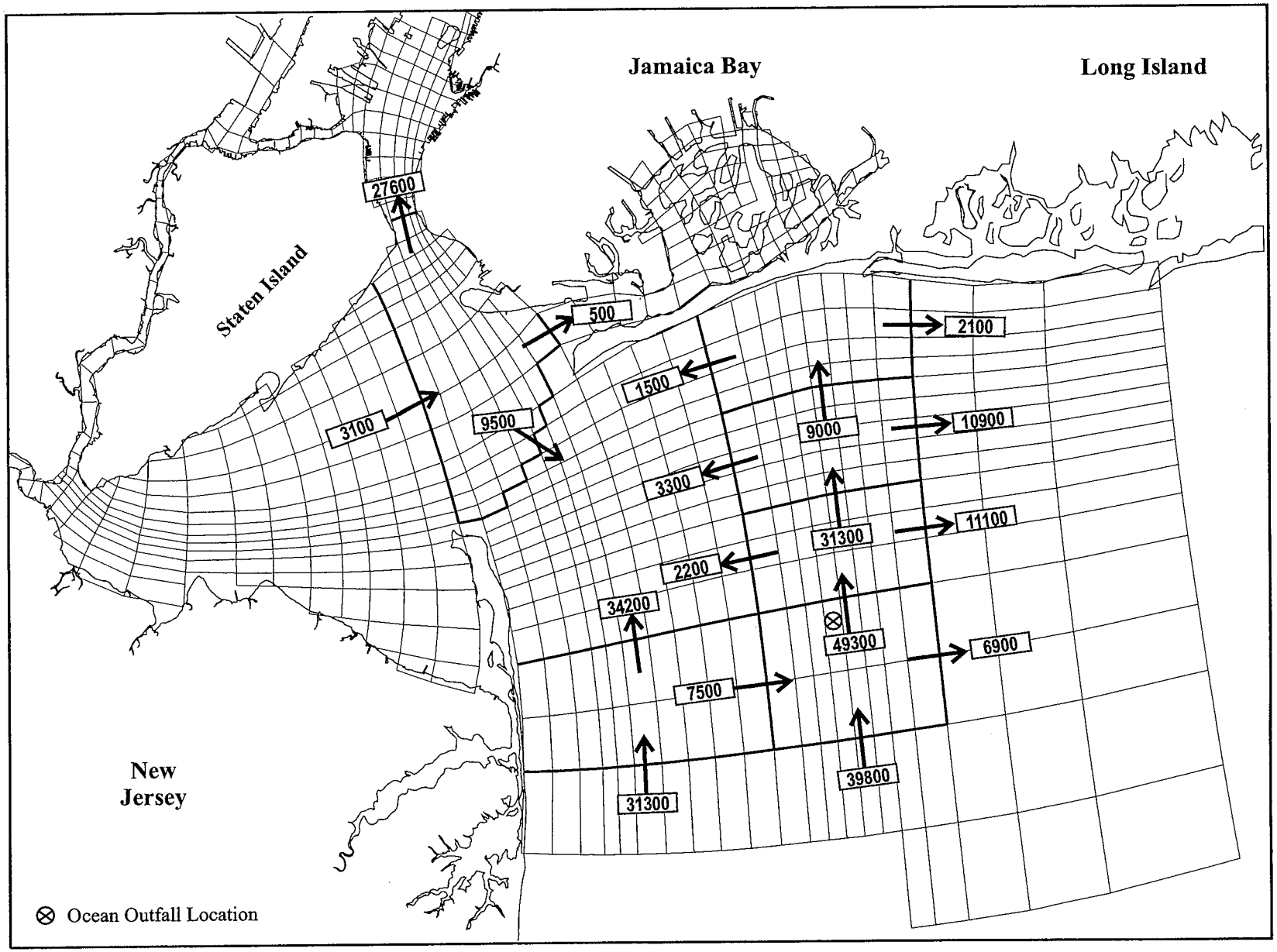

Figure 7-80 All Jamaica Bay WPCPs to Ocean Outfall DIN Flux (kg/d) Layers 6-10

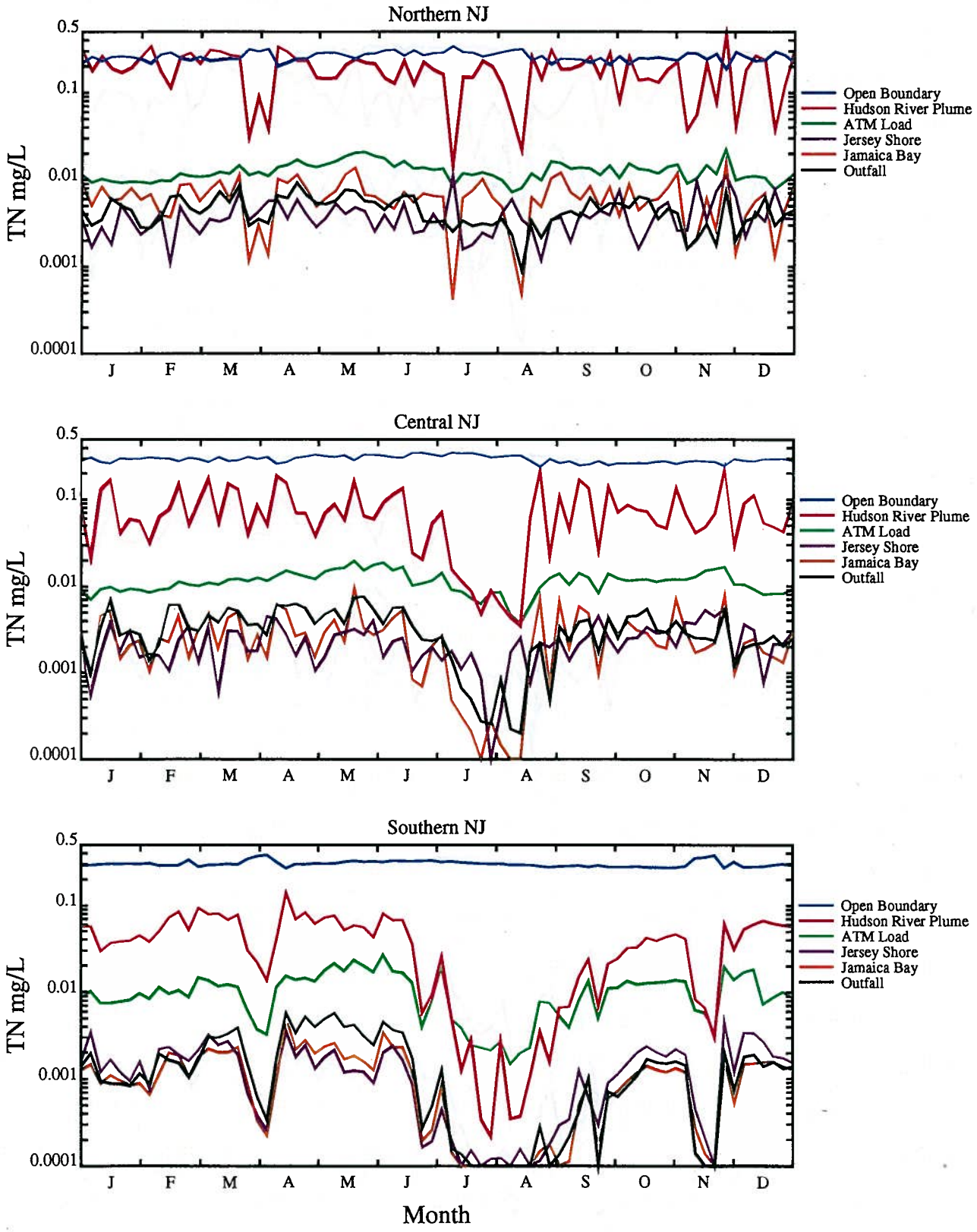

Figure 7-81 TN Component Analysis - Surface Layer

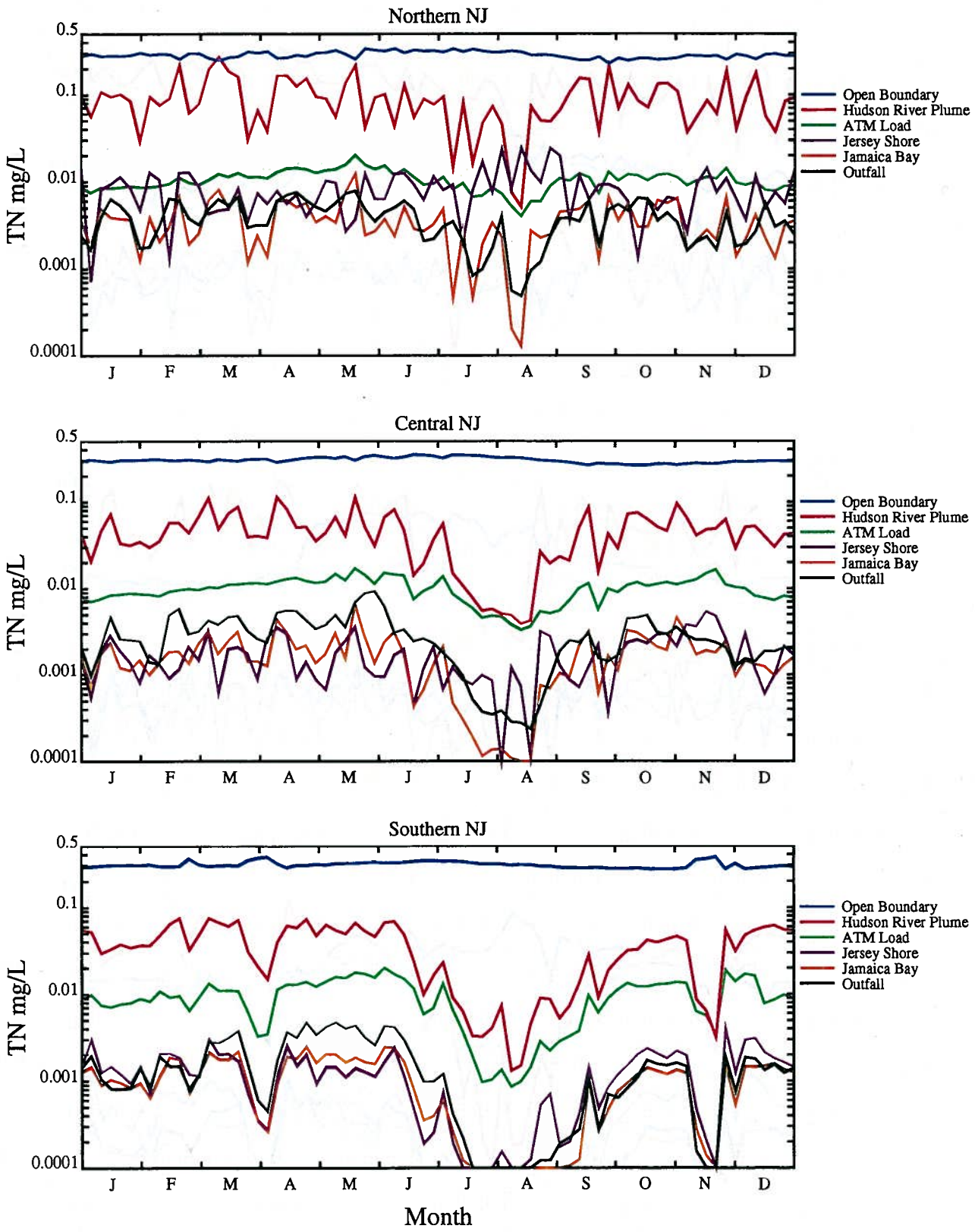

Figure 7-82 TN Component Analysis - Bottom Layer

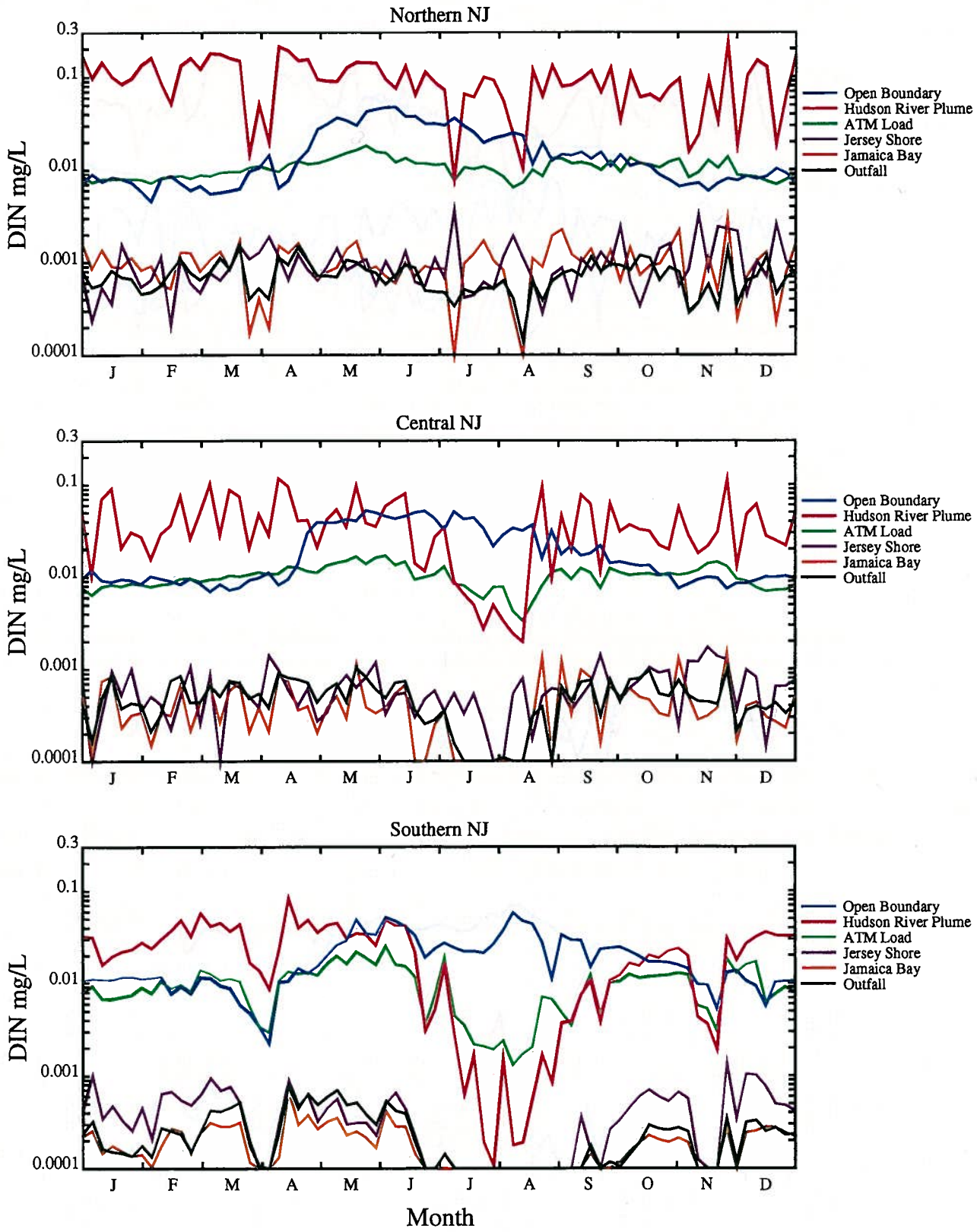

Figure 7-83 DIN Component Analysis - Surface Layer

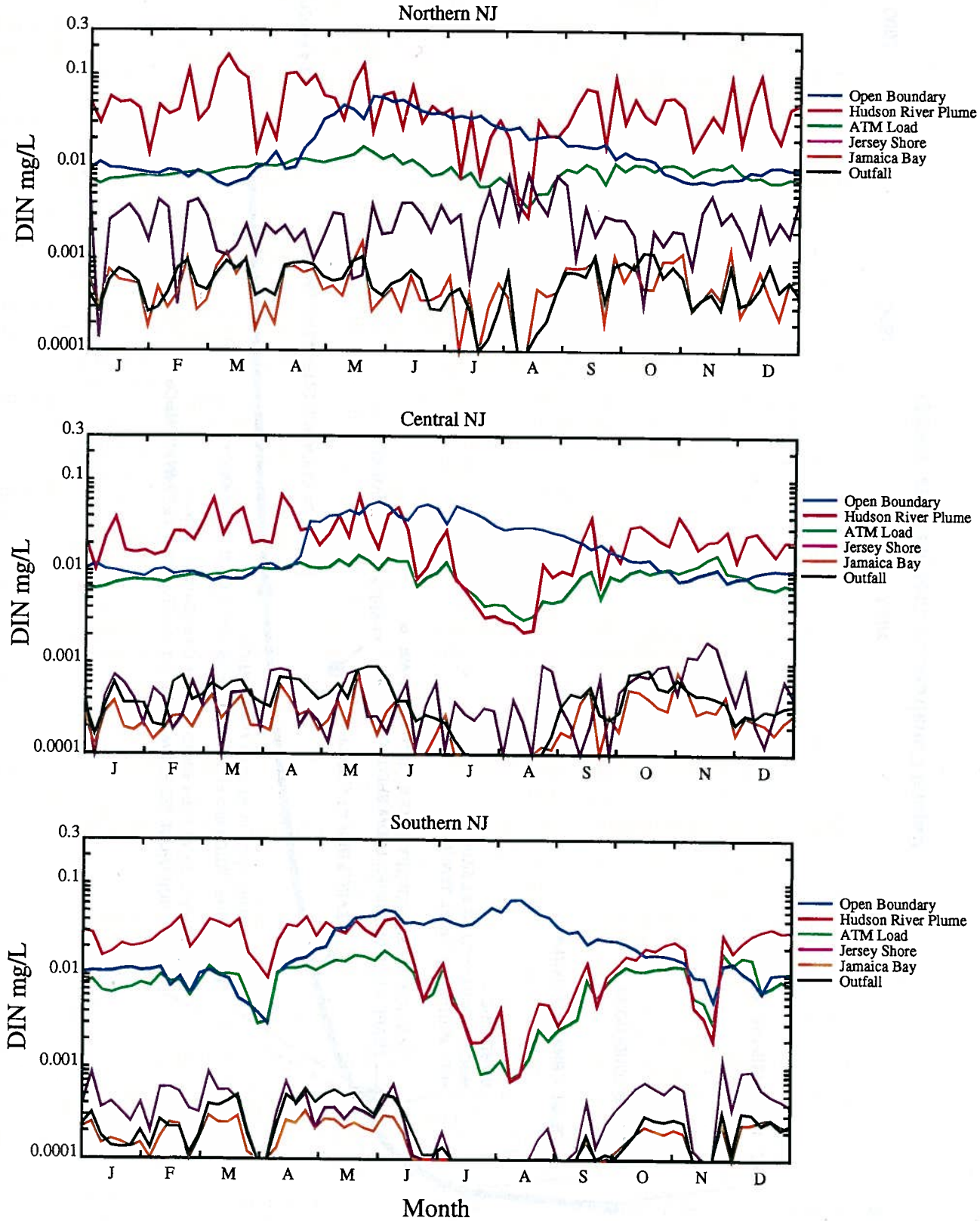

Figure 7-84 DIN Component Analysis - Bottom Layer