

Appendix C. Marine Data

Station Map.....	2
Laboratory Analyses.....	3
Alkalinity.....	3
Chlorophyll <i>a</i>	14
Dissolved Oxygen.....	27
Dissolved Inorganic Nitrogen.....	41
Ammonium.....	54
Orthophosphate.....	68
Total Nitrogen.....	81
Total Phosphorus.....	95
Ratio of Total Nitrogen to Total Phosphorus.....	109
Ammonium Contribution to Dissolved Inorganic Nitrogen Concentrations – Temporal Patterns at Individual Stations.....	122
Ammonium Contribution to Dissolved Inorganic Nitrogen Concentrations – Spatial Patterns from Quarterly Barnes Cruises.....	148
Surface Dissolved Inorganic Nitrogen – Spatial Patterns from Quarterly Barnes Cruises.....	150
Surface Chlorophyll <i>a</i> – Spatial Patterns from Quarterly Barnes Cruises.....	153
Maximum Water Column Ammonium Concentrations.....	156

Station Map

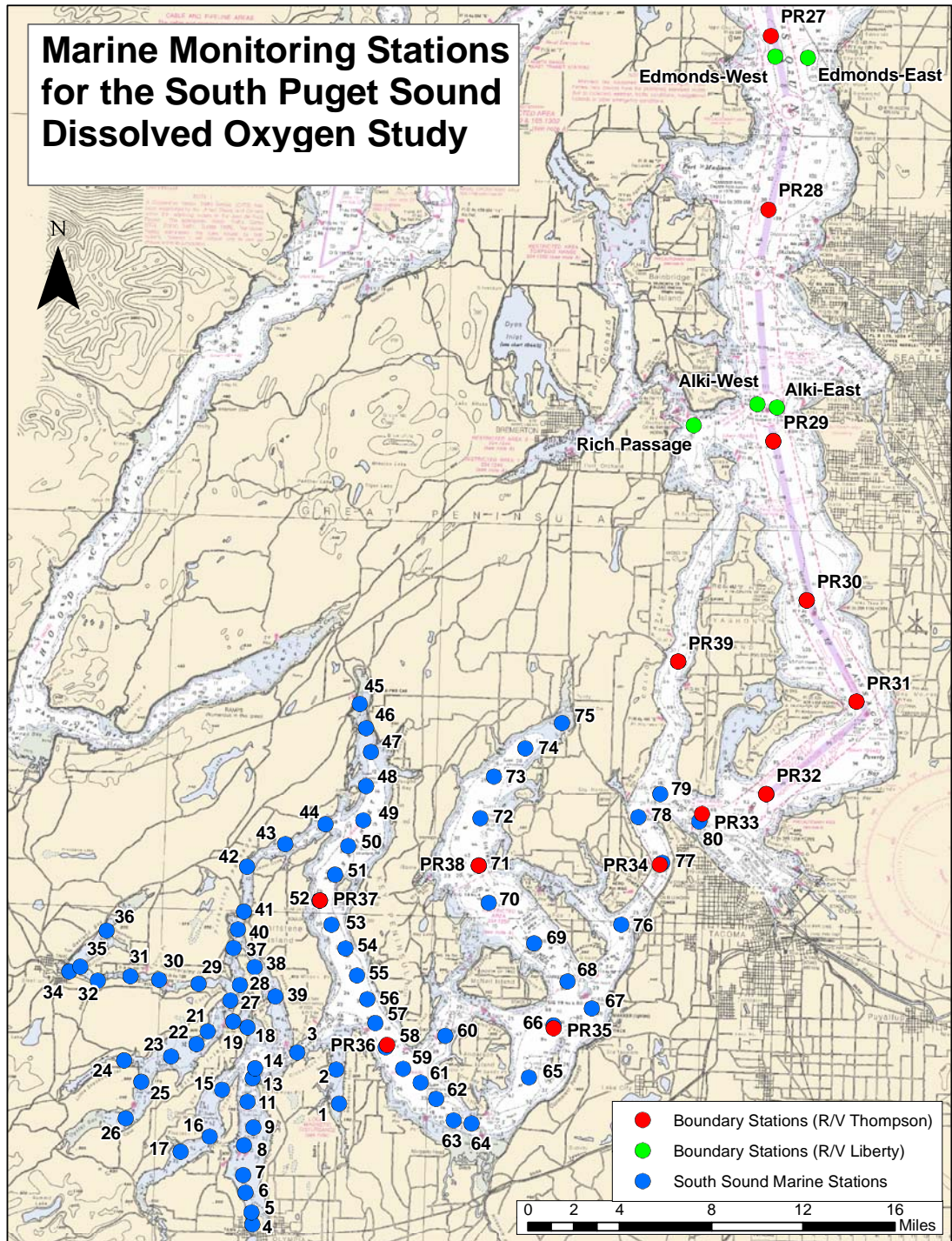


Figure C-1. Marine station locations for boundary conditions and South Sound inlets. Six PRISM stations coincide with project stations. Data collected during PRISM cruises are identified by the PRISM station location (PR##), in the Central Basin and by South Sound station location (SS##) in the South Sound basin.

Laboratory Analyses

Alkalinity

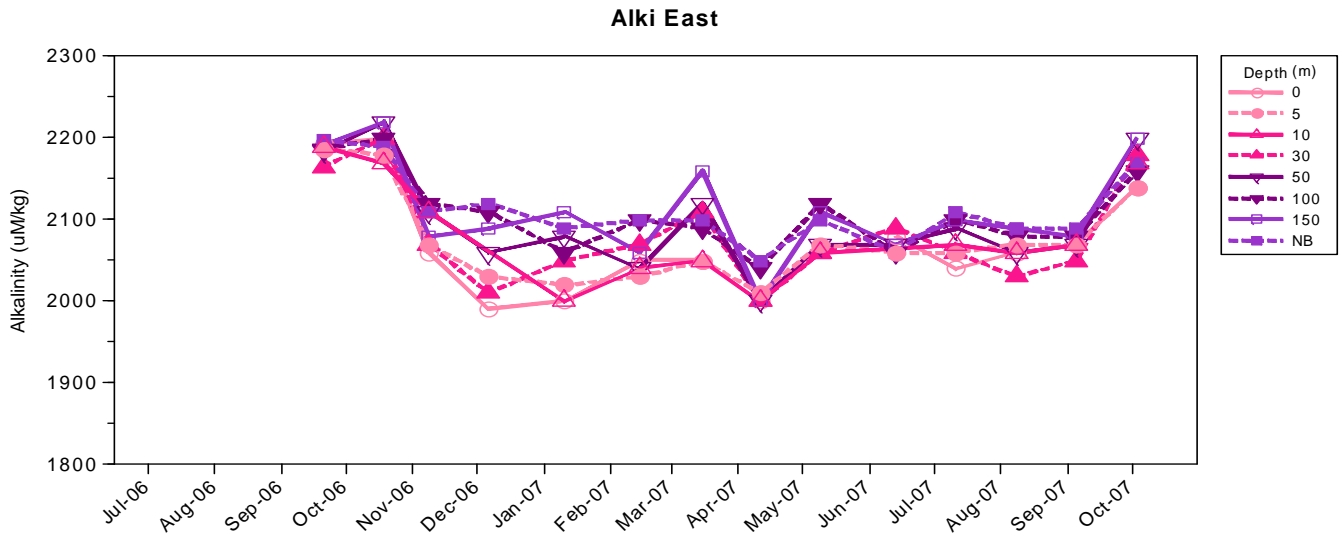


Figure C-2. Monthly alkalinity concentrations from samples collected at Alki East boundary station in the Central Basin from July 2006 – October 2007.

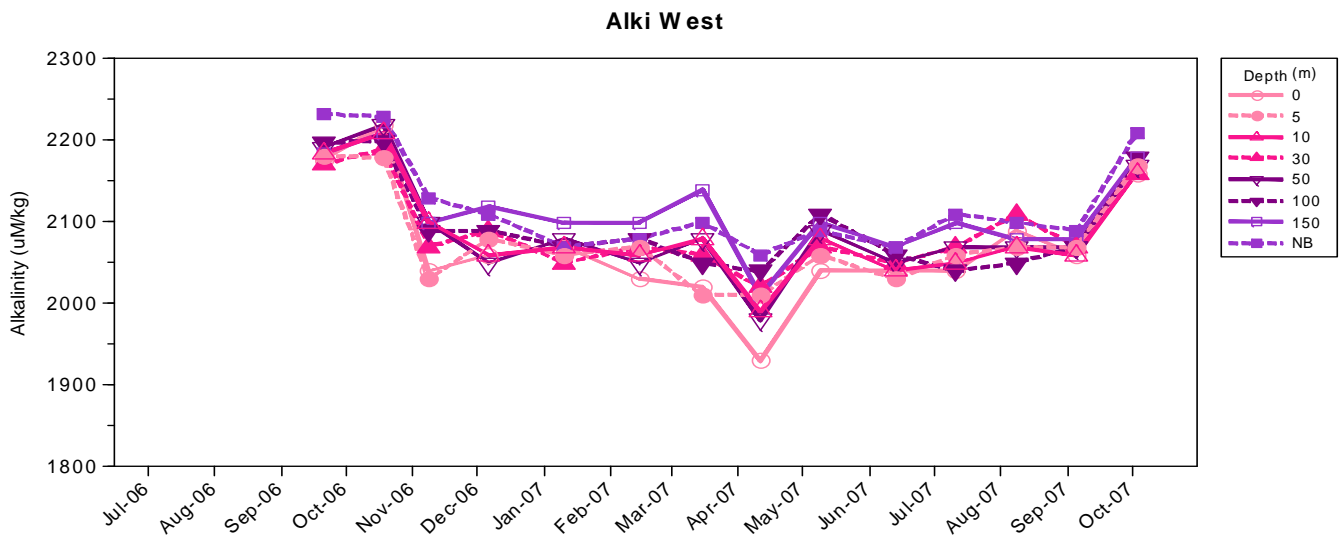


Figure C-3. Monthly alkalinity concentrations from samples collected at Alki West boundary station near South Seattle from July 2006 – October 2007.

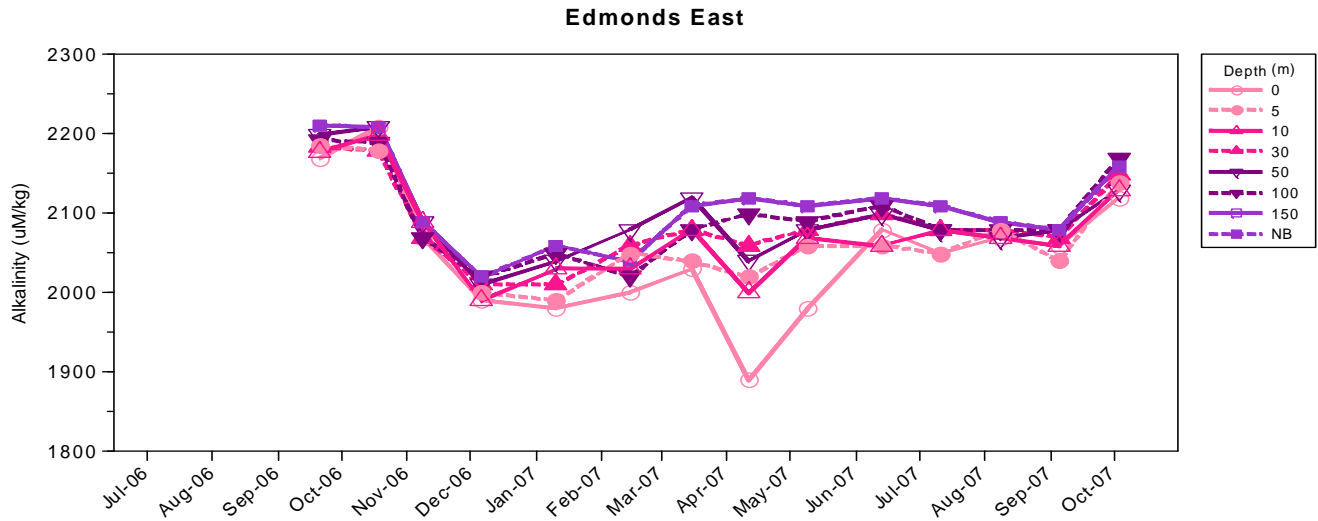


Figure C-4. Monthly alkalinity concentrations from samples collected at Edmonds East boundary station in the Central Basin from July 2006 – October 2007.

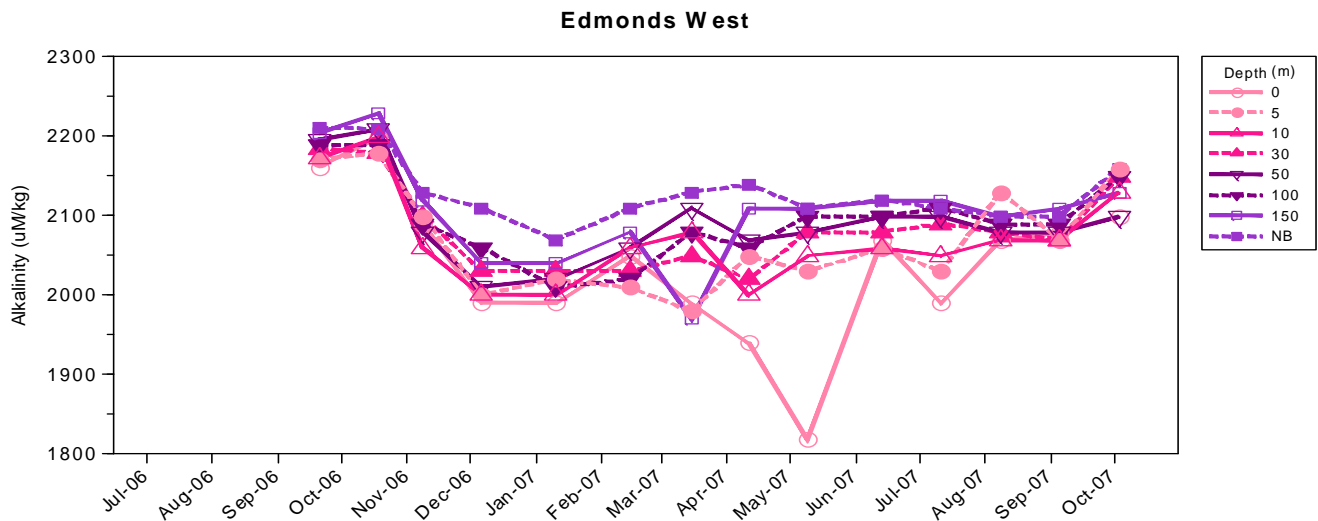


Figure C-5. Monthly alkalinity concentrations from samples collected at Edmonds West boundary station in the Central Basin from July 2006 – October 2007.

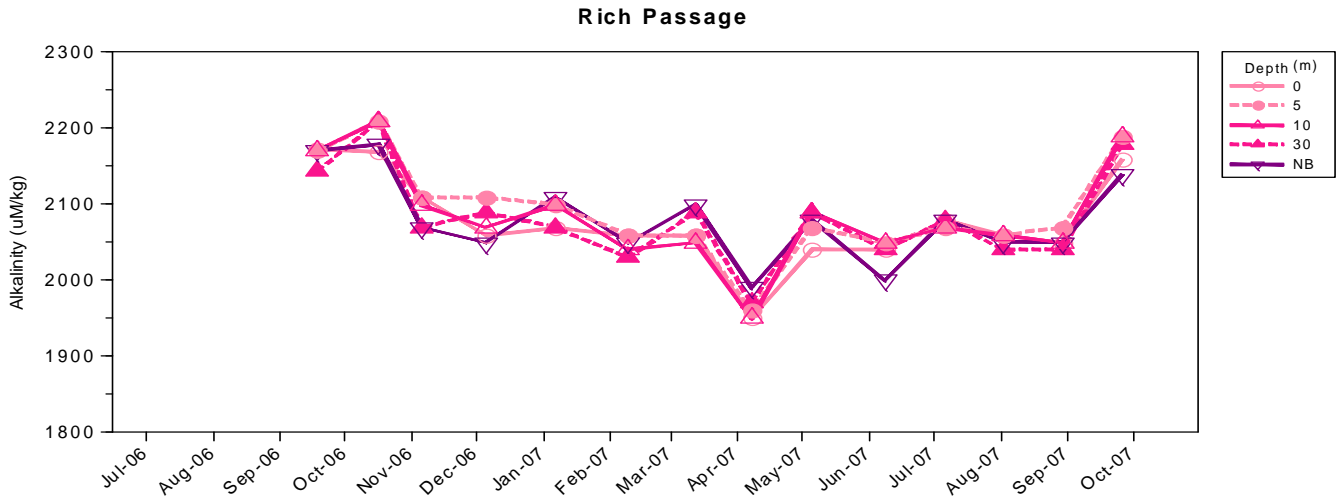


Figure C-6. Monthly alkalinity concentrations from samples collected at Rich Passage boundary station from July 2006 – October 2007.

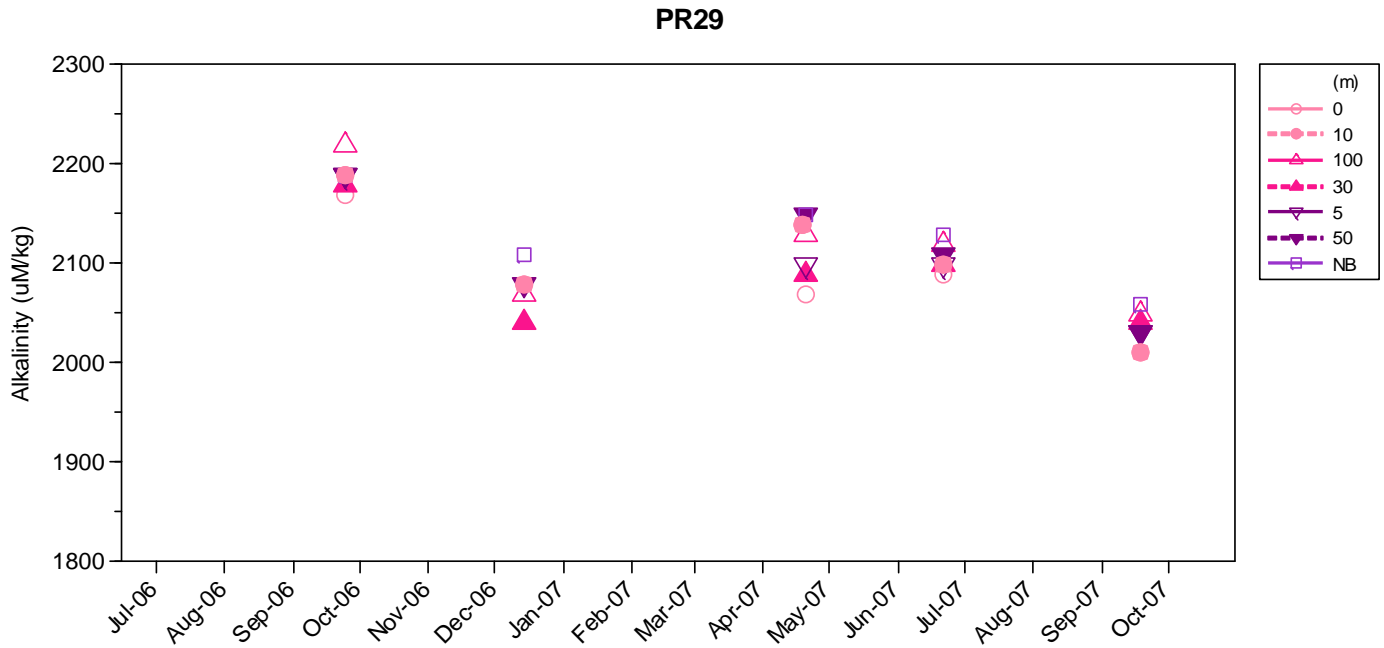


Figure **Error! No text of specified style in document.**-7. Monthly alkalinity concentrations from samples collected at station PR29 near Blake Island from July 2006 – October 2007.

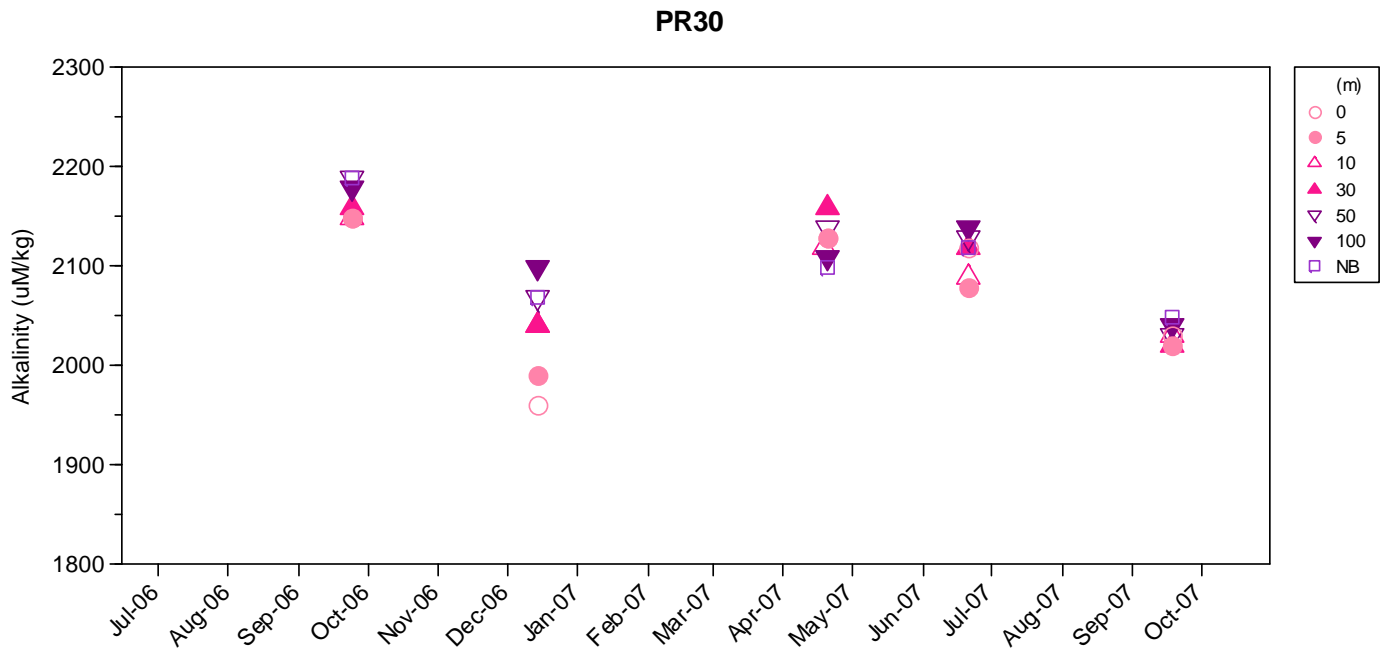


Figure C-8. Monthly alkalinity concentrations from samples collected at station PR30 in East Passage from July 2006 – October 2007.

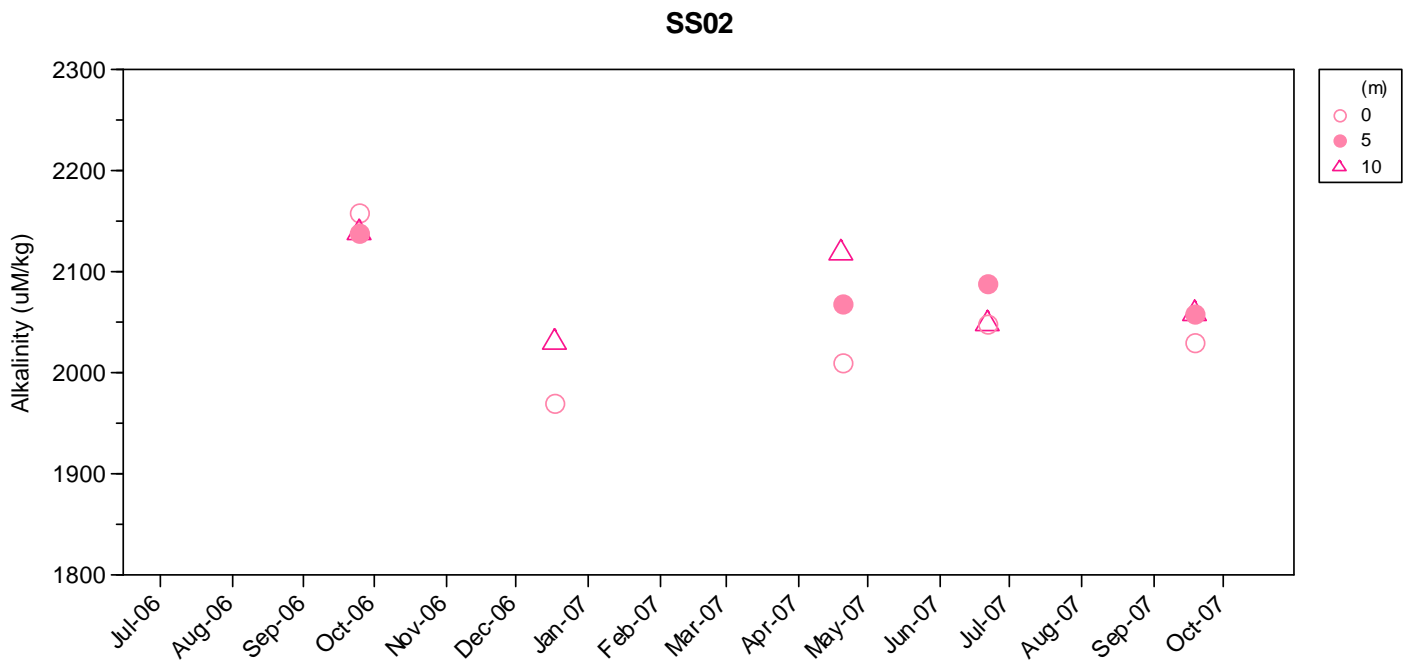


Figure C-9. Monthly alkalinity concentrations from samples collected at South Sound station SS02 in outer Henderson Inlet from July 2006 – October 2007.

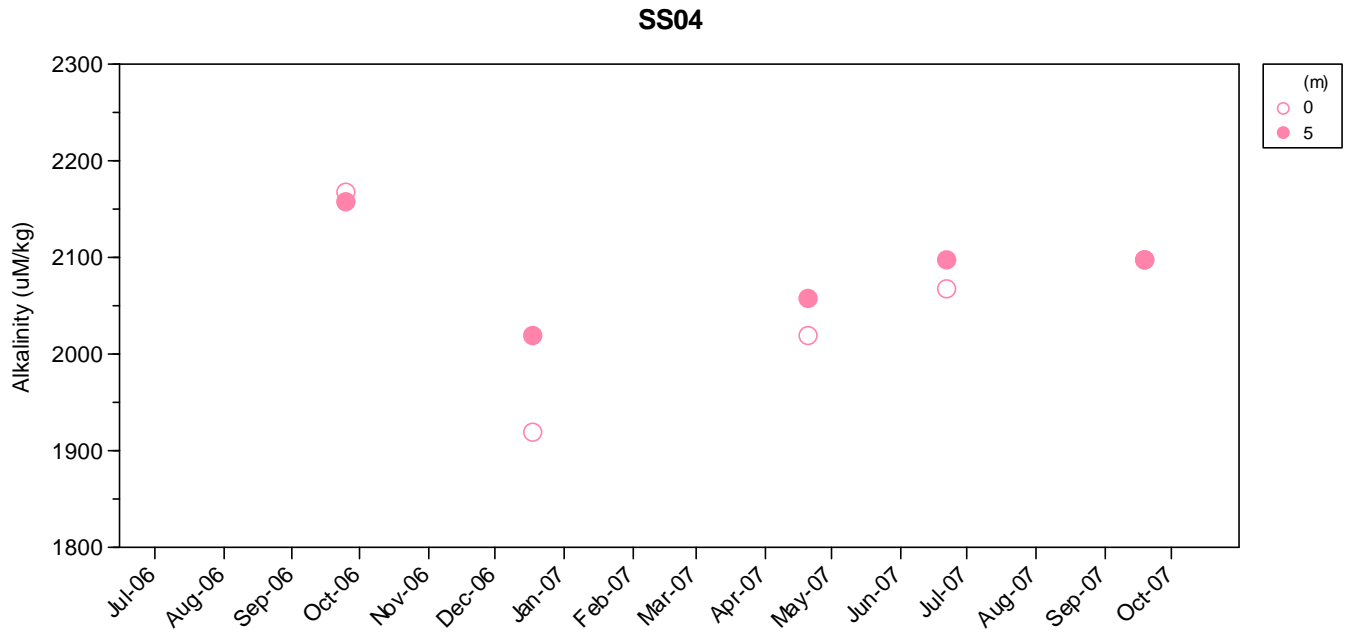


Figure C-10. Monthly alkalinity concentrations from samples collected at South Sound station SS04 in South Budd Inlet from July 2006 – October 2007.

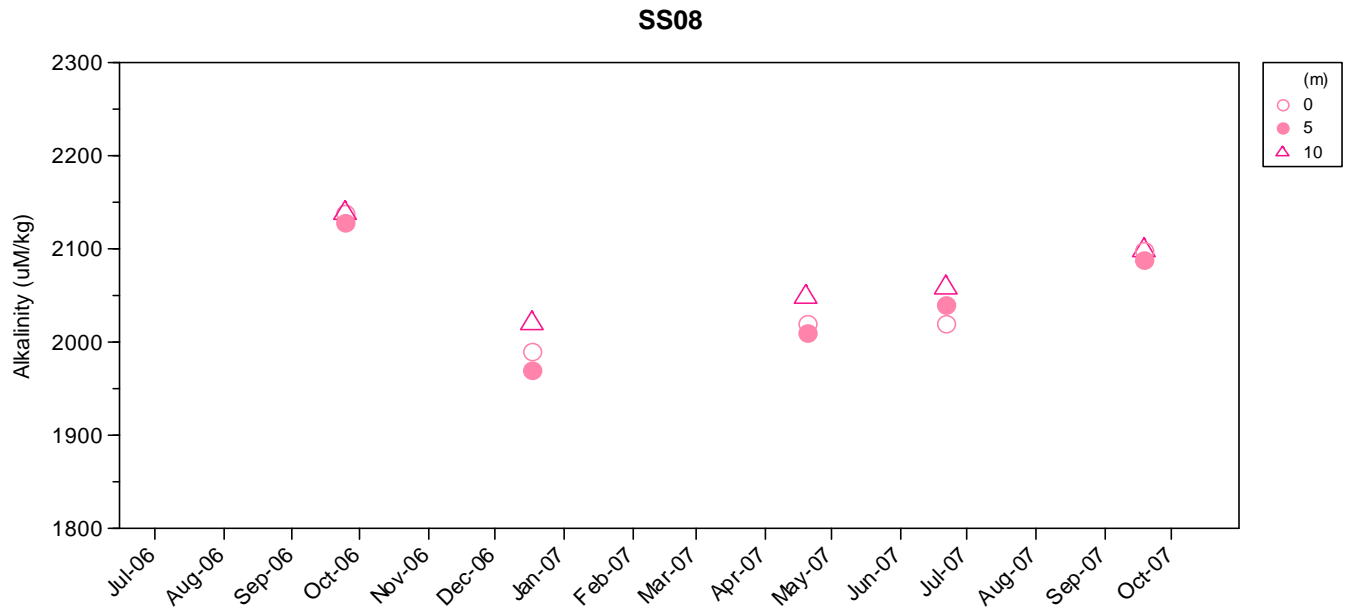


Figure C-11. Monthly alkalinity concentrations from samples collected at South Sound station SS08 in Central Budd Inlet from July 2006 – October 2007.

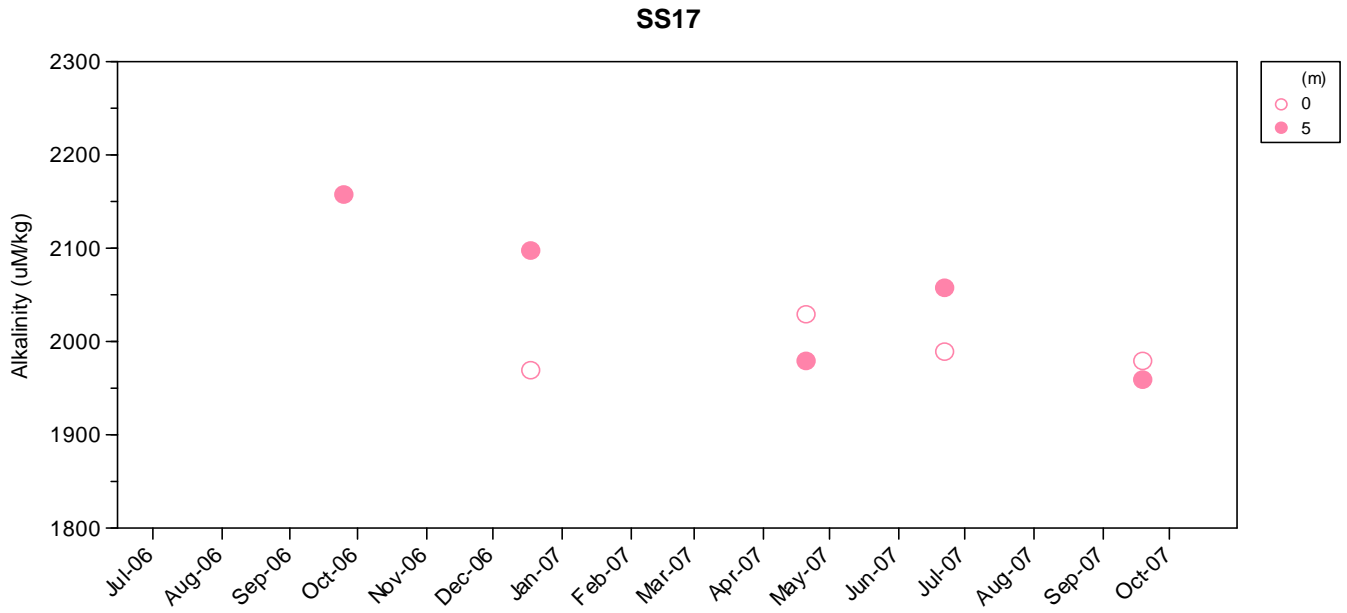


Figure C-12. Monthly alkalinity concentrations from samples collected at South Sound station SS17 near inner Eld Inlet from July 2006 – October 2007.

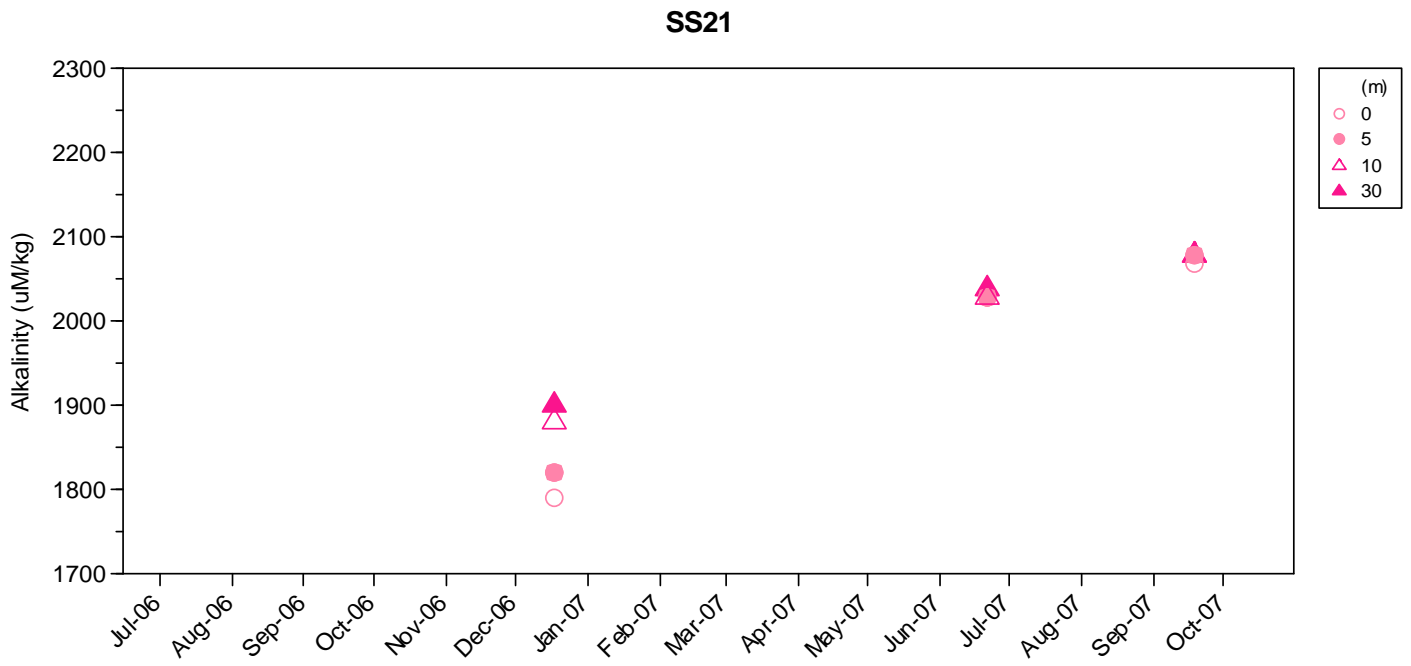


Figure C-13. Note unique Y- axis range. Monthly alkalinity concentrations from samples collected at South Sound station SS21 near outer Totten Inlet from July 2006 – October 2007.

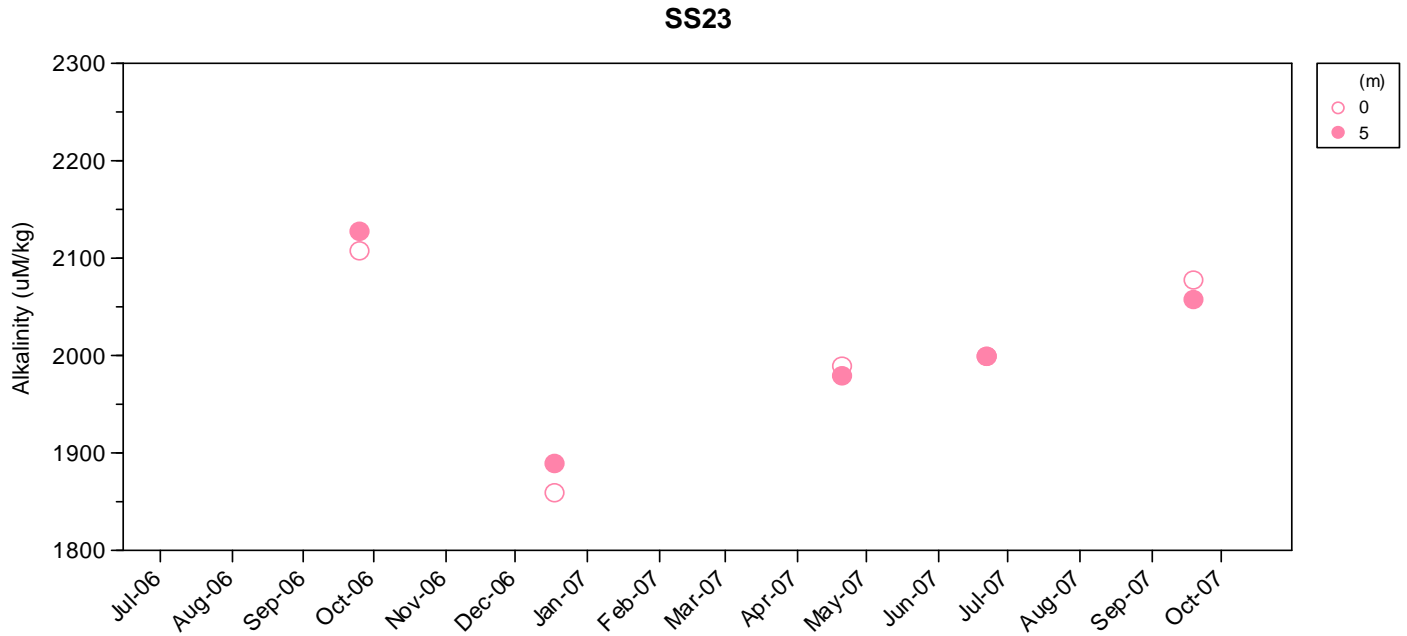


Figure C-14. Monthly alkalinity concentrations from samples collected at South Sound station SS23 near central Totten Inlet from July 2006 – October 2007.

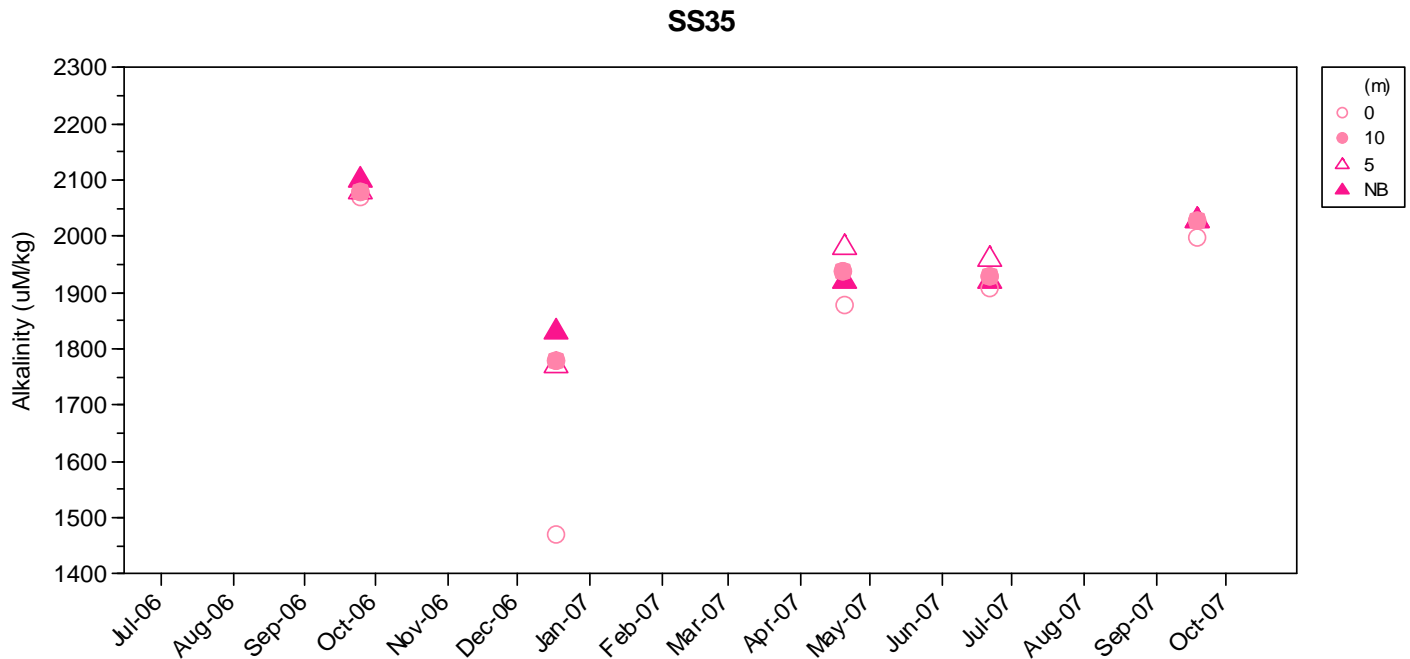


Figure C-15. Monthly alkalinity concentrations from samples collected at South Sound station SS35 near the Port of Shelton in Oakland Bay from July 2006 – October 2007. Note unique Y- axis range.

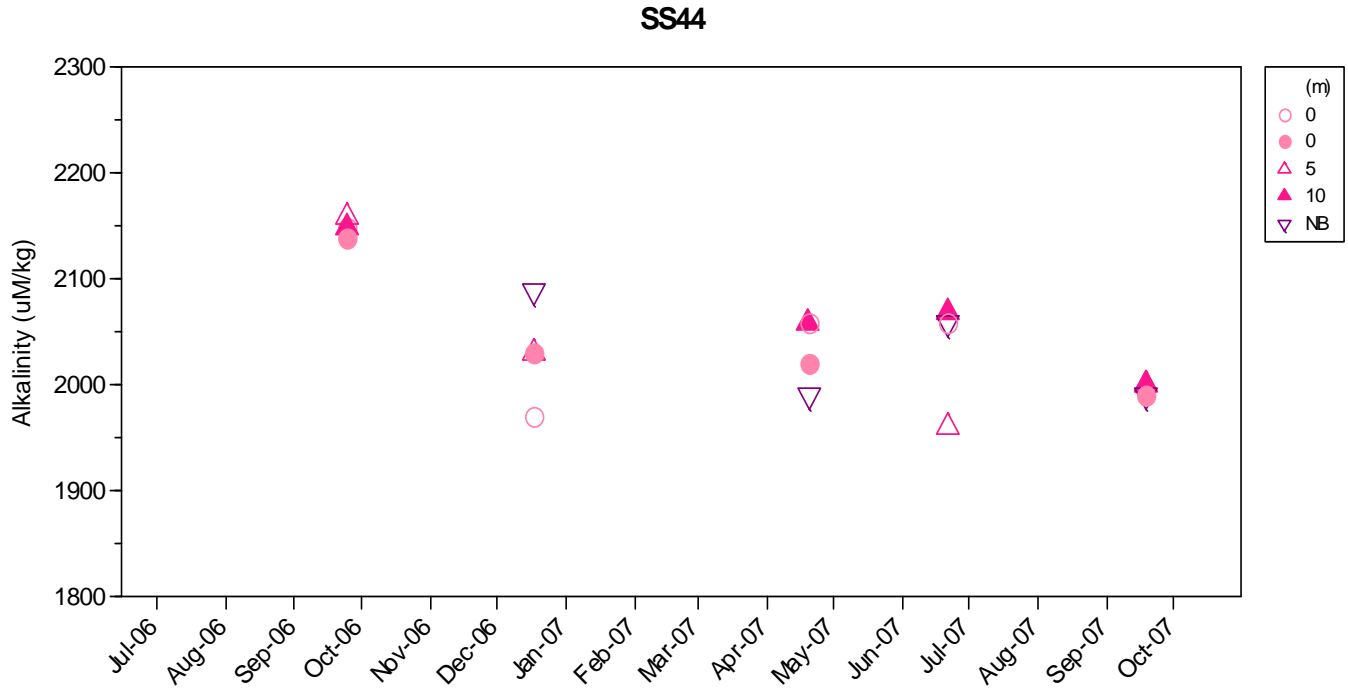


Figure C-16. Monthly alkalinity concentrations from samples collected at South Sound station SS44 near North Pickering Passage from July 2006 – October 2007.

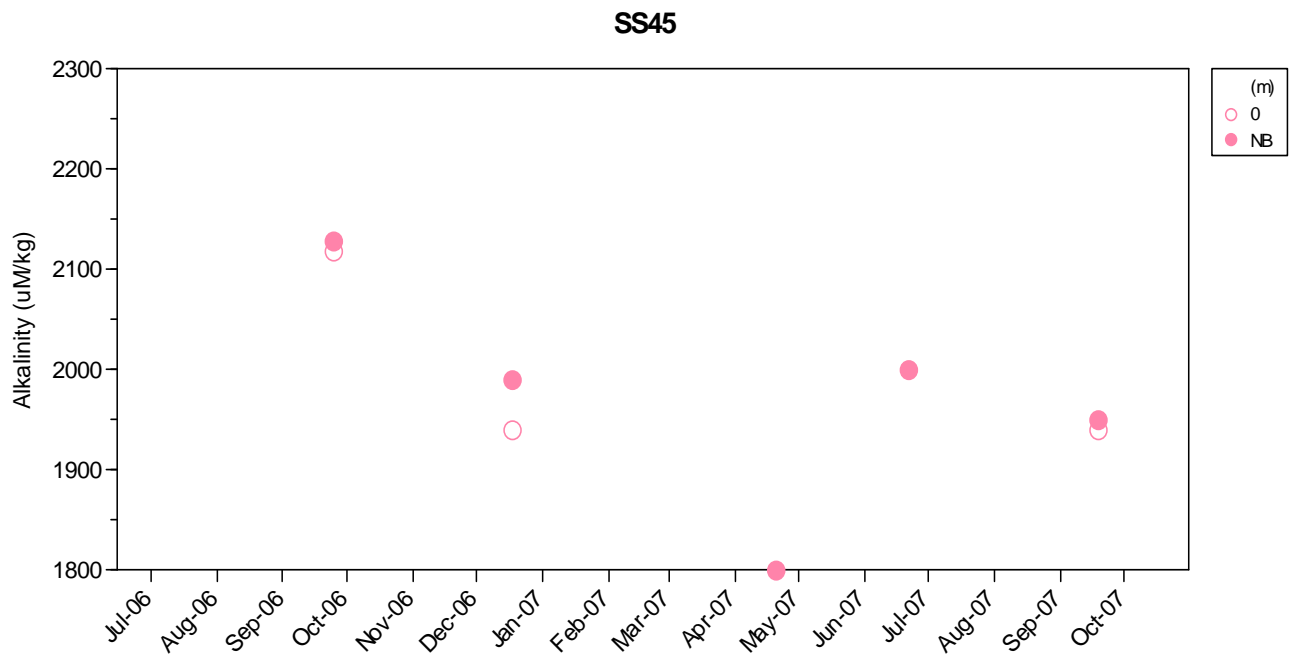


Figure C-17. Monthly alkalinity concentrations from samples collected at South Sound station SS45 near inner Case Inlet from July 2006 – October 2007.

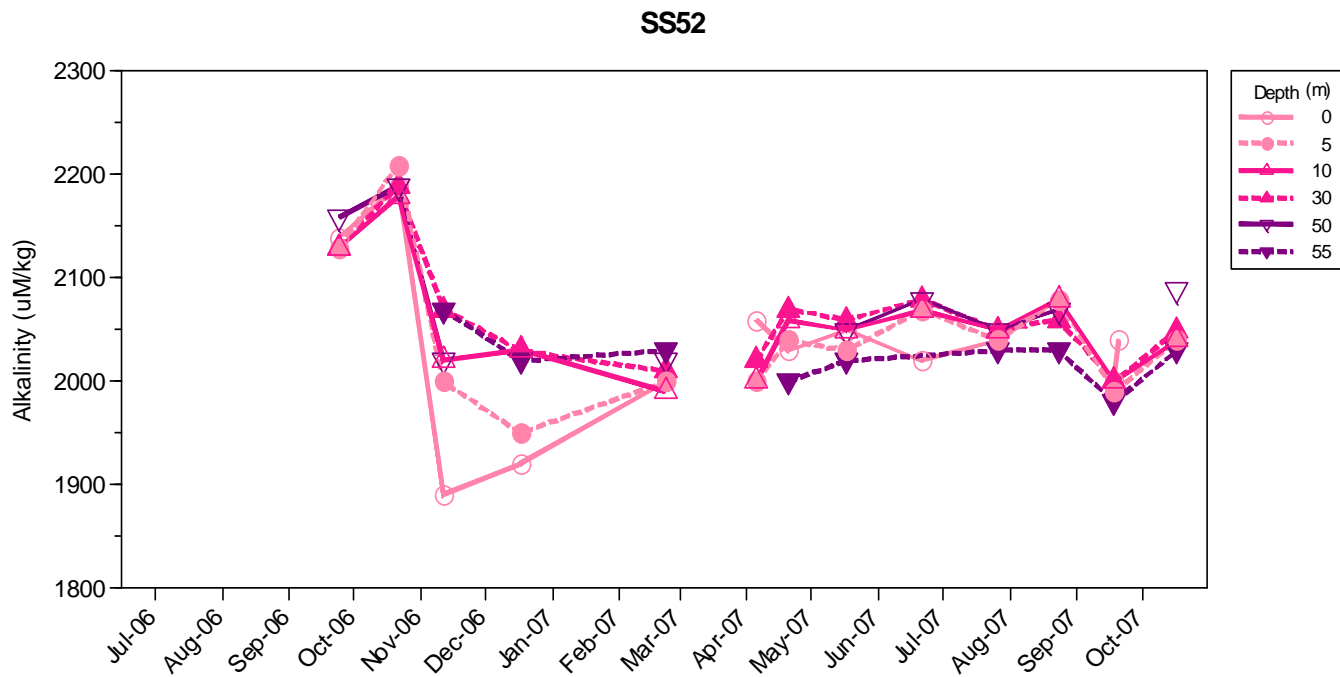


Figure C-18. Monthly alkalinity concentrations from samples collected at South Sound station SS52 near central Case Inlet from July 2006 – October 2007.

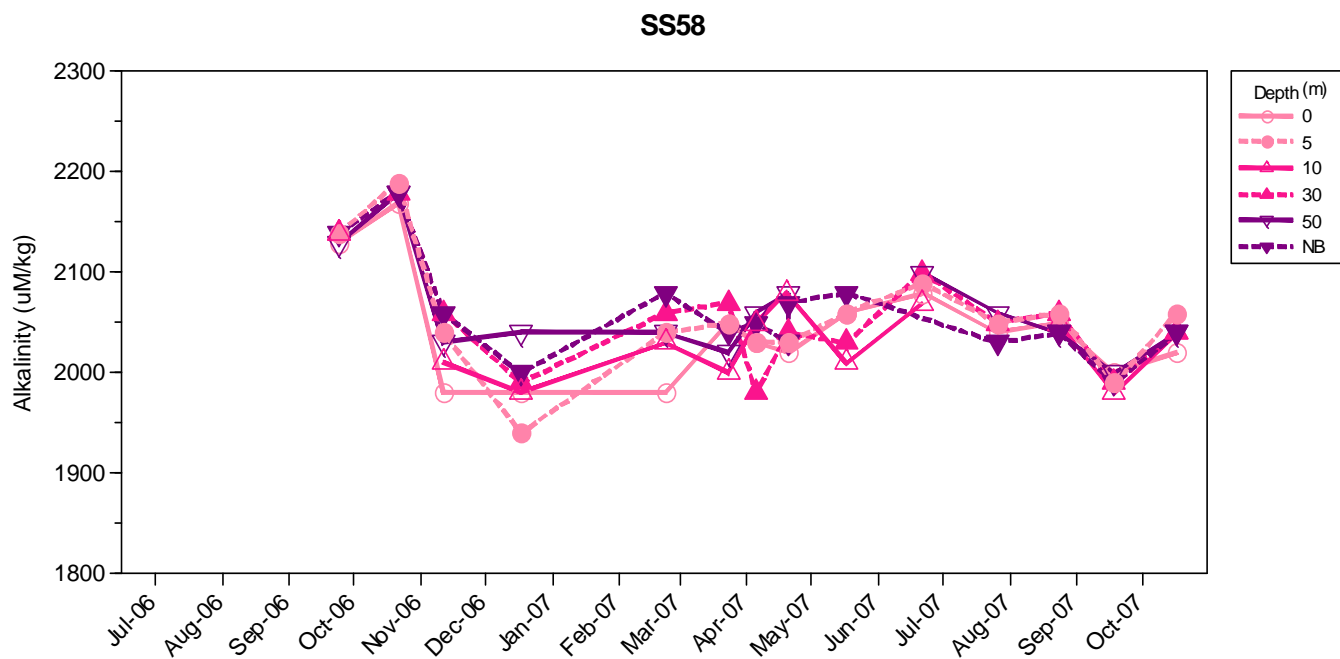


Figure C-19. Monthly alkalinity concentrations from samples collected at South Sound station SS58 near South Case Inlet from July 2006 – October 2007.

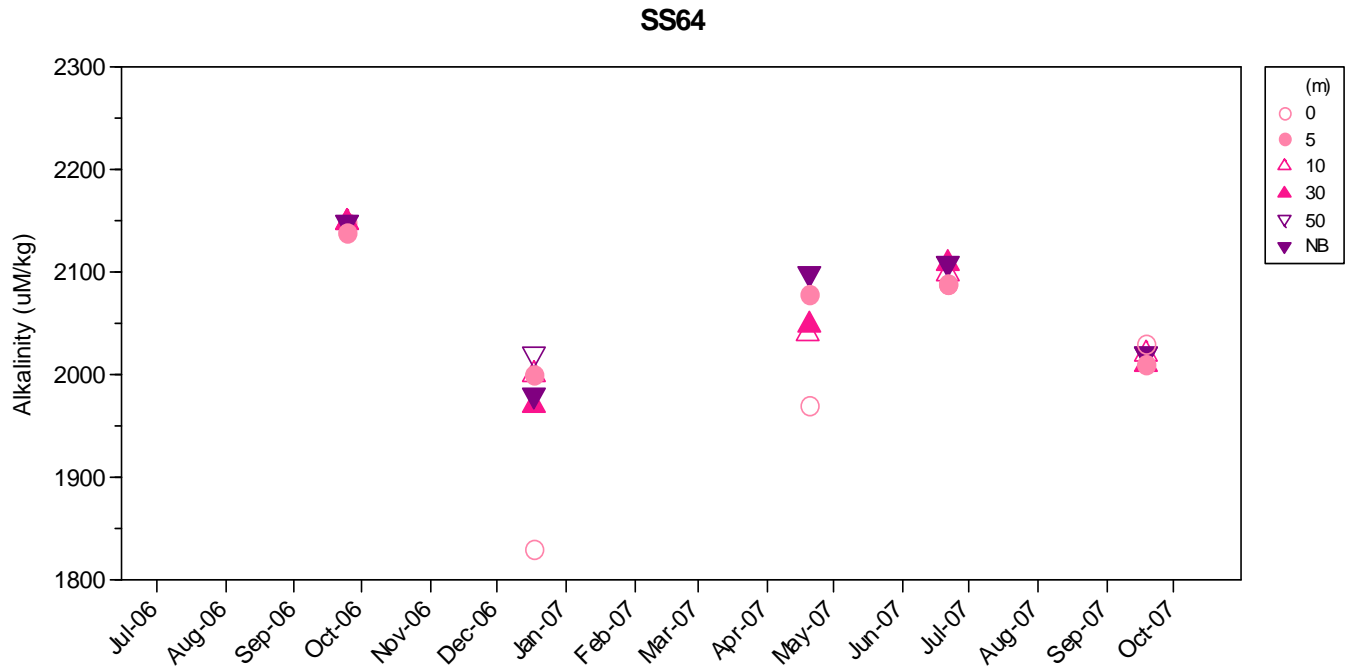


Figure C-20. Monthly alkalinity concentrations from samples collected at South Sound station SS64 in Nisqually Reach from July 2006 – October 2007.

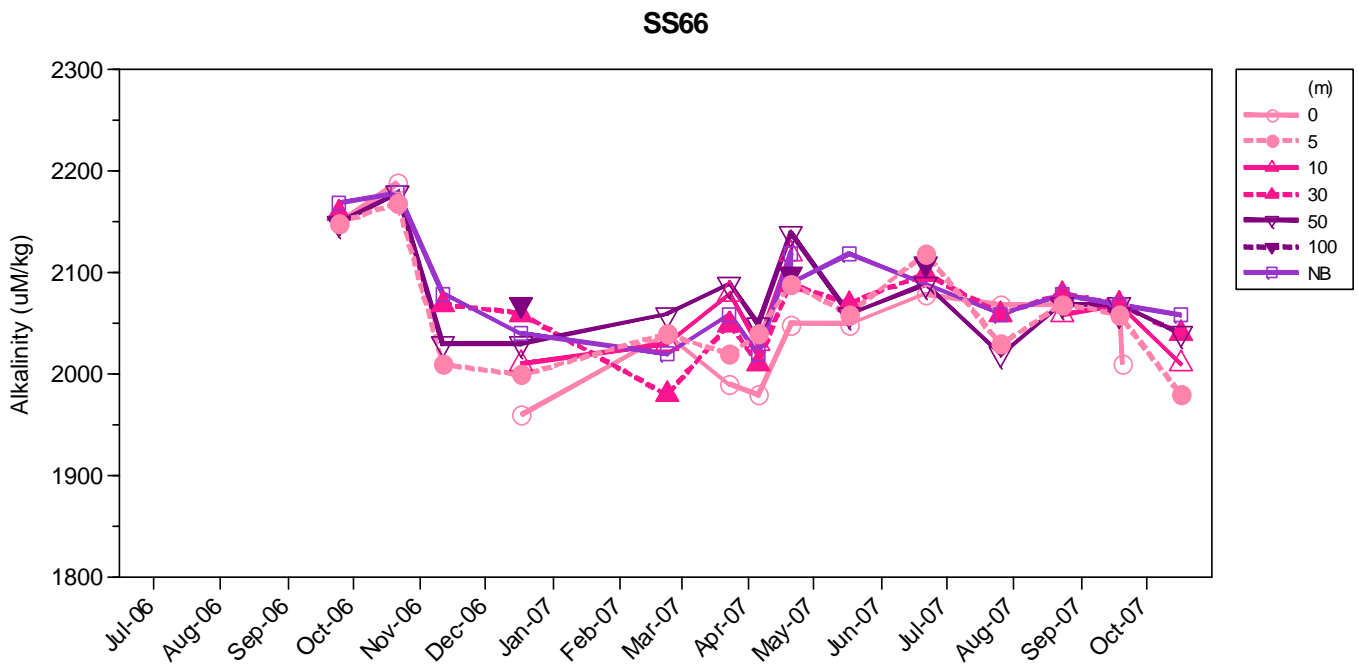


Figure C-21. Monthly alkalinity concentrations from samples collected at South Sound station SS66 near Steilacoom from July 2006 – October 2007.

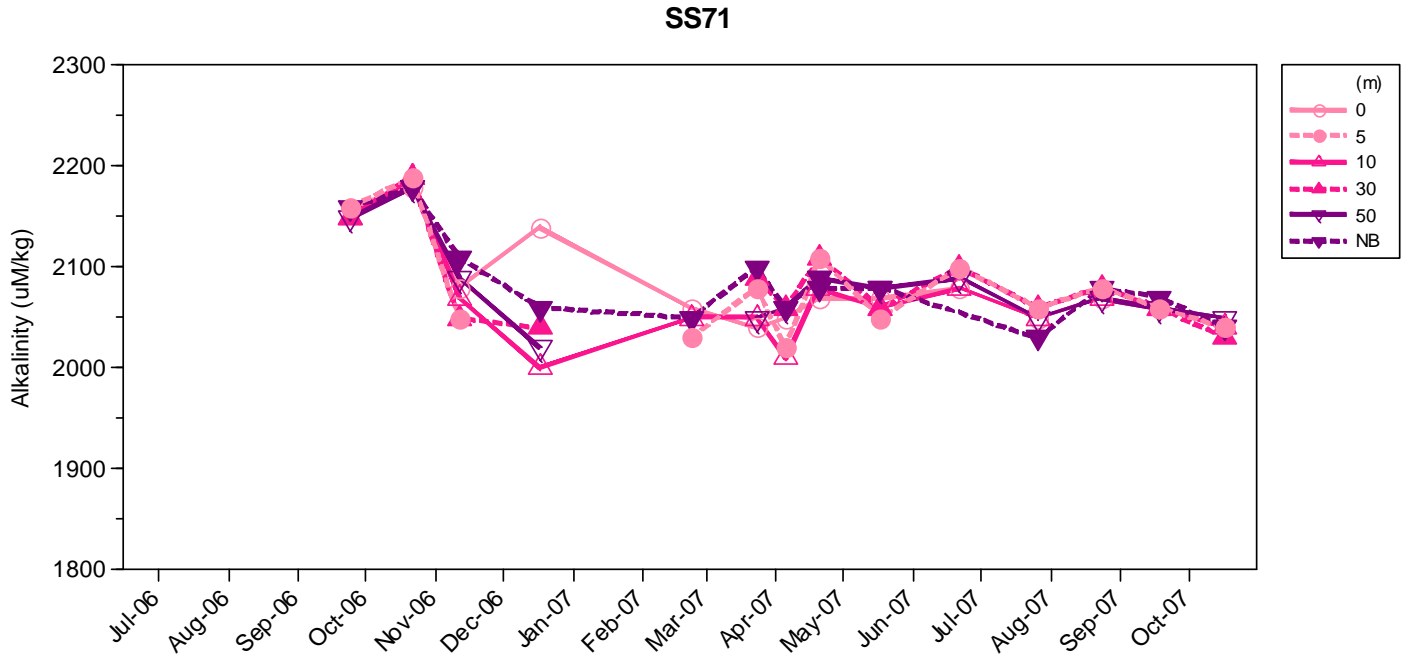


Figure C-22. Monthly alkalinity concentrations from samples collected at South Sound station SS71 in Central Carr Inlet from July 2006 – October 2007.

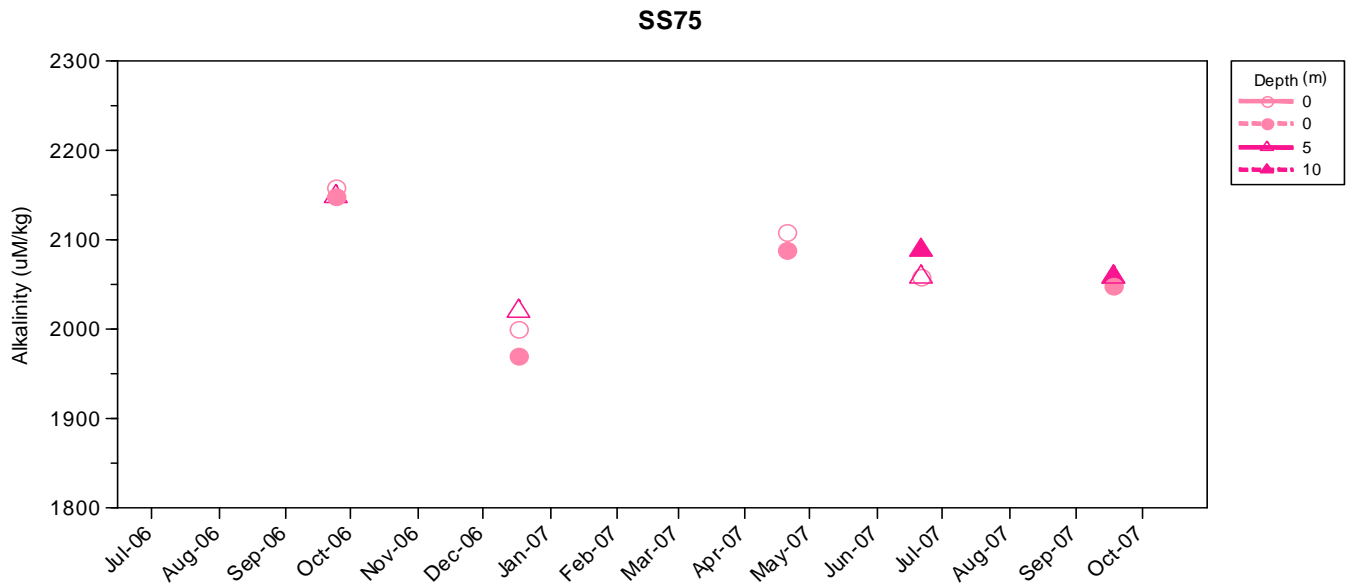


Figure C-23. Monthly alkalinity concentrations from samples collected at South Sound station SS75 in North inner Carr from July 2006 – October 2007.

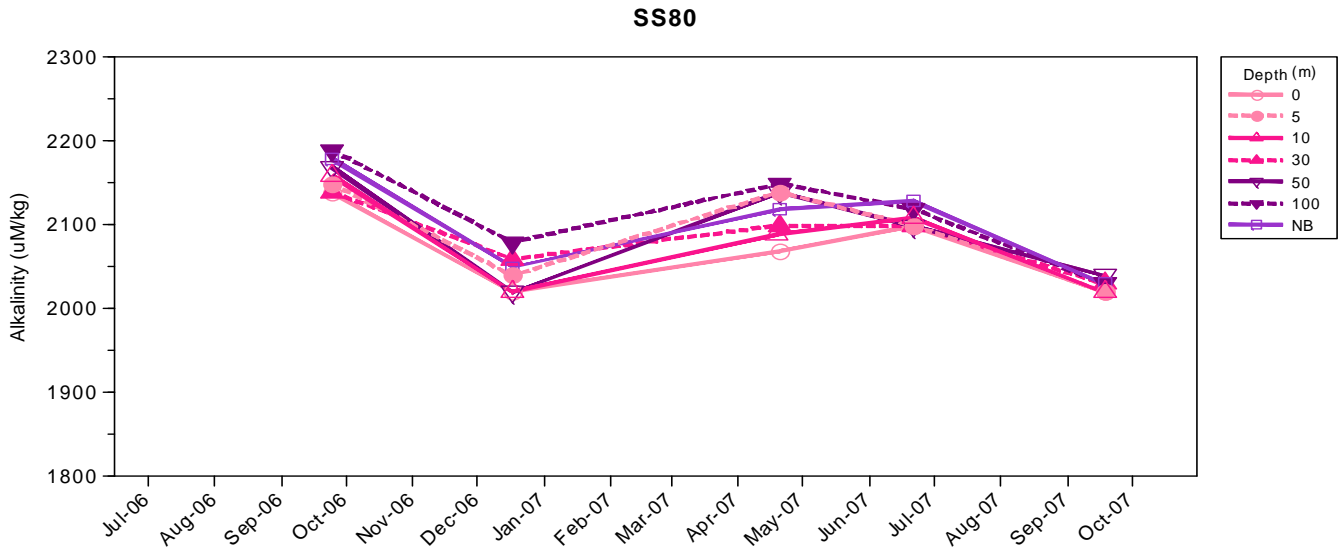


Figure C-24. Monthly alkalinity concentrations from samples collected at South Sound station SS80 near Dalco Passage from July 2006 – October 2007.

Chlorophyll a

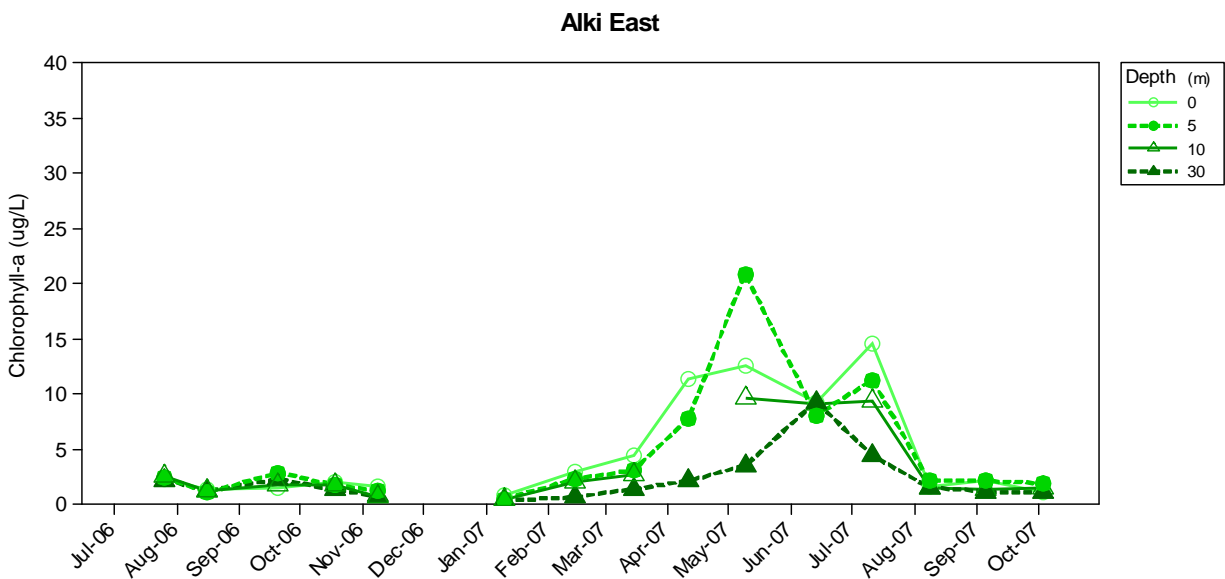


Figure C-25. Monthly chlorophyll *a* concentrations from discrete samples collected at Alki East boundary station in the Central Basin from July 2006 – October 2007.

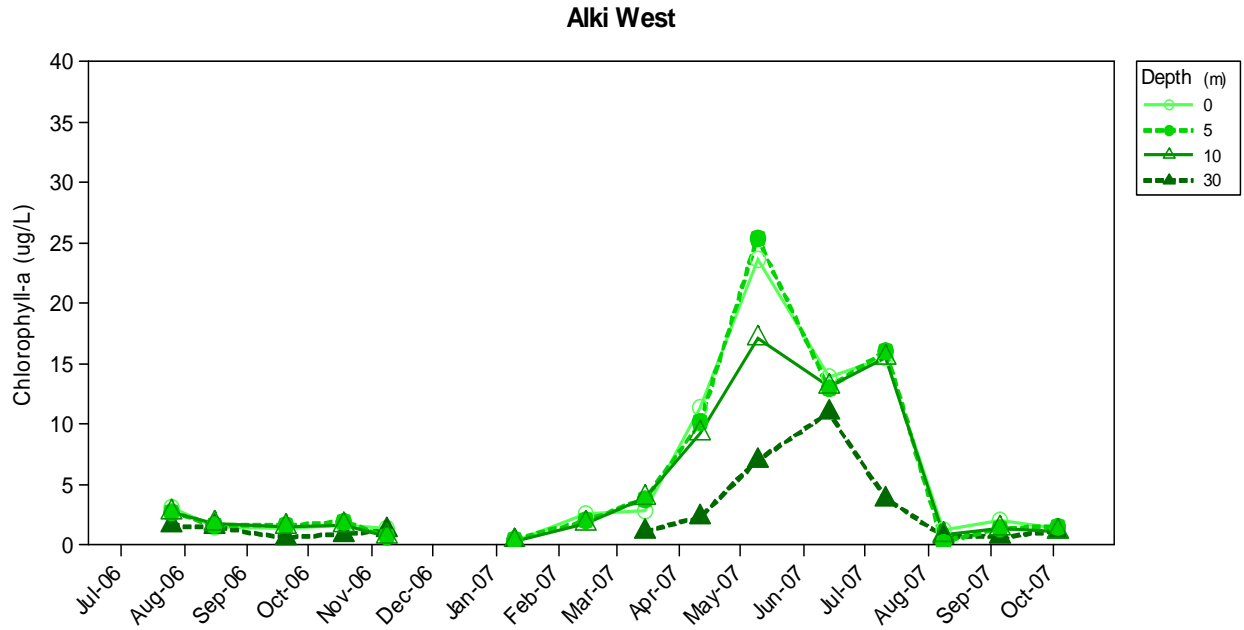


Figure C-26. Monthly chlorophyll *a* concentrations from discrete samples collected at Alki West boundary station in the Central Basin from July 2006 – October 2007.

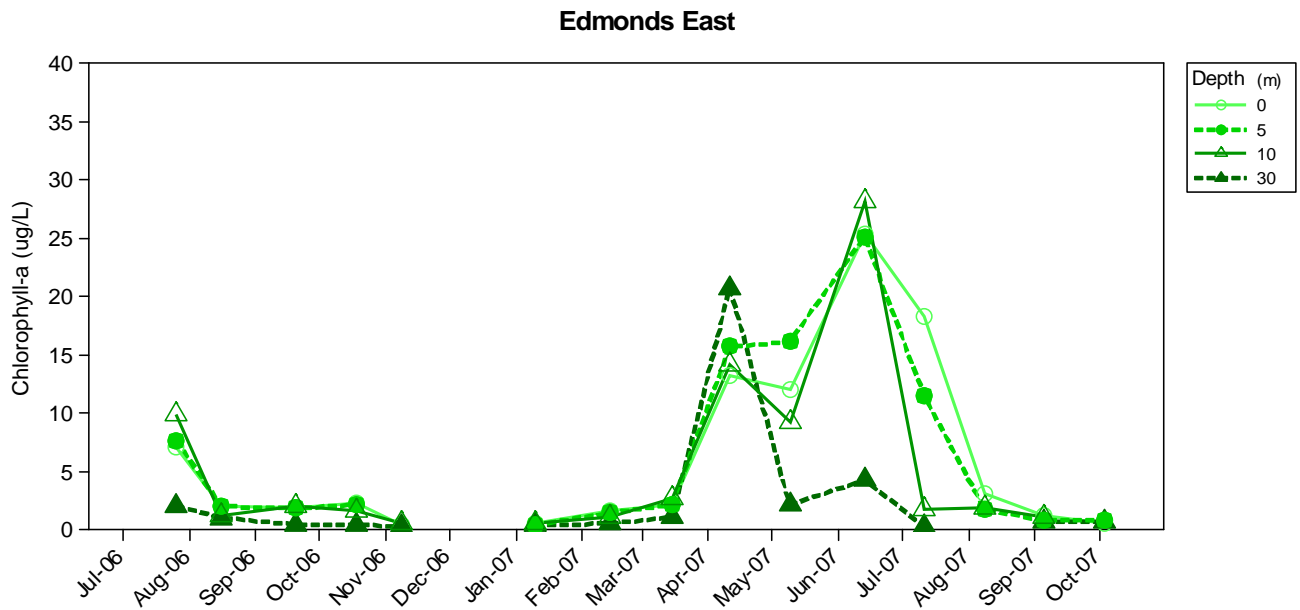


Figure C-27. Monthly chlorophyll *a* concentrations from discrete samples collected at Edmonds East boundary station in the Central Basin from July 2006 – October 2007.

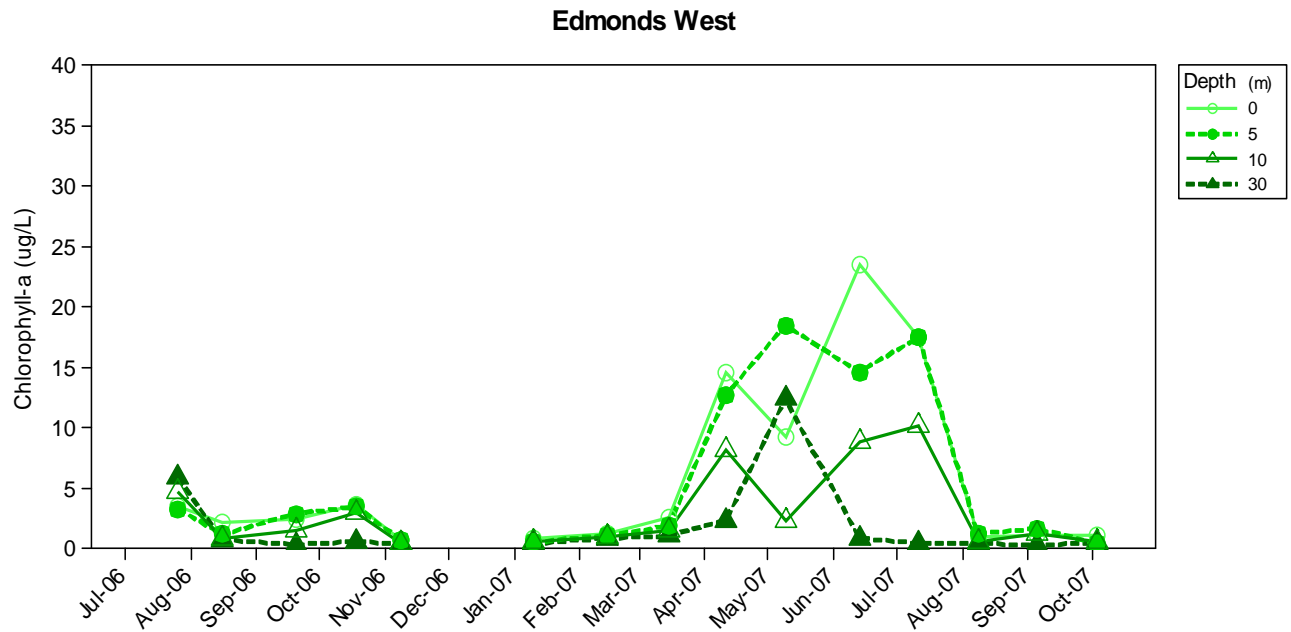


Figure C-28. Monthly chlorophyll *a* concentrations from discrete samples collected at Edmonds West boundary station in the Central Basin from July 2006 – October 2007.

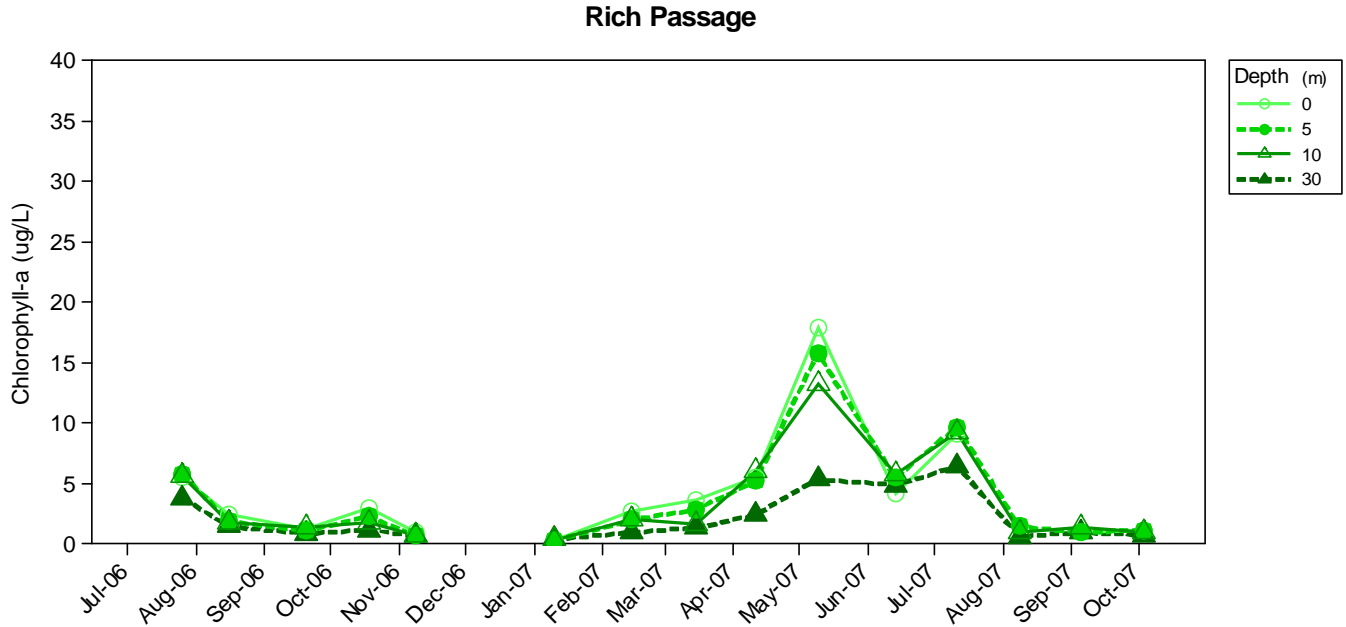


Figure C-29. Monthly chlorophyll *a* concentrations from discrete samples collected at Rich Passage boundary station from July 2006 – October 2007.

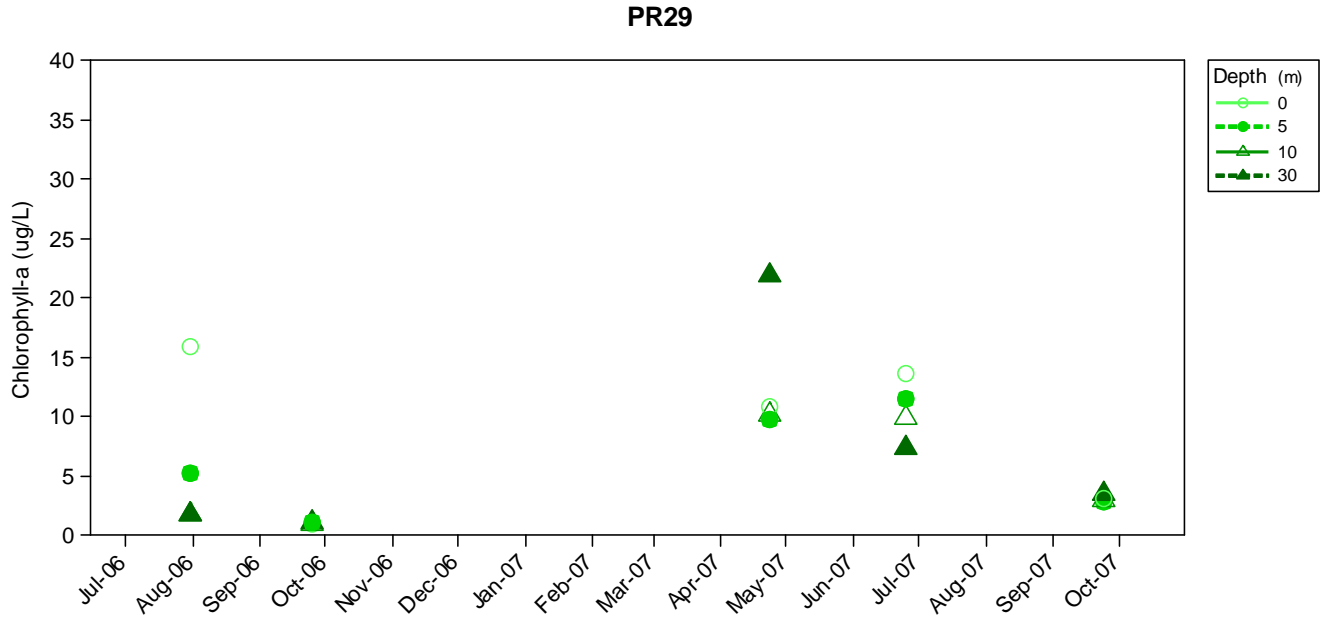


Figure C-30. Monthly chlorophyll *a* concentrations from discrete samples collected at station PR29 near Blake Island from July 2006 – October 2007.

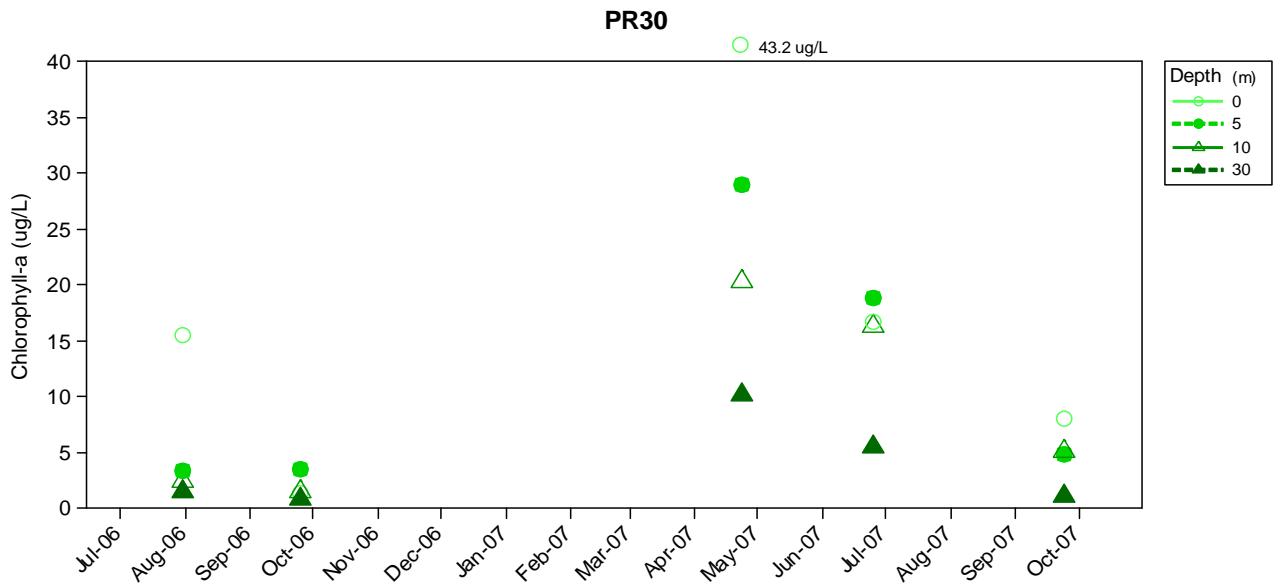


Figure C-31. Monthly chlorophyll *a* concentrations from discrete samples collected at station PR30 in East Passage from July 2006 – October 2007.

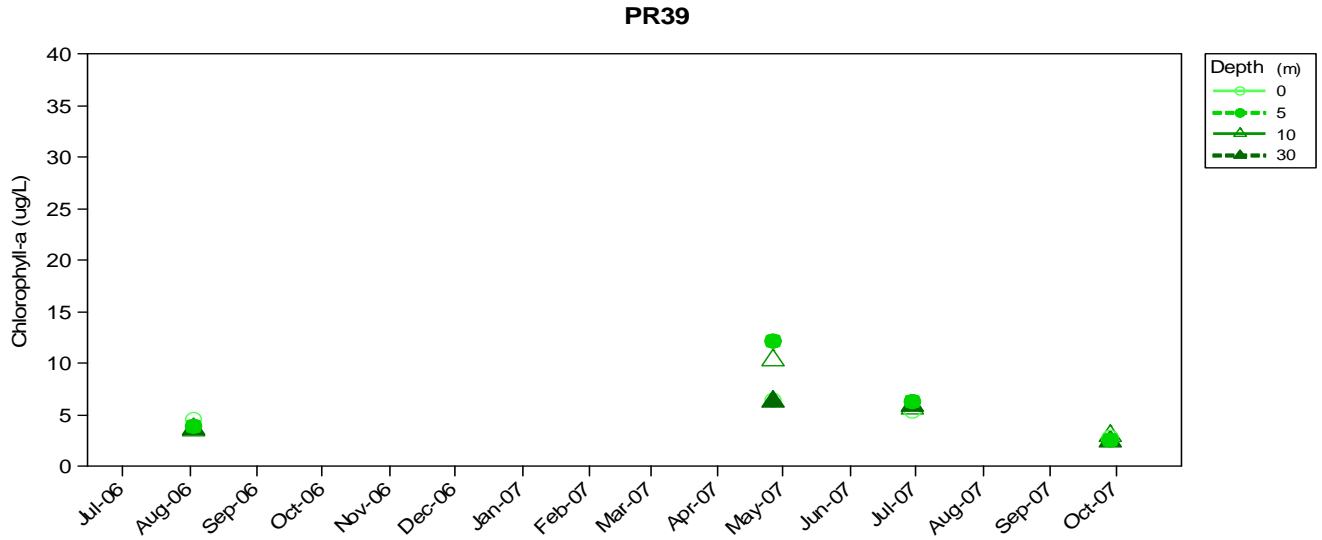


Figure C-32. Monthly chlorophyll *a* concentrations from discrete samples collected at station PR39 in Colvos Passage from July 2006 – October 2007.

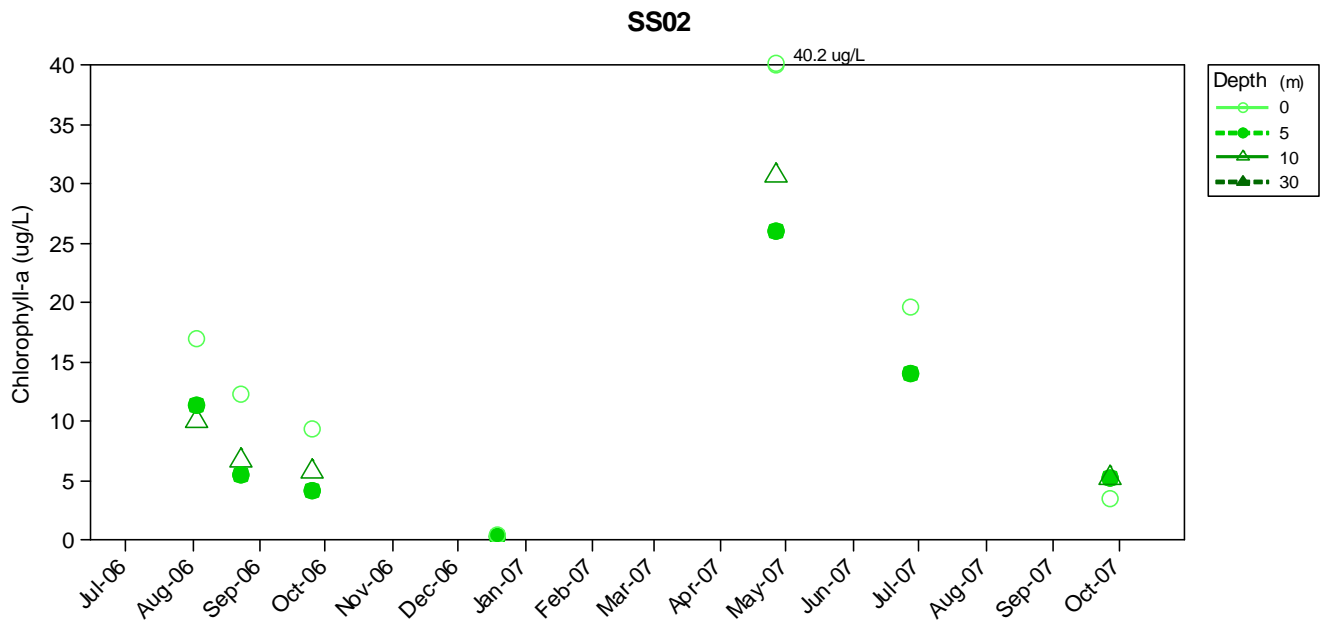


Figure C-33. Monthly chlorophyll *a* concentrations from discrete samples collected at South Sound station SS02 in outer Henderson Inlet from July 2006 – October 2007.

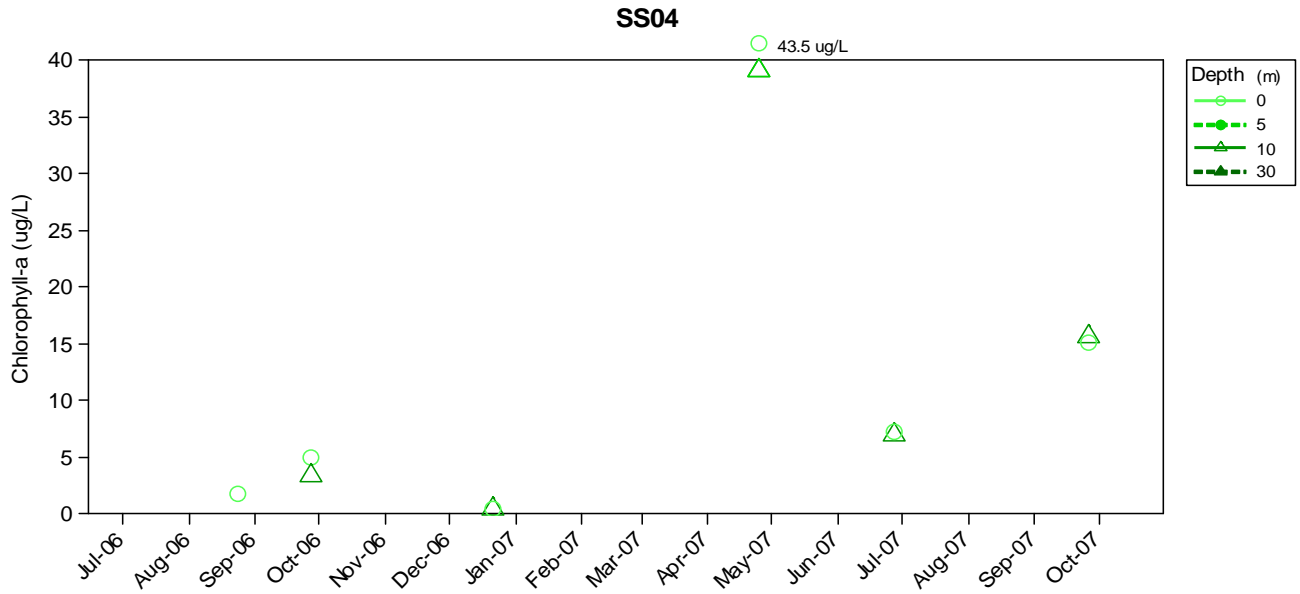


Figure C-34. Monthly chlorophyll *a* concentrations from discrete samples collected at South Sound station SS04 in South Budd Inlet from July 2006 – October 2007.

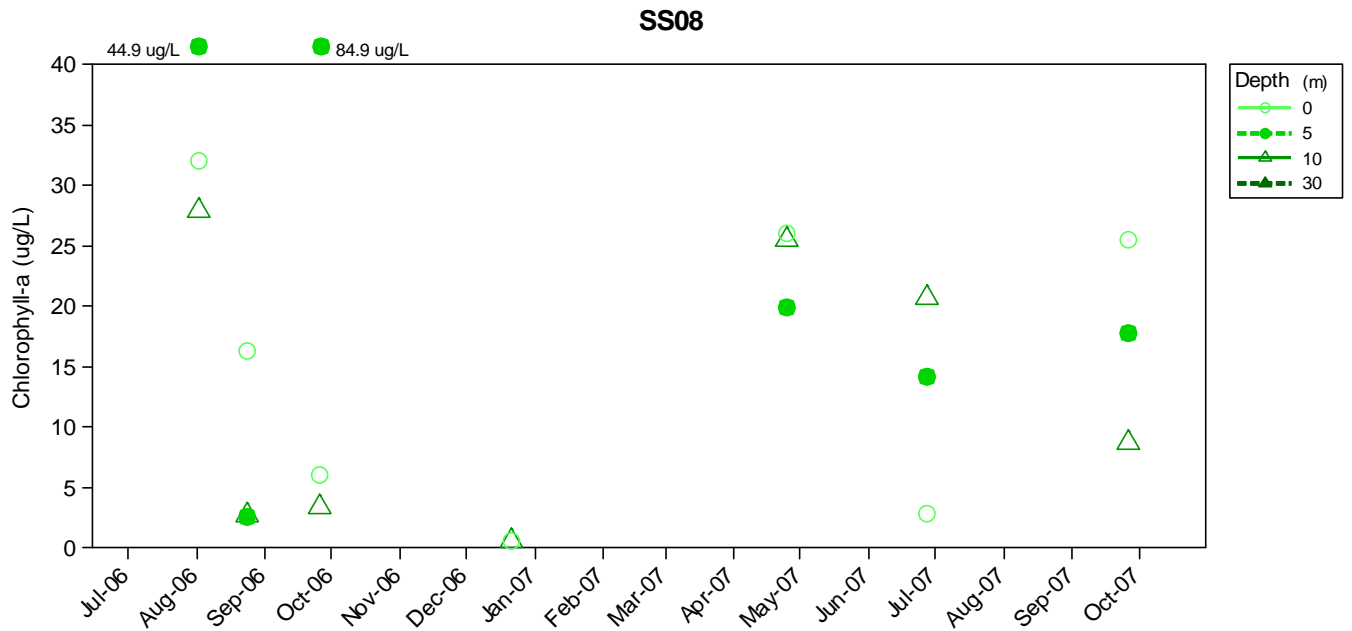


Figure C-35. Monthly chlorophyll *a* concentrations from discrete samples collected at South Sound station SS08 in Central Budd Inlet from July 2006 – October 2007.

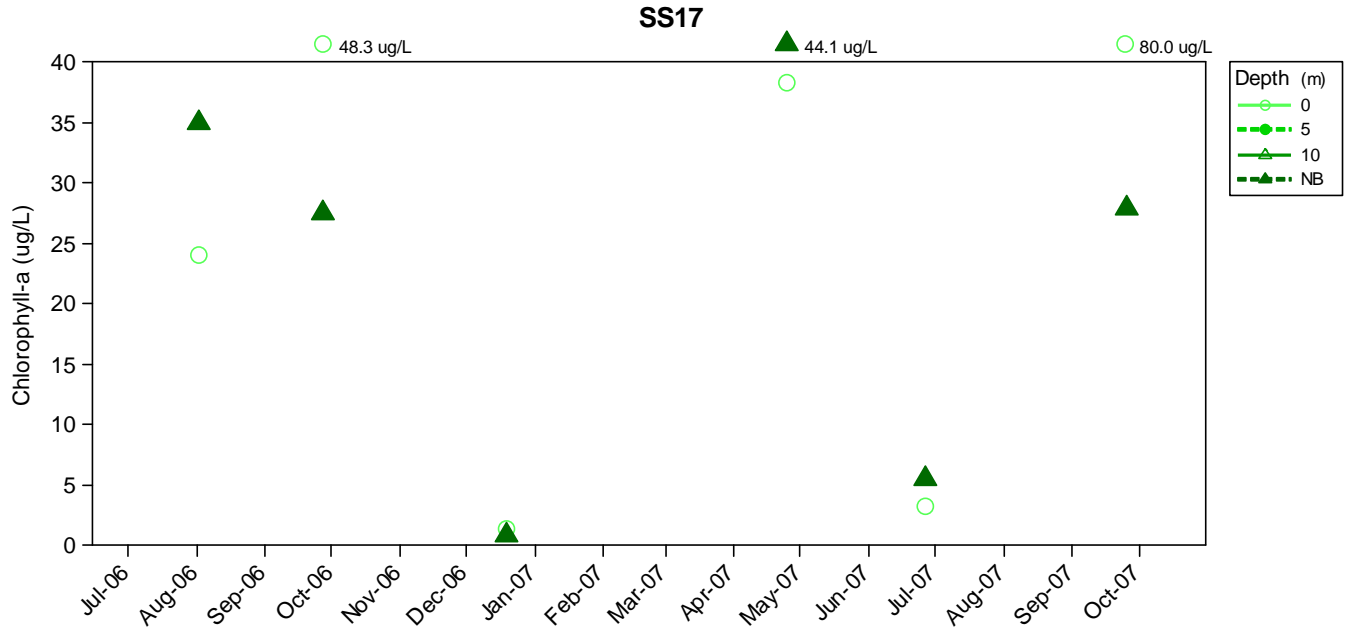


Figure C-36. Monthly chlorophyll *a* concentrations from discrete samples collected at South Sound station SS17 in inner Eld Inlet from July 2006 – October 2007.

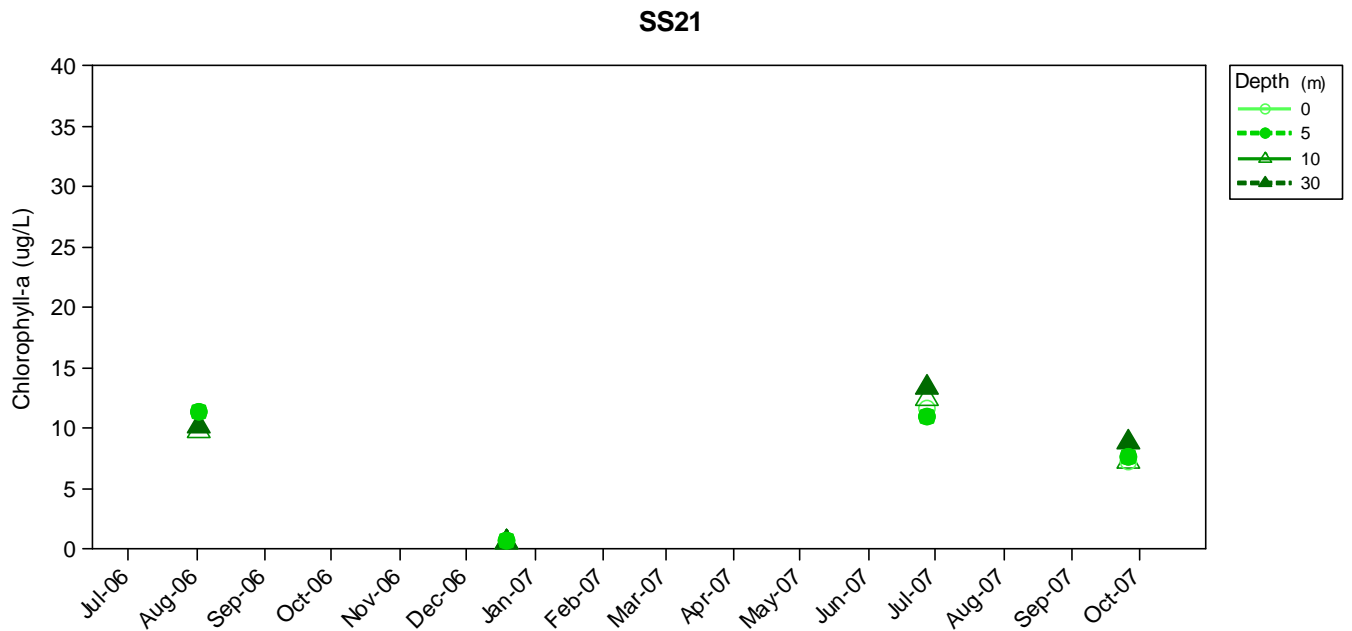


Figure C-37. Monthly chlorophyll *a* concentrations from discrete samples collected at South Sound station SS21 near outer Totten Inlet from July 2006 – October 2007.

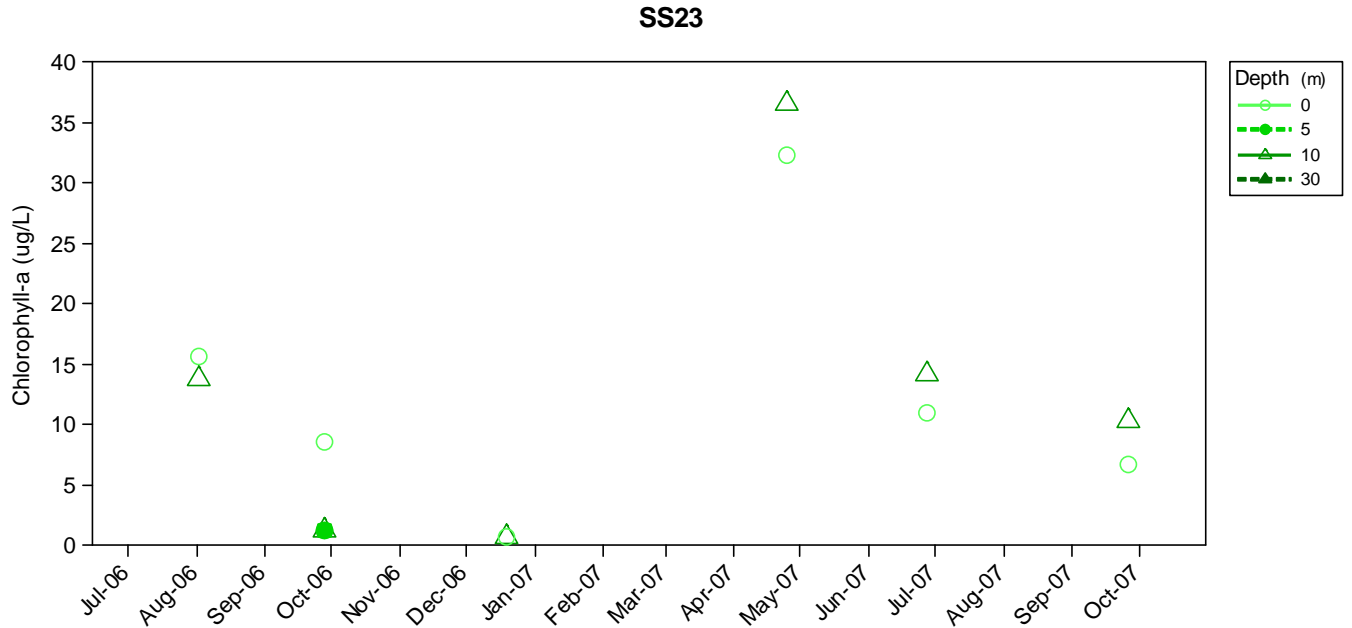


Figure C-38. Monthly chlorophyll *a* concentrations from discrete samples collected at South Sound station SS23 near central Totten Inlet from July 2006 – October 2007.

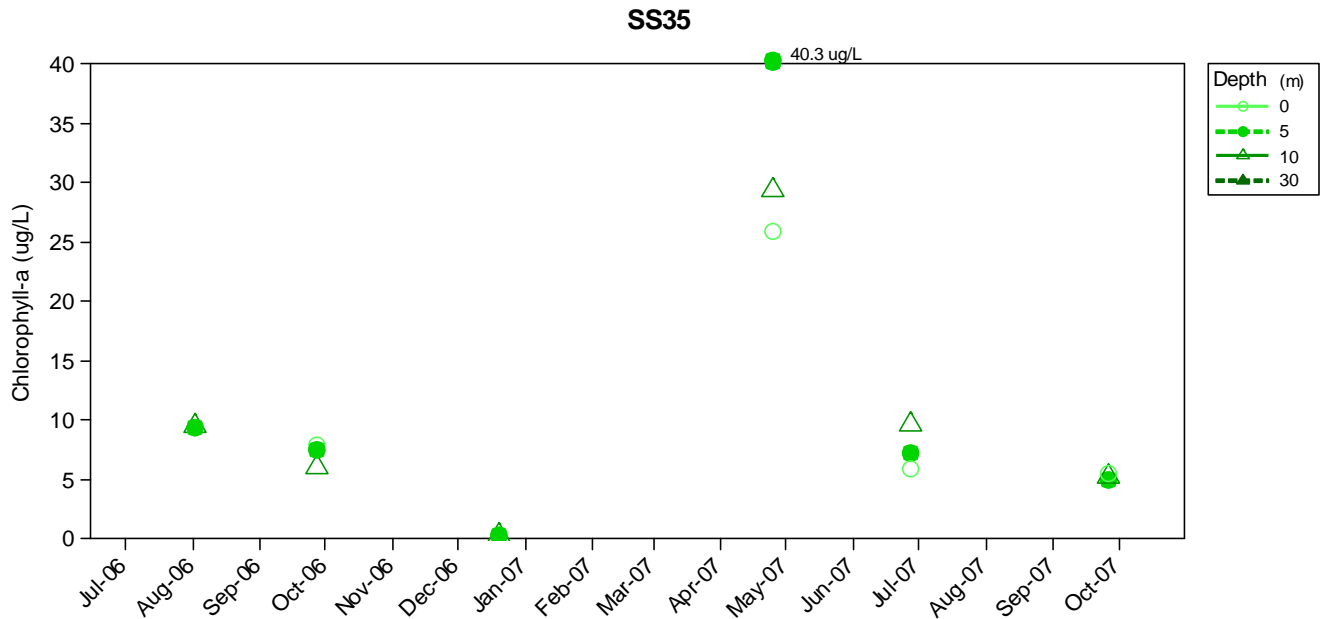


Figure C-39. Monthly chlorophyll *a* concentrations from discrete samples collected at South Sound station SS35 near the Port of Shelton in Oakland Bay from July 2006 – October 2007.

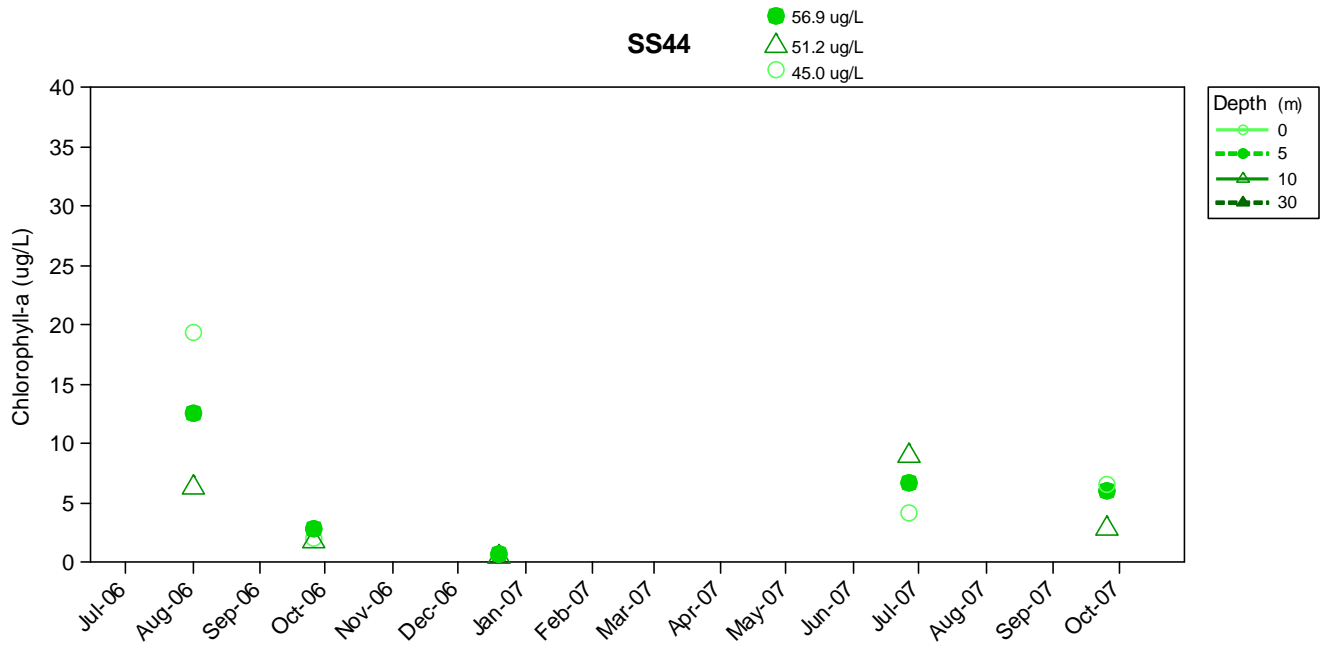


Figure C-40. Monthly chlorophyll *a* concentrations from discrete samples collected at South Sound station SS44 near North Pickering Passage from July 2006 – October 2007.

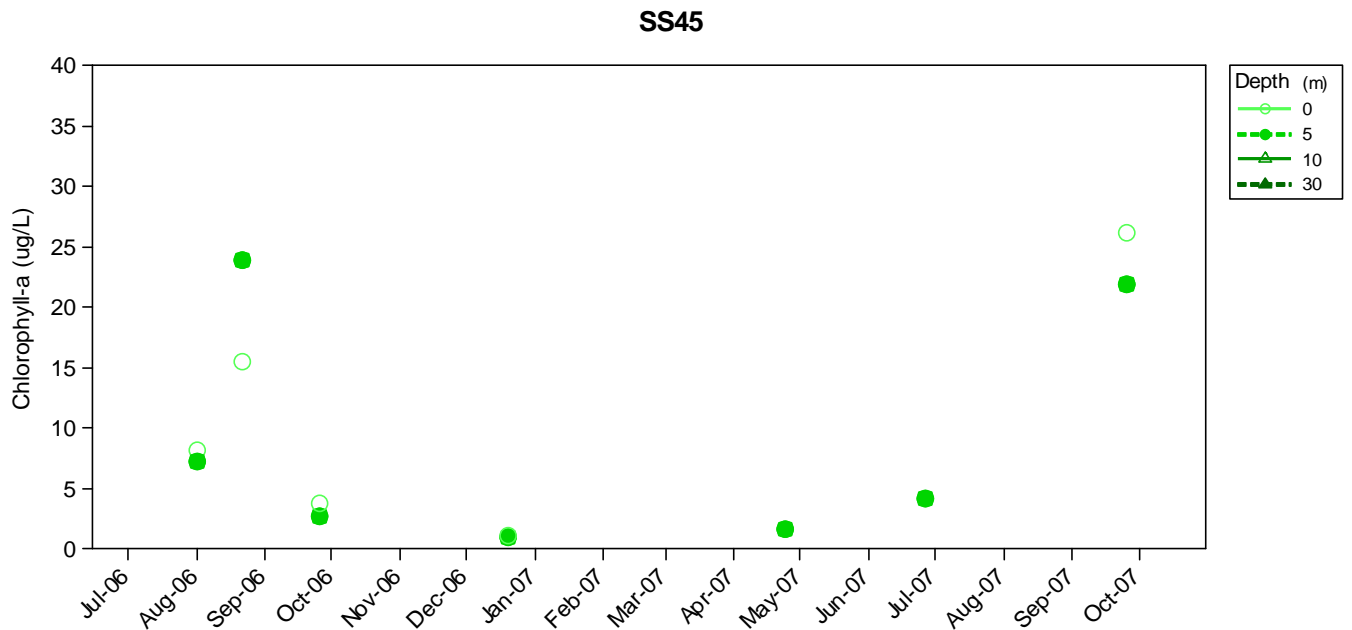


Figure C-41. Monthly chlorophyll *a* concentrations from discrete samples collected at South Sound station SS45 near inner Case Inlet from July 2006 – October 2007.

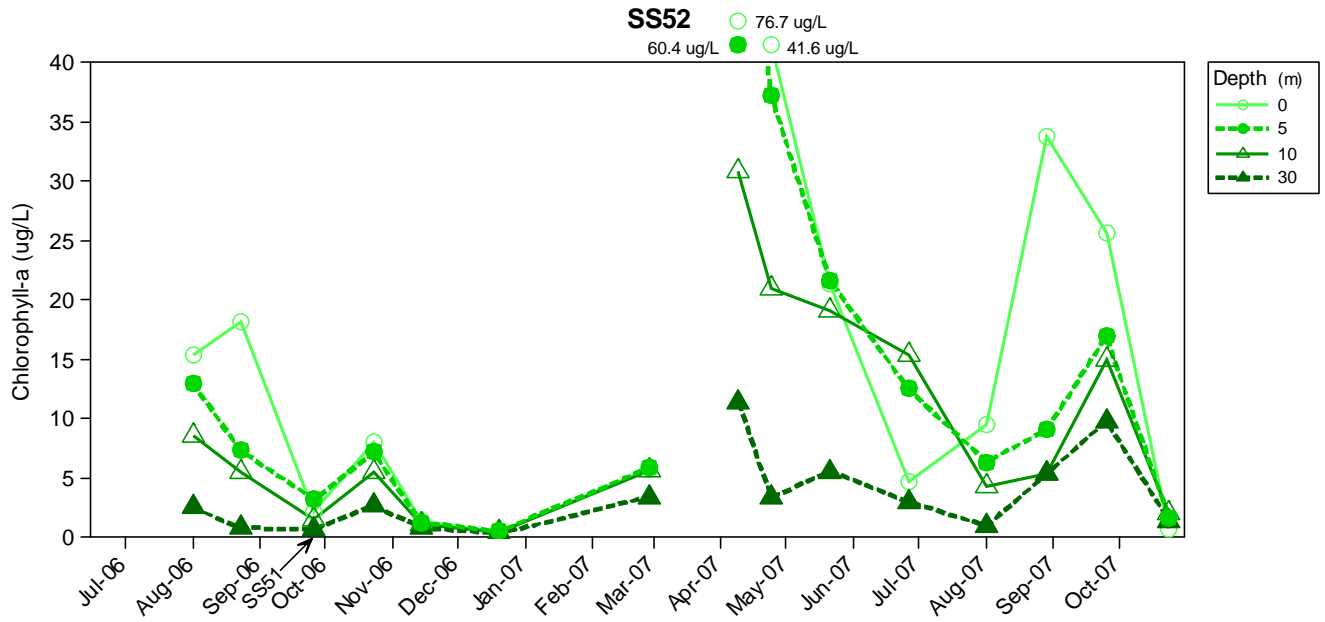


Figure C-42. Monthly chlorophyll *a* concentrations from discrete samples collected at South Sound station SS52 near central Case Inlet from July 2006 – October 2007.

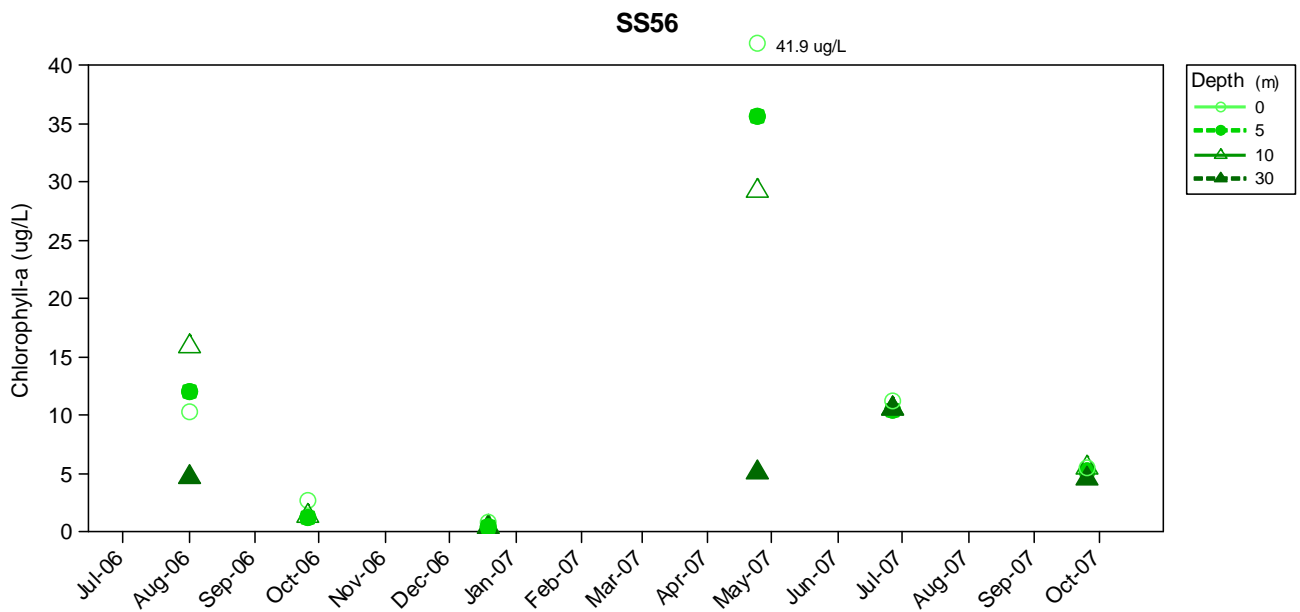


Figure C-43. Monthly chlorophyll *a* concentrations from discrete samples collected at South Sound station SS56 near South Case Inlet from July 2006 – October 2007.

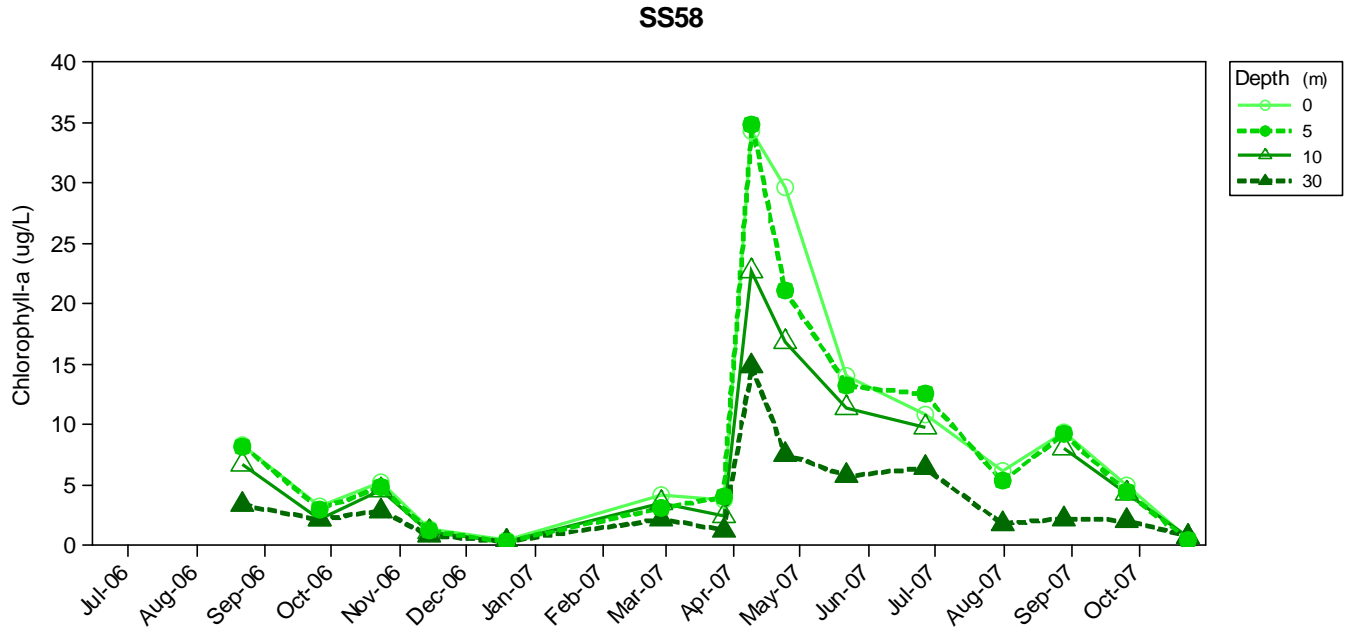


Figure C-44. Monthly chlorophyll *a* concentrations from discrete samples collected at South Sound station SS58 near South Case Inlet from July 2006 – October 2007.

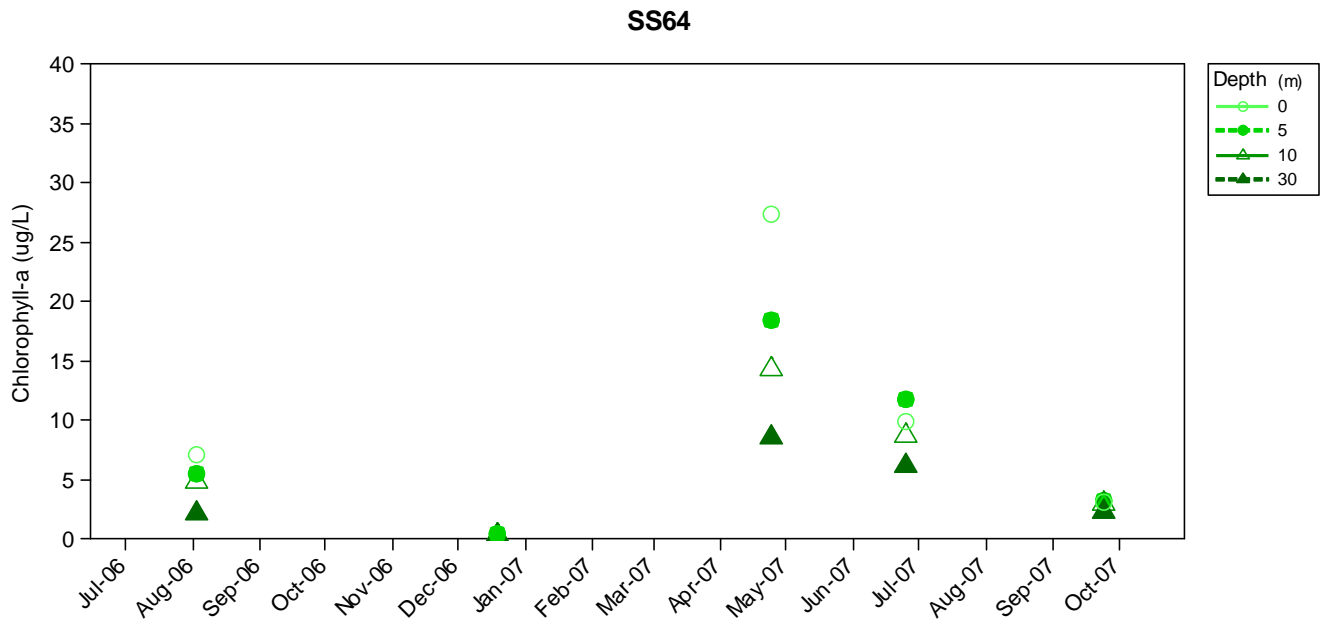


Figure C-45. Monthly chlorophyll *a* concentrations from discrete samples collected at South Sound station SS64 in Nisqually Reach from July 2006 – October 2007.

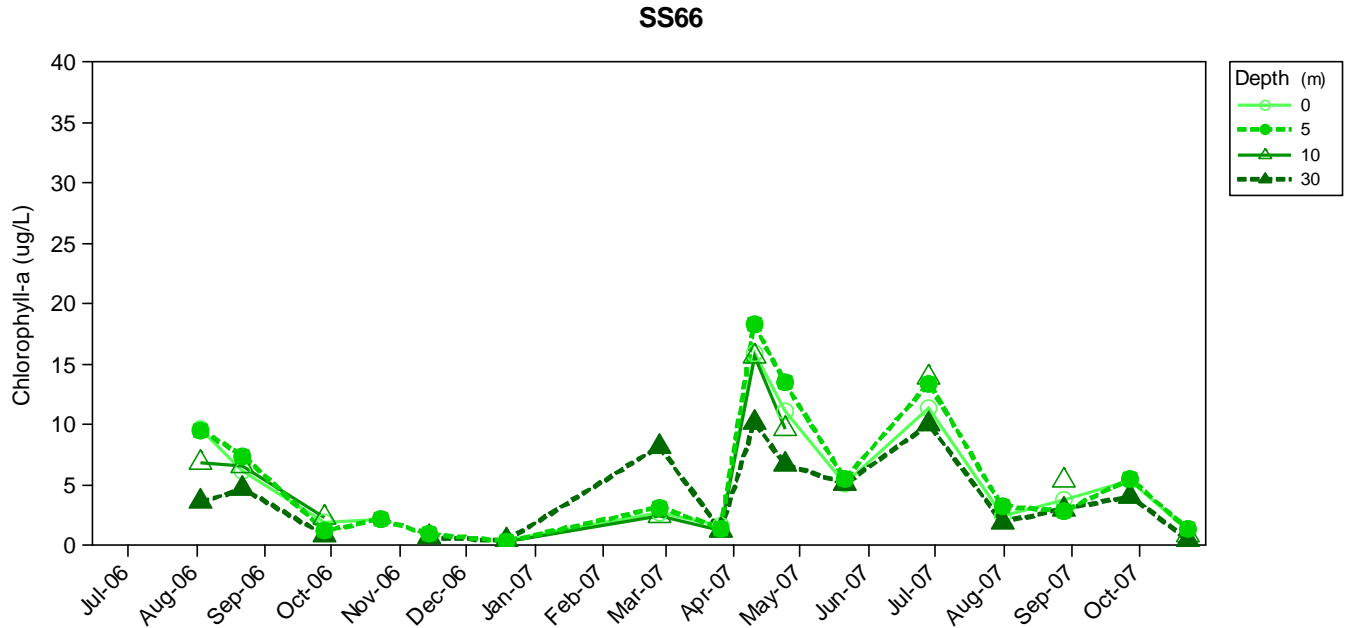


Figure C-46. Monthly chlorophyll *a* concentrations from discrete samples collected at South Sound station SS66 near Steilacoom from July 2006 – October 2007.

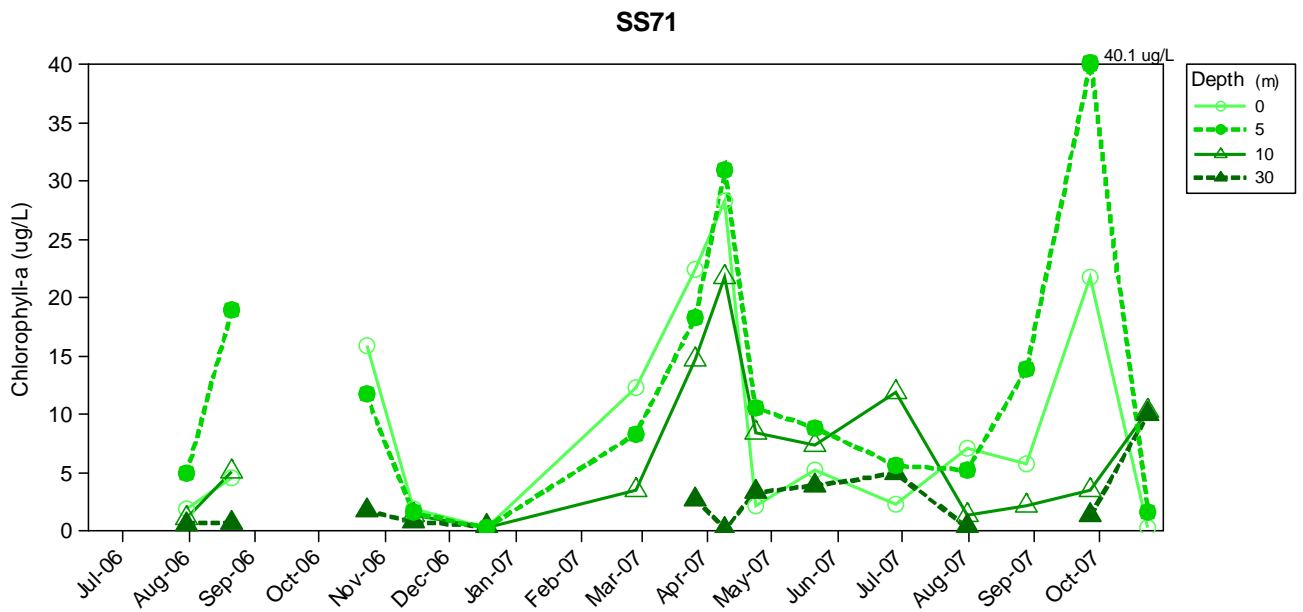


Figure C-47. Monthly chlorophyll *a* concentrations from discrete samples collected at South Sound station SS71 in Central Carr Inlet from July 2006 – October 2007.

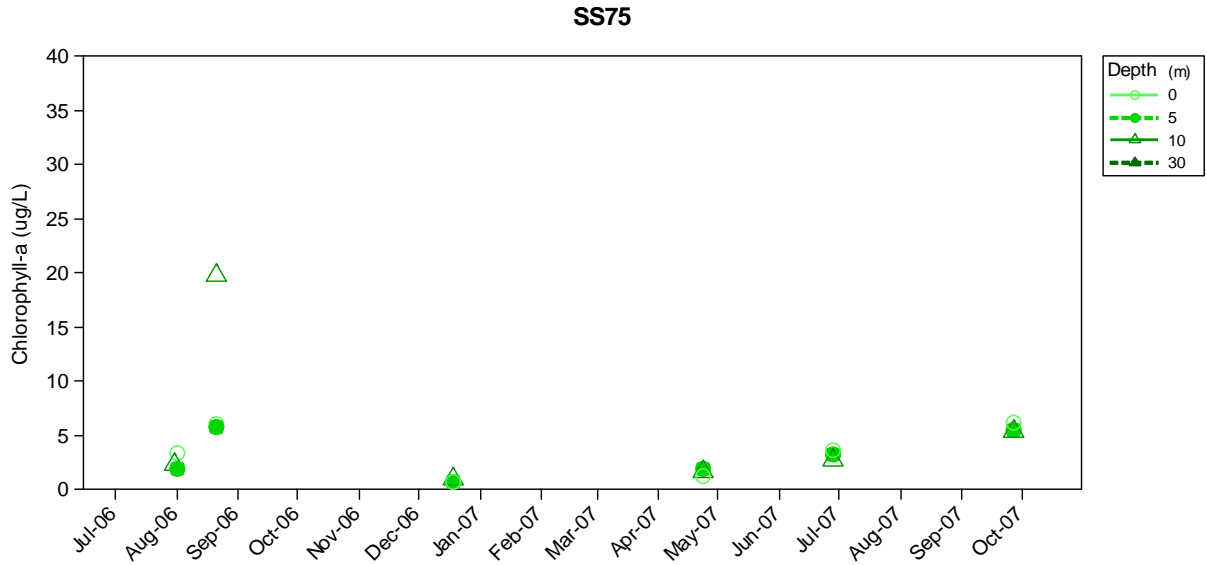


Figure C-48. Monthly chlorophyll *a* concentrations from discrete samples collected at South Sound station SS75 in North inner Carr from July 2006 – October 2007.

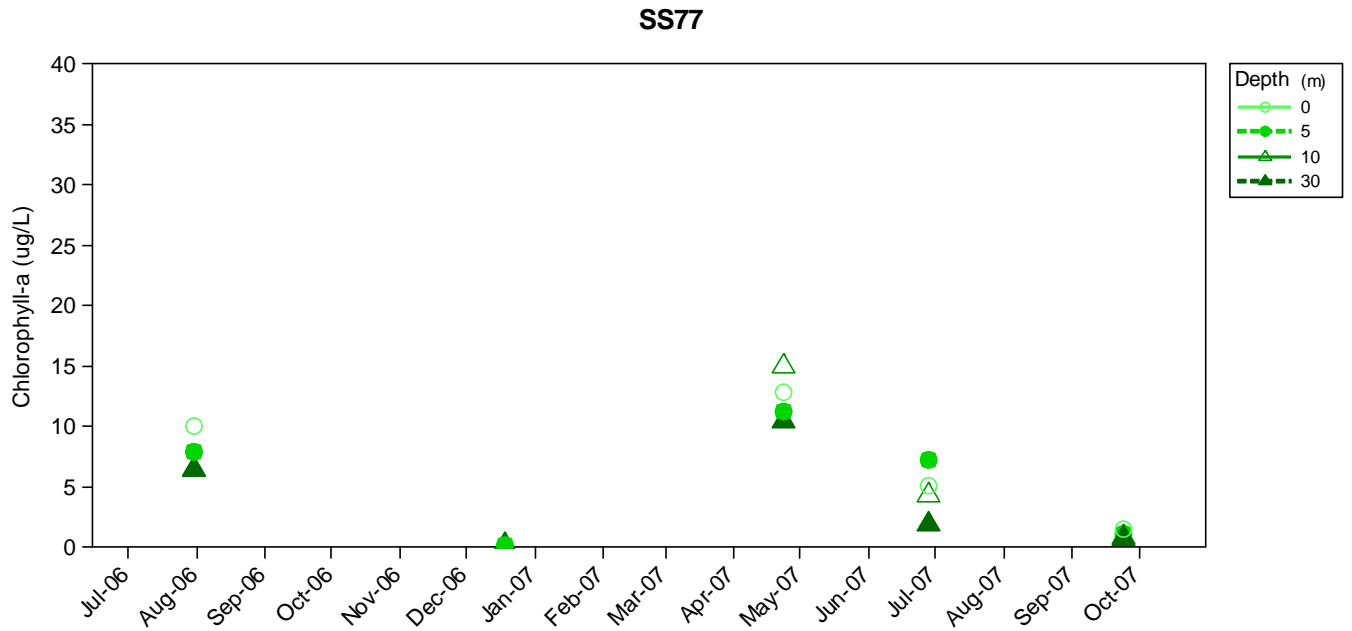


Figure C-49. Monthly chlorophyll *a* concentrations from discrete samples collected at South Sound station SS77 near the Tacoma Narrows from July 2006 – October 2007.

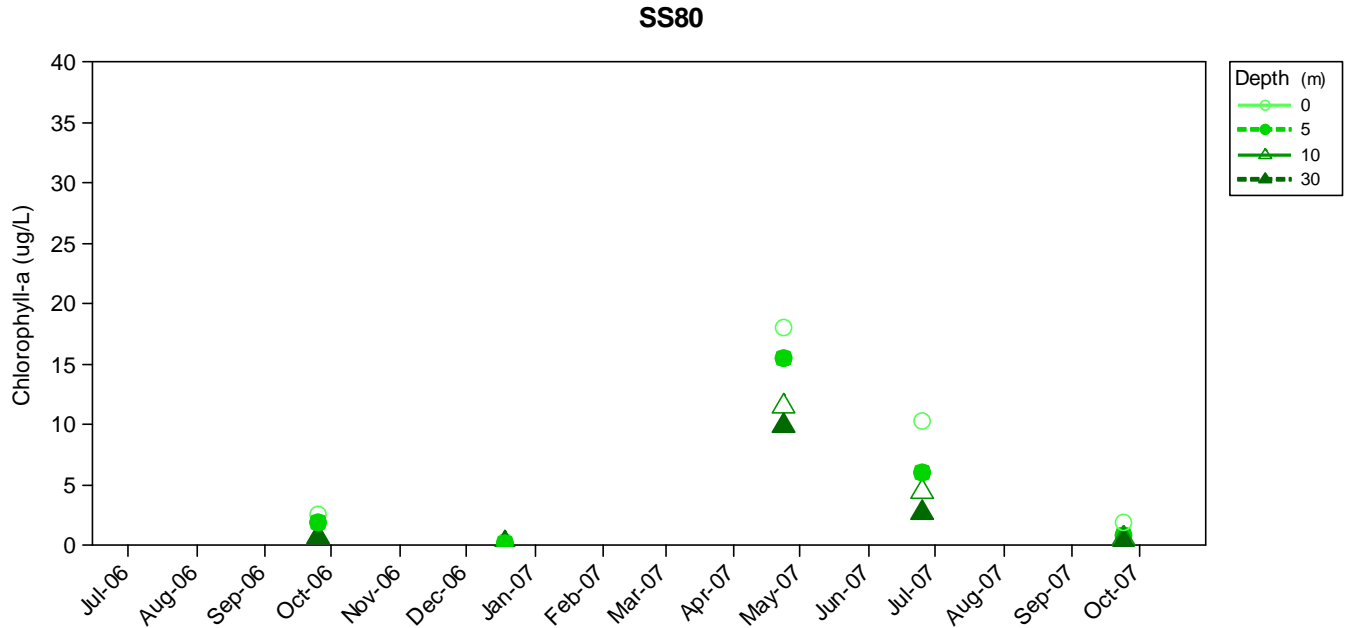


Figure C-50. Monthly chlorophyll *a* concentrations from discrete samples collected at South Sound station SS80 near Dalco Passage from July 2006 – October 2007.

Dissolved Oxygen

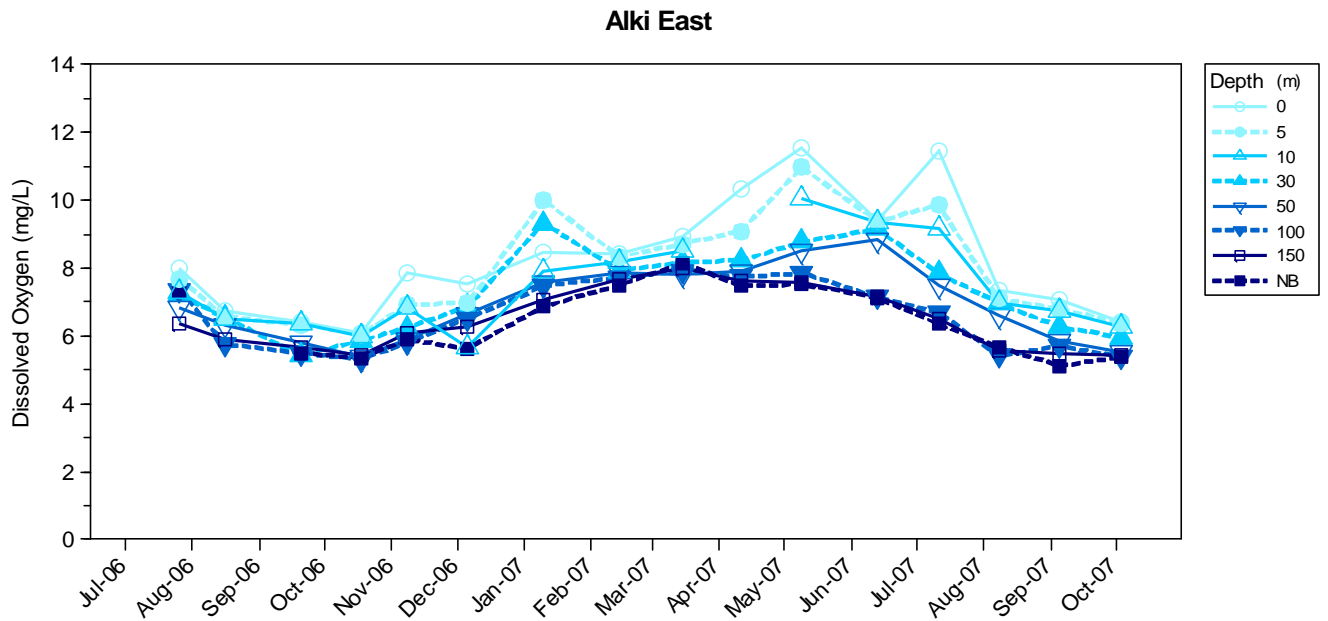


Figure C-51. Monthly dissolved oxygen concentrations from Winkler samples collected at Alki East boundary station near South Seattle from July 2006 – October 2007.

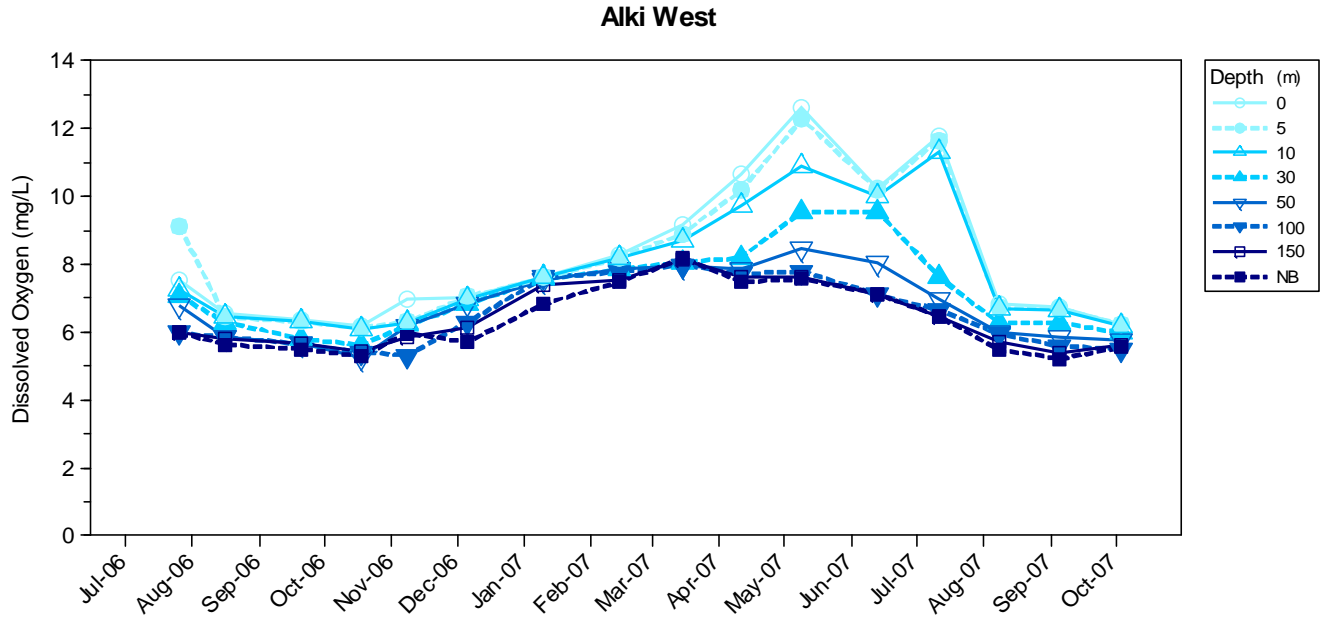


Figure C-52. Monthly dissolved oxygen concentrations from Winkler samples collected at Alki West boundary station near South Seattle from July 2006 – October 2007.

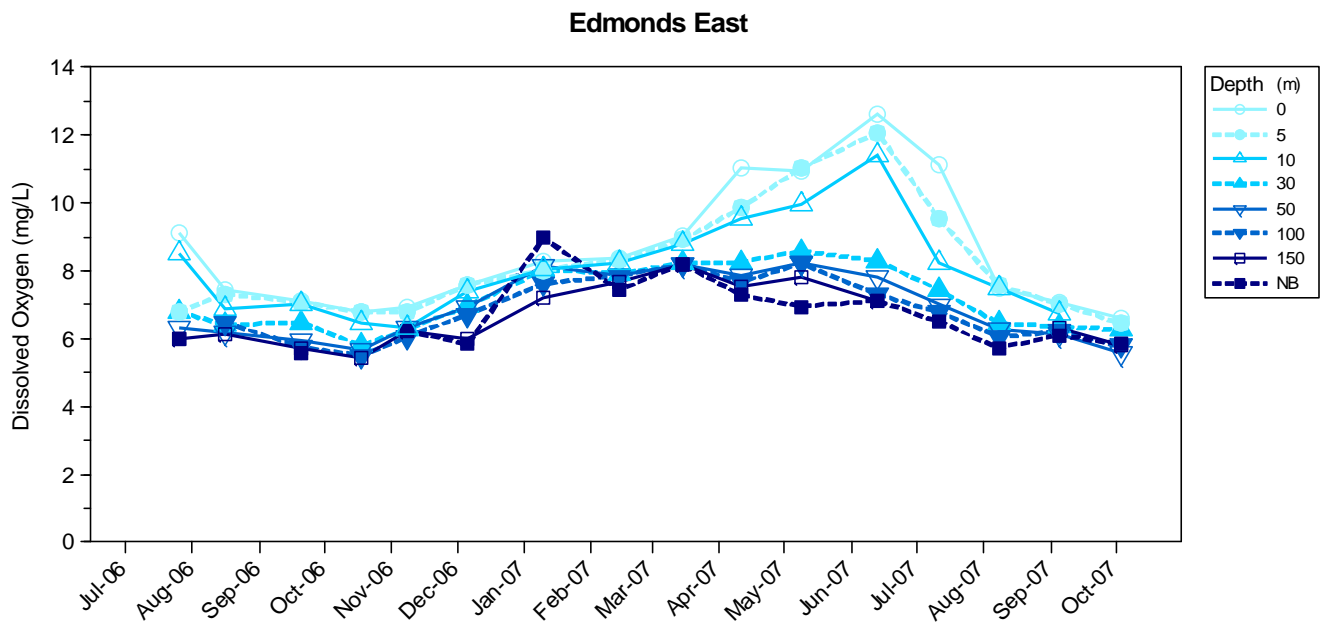


Figure C-53. Monthly dissolved oxygen concentrations from Winkler samples collected at Edmonds East boundary station in the Central Basin from July 2006 – October 2007.

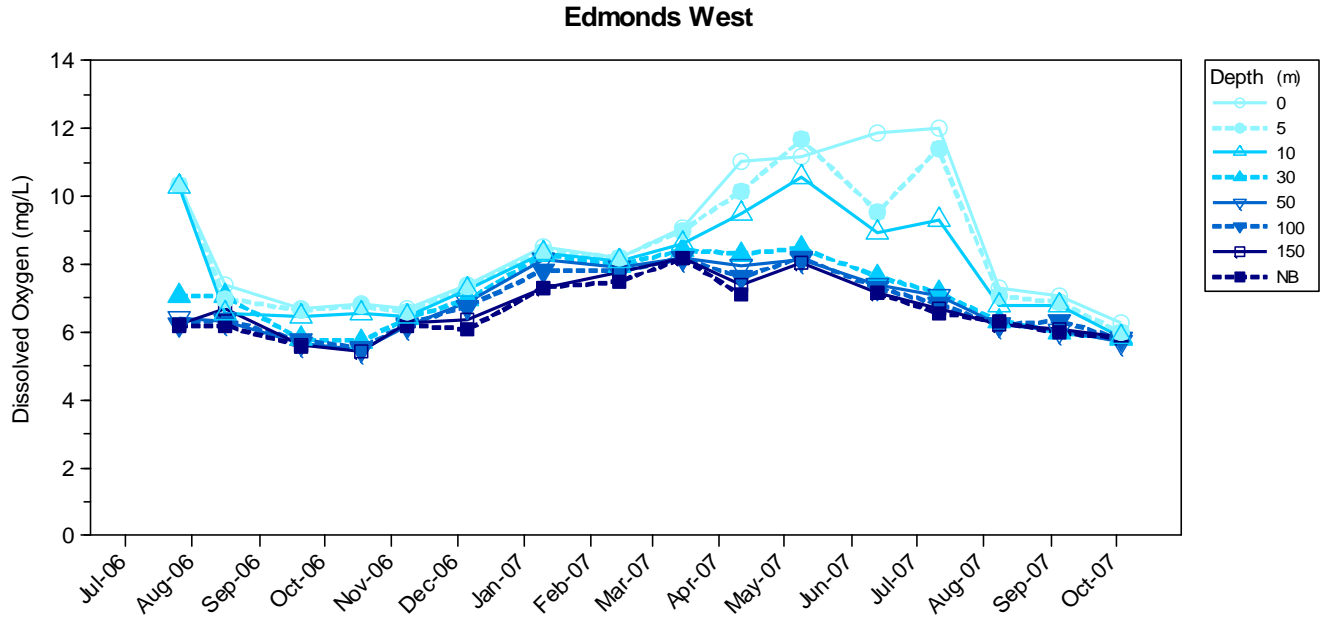


Figure C-54. Monthly dissolved oxygen concentrations from Winkler samples collected at Edmonds West boundary station in the Central Basin from July 2006 – October 2007.

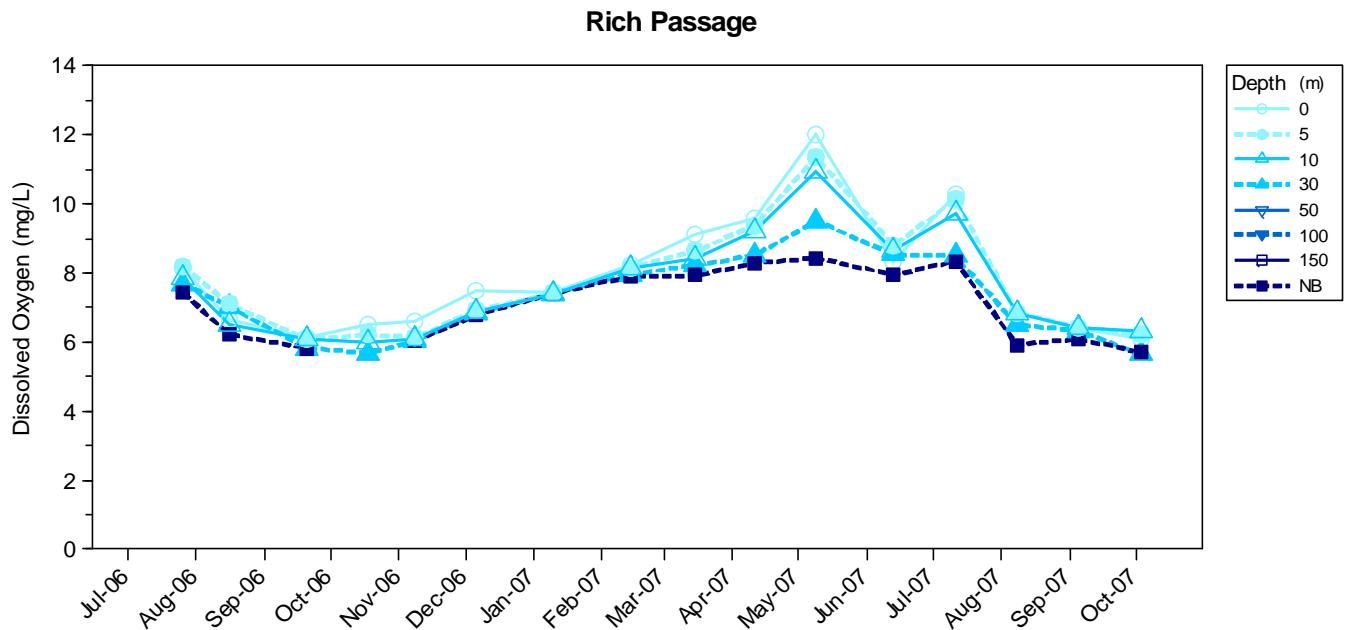


Figure C-55. Monthly dissolved oxygen concentrations from Winkler samples collected at Rich Passage boundary station from July 2006 – October 2007.

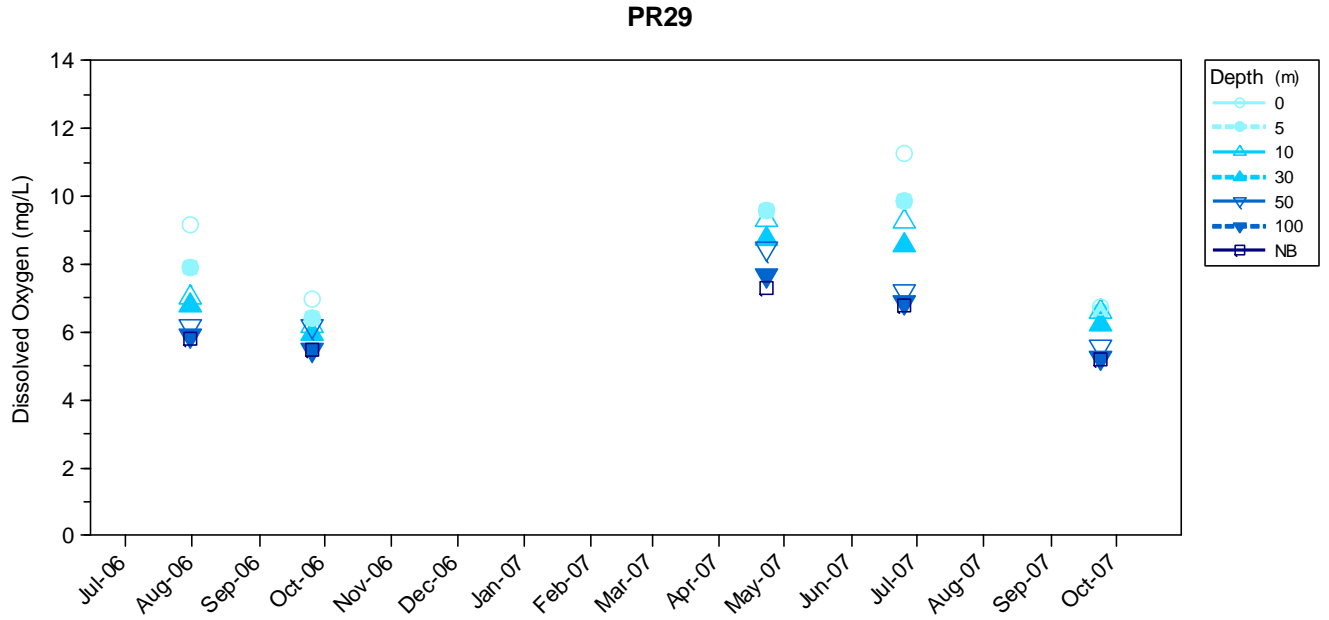


Figure C-56. Monthly dissolved oxygen concentrations from Winkler samples collected at station PR29 near Blake Island from July 2006 – October 2007.

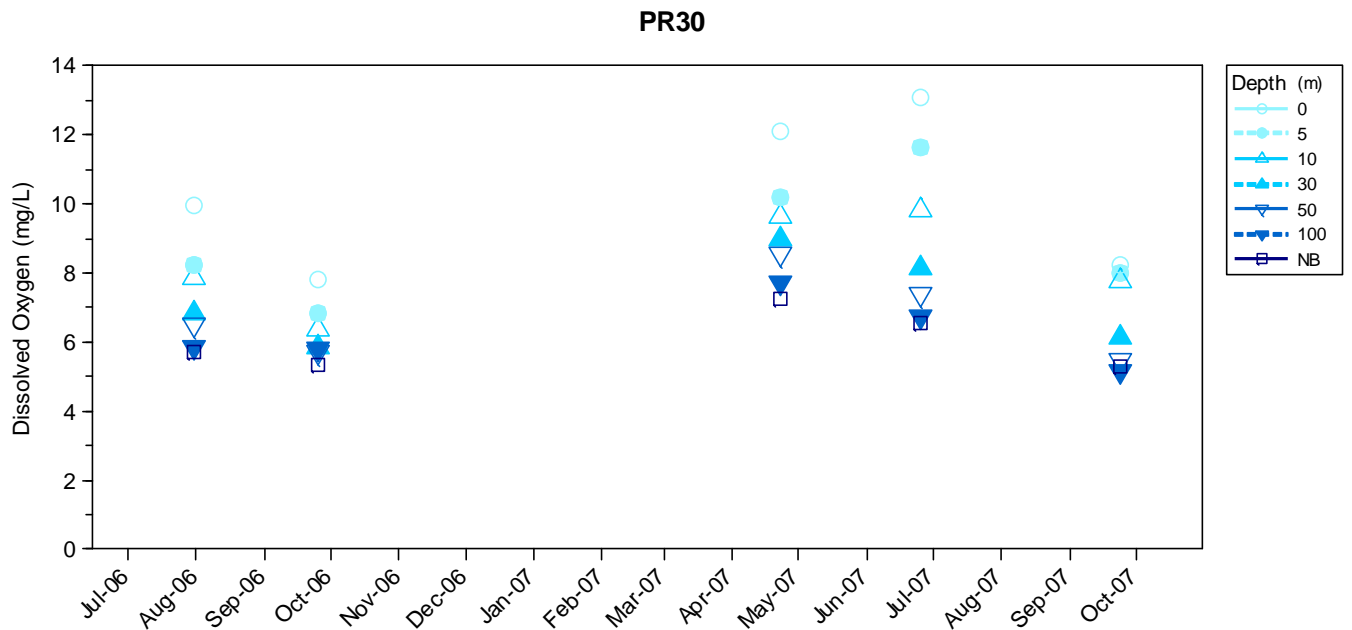


Figure C-57. Monthly dissolved oxygen concentrations from Winkler samples collected at station PR30 in East Passage from July 2006 – October 2007.

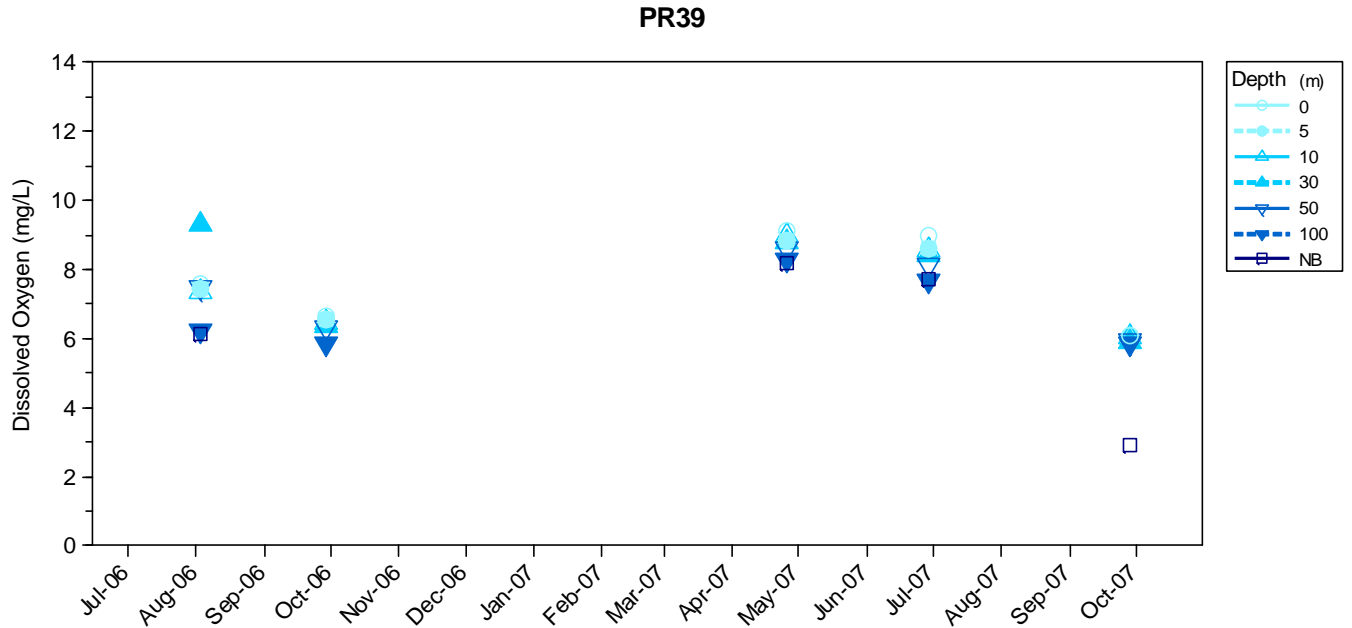


Figure C-58. Monthly dissolved oxygen concentrations from Winkler samples collected at station PR39 in Colvos Passage from July 2006 – October 2007.



Figure C-59. Monthly dissolved oxygen concentrations from Winkler samples collected at South Sound station SS02 in upper Henderson Inlet from July 2006 – October 2007.

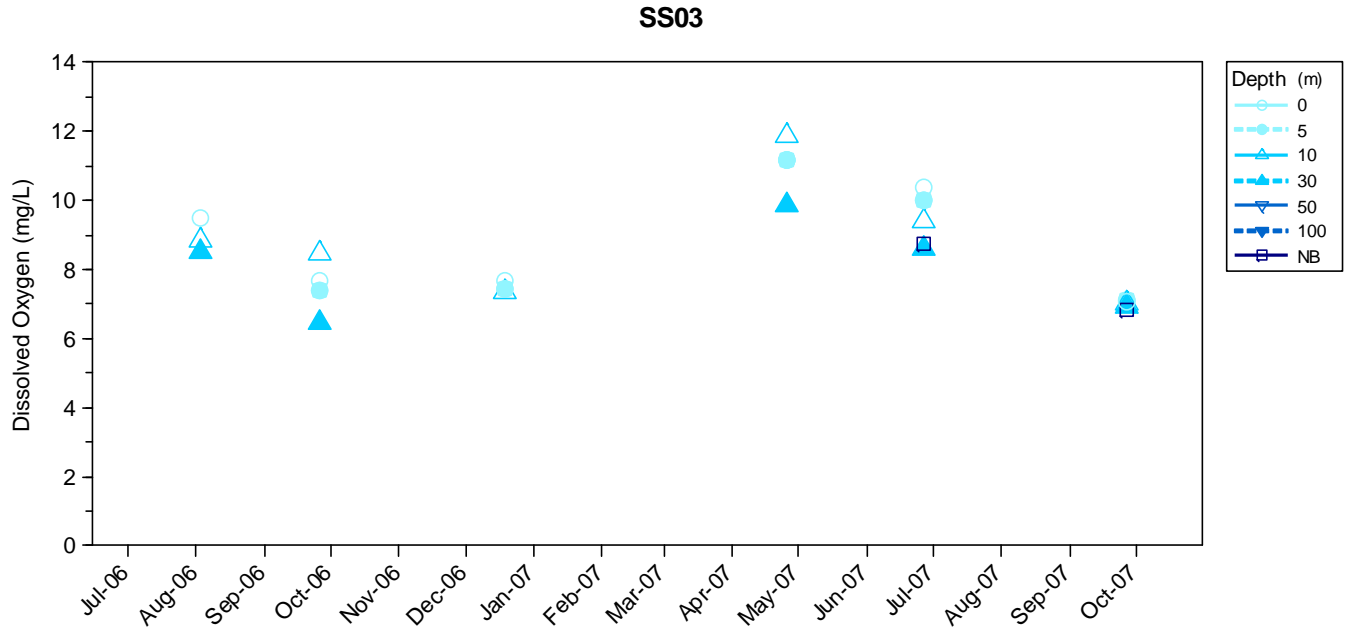


Figure C-60. Monthly dissolved oxygen concentrations from Winkler samples collected at South Sound station SS03 in Dana Passage from July 2006 – October 2007.

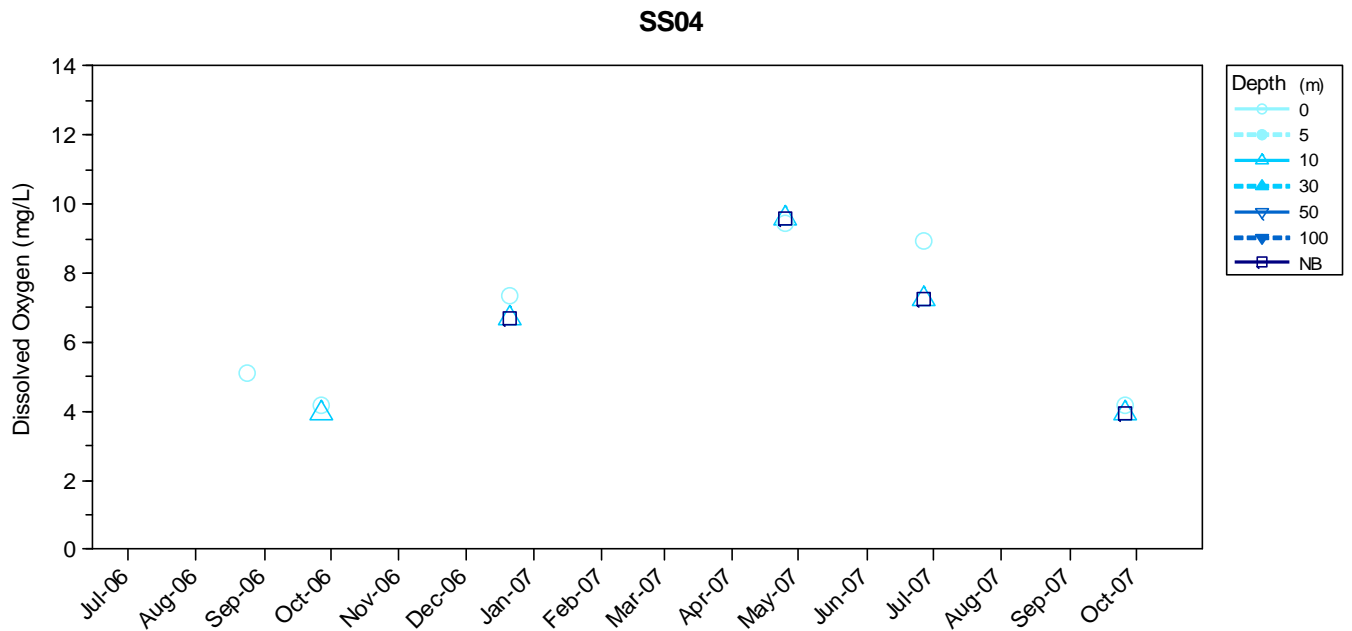


Figure C-61. Monthly dissolved oxygen concentrations from Winkler samples collected at South Sound station SS04 in inner Budd Inlet from July 2006 – October 2007.

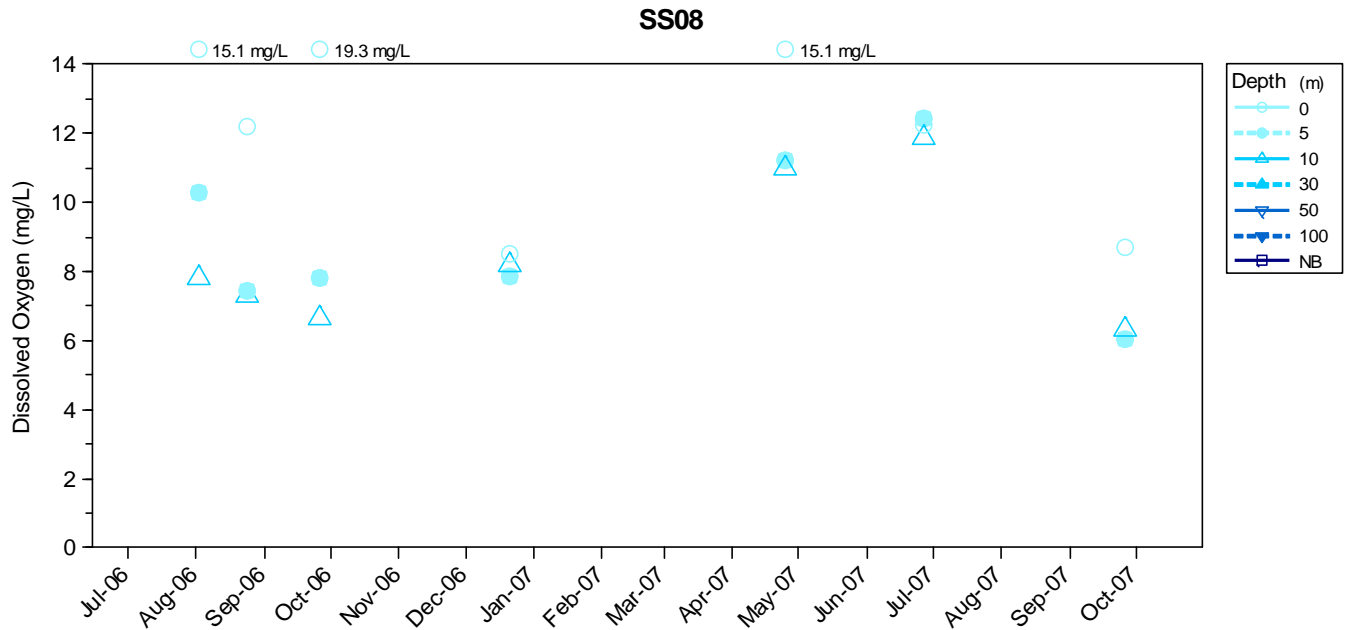


Figure C-62. Monthly dissolved oxygen concentrations from Winkler samples collected at South Sound station SS08 in central Budd Inlet from July 2006 – October 2007.

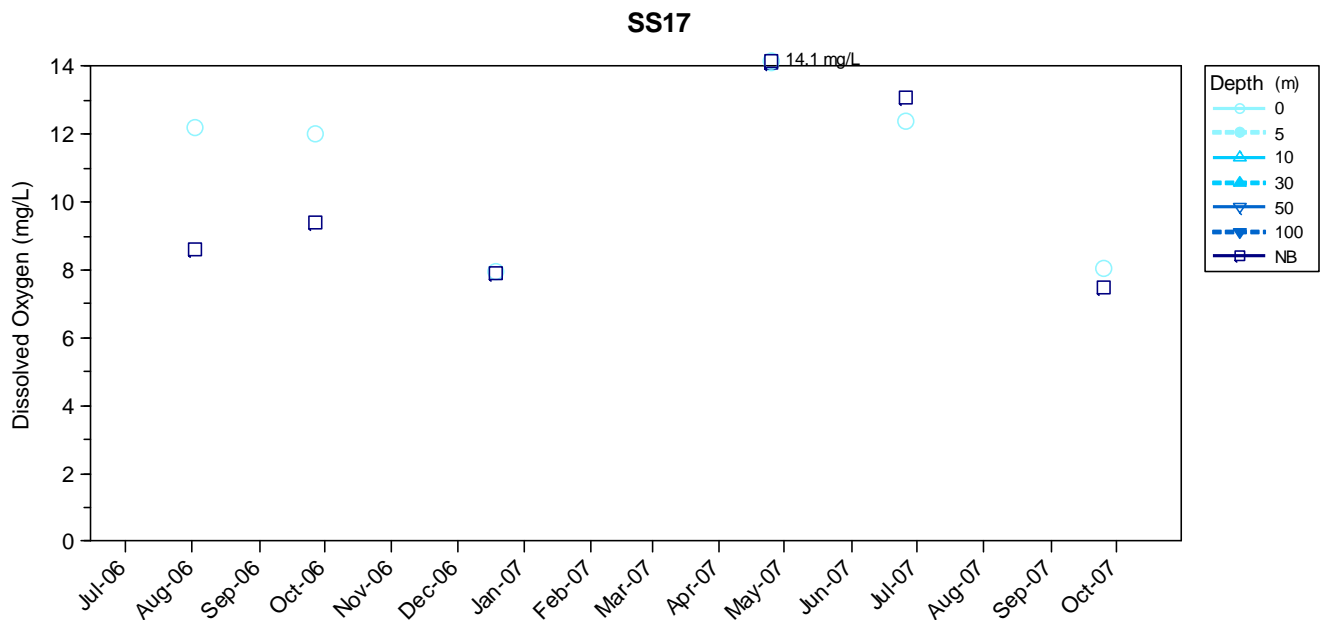


Figure C-63. Monthly dissolved oxygen concentrations from Winkler samples collected at South Sound station SS17 near inner Eld Inlet from July 2006 – October 2007.

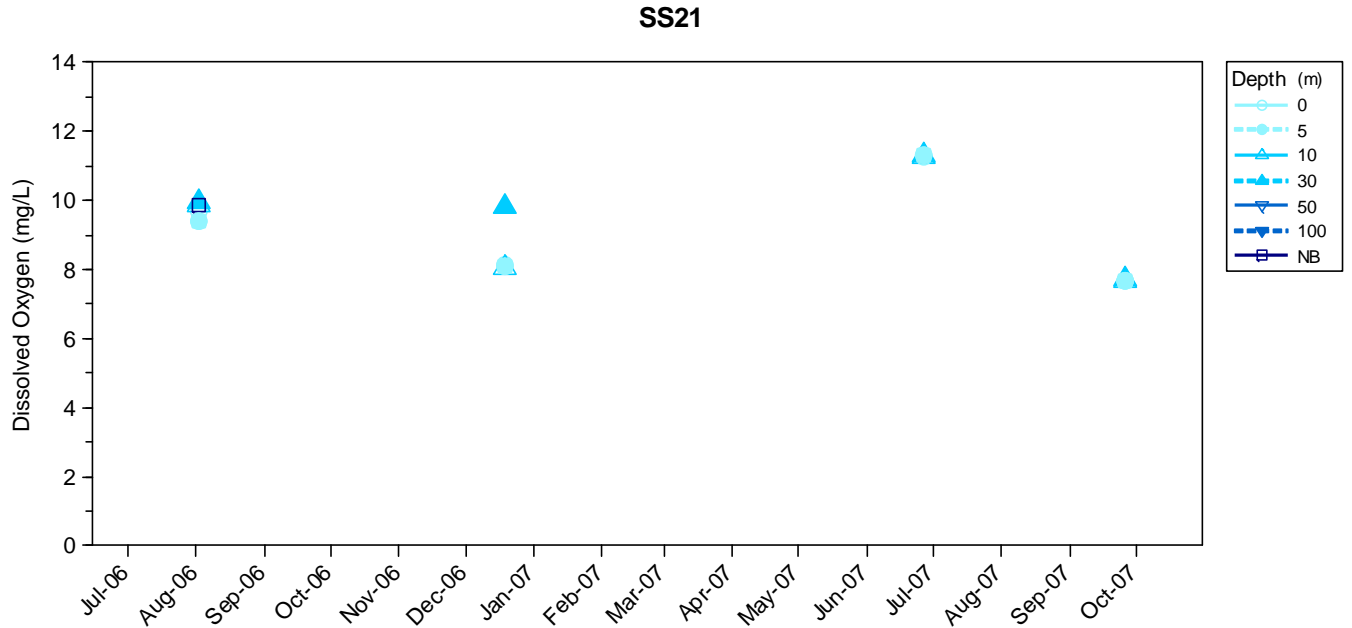


Figure C-64. Monthly dissolved oxygen concentrations from Winkler samples collected at South Sound station SS21 near outer Totten Inlet from July 2006 – October 2007.

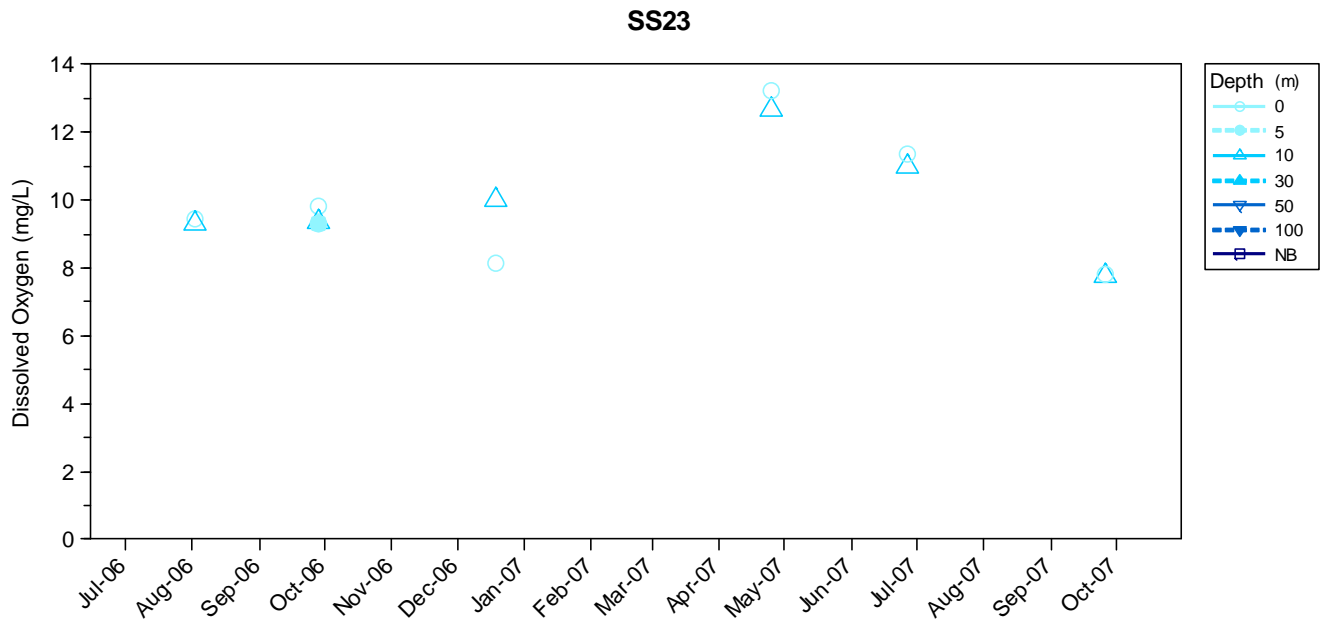


Figure C-65. Monthly dissolved oxygen concentrations from Winkler samples collected at South Sound station SS23 near central Totten Inlet from July 2006 – October 2007.

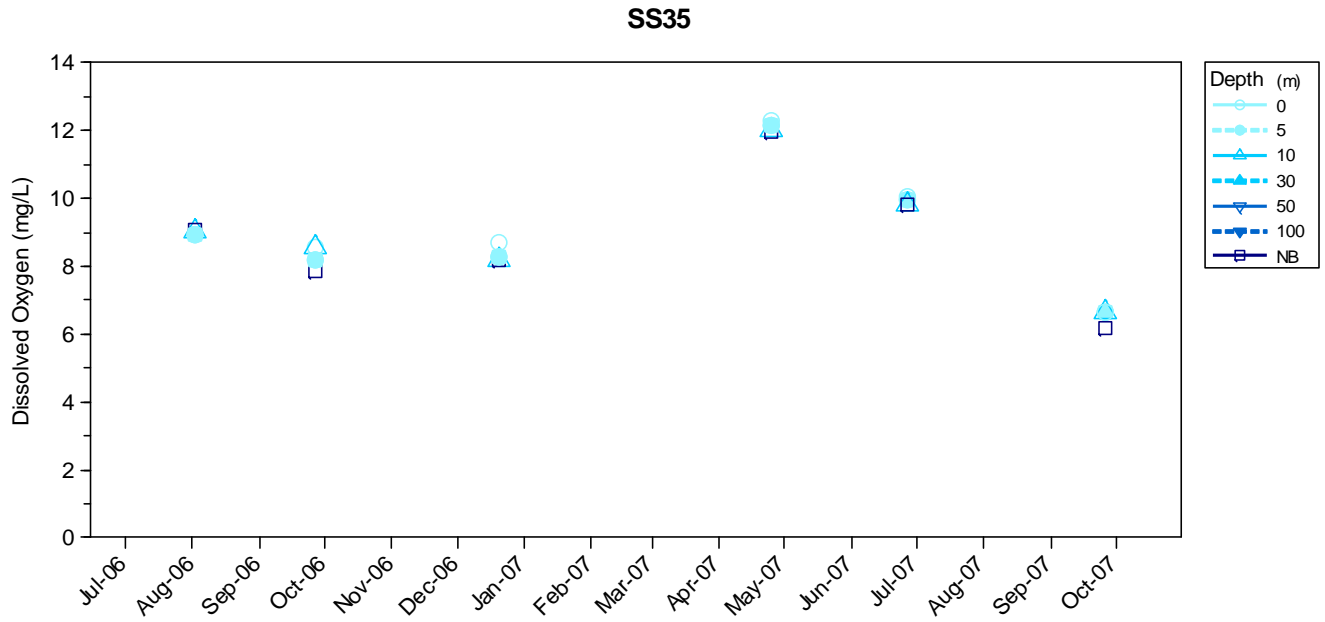


Figure C-66. Monthly dissolved oxygen concentrations from Winkler samples collected at South Sound station SS35 near the Port of Shelton in Oakland Bay from July 2006 – October 2007.

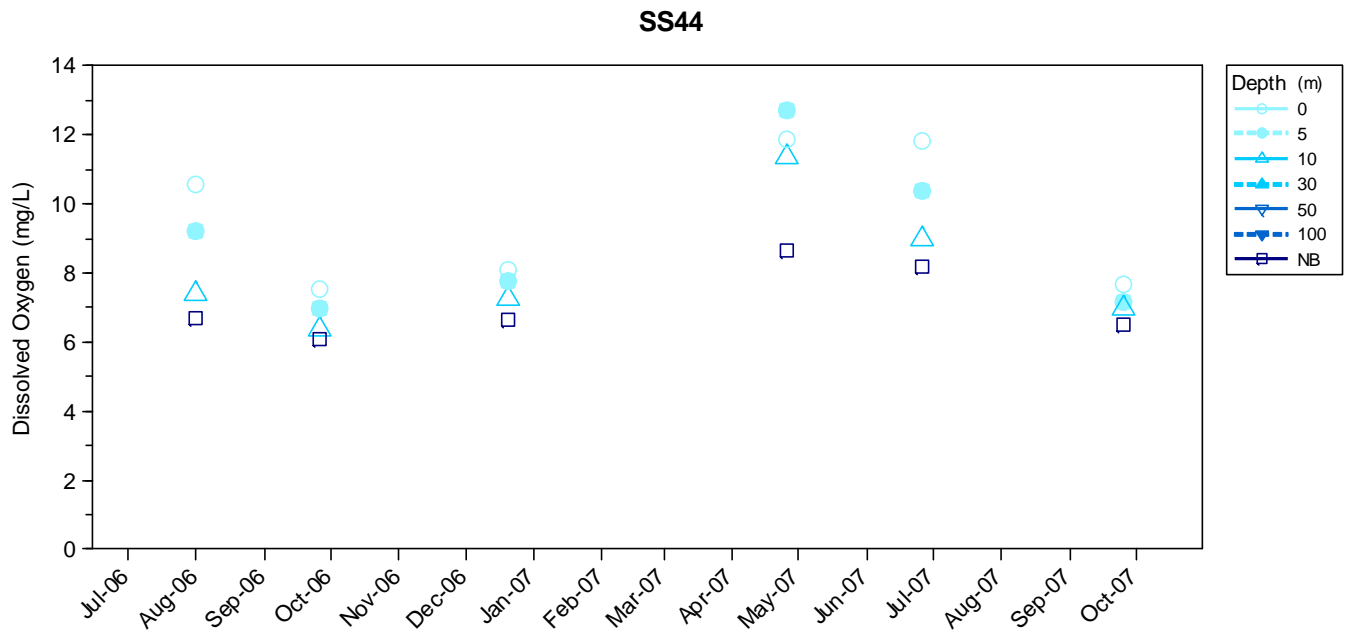


Figure C-67. Monthly dissolved oxygen concentrations from Winkler samples collected at South Sound station SS44 near North Pickering Passage from July 2006 – October 2007.

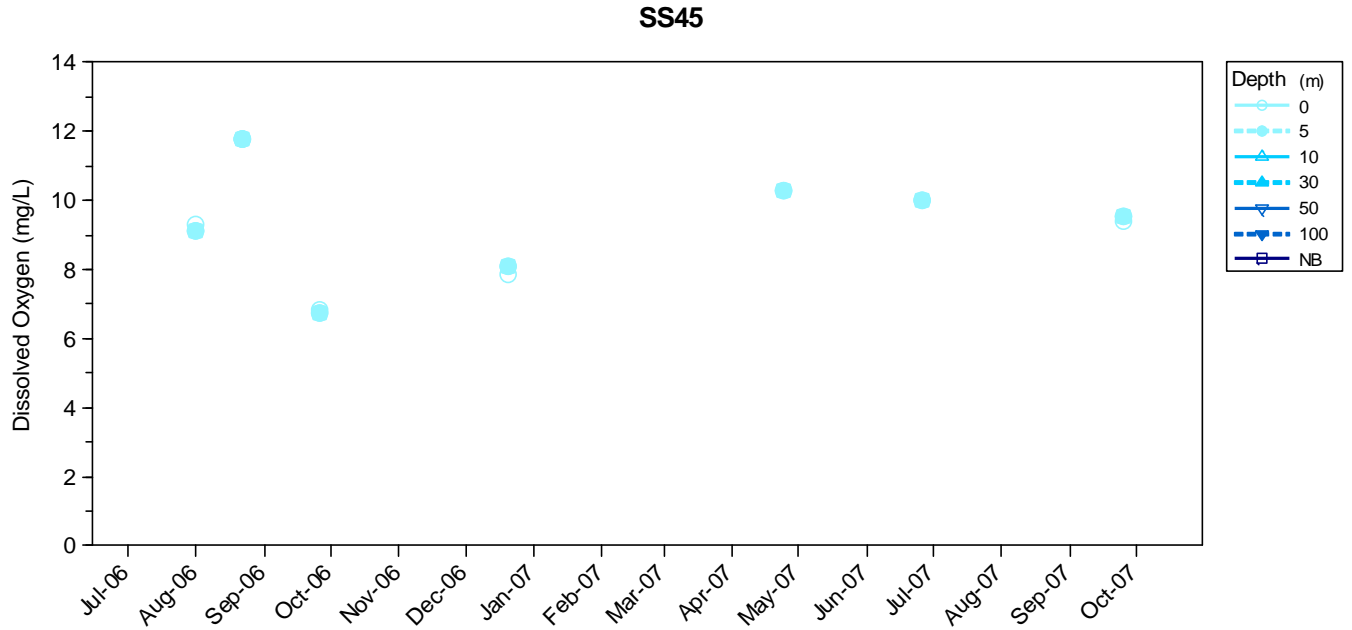


Figure C-68. Monthly dissolved oxygen concentrations from Winkler samples collected at South Sound station SS45 near inner Case Inlet from July 2006 – October 2007.

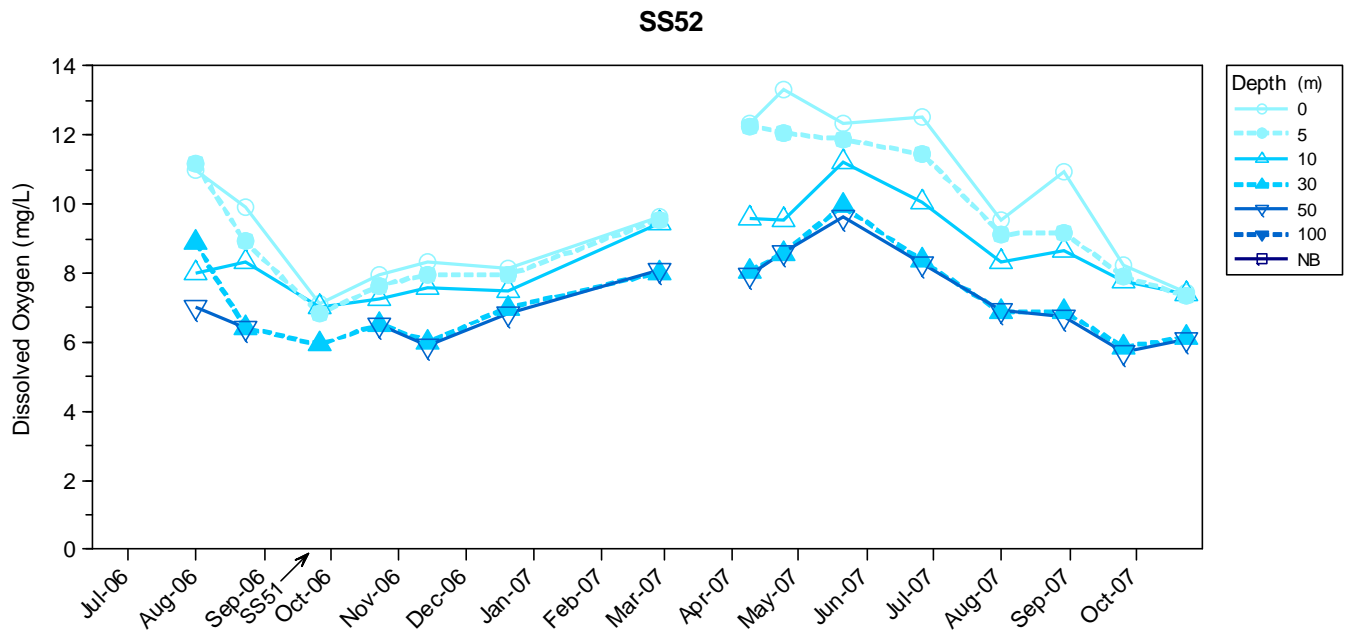


Figure C-69. Monthly dissolved oxygen concentrations from Winkler samples collected at South Sound station SS52 near central Case Inlet from July 2006 – October 2007.

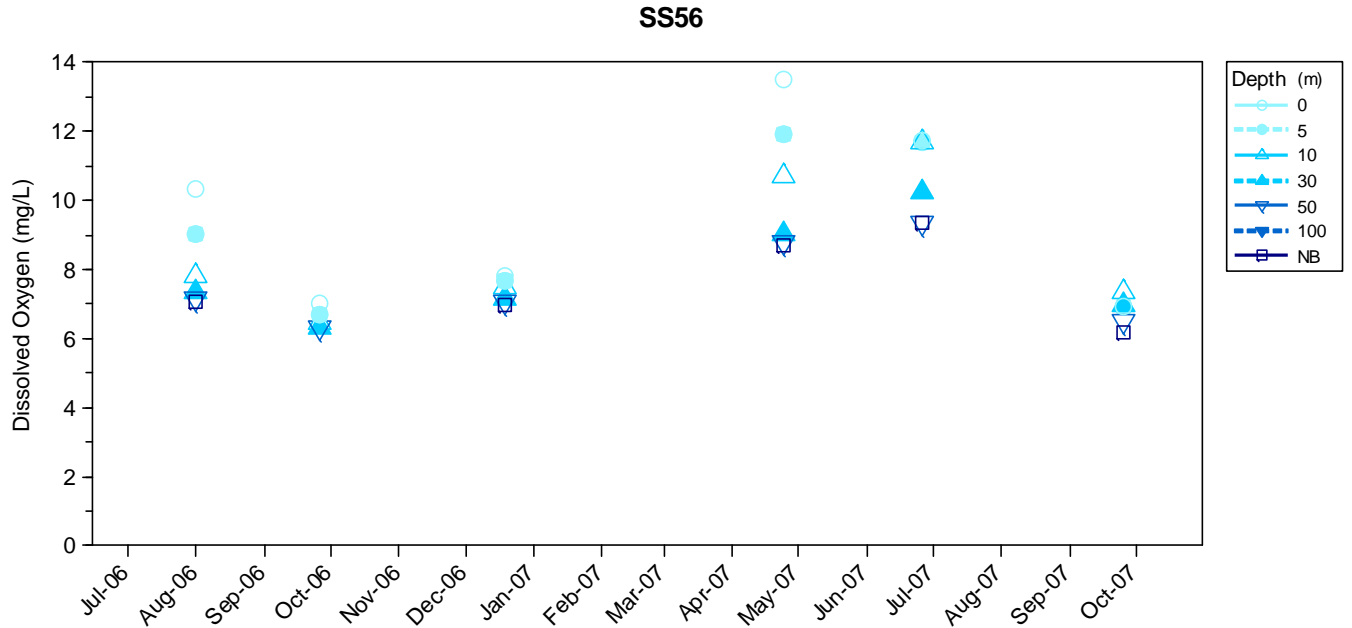


Figure C-70. Monthly dissolved oxygen concentrations from Winkler samples collected at South Sound station SS56 near South Case Inlet from July 2006 – October 2007.

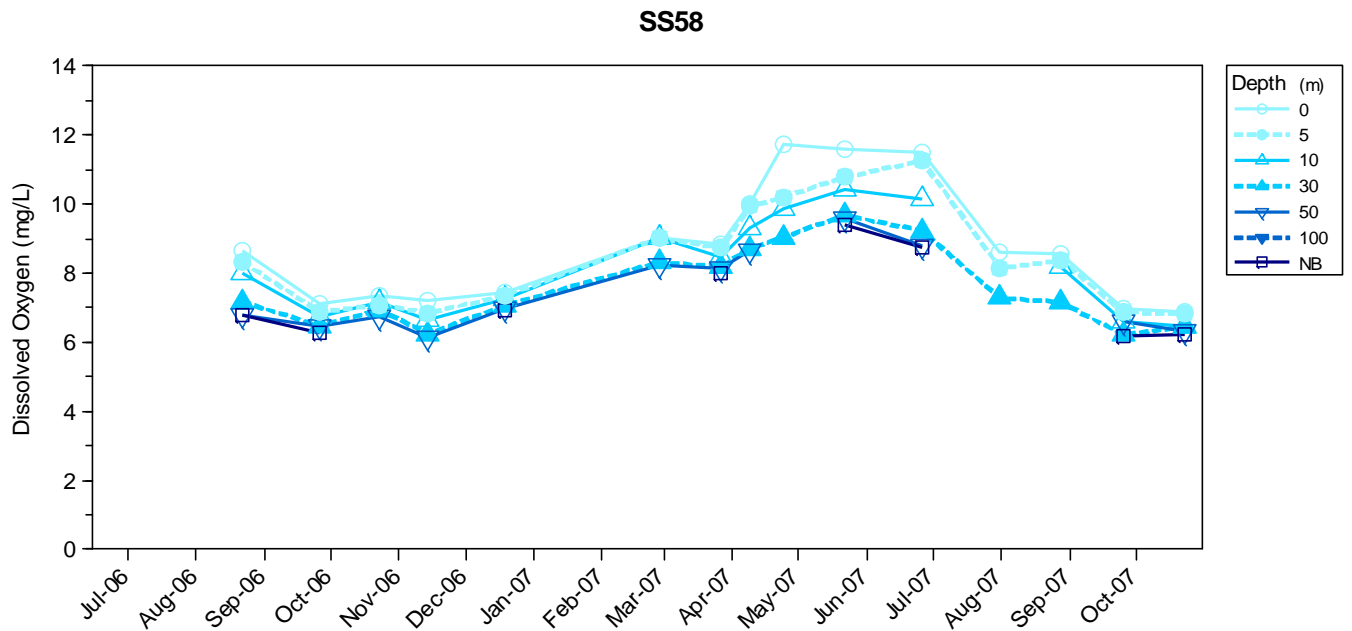


Figure C-71. Monthly dissolved oxygen concentrations from Winkler samples collected at South Sound station SS58 near South Case Inlet from July 2006 – October 2007.

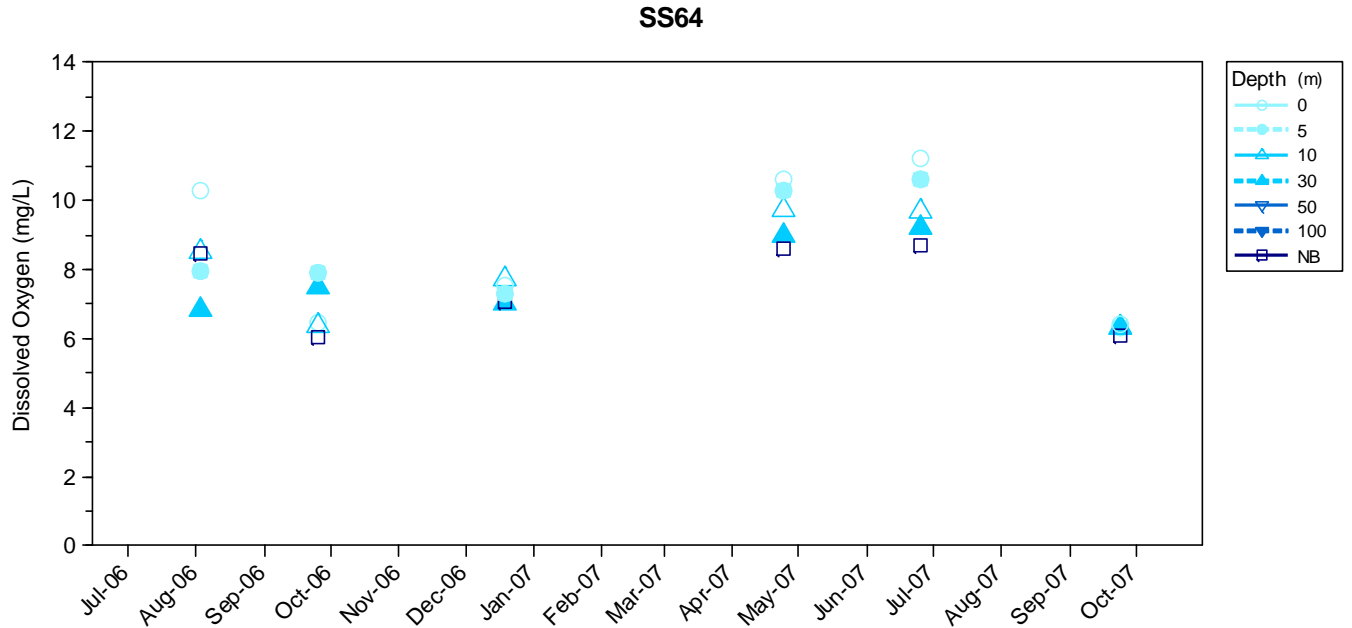


Figure C-72. Monthly dissolved oxygen concentrations from Winkler samples collected at South Sound station SS64 in Nisqually Reach from July 2006 – October 2007.

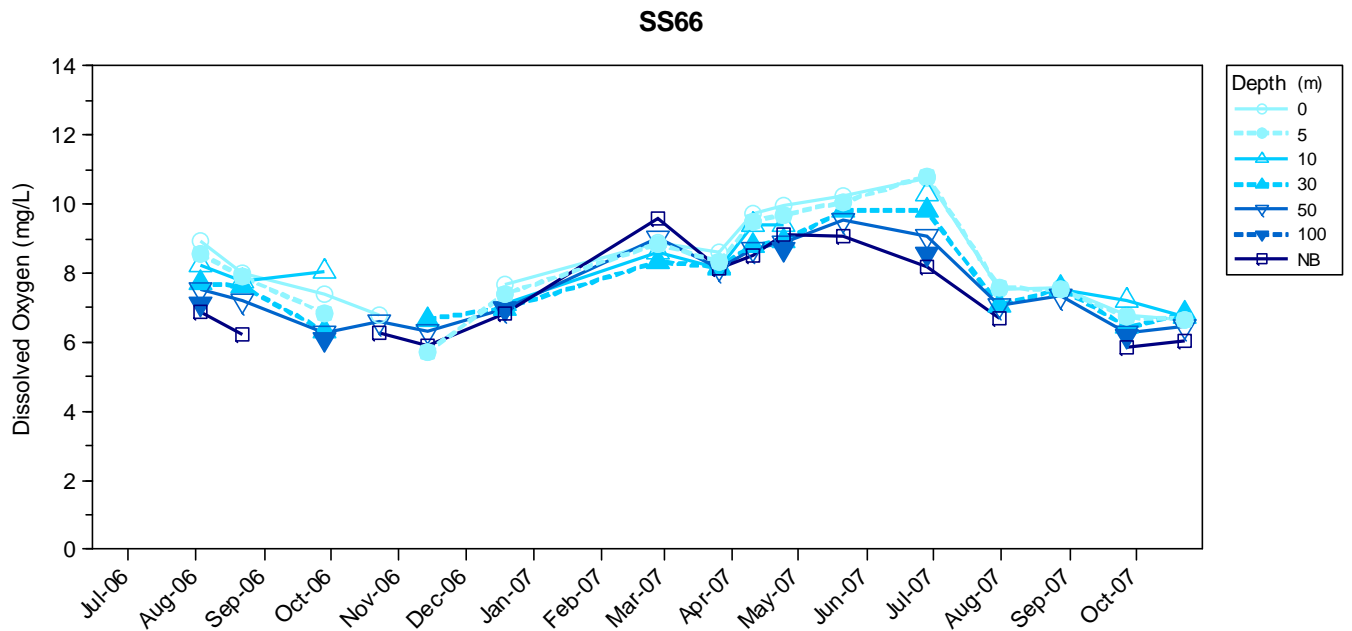


Figure C-73. Monthly dissolved oxygen concentrations from Winkler samples collected at South Sound station SS66 near Steilacoom from July 2006 – October 2007.

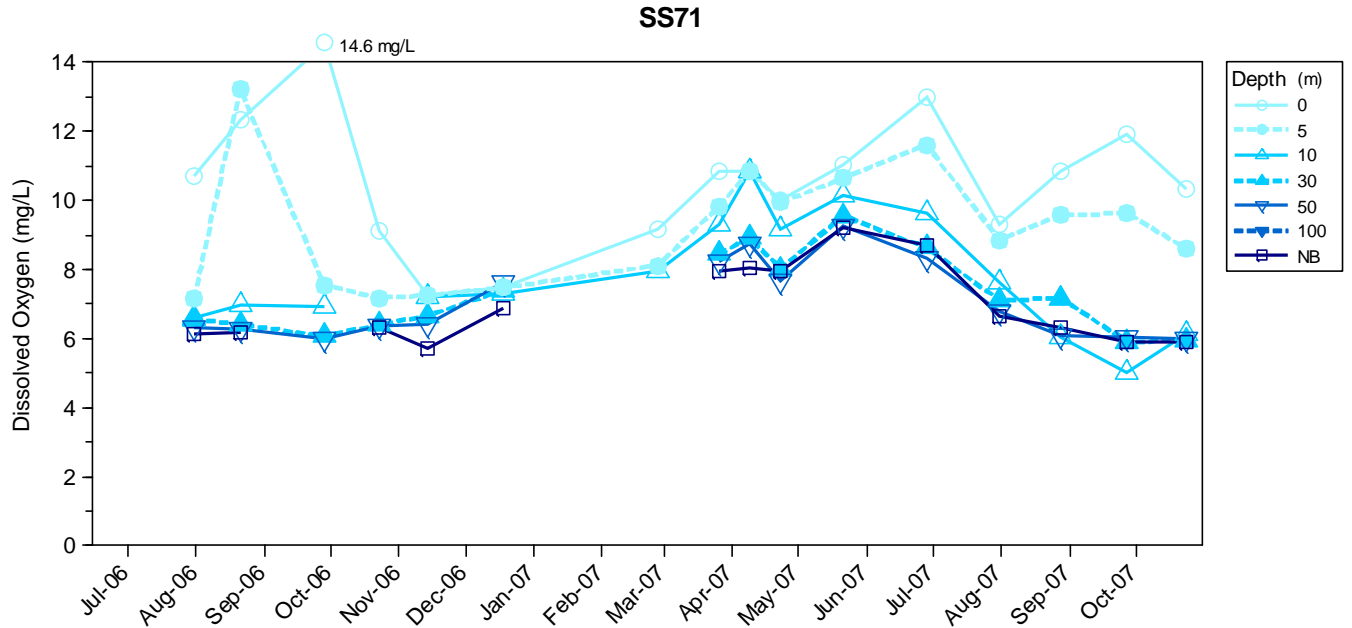


Figure C-74. Monthly dissolved oxygen concentrations from Winkler samples collected at South Sound station SS71 in Central Carr Inlet from July 2006 – October 2007.

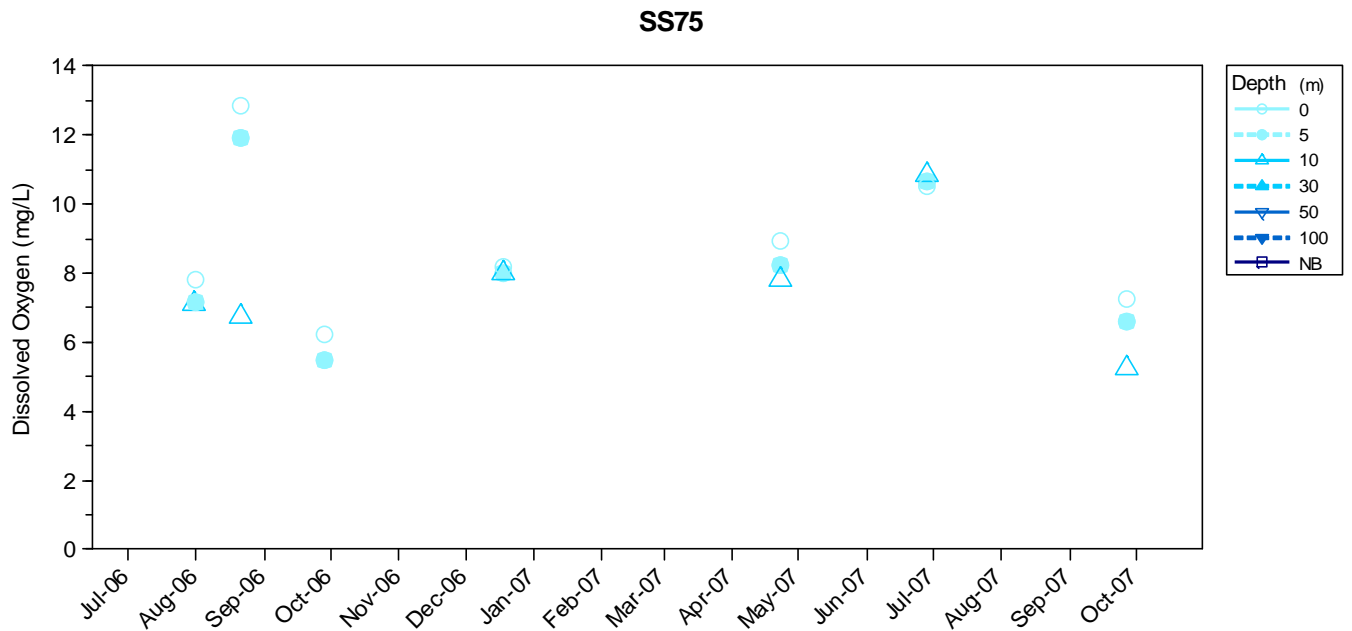


Figure C-75. Monthly dissolved oxygen concentrations from Winkler samples collected at South Sound station SS75 in North inner Carr from July 2006 – October 2007.

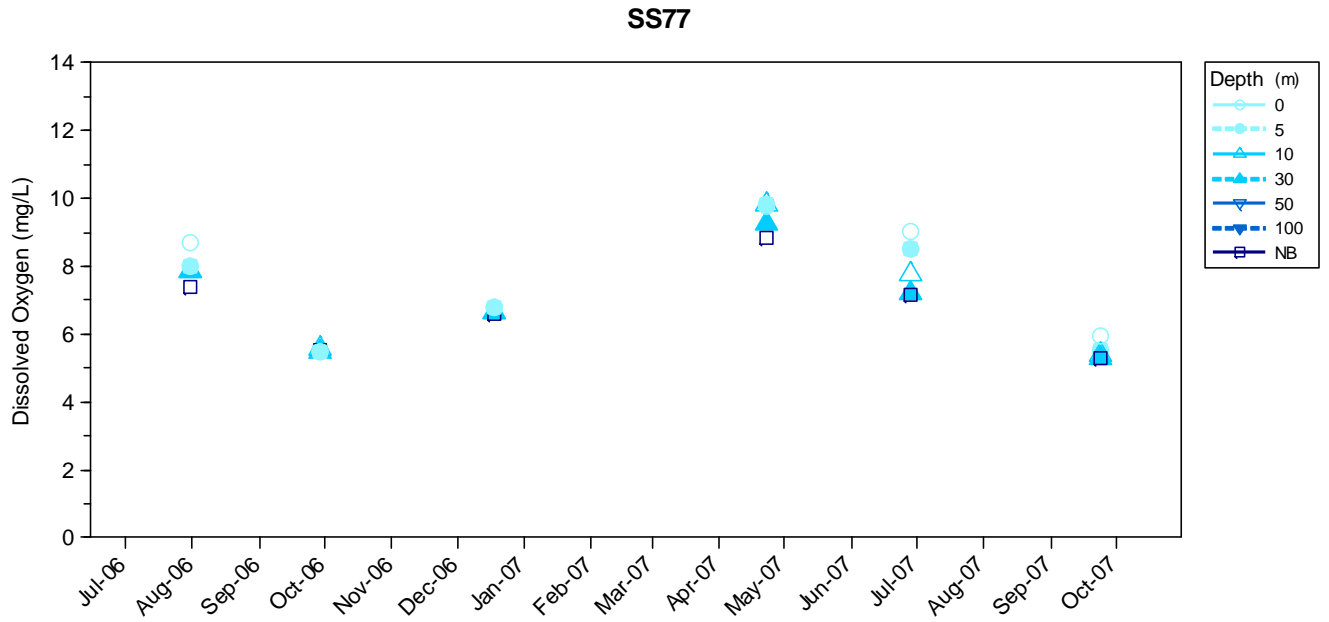


Figure C-76. Monthly dissolved oxygen concentrations from Winkler samples collected at South Sound station SS77 near the Tacoma Narrows from July 2006 – October 2007.

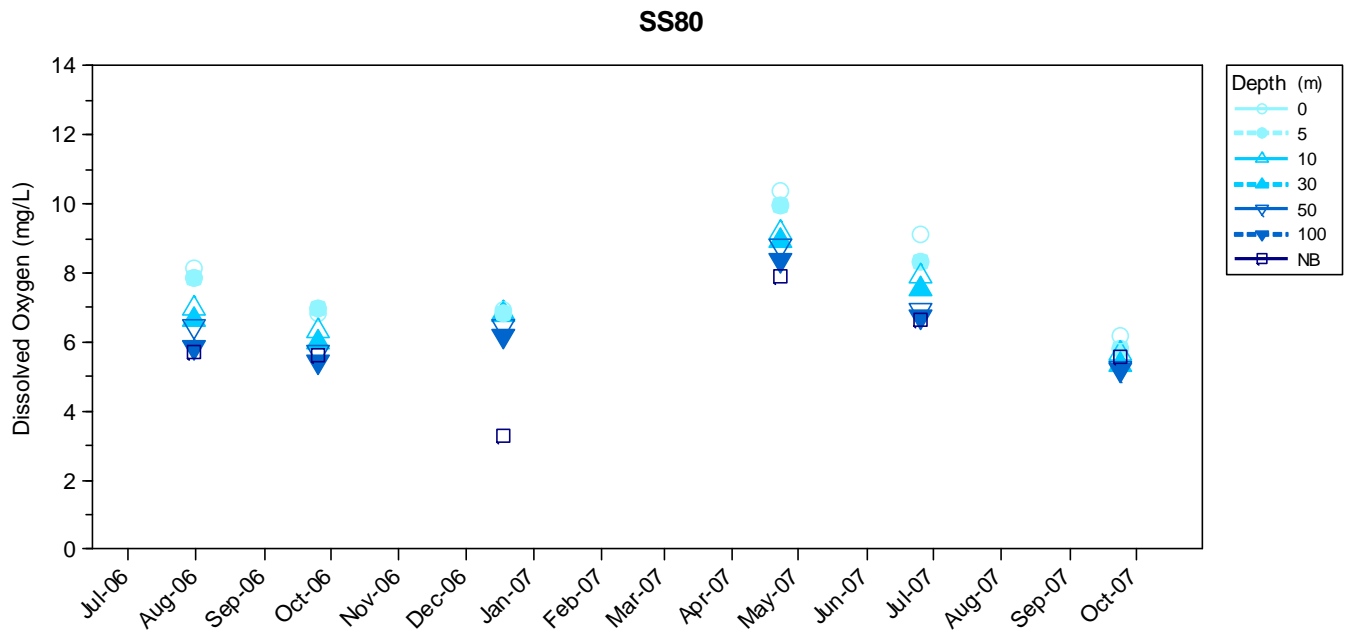


Figure C-77. Monthly dissolved oxygen concentrations from Winkler samples collected at South Sound station SS80 near Dalco Passage from July 2006 – October 2007.

Dissolved Inorganic Nitrogen

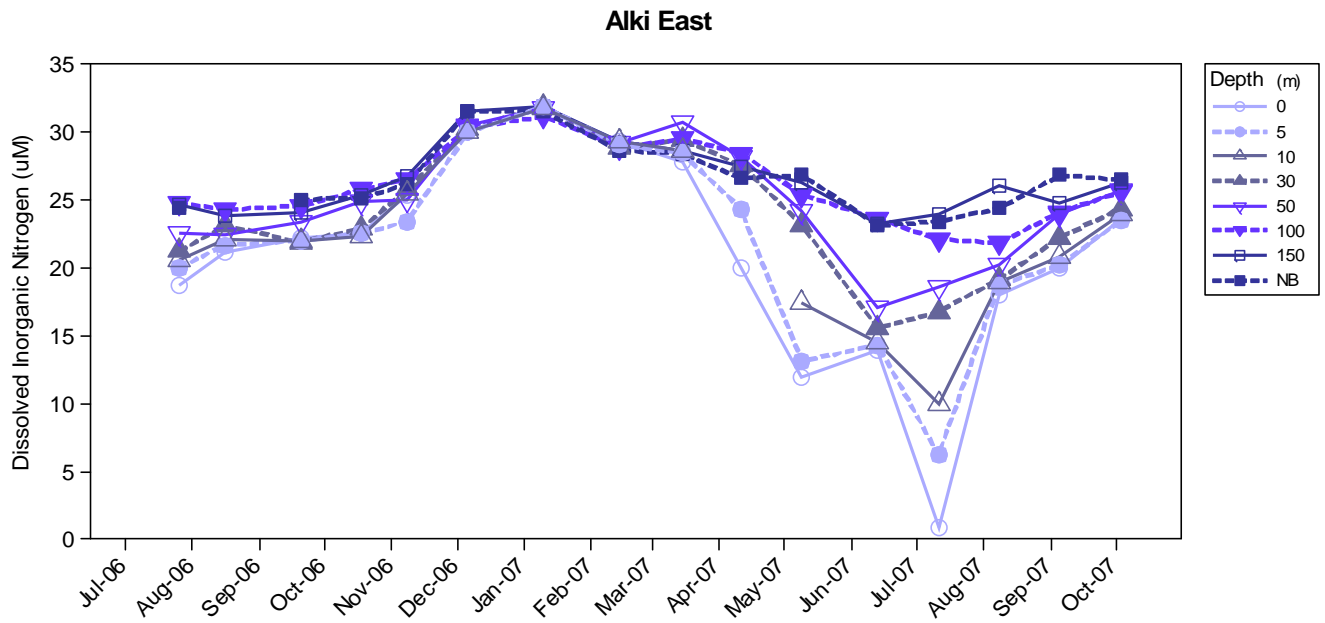


Figure C-78. Monthly dissolved inorganic nitrogen concentrations from samples collected at Alki East boundary station near South Seattle from July 2006 – October 2007.

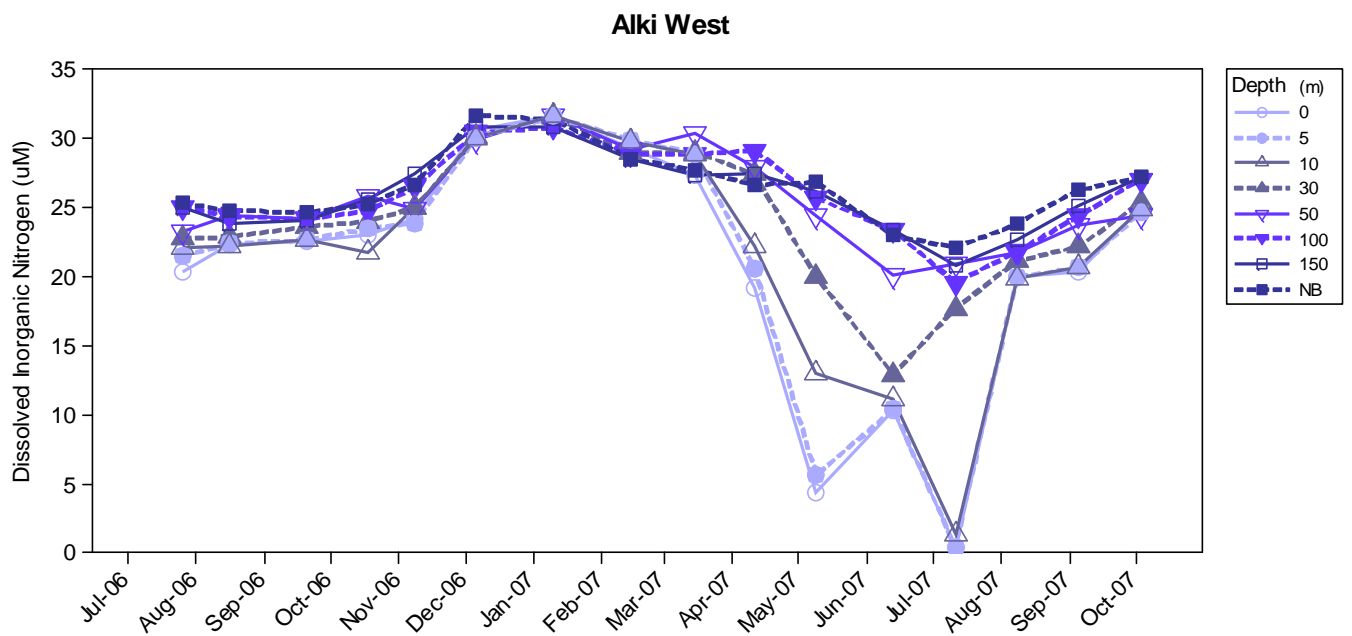


Figure C-79. Monthly dissolved inorganic nitrogen concentrations from samples collected at Alki West boundary station near South Seattle from July 2006 – October 2007.

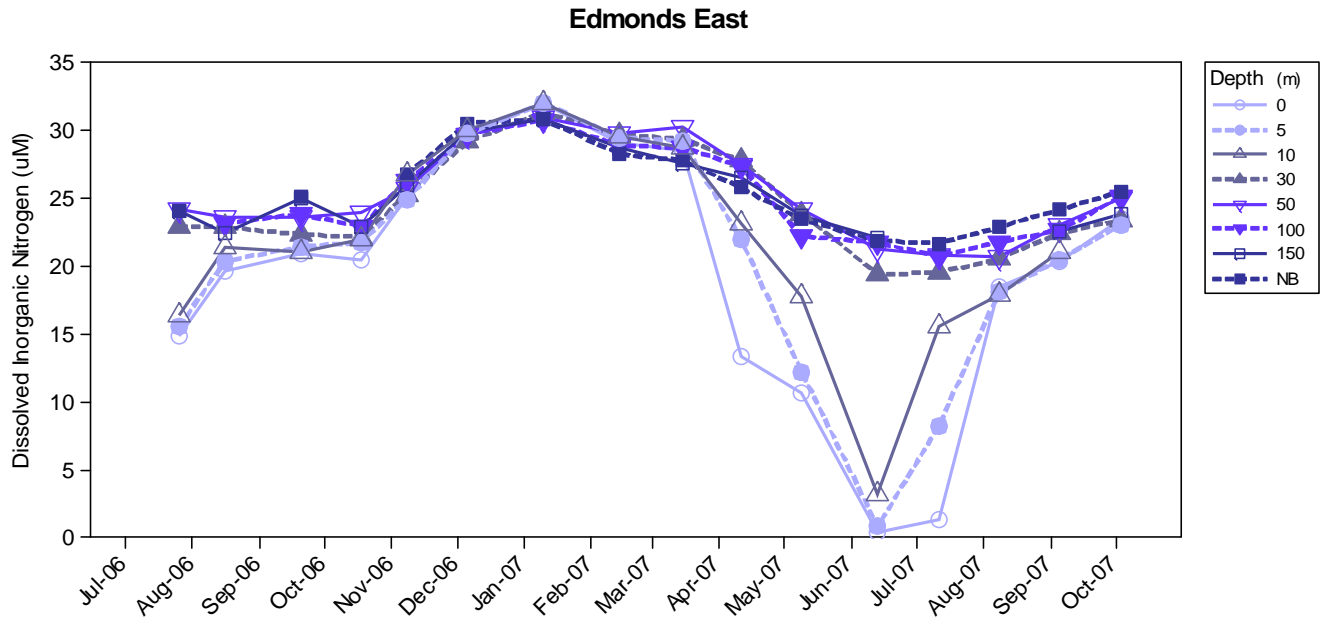


Figure C-80. Monthly dissolved inorganic nitrogen concentrations from samples collected at Edmonds East boundary station in the Central Basin from July 2006 – October 2007.

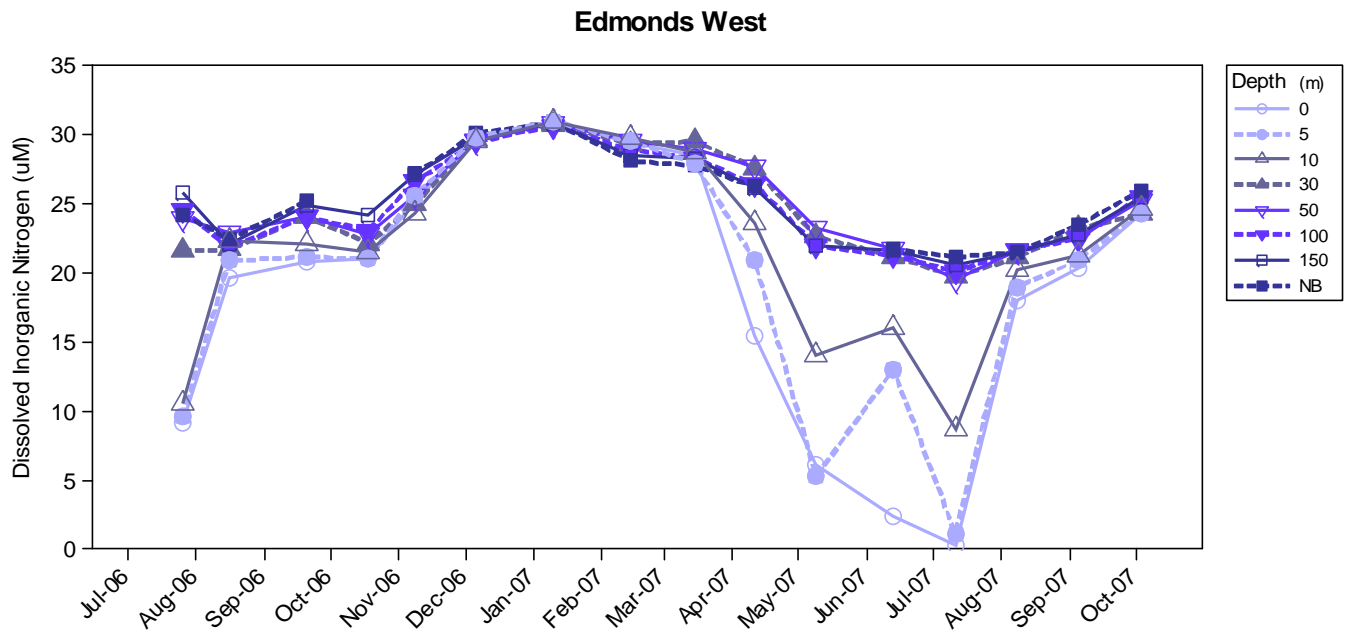


Figure C-81. Monthly dissolved inorganic nitrogen concentrations from samples collected at Edmonds West boundary station in the Central Basin from July 2006 – October 2007.

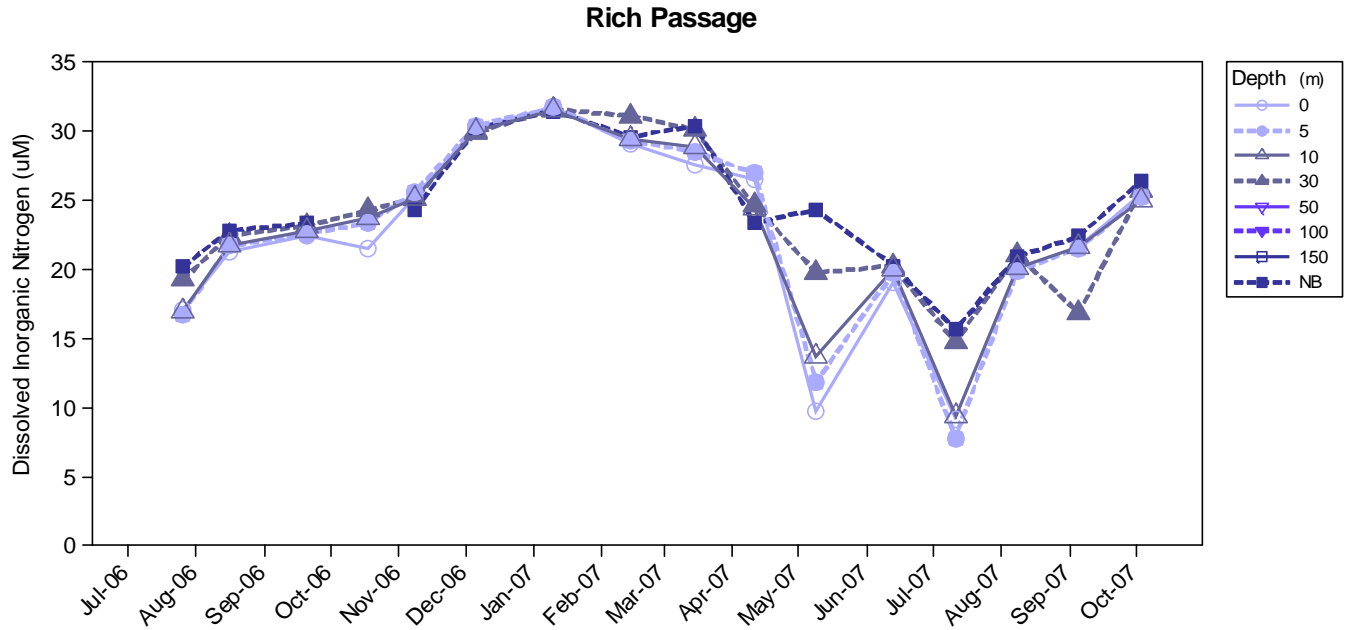


Figure C-82. Monthly dissolved inorganic nitrogen concentrations from samples collected at Rich Passage boundary station from July 2006 – October 2007.

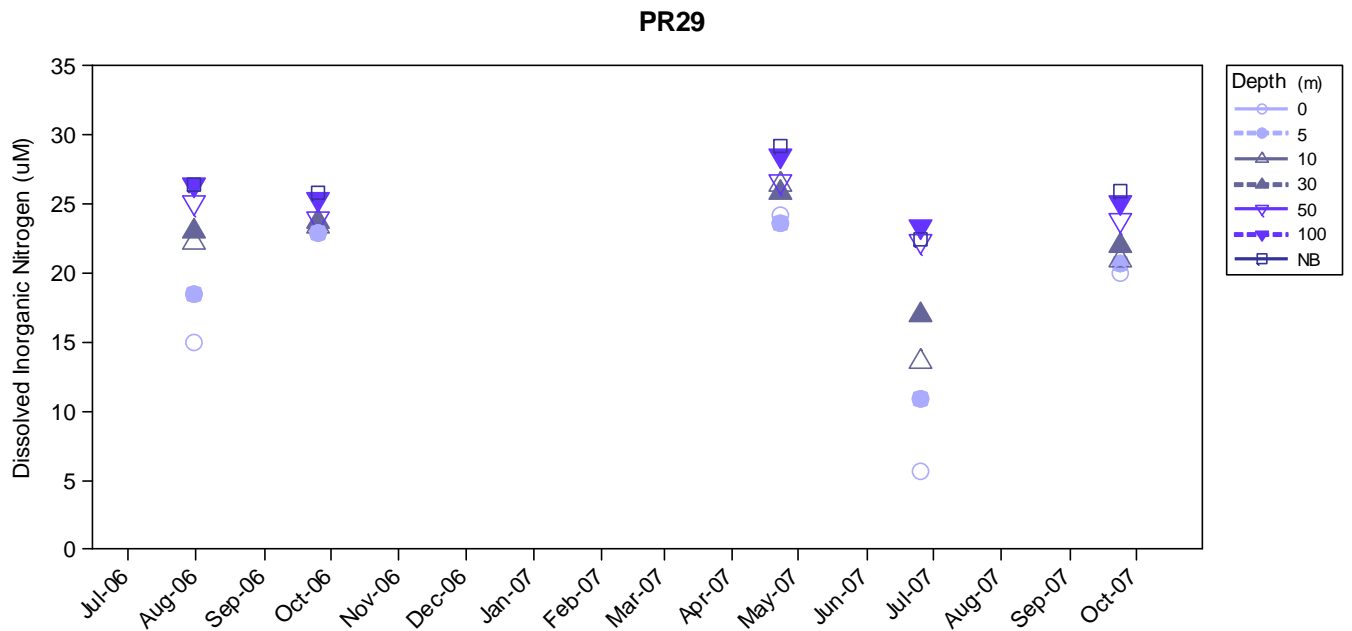


Figure C-83. Monthly dissolved inorganic nitrogen concentrations from samples collected at station PR29 near Blake Island from July 2006 – October 2007.

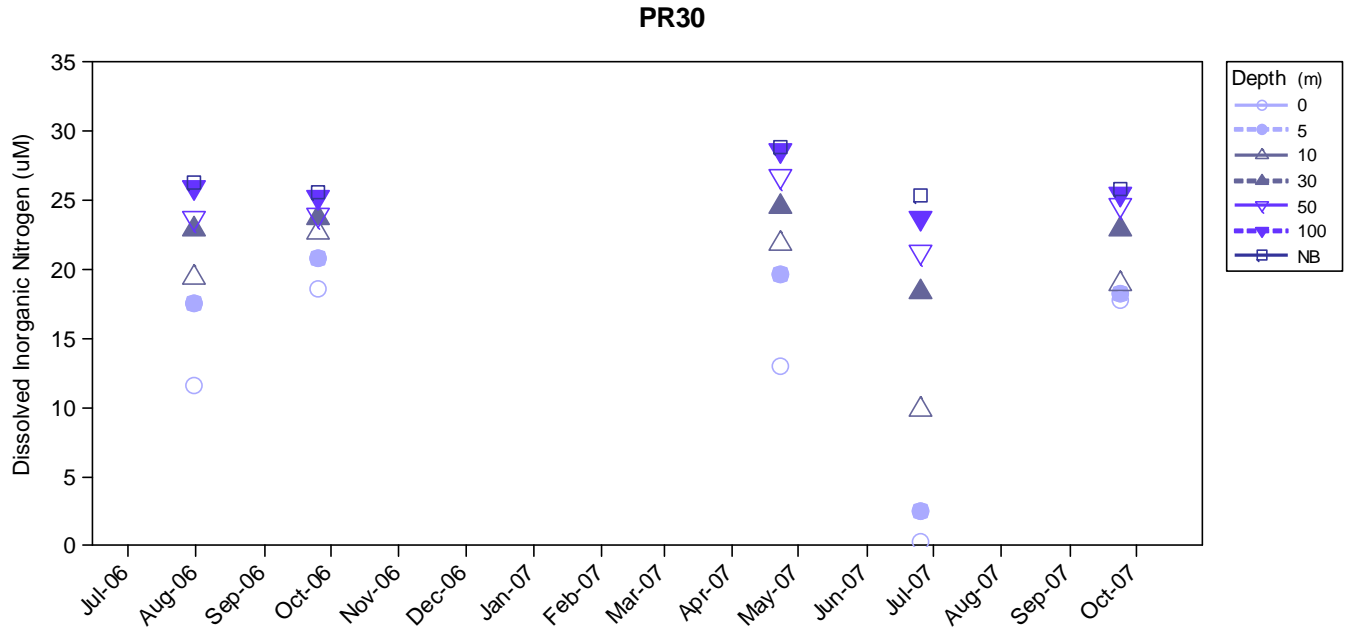


Figure C-84. Monthly dissolved inorganic nitrogen concentrations from samples collected at station PR30 in East Passage from July 2006 – October 2007.

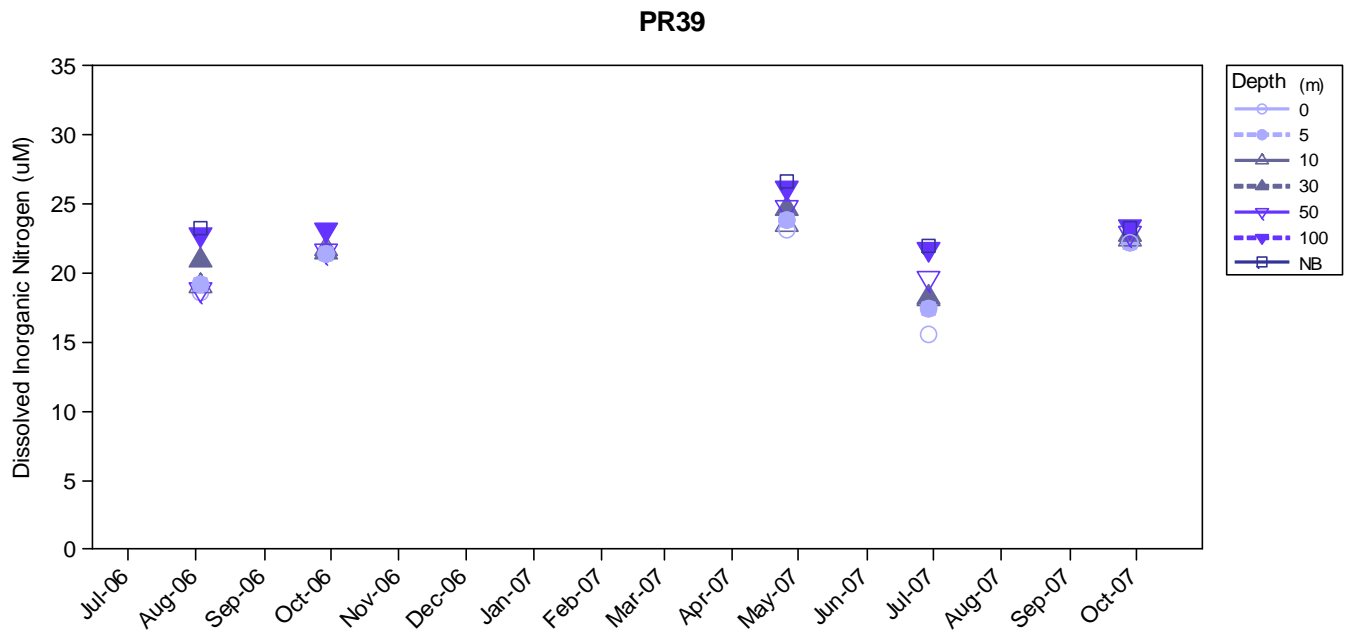


Figure C-85. Monthly dissolved inorganic nitrogen concentrations from samples collected at station PR39 in Colvos Passage from July 2006 – October 2007.

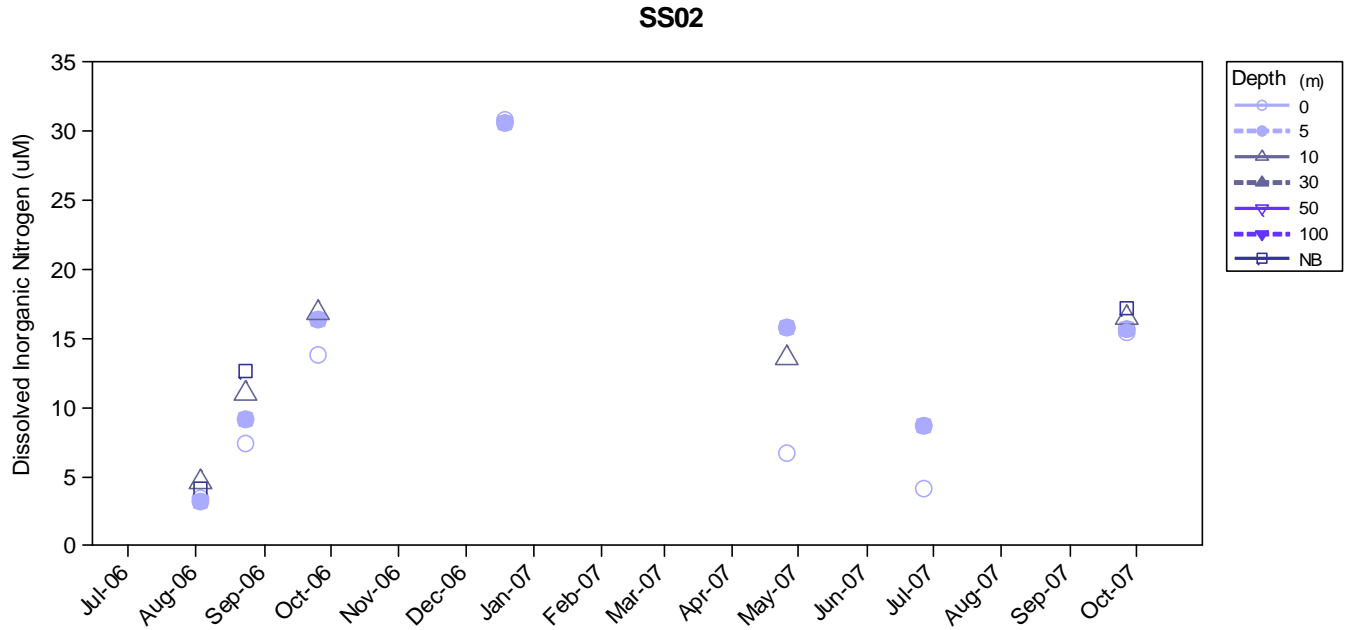


Figure C-86. Monthly dissolved inorganic nitrogen concentrations from samples collected at South Sound station SS02 in outer Henderson Inlet from July 2006 – October 2007.

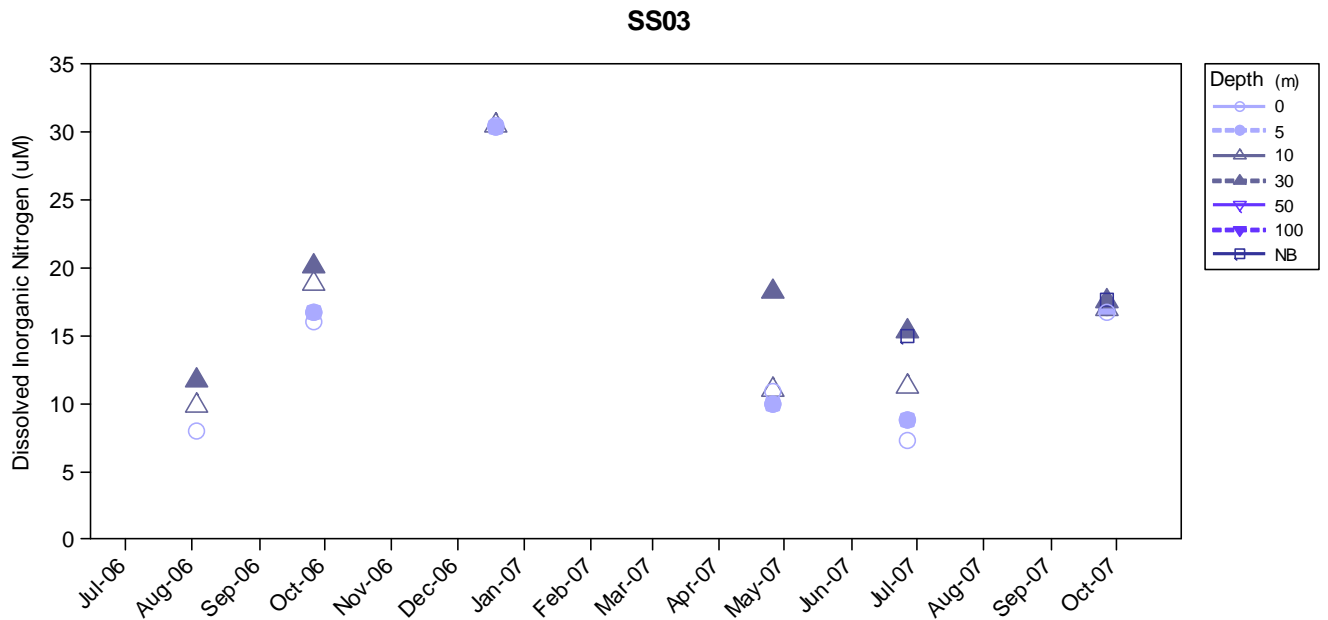


Figure C-87. Monthly dissolved inorganic nitrogen concentrations from samples collected at South Sound station SS03 in Dana Passage from July 2006 – October 2007.

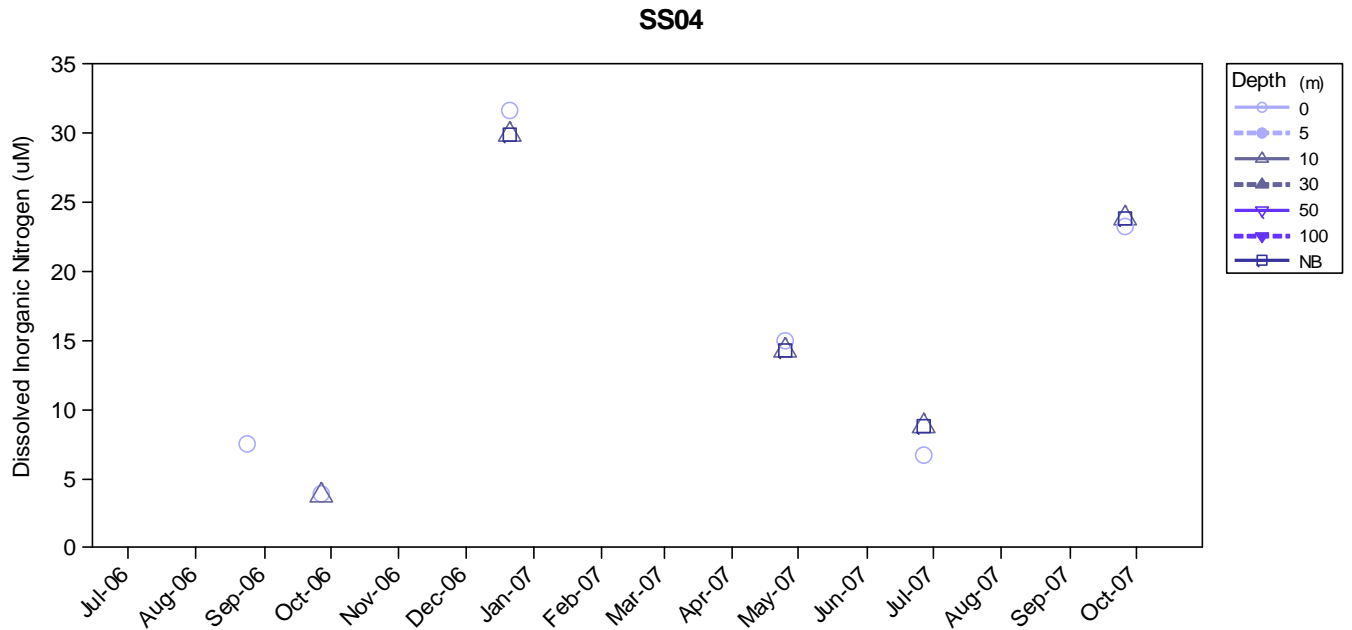


Figure C-88. Monthly dissolved inorganic nitrogen concentrations from samples collected at South Sound station SS04 in South Budd Inlet from July 2006 – October 2007.

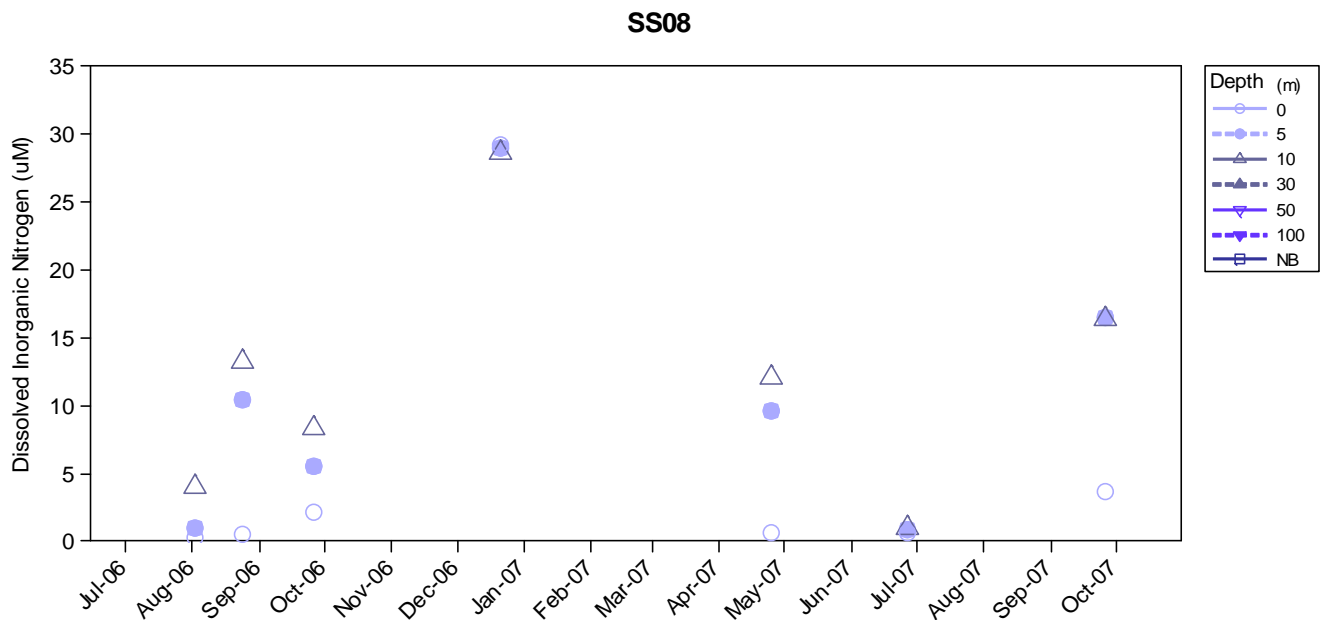


Figure C-89. Monthly dissolved inorganic nitrogen concentrations from samples collected at South Sound station SS08 in Central Budd Inlet from July 2006 – October 2007.

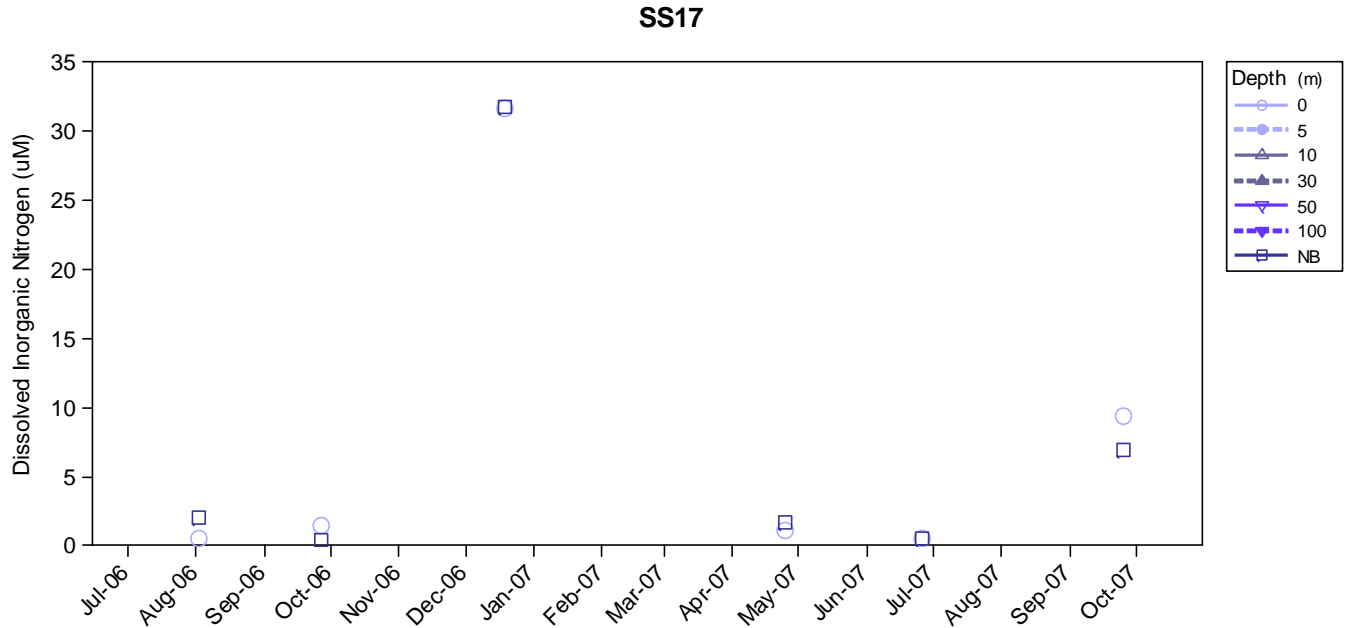


Figure C-90. Monthly dissolved inorganic nitrogen concentrations from samples collected at South Sound station SS17 near inner Eld Inlet from July 2006 – October 2007.

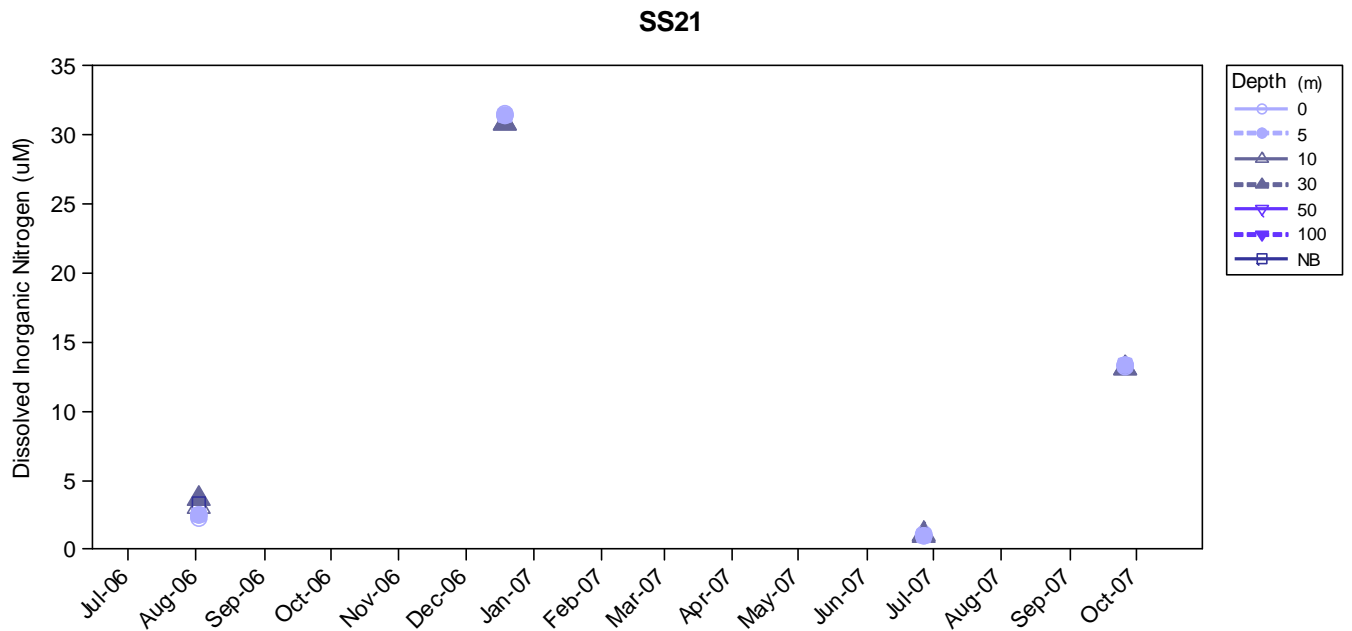


Figure C-91. Monthly dissolved inorganic nitrogen concentrations from samples collected at South Sound station SS21 near outer Totten Inlet from July 2006 – October 2007.

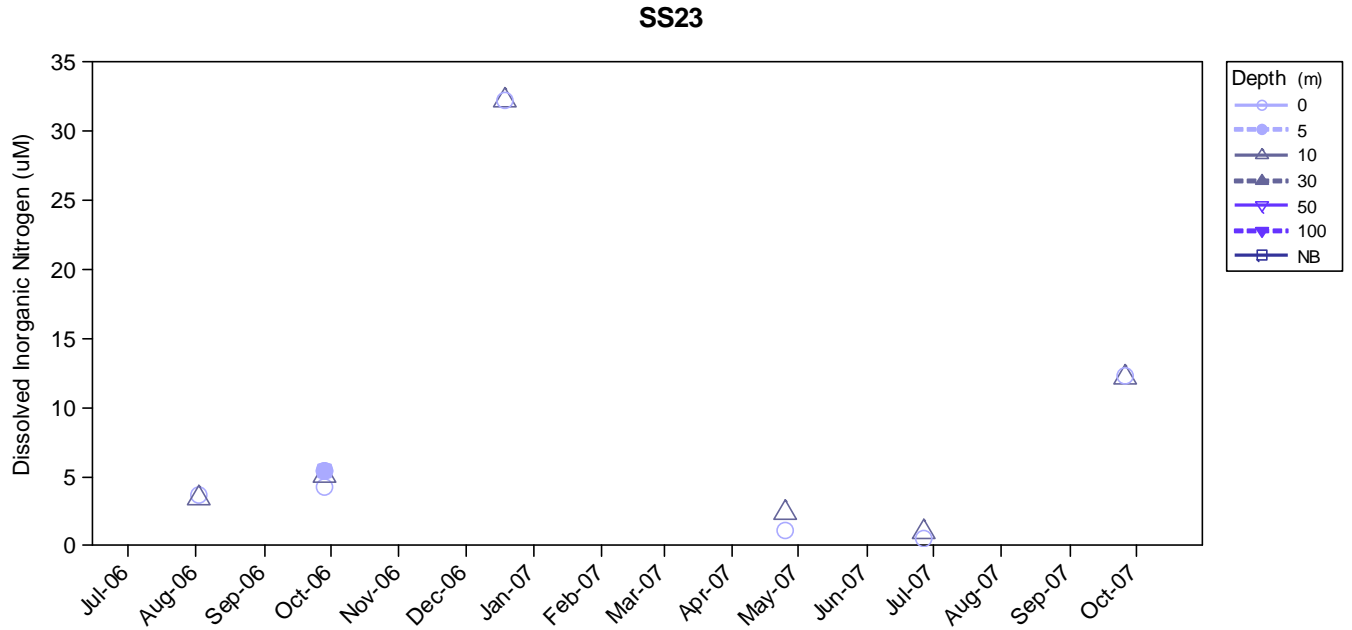


Figure C-92. Monthly dissolved inorganic nitrogen concentrations from samples collected at South Sound station SS23 near central Totten Inlet from July 2006 – October 2007.

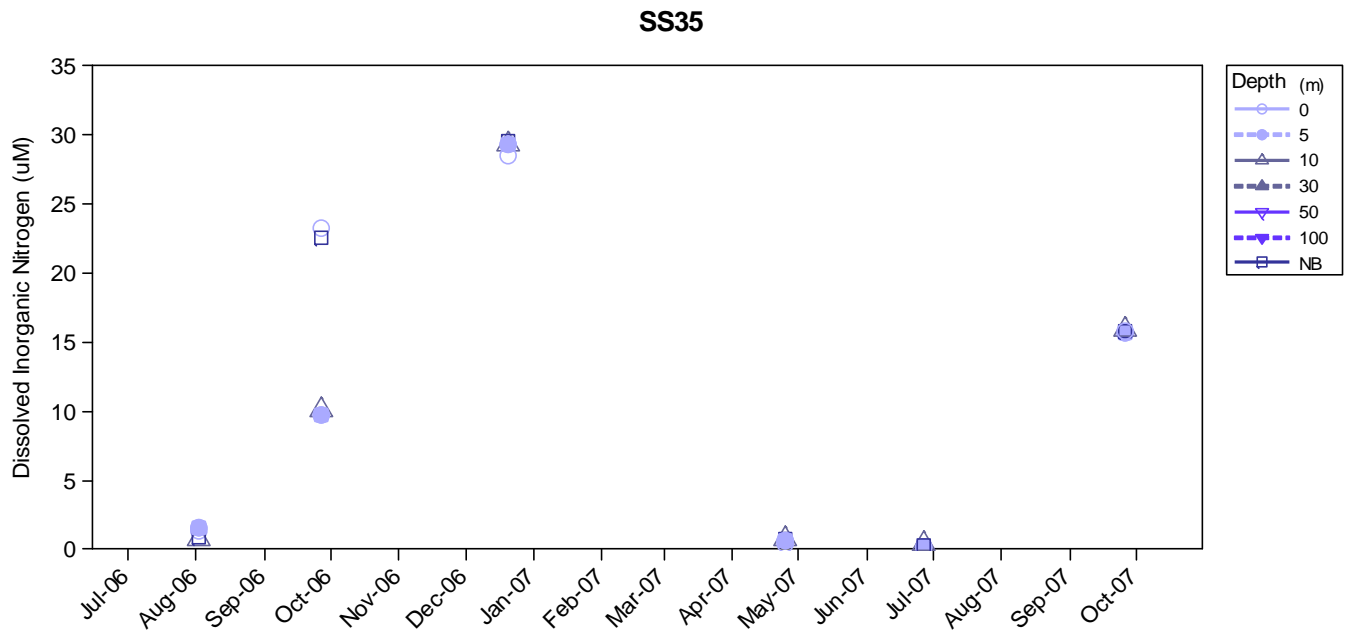


Figure C-93. Monthly dissolved inorganic nitrogen concentrations from samples collected at South Sound station SS35 near the Port of Shelton in Oakland Bay from July 2006 – October 2007.

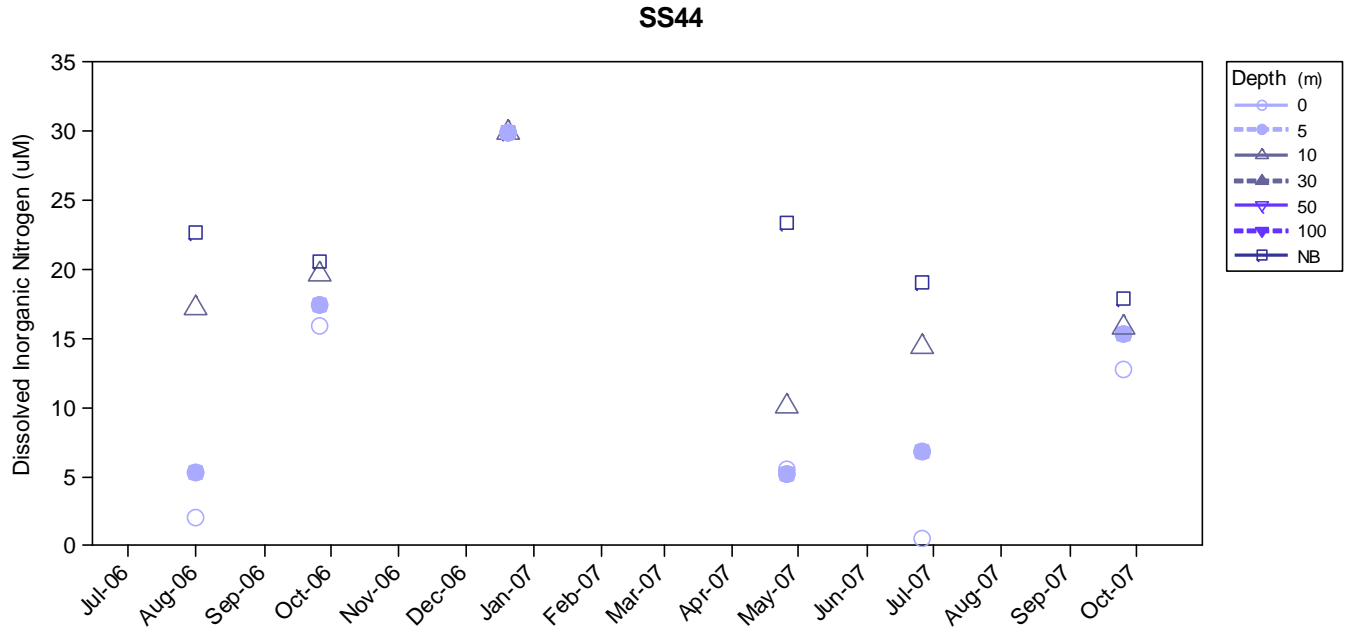


Figure C-94. Monthly dissolved inorganic nitrogen concentrations from samples collected at South Sound station SS44 near North Pickering Passage from July 2006 – October 2007.

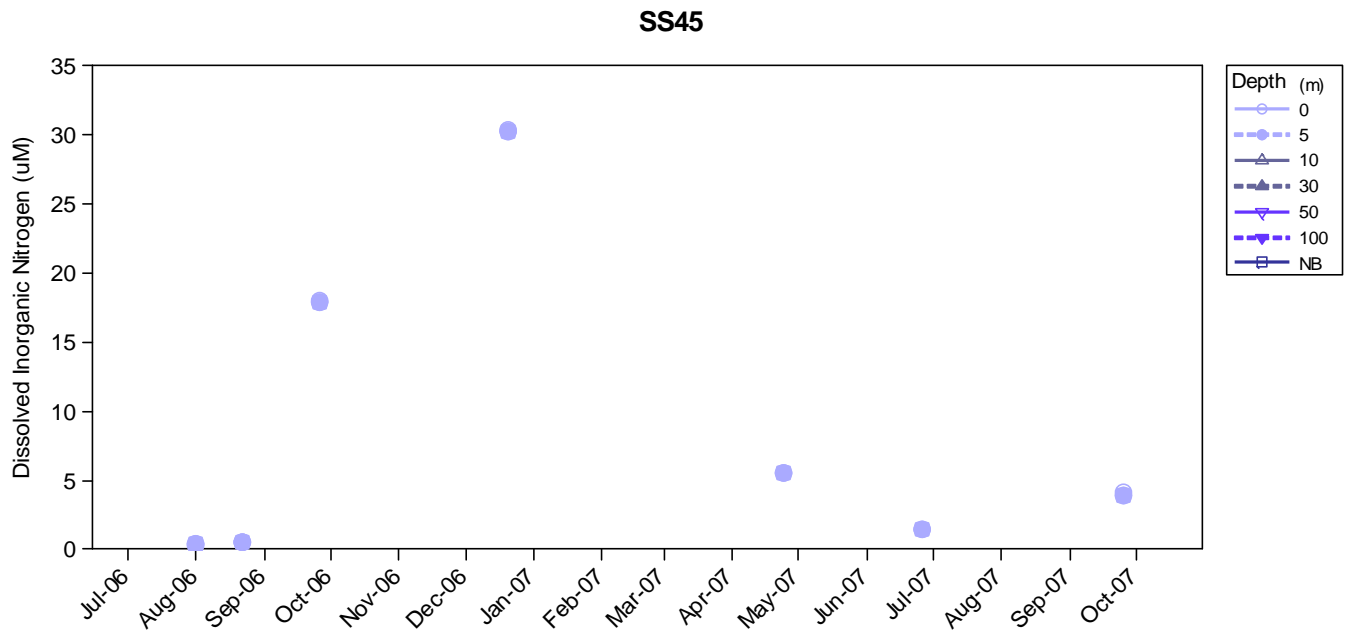


Figure C-95. Monthly dissolved inorganic nitrogen concentrations from samples collected at South Sound station SS45 near inner Case Inlet from July 2006 – October 2007.

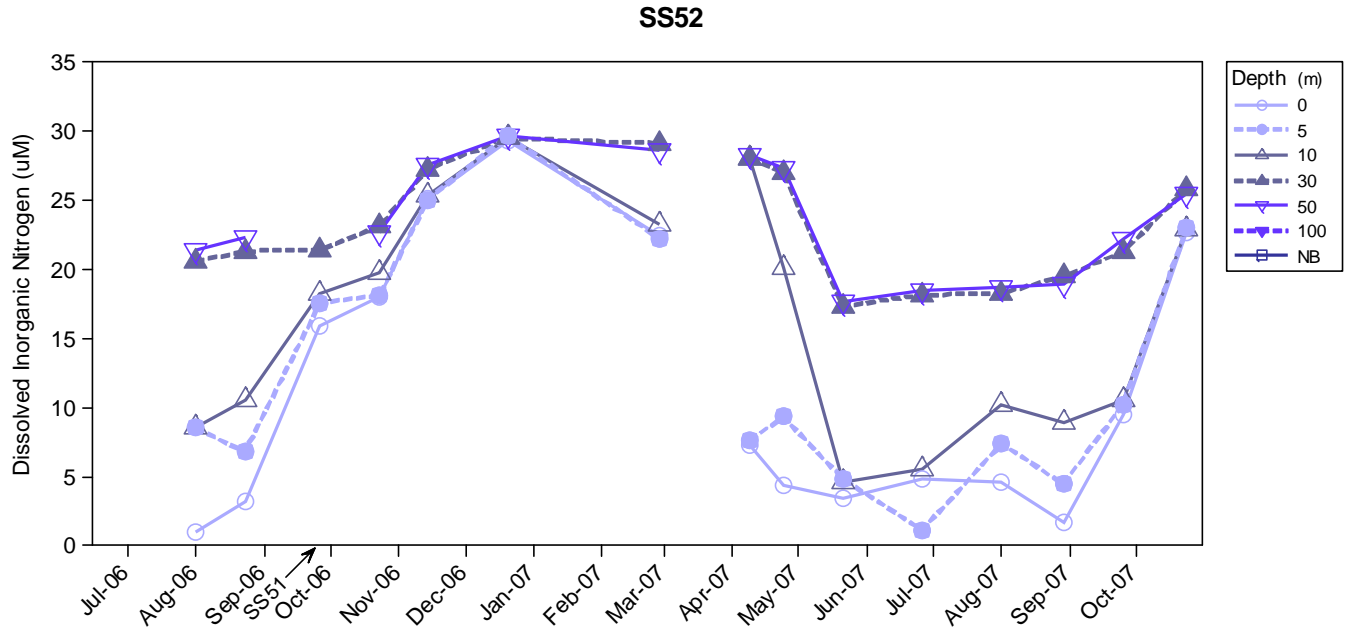


Figure C-96. Monthly dissolved inorganic nitrogen concentrations from samples collected at South Sound station SS52 near central Case Inlet from July 2006 – October 2007.

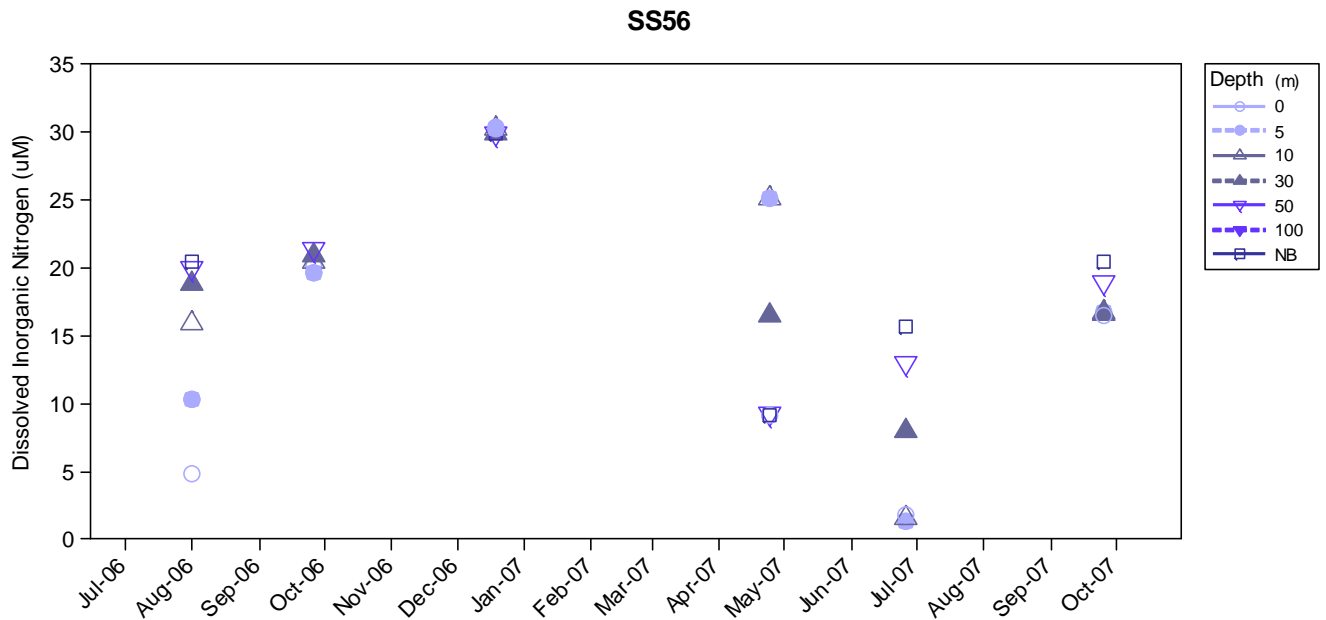


Figure C-97. Monthly dissolved inorganic nitrogen concentrations from samples collected at South Sound station SS56 near South Case Inlet from July 2006 – October 2007.

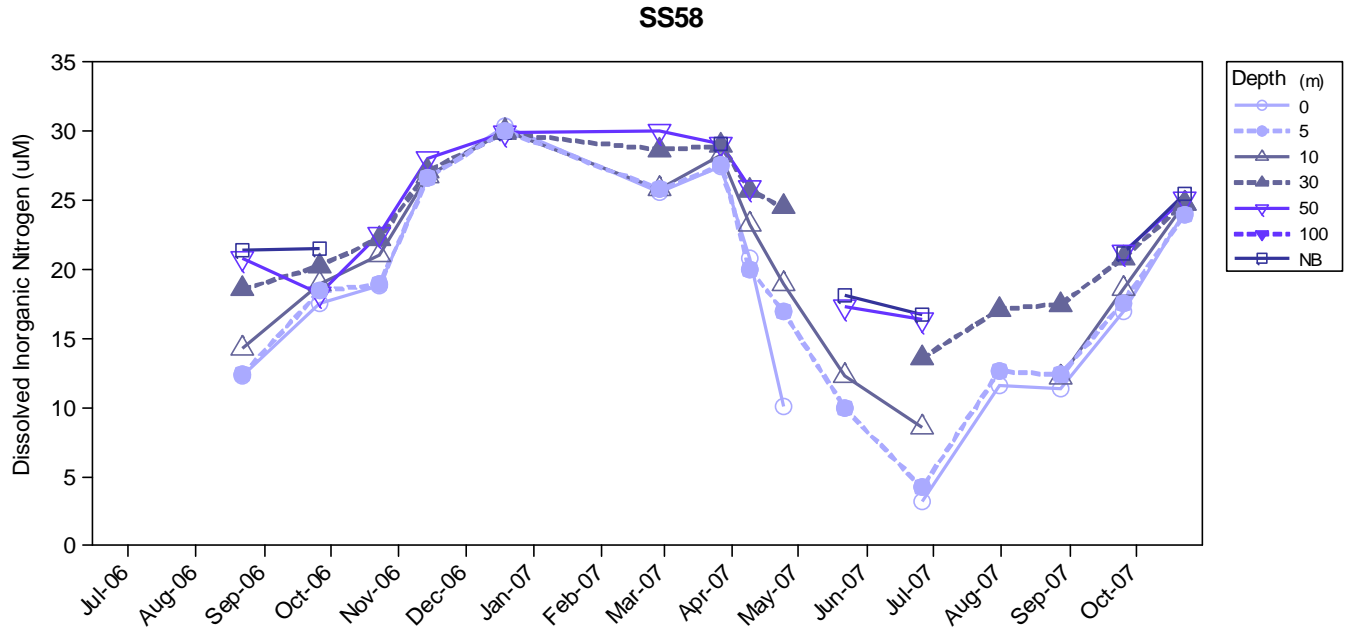


Figure C-98. Monthly dissolved inorganic nitrogen concentrations from samples collected at South Sound station SS58 near South Case Inlet from July 2006 – October 2007.

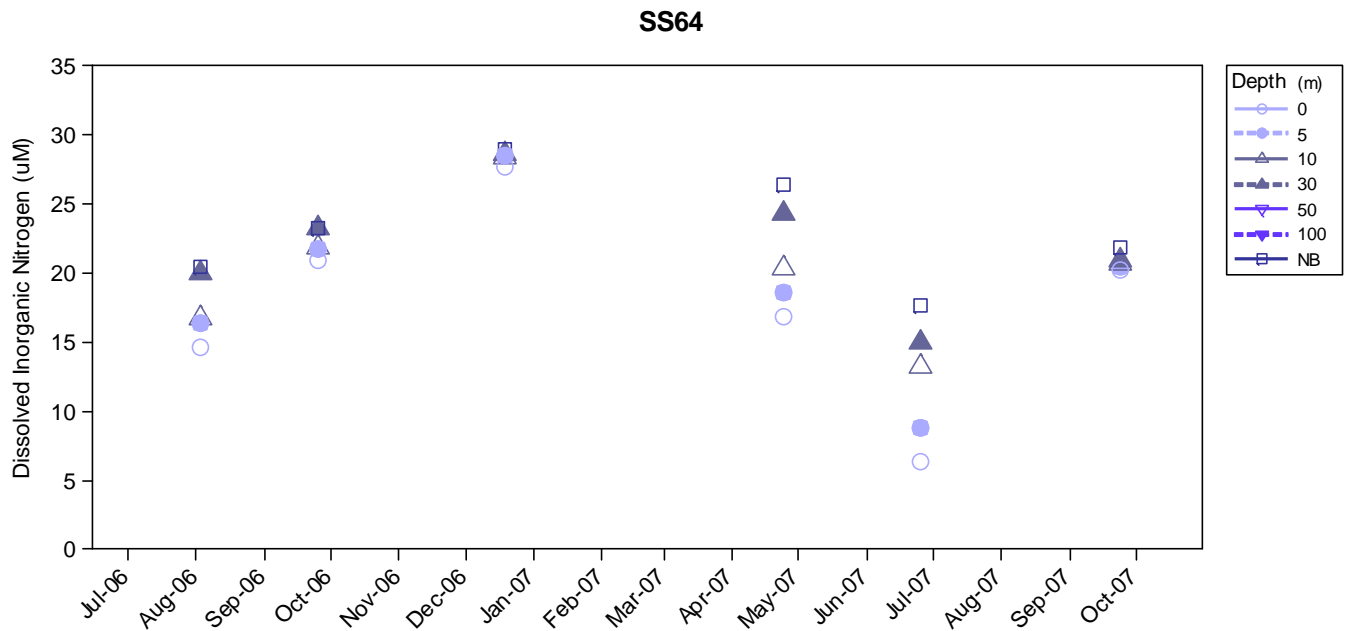


Figure C-99. Monthly dissolved inorganic nitrogen concentrations from samples collected at South Sound station SS64 in Nisqually Reach from July 2006 – October 2007.

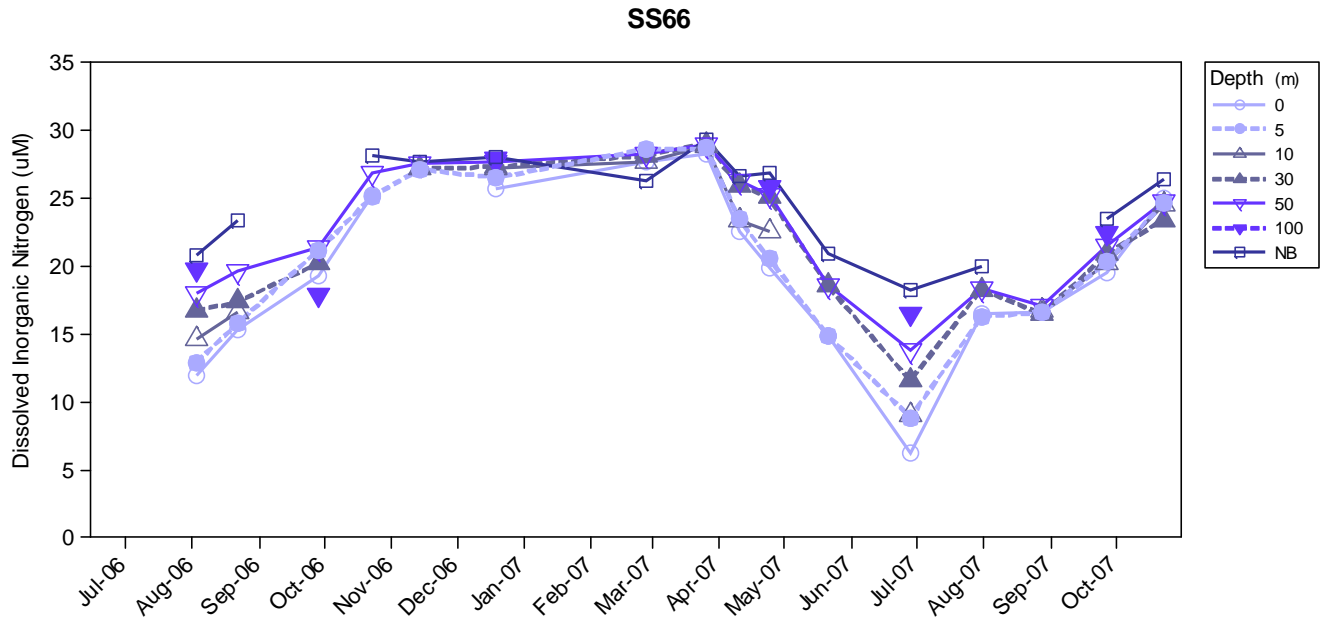


Figure C-100. Monthly dissolved inorganic nitrogen concentrations from samples collected at South Sound station SS66 near Steilacoom from July 2006 – October 2007.

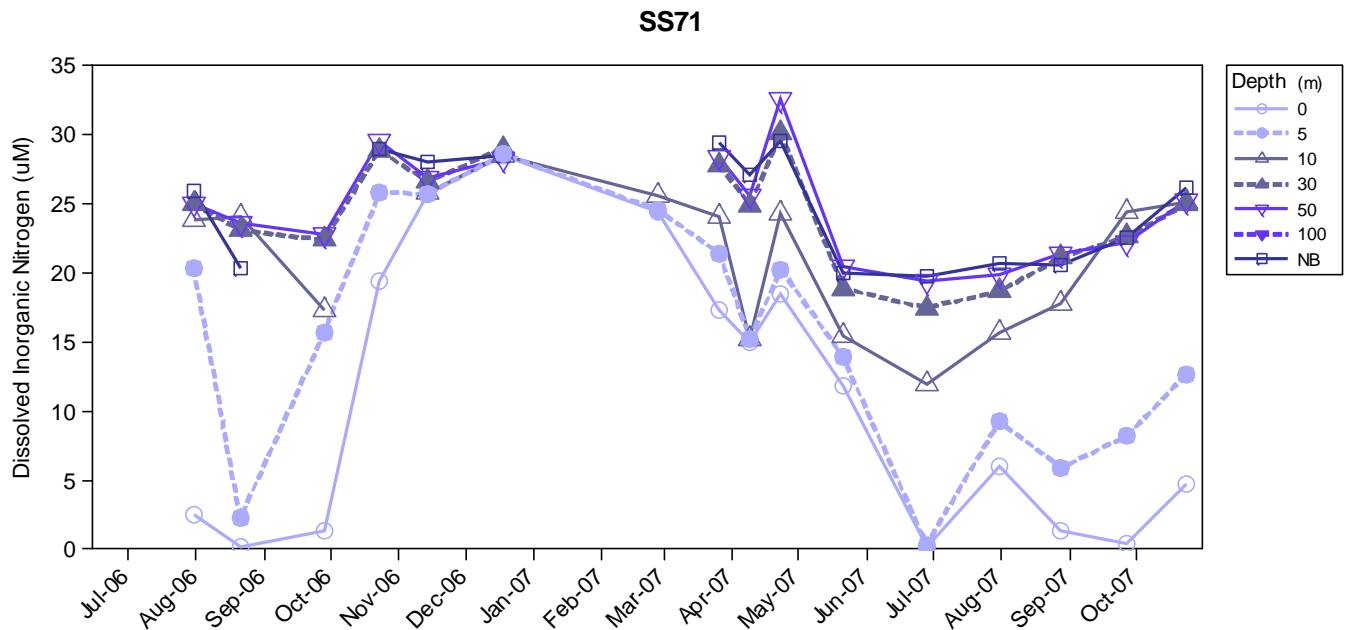


Figure C-101. Monthly dissolved inorganic nitrogen concentrations from samples collected at South Sound station SS71 in Central Carr Inlet from July 2006 – October 2007.

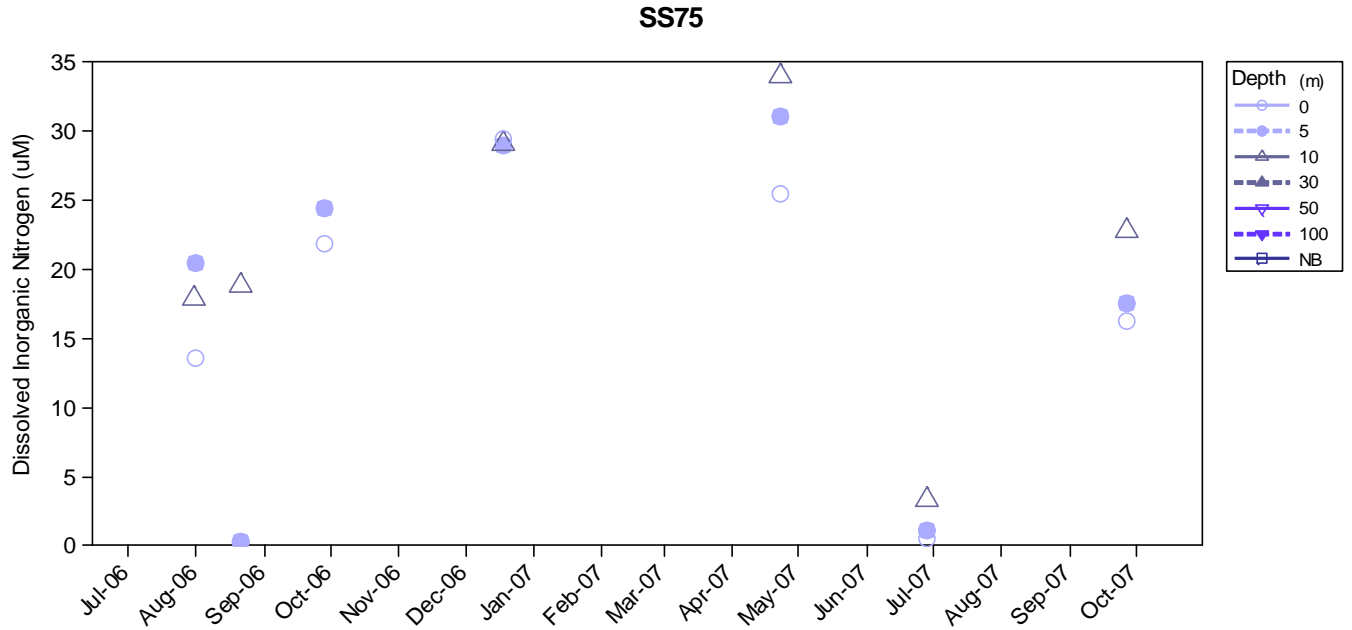


Figure C-102. Monthly dissolved inorganic nitrogen concentrations from samples collected at South Sound station SS75 in North inner Carr from July 2006 – October 2007.

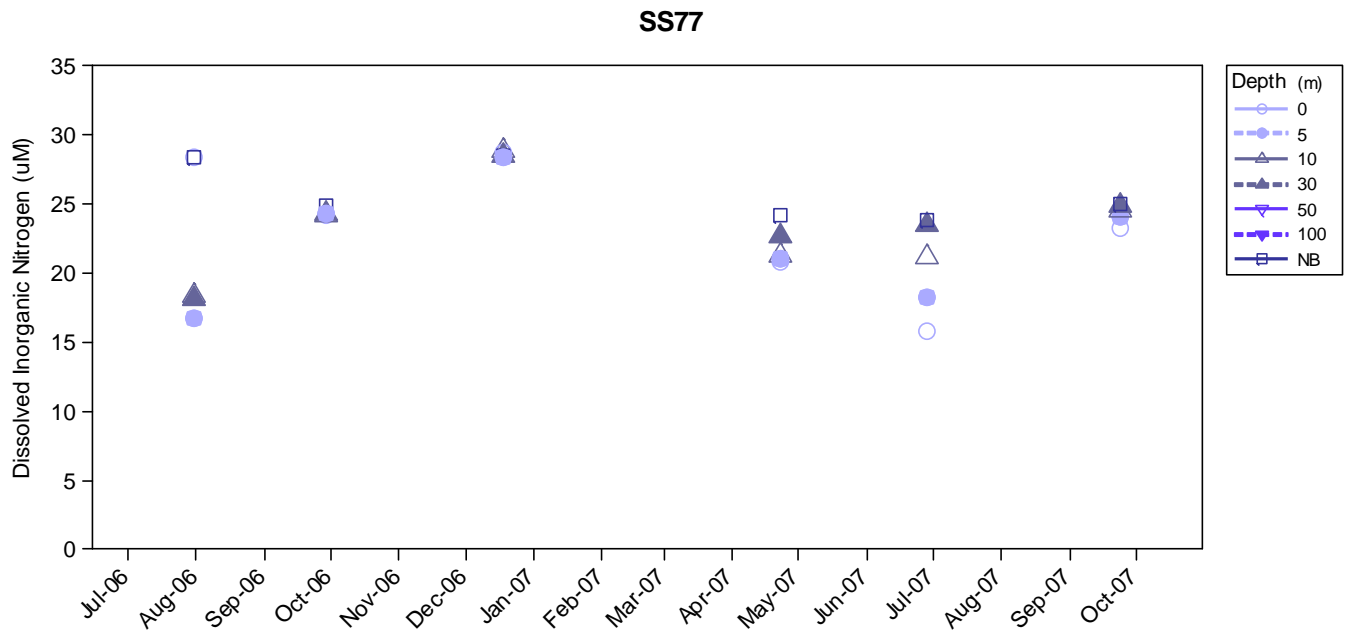


Figure C-103. Monthly dissolved inorganic nitrogen concentrations from samples collected at South Sound station SS77 near the Tacoma Narrows from July 2006 – October 2007.

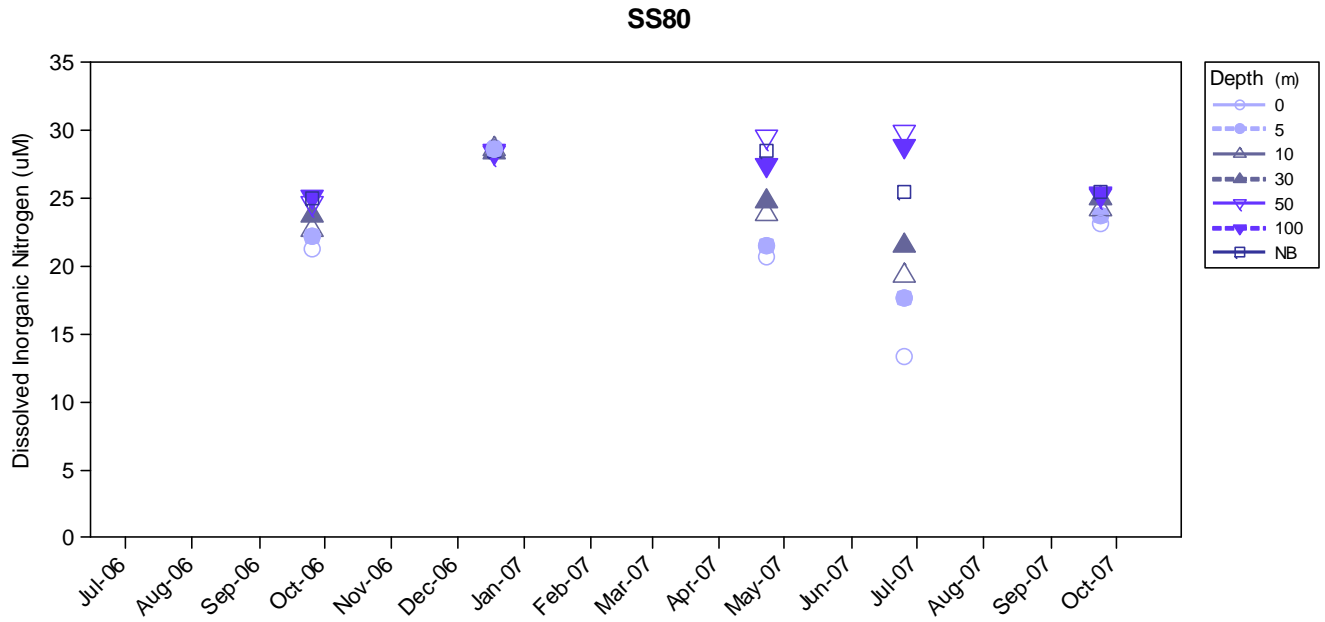


Figure C-104. Monthly dissolved inorganic nitrogen concentrations from samples collected at South Sound station SS80 near Dalco Passage from July 2006 – October 2007.

Ammonium

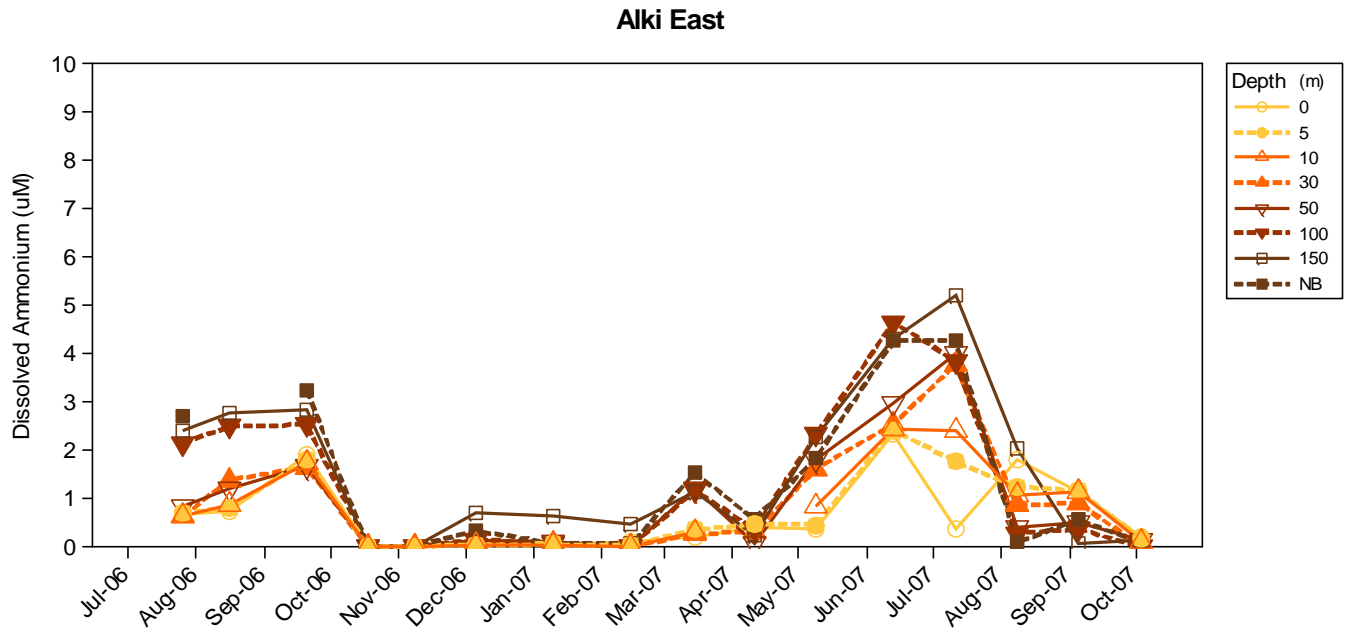


Figure C-105. Monthly ammonium (NH₄) concentrations from samples collected at Alki East boundary station near South Seattle from July 2006 – October 2007.

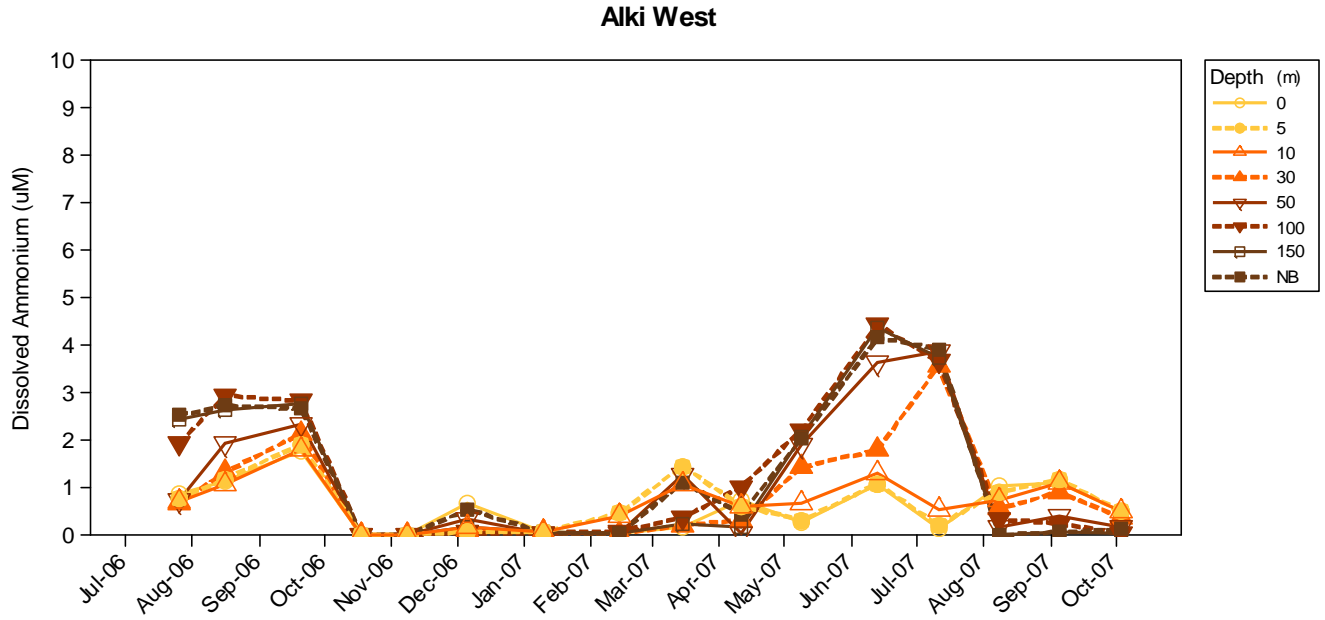


Figure C-106. Monthly ammonium (NH₄) concentrations from samples collected at Alki West boundary station near South Seattle from July 2006 – October 2007.

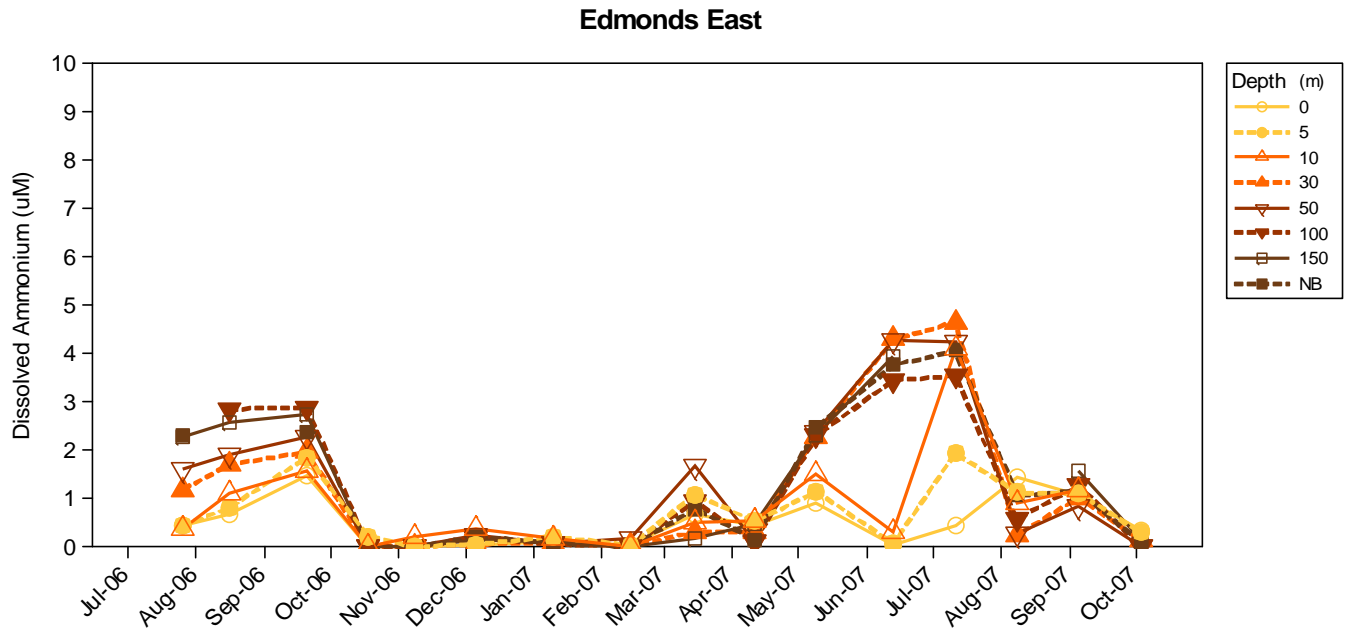


Figure C-107. Monthly ammonium (NH₄) concentrations from samples collected at Edmonds East boundary stations in the Central Basin from July 2006 – October 2007.

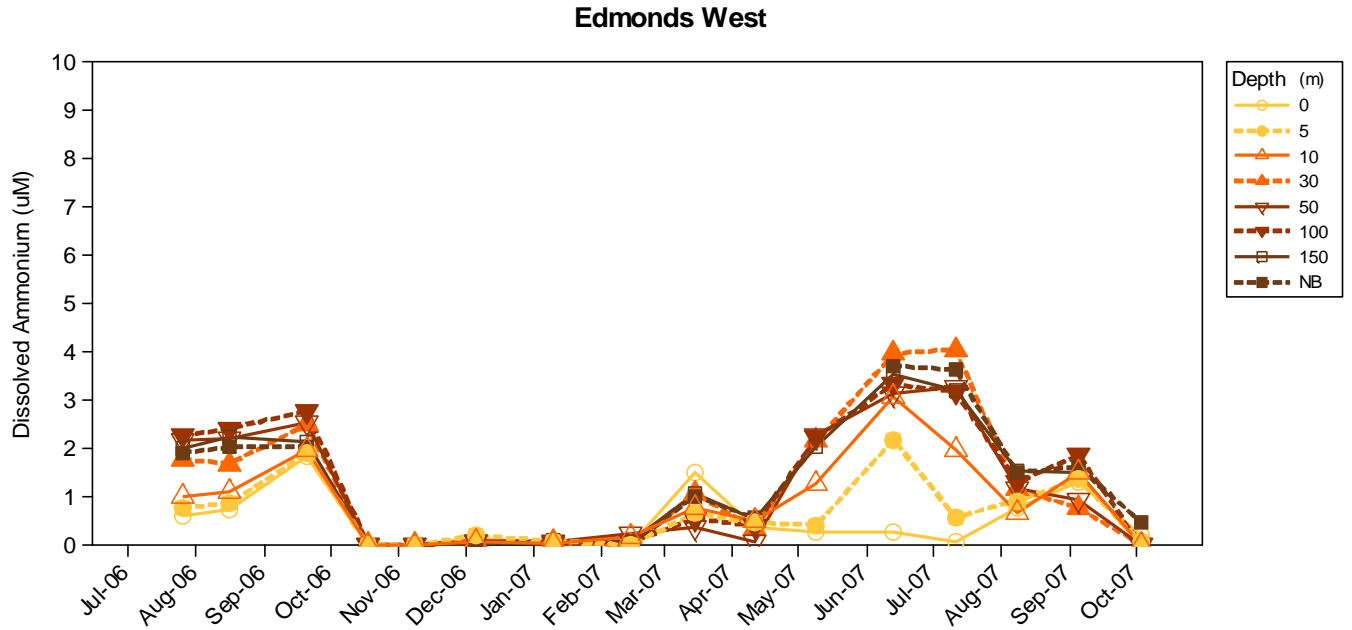


Figure C-108. Monthly ammonium (NH₄) concentrations from samples collected at Edmonds West boundary stations in the Central Basin from July 2006 – October 2007.

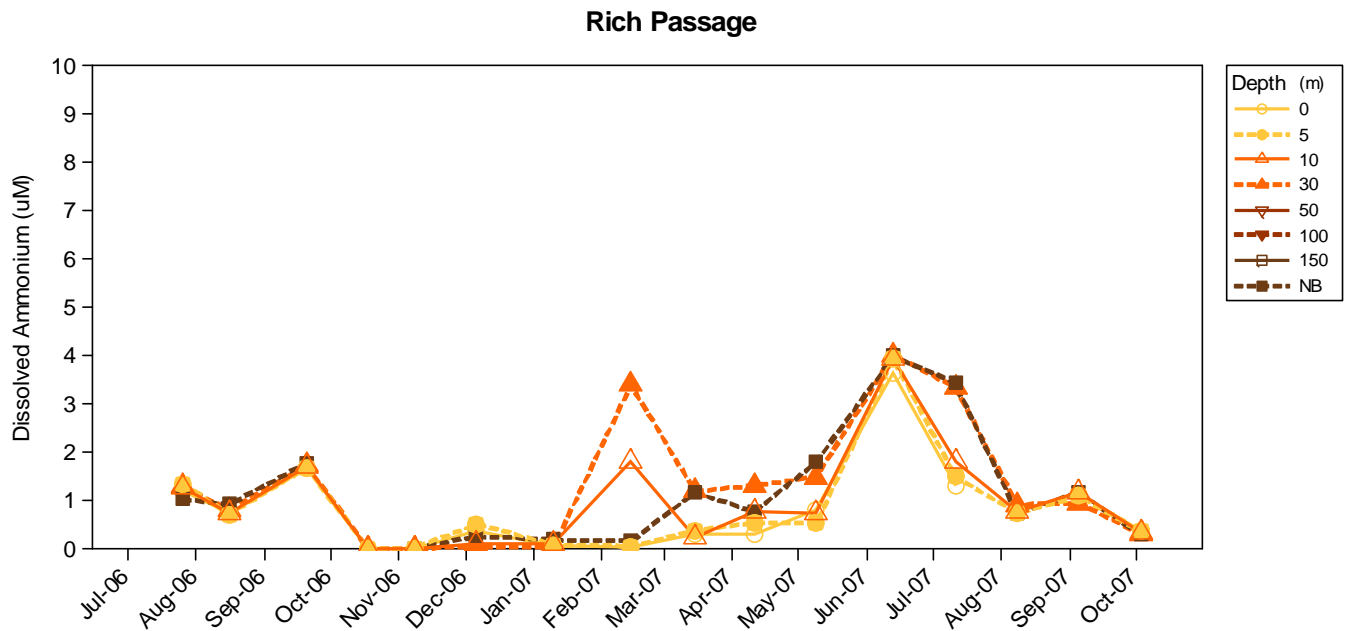


Figure C-109. Monthly ammonium (NH₄) concentrations from samples collected at Rich Passage boundary stations from July 2006 – October 2007.

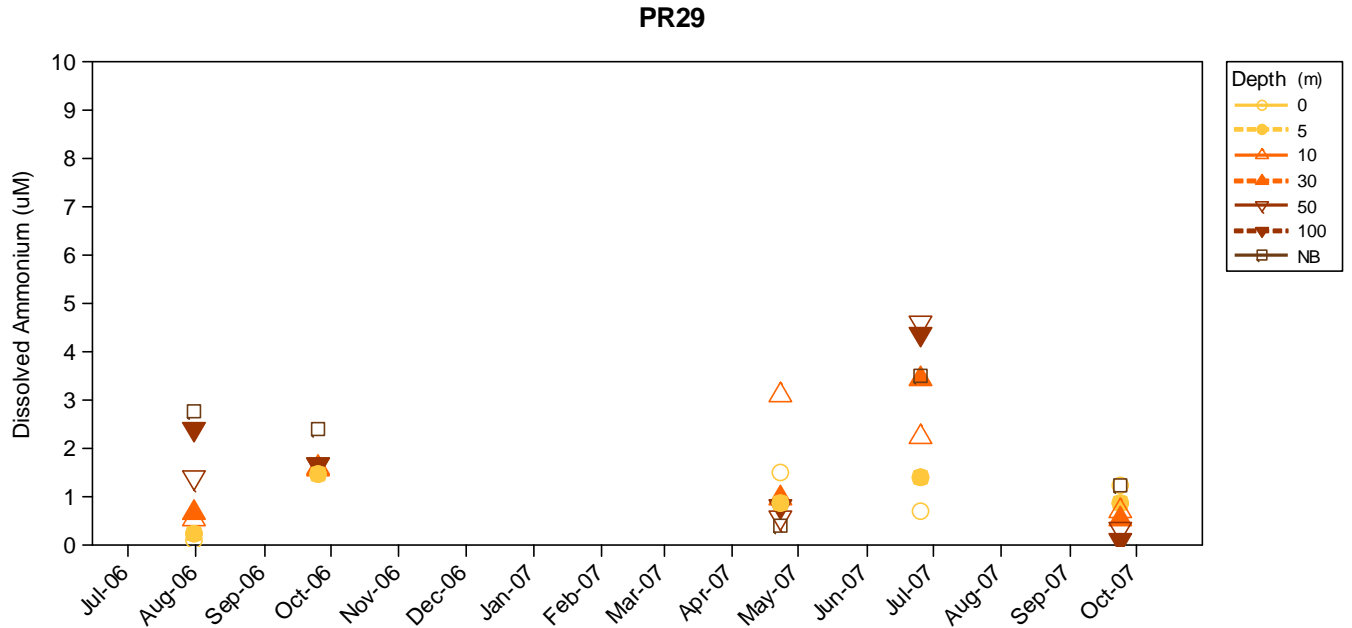


Figure C-110. Monthly ammonium (NH₄) concentrations from samples collected at station PR29 near Blake Island from July 2006 – October 2007.

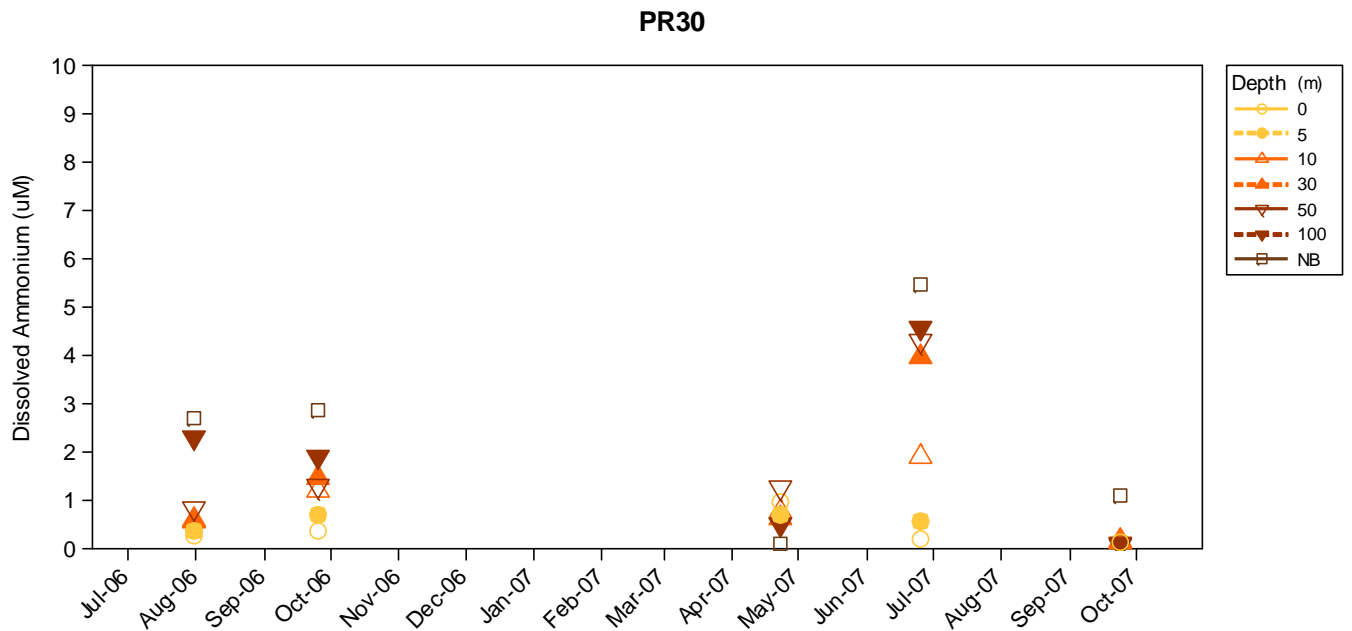


Figure C-111. Monthly dissolved inorganic ammonium (NH₄) concentrations from samples collected at station PR30 in East Passage from July 2006 – October 2007.

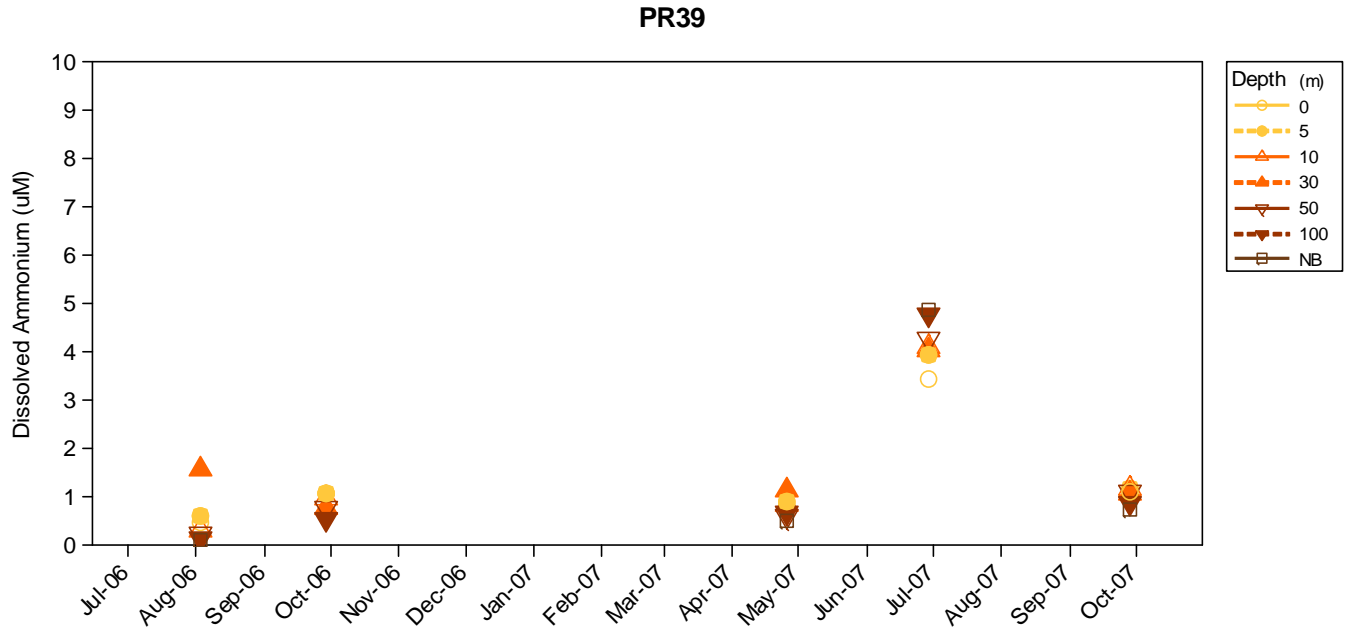


Figure C-112. Monthly ammonium (NH₄) concentrations from samples collected at station PR39 in Colvos Passage from July 2006 – October 2007.

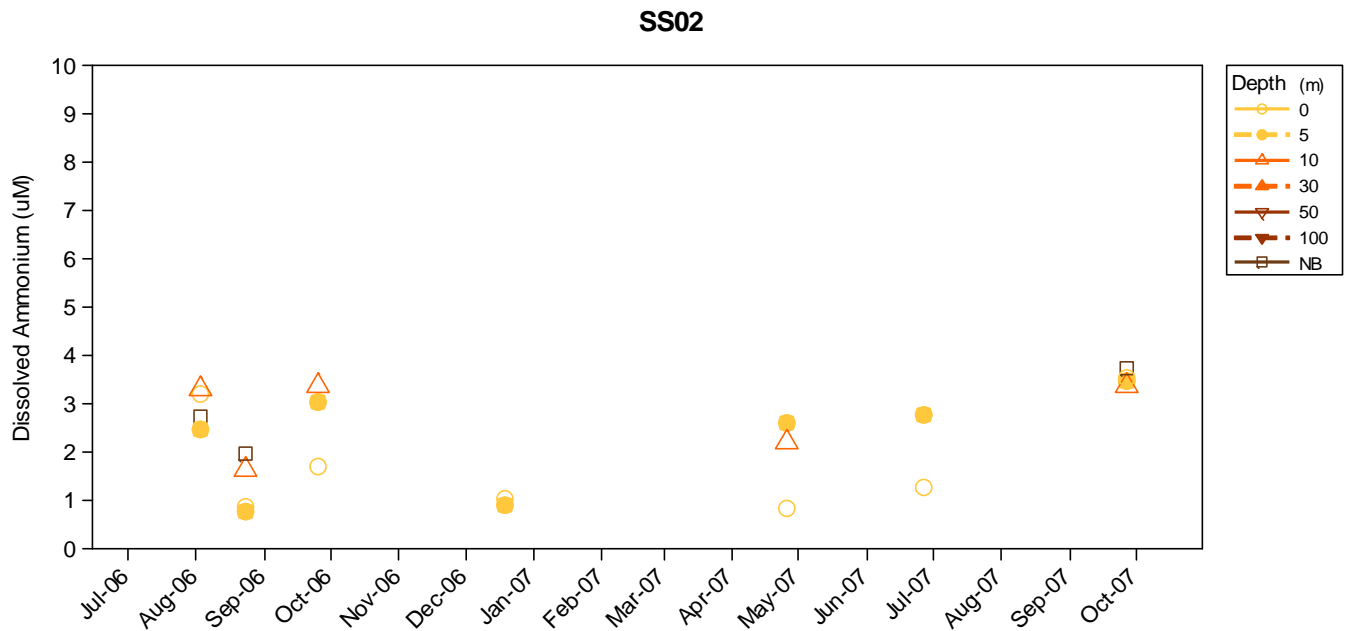


Figure C-113. Monthly ammonium (NH₄) concentrations from samples collected at South Sound station SS02 in upper Henderson Inlet from July 2006 – October 2007.

SS03

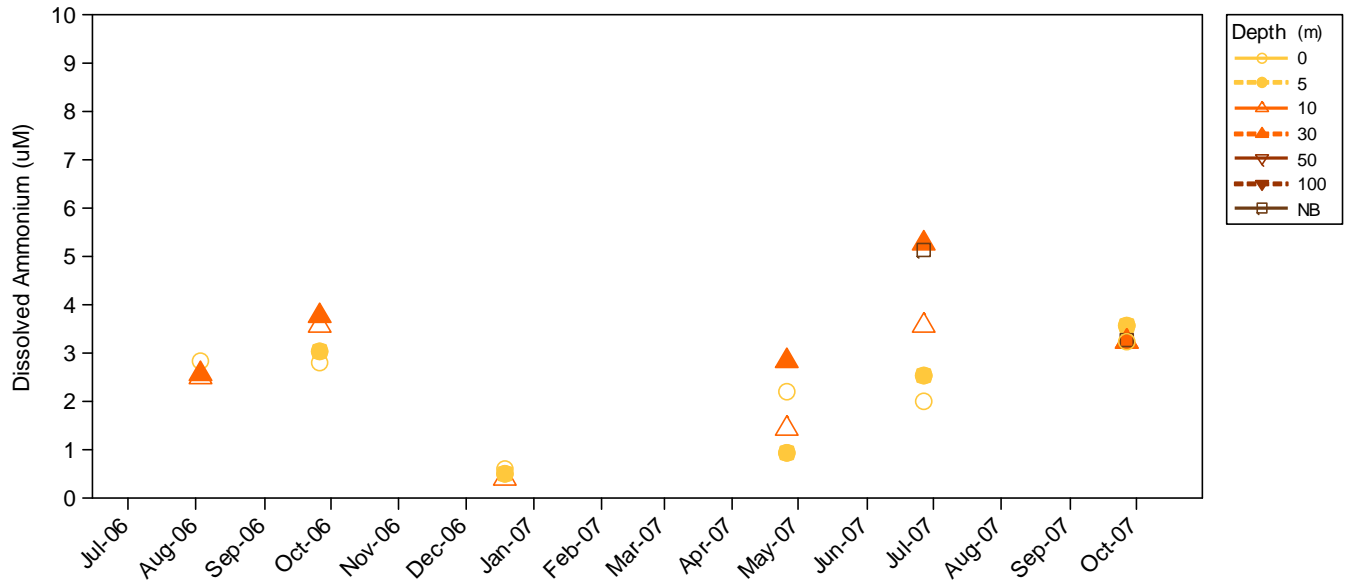


Figure C-114. Monthly ammonium (NH₄) concentrations from samples collected at South Sound station SS02 in outer Henderson Inlet from July 2006 – October 2007.

SS04

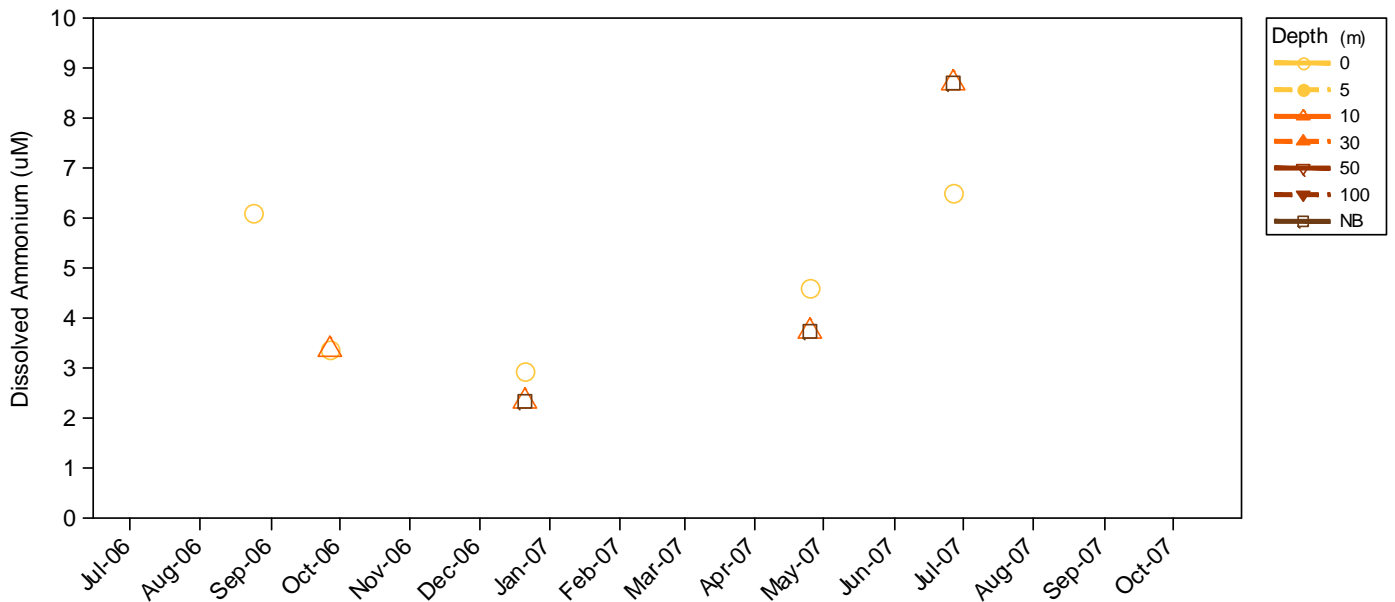


Figure C-115. Monthly ammonium (NH₄) concentrations from samples collected at South Sound station SS04 in South Budd Inlet from July 2006 – October 2007.

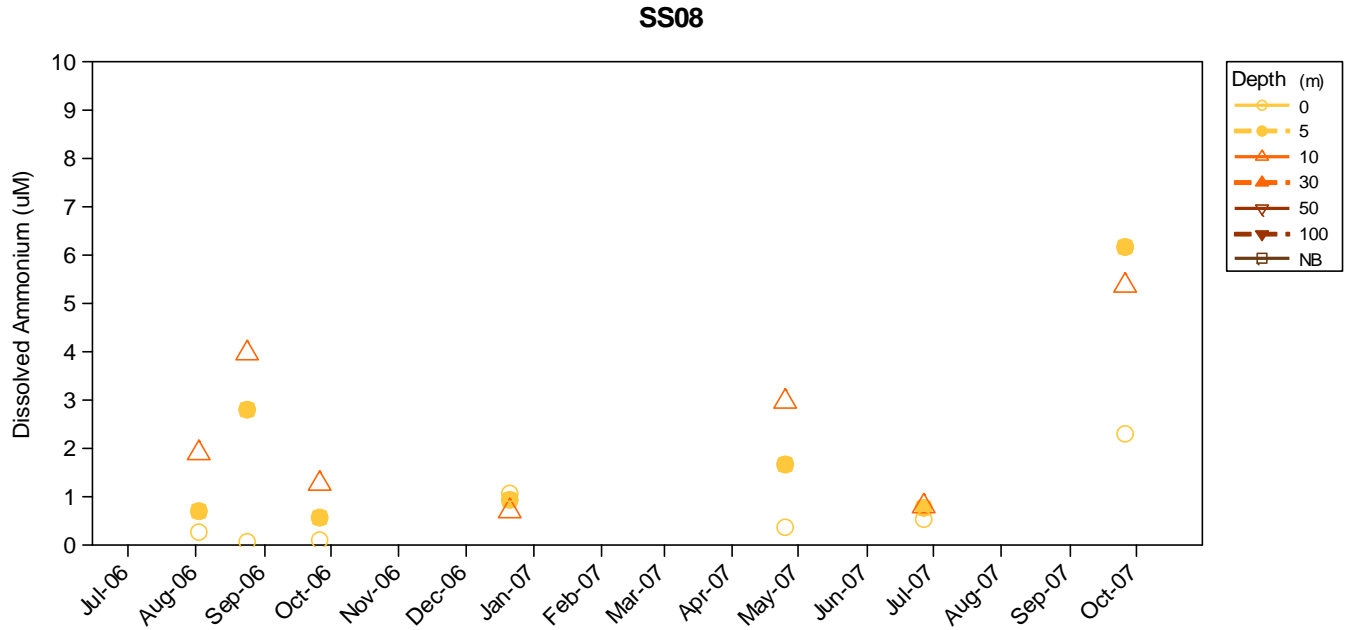


Figure C-116. Monthly ammonium (NH₄) concentrations from samples collected at South Sound station SS08 in Central Budd Inlet from July 2006 – October 2007.

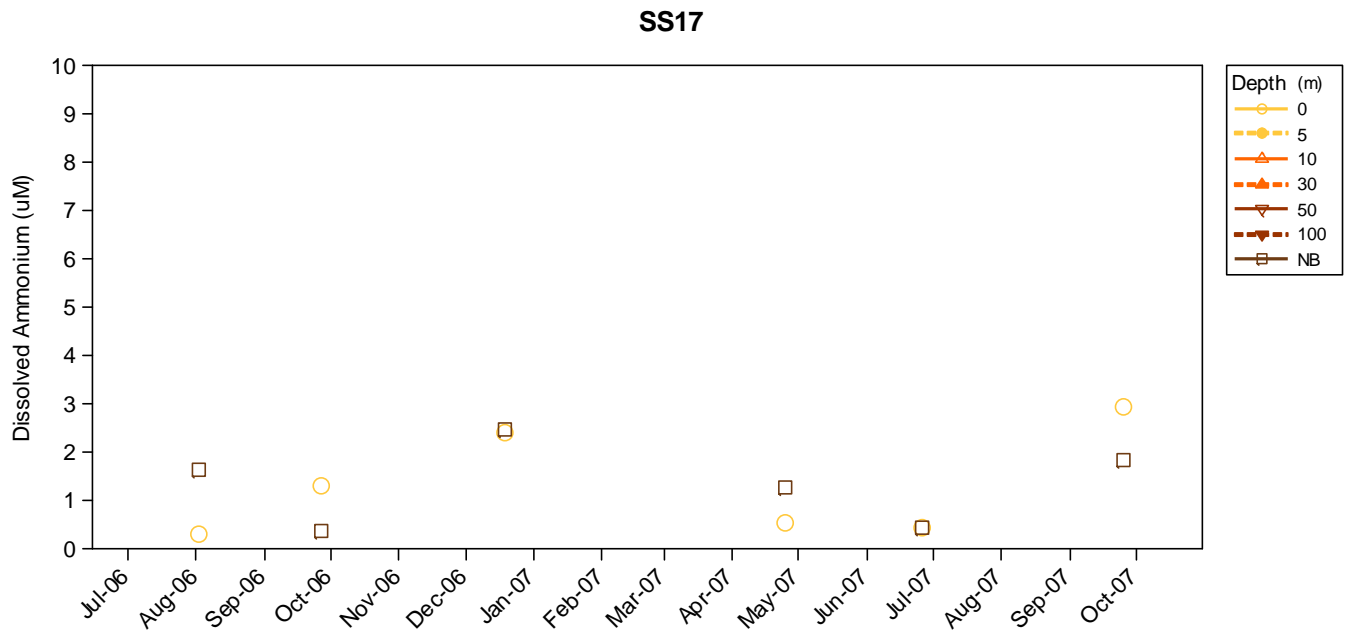


Figure C-117. Monthly ammonium (NH₄) concentrations from samples collected at South Sound station SS17 in inner Eld Inlet from July 2006 – October 2007.

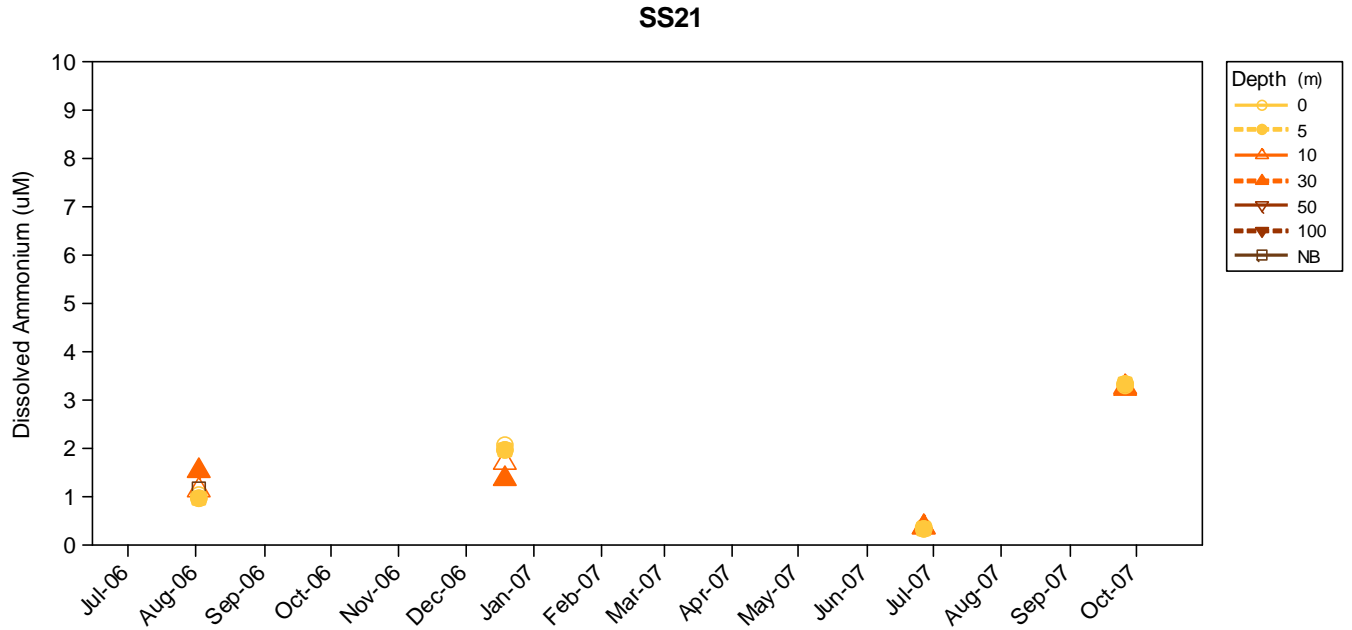


Figure C-118. Monthly ammonium (NH₄) concentrations from samples collected at South Sound station SS21 near outer Totten Inlet from July 2006 – October 2007.

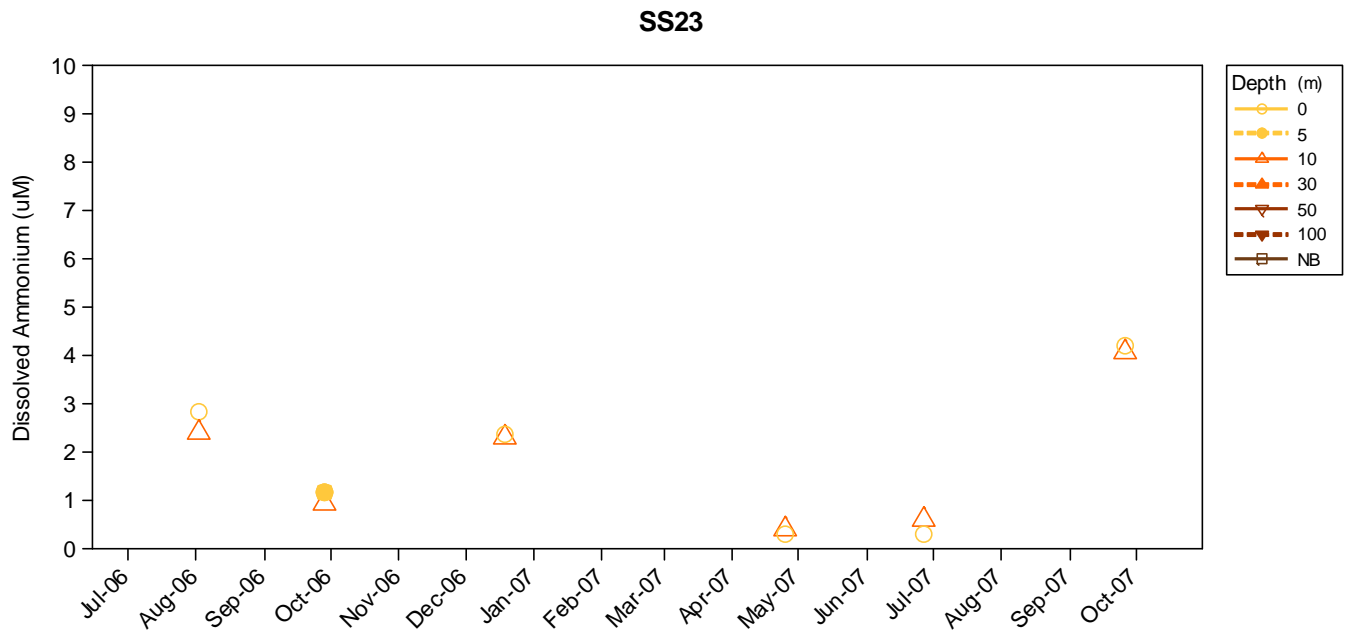


Figure C-119. Monthly ammonium (NH₄) concentrations from samples collected at South Sound station SS23 near central Totten Inlet from July 2006 – October 2007.

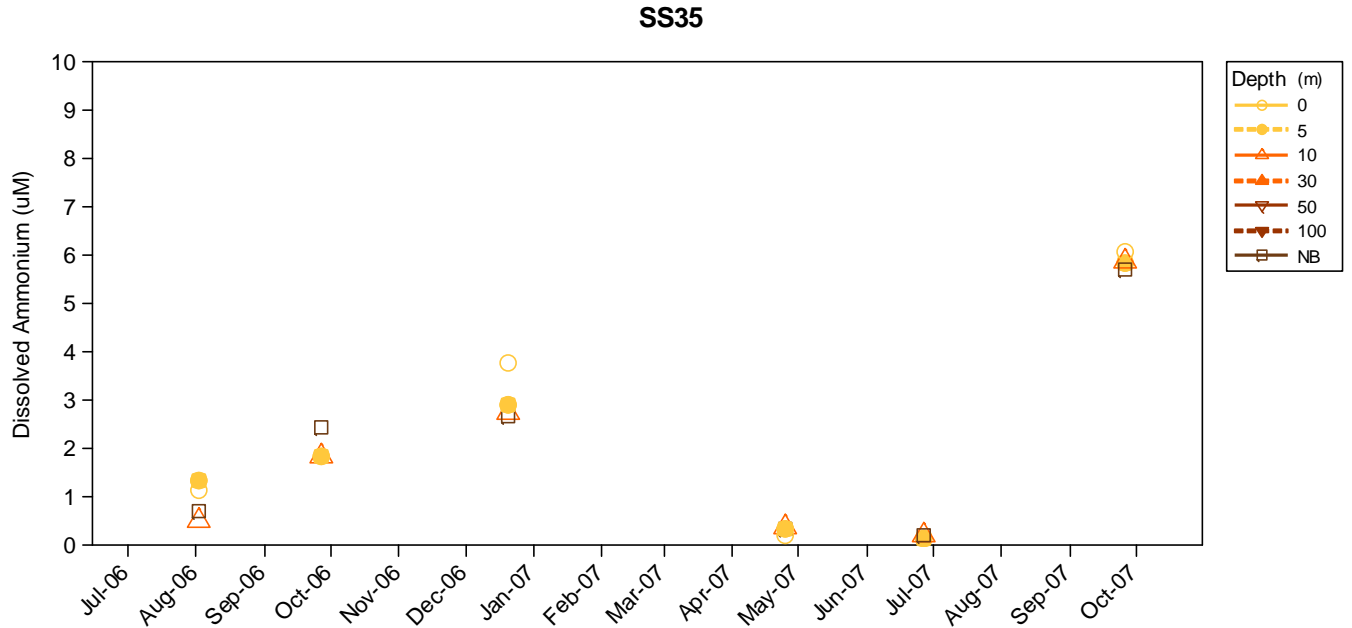


Figure C-120. Monthly ammonium (NH₄) concentrations from samples collected at South Sound station SS35 near the Port of Shelton in Oakland Bay from July 2006 – October 2007.

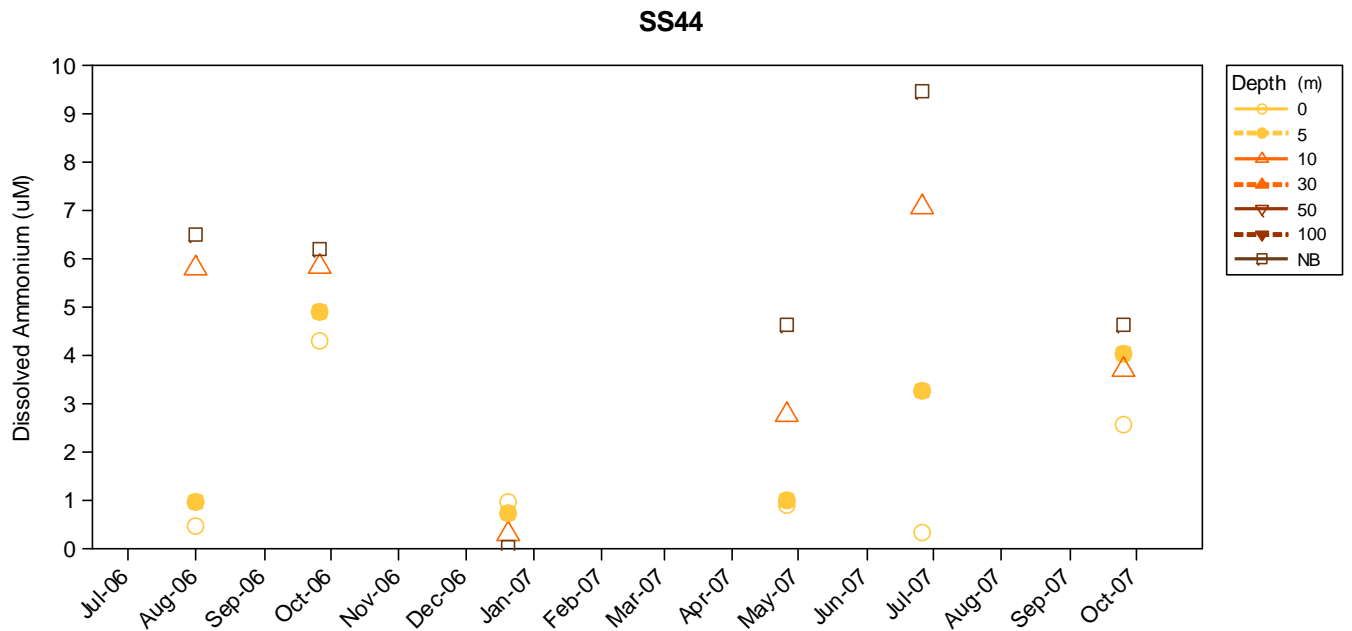


Figure C-121. Monthly ammonium (NH₄) concentrations from samples collected at South Sound station SS44 near North Pickering Passage from July 2006 – October 2007.

SS45

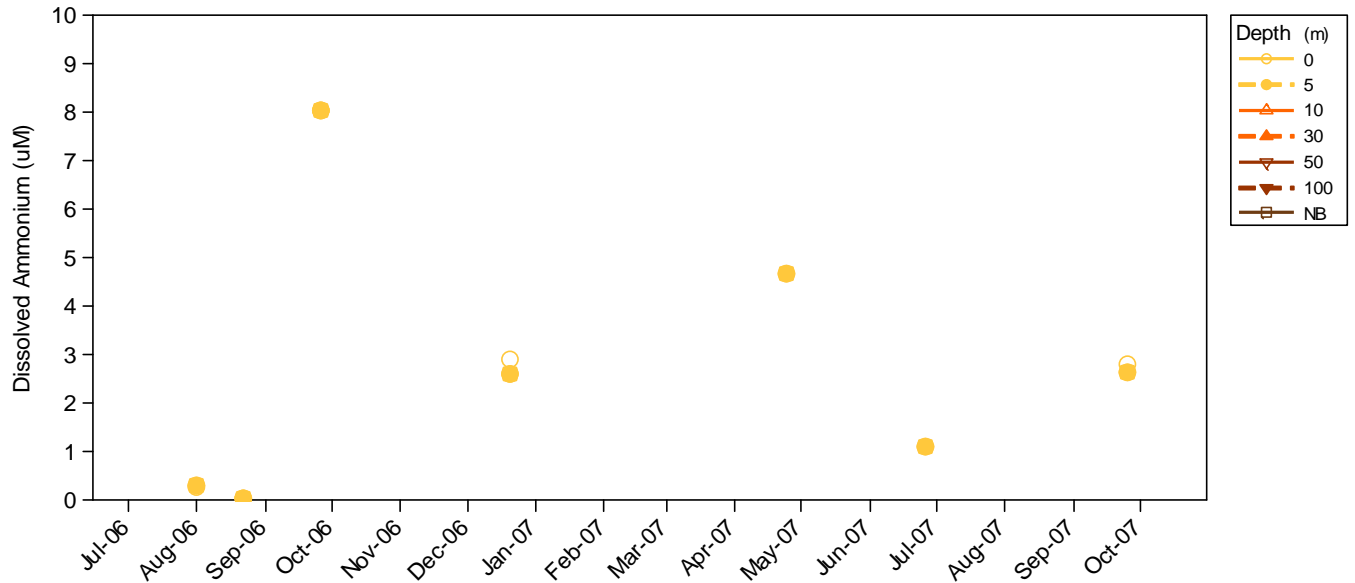


Figure C-122. Monthly ammonium (NH₄) concentrations from samples collected at South Sound station SS45 near inner Case Inlet from July 2006 – October 2007.

SS52

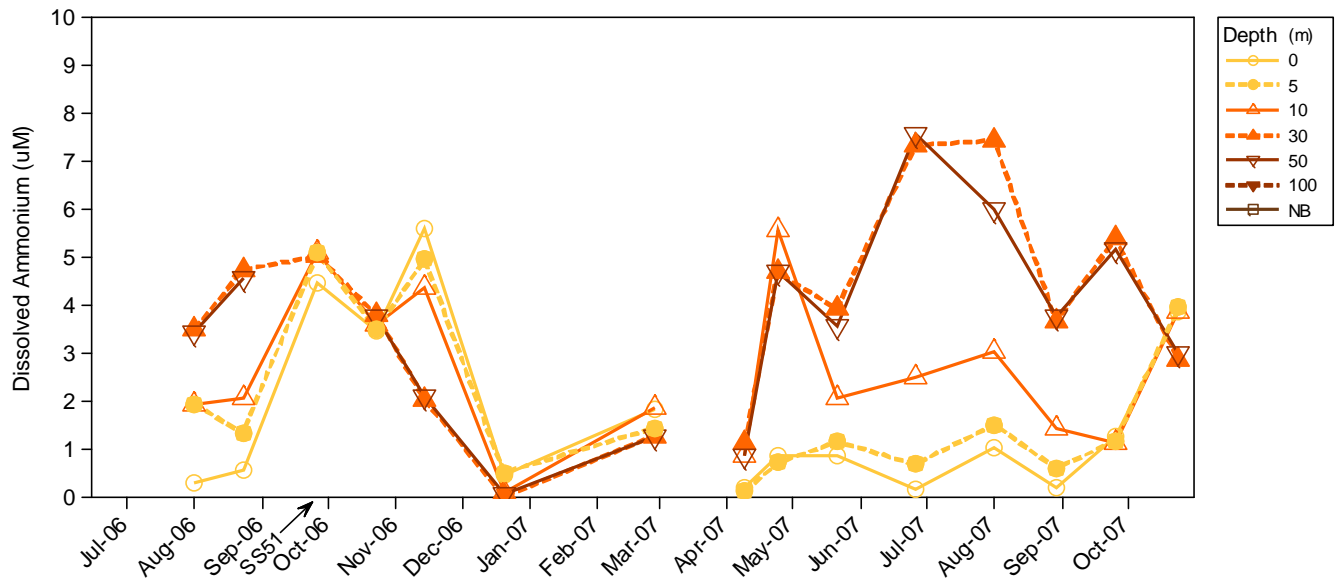


Figure C-123. Monthly ammonium (NH₄) concentrations from samples collected at South Sound station SS52 near central Case Inlet from July 2006 – October 2007.

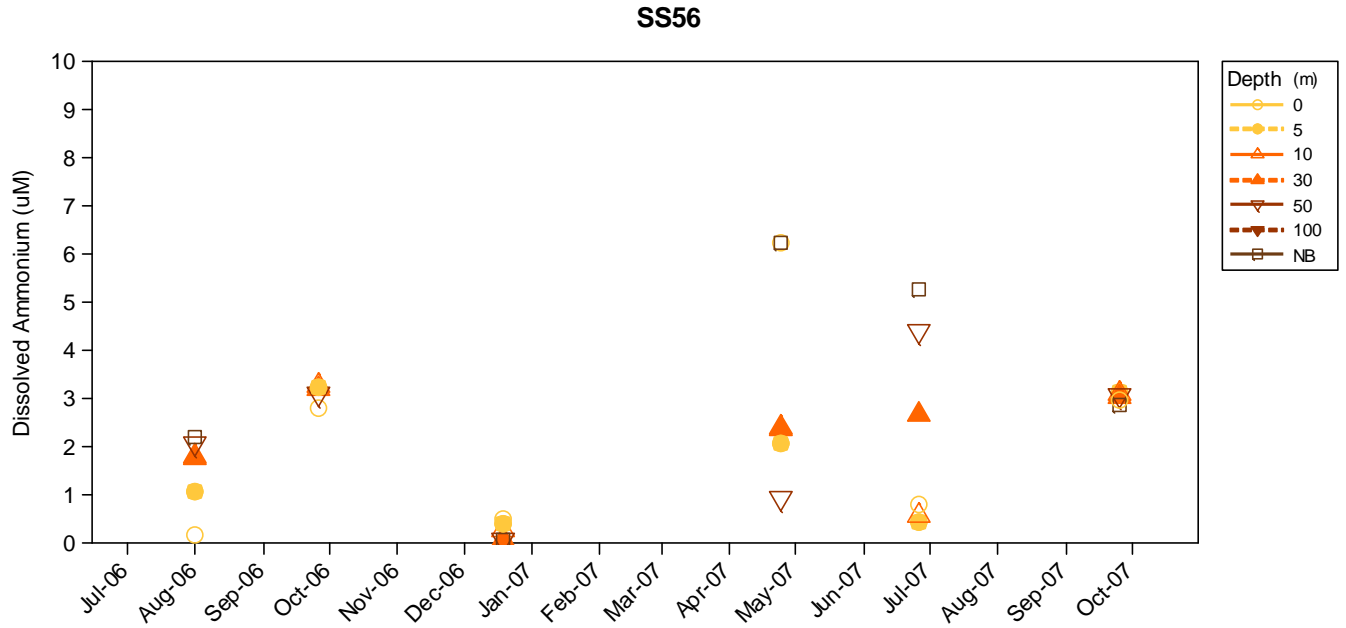


Figure C-124. Monthly ammonium (NH₄) concentrations from samples collected at South Sound station SS56 near South Case Inlet from July 2006 – October 2007.

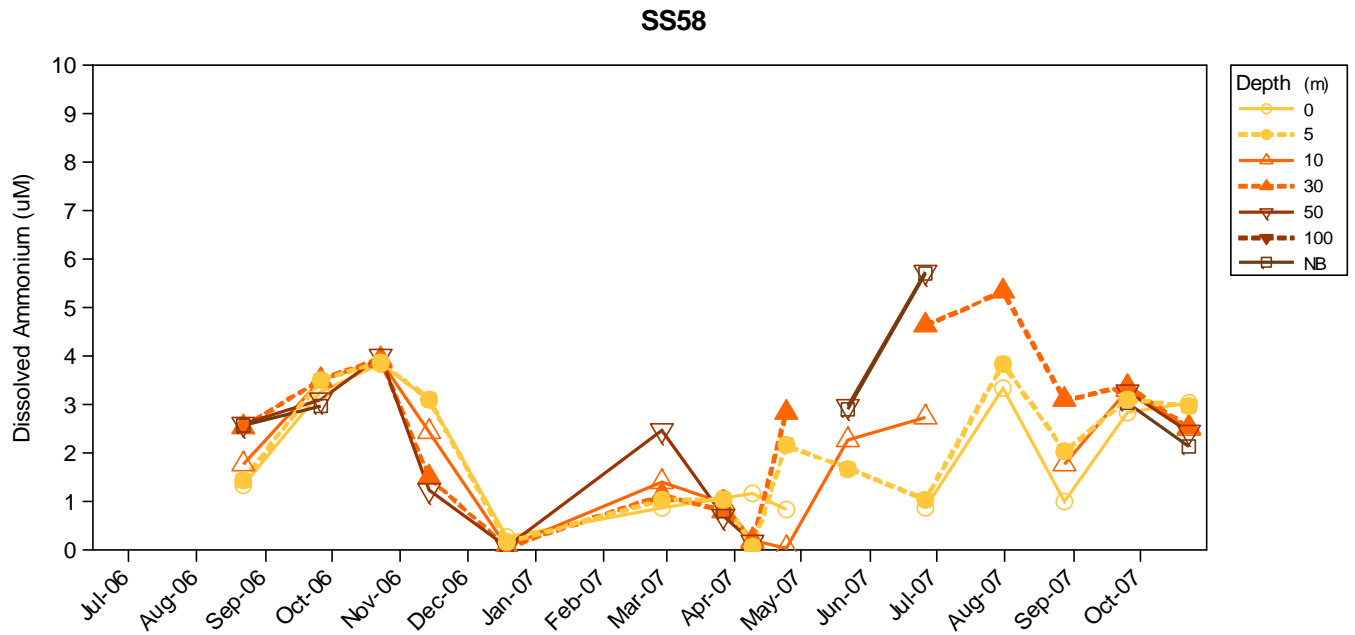


Figure C-125. Monthly ammonium (NH₄) concentrations from samples collected at South Sound station SS58 near South Case Inlet from July 2006 – October 2007.

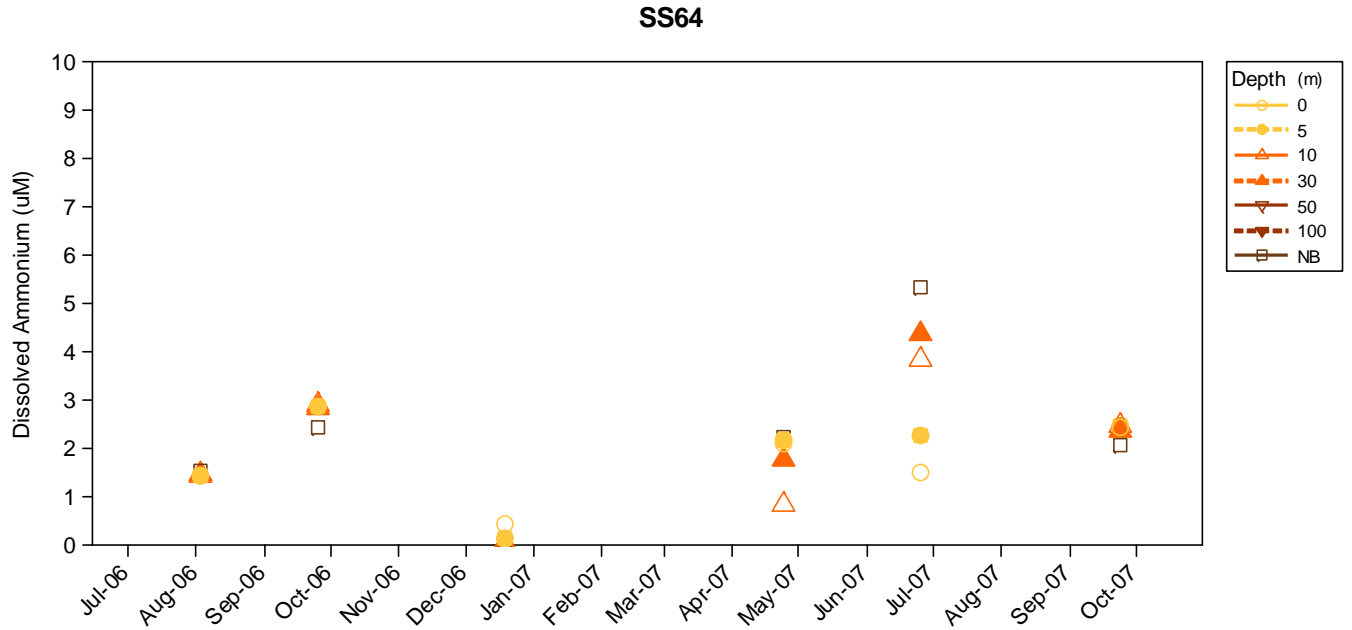


Figure C-126. Monthly ammonium (NH₄) concentrations from samples collected at South Sound station SS64 in Nisqually Reach from July 2006 – October 2007.

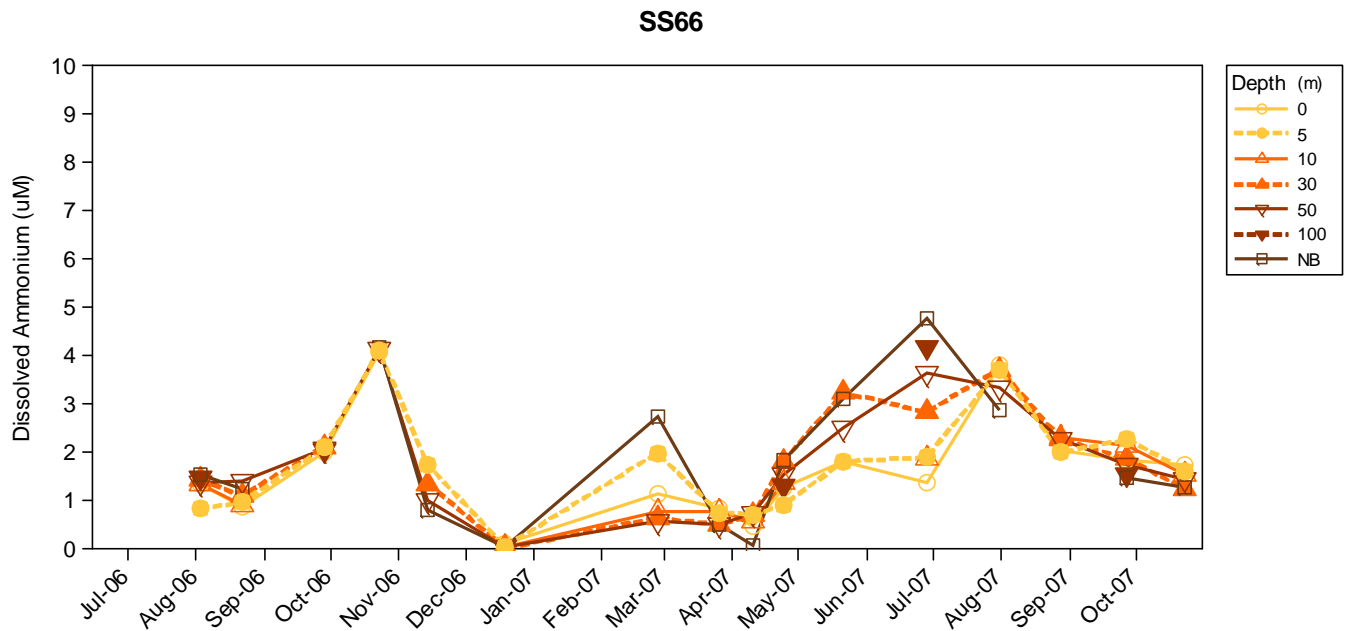


Figure C-127. Monthly ammonium (NH₄) concentrations from samples collected at South Sound station SS66 near Steilacoom from July 2006 – October 2007.

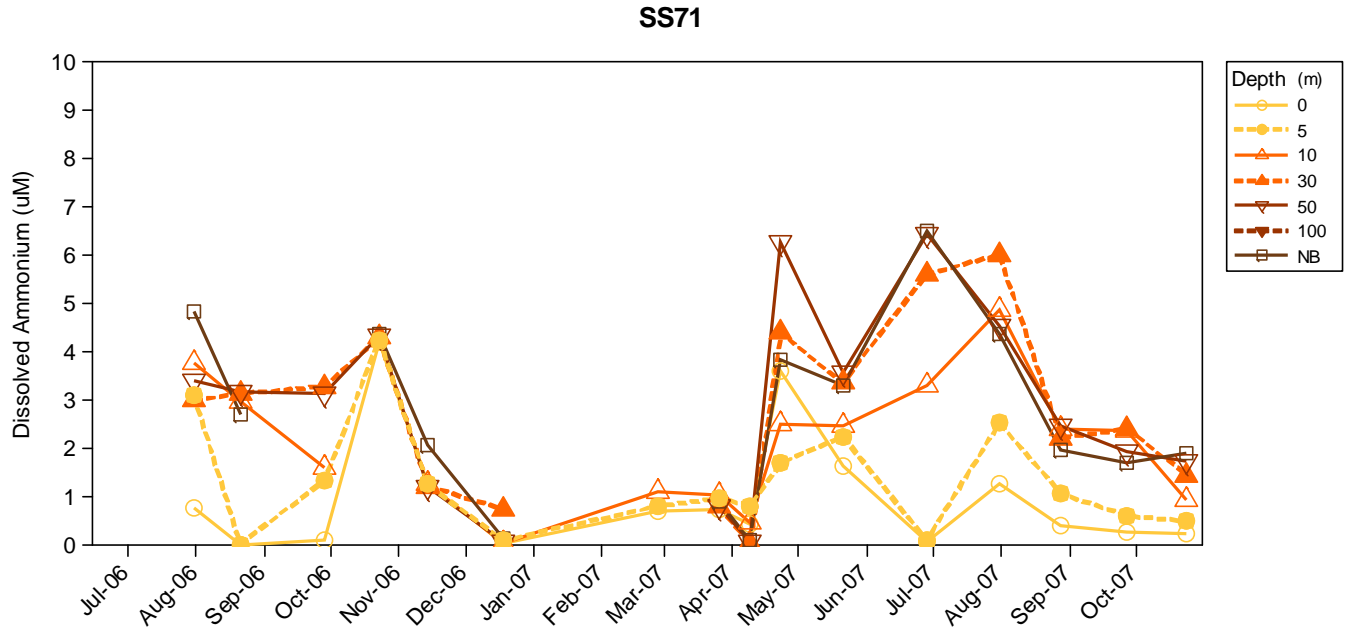


Figure C-128. Monthly ammonium (NH₄) concentrations from samples collected at South Sound station SS71 in Central Carr Inlet from July 2006 – October 2007.

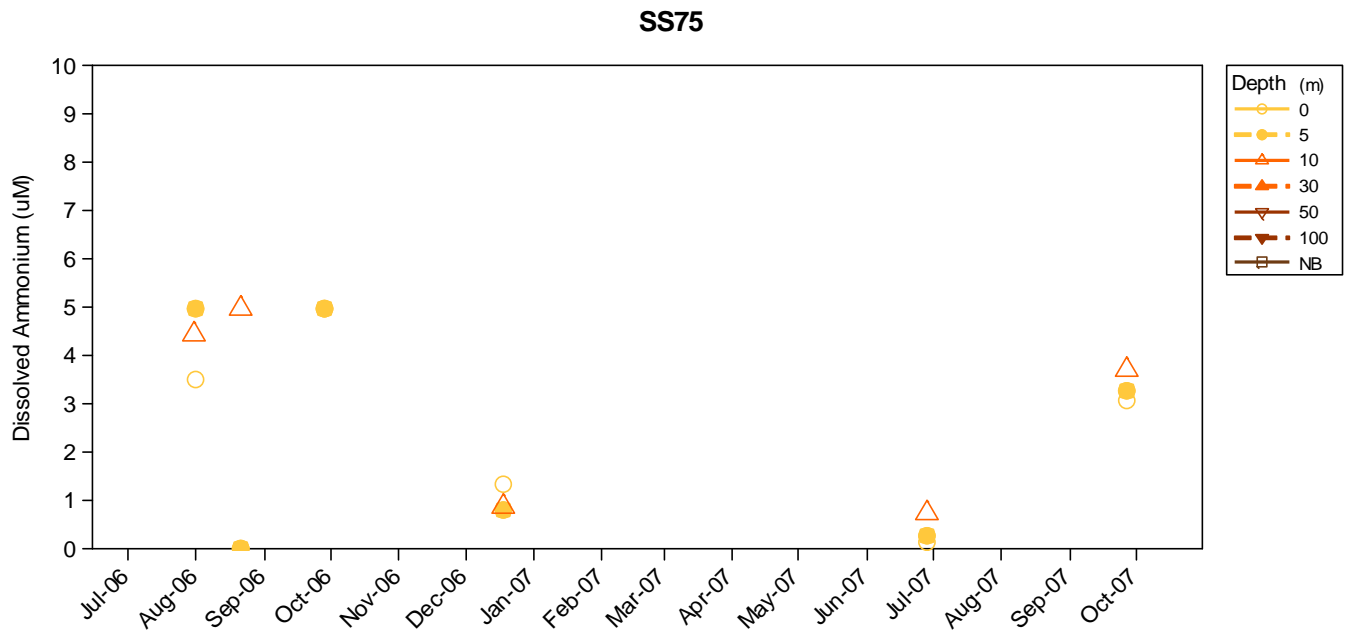


Figure C-129. Monthly ammonium (NH₄) concentrations from samples collected at South Sound station SS75 in North inner Carr from July 2006 – October 2007.

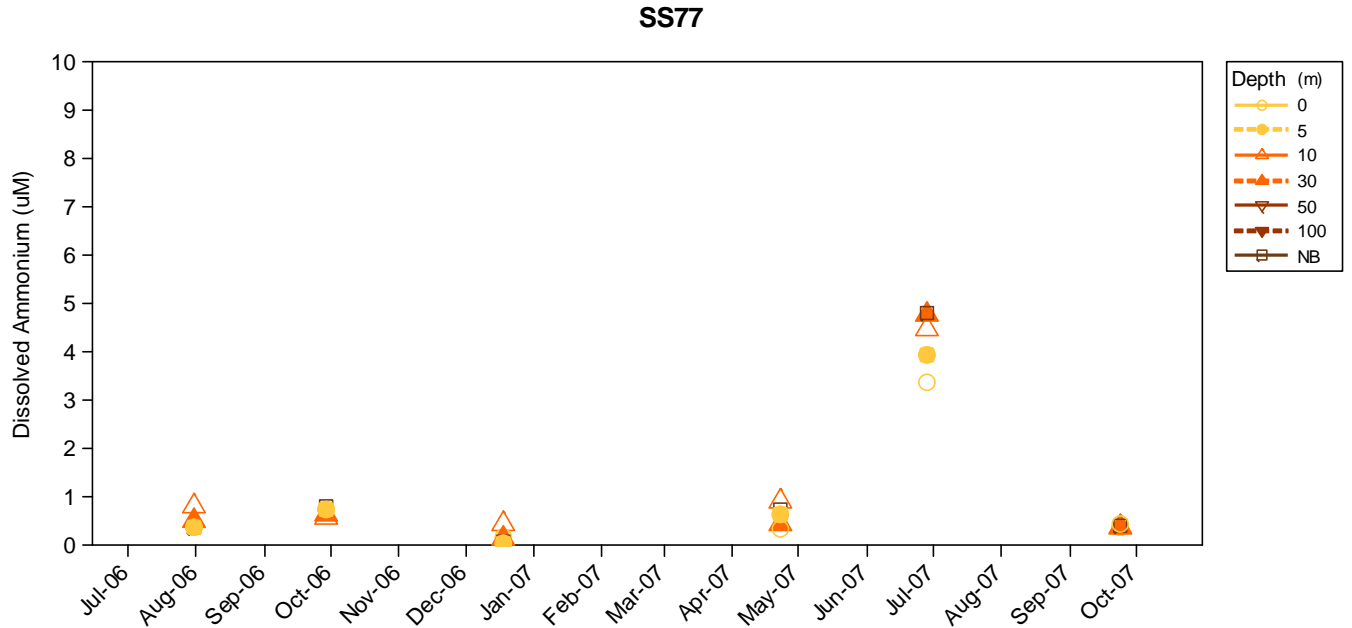


Figure C-130. Monthly ammonium (NH₄) concentrations from samples collected at South Sound station SS77 near the Tacoma Narrows from July 2006 – October 2007.

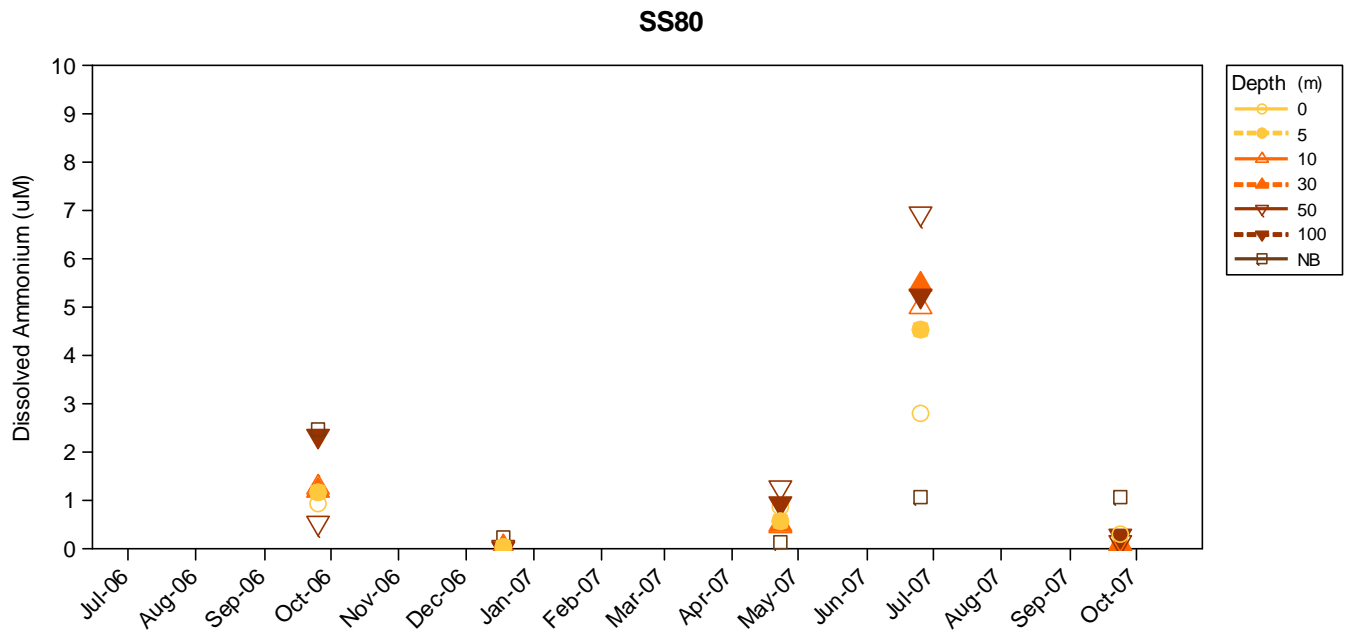


Figure C-131. Monthly ammonium (NH₄) concentrations from samples collected at South Sound station SS80 near Dalco Passage from July 2006 – October 2007.

Orthophosphate

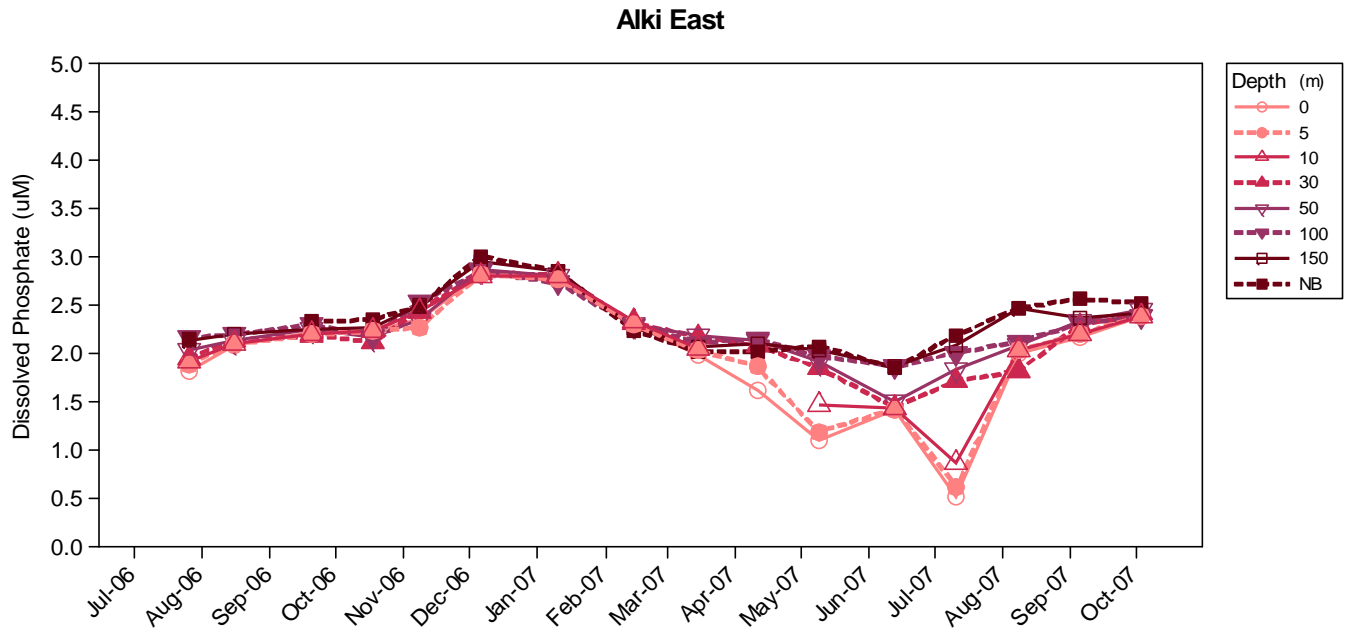


Figure C-132. Monthly orthophosphate (PO₄) concentrations from samples collected at boundary station Alki East near South Seattle from July 2006 – October 2007.

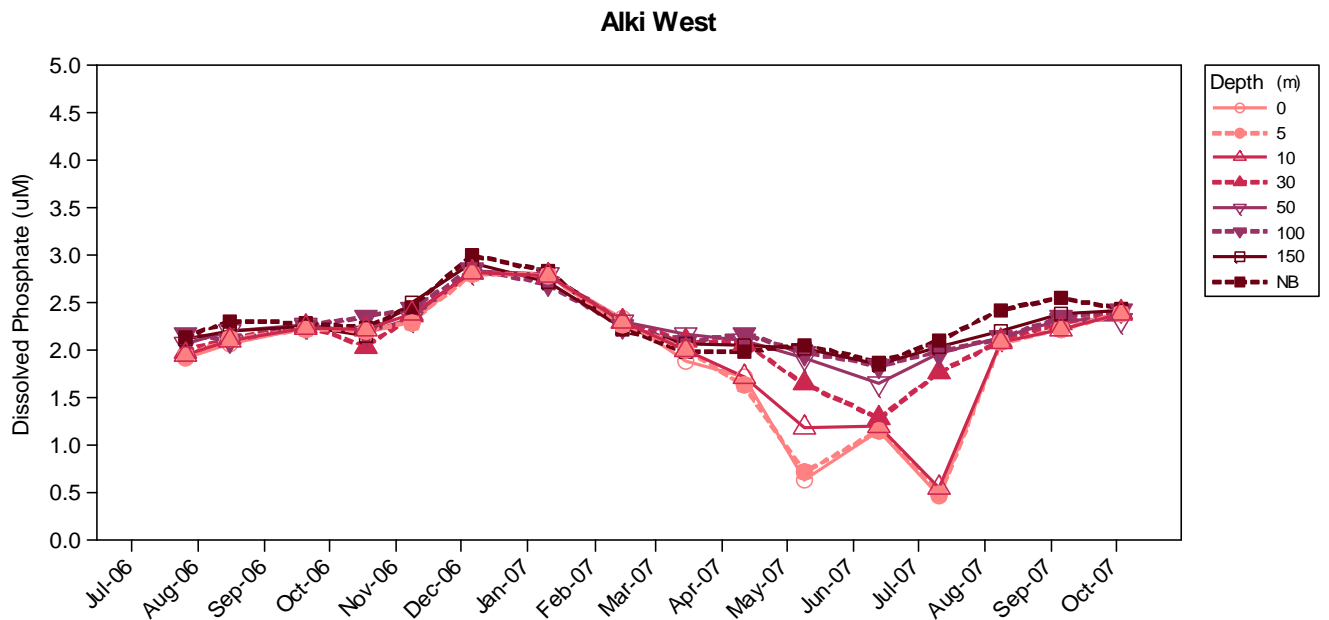


Figure C-133. Monthly orthophosphate (PO₄) concentrations from samples collected at boundary station Alki West near South Seattle from July 2006 – October 2007.

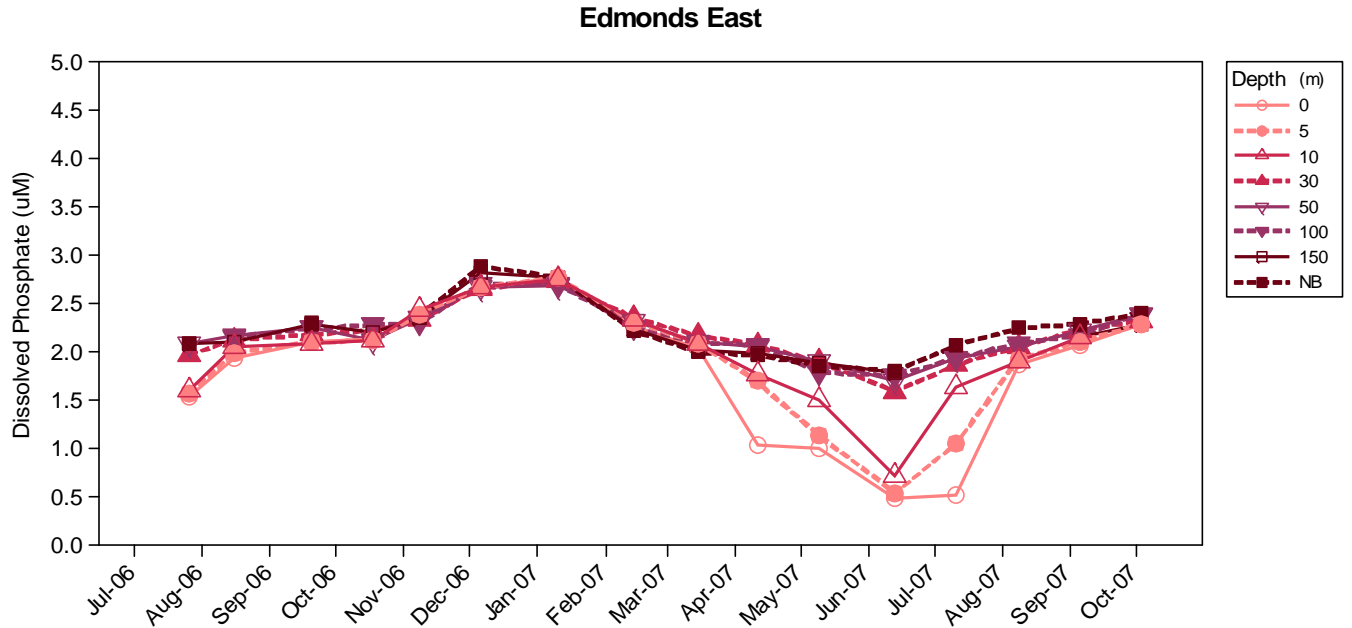


Figure C-134. Monthly orthophosphate (PO₄) concentrations from samples collected at boundary station Edmonds East in the central Basin from July 2006 – October 2007.

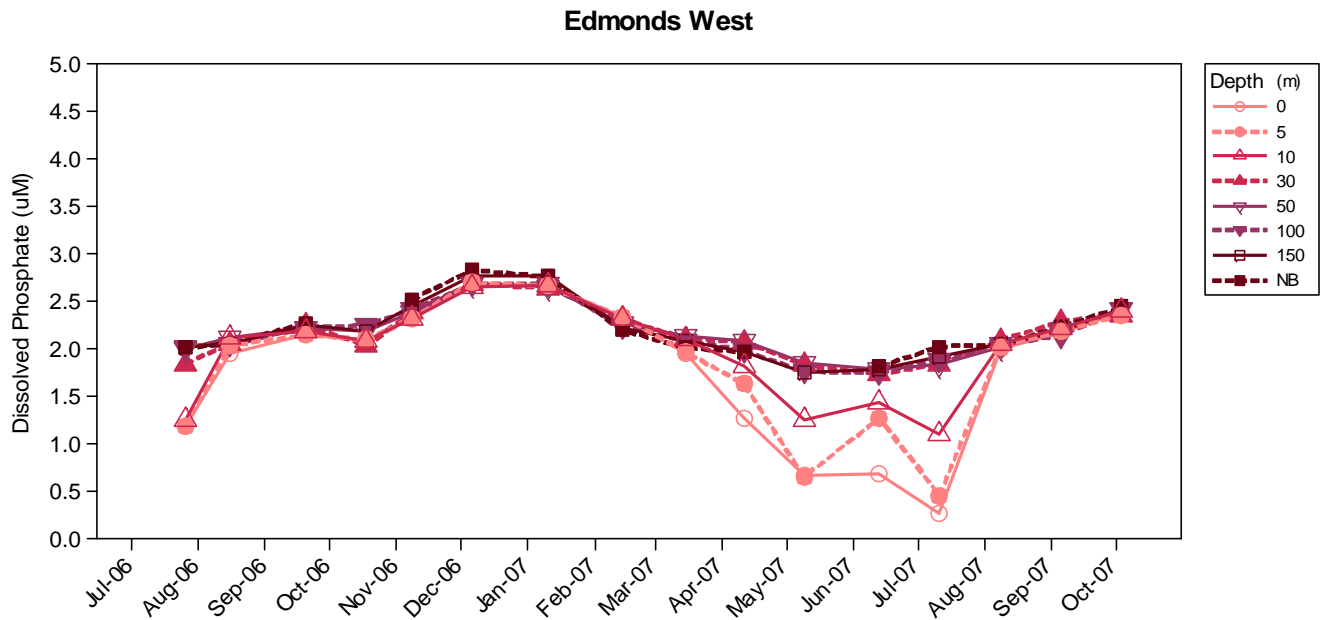


Figure C-135. Monthly orthophosphate (PO₄) concentrations from samples collected at boundary station Edmonds West in the central Basin from July 2006 – October 2007.

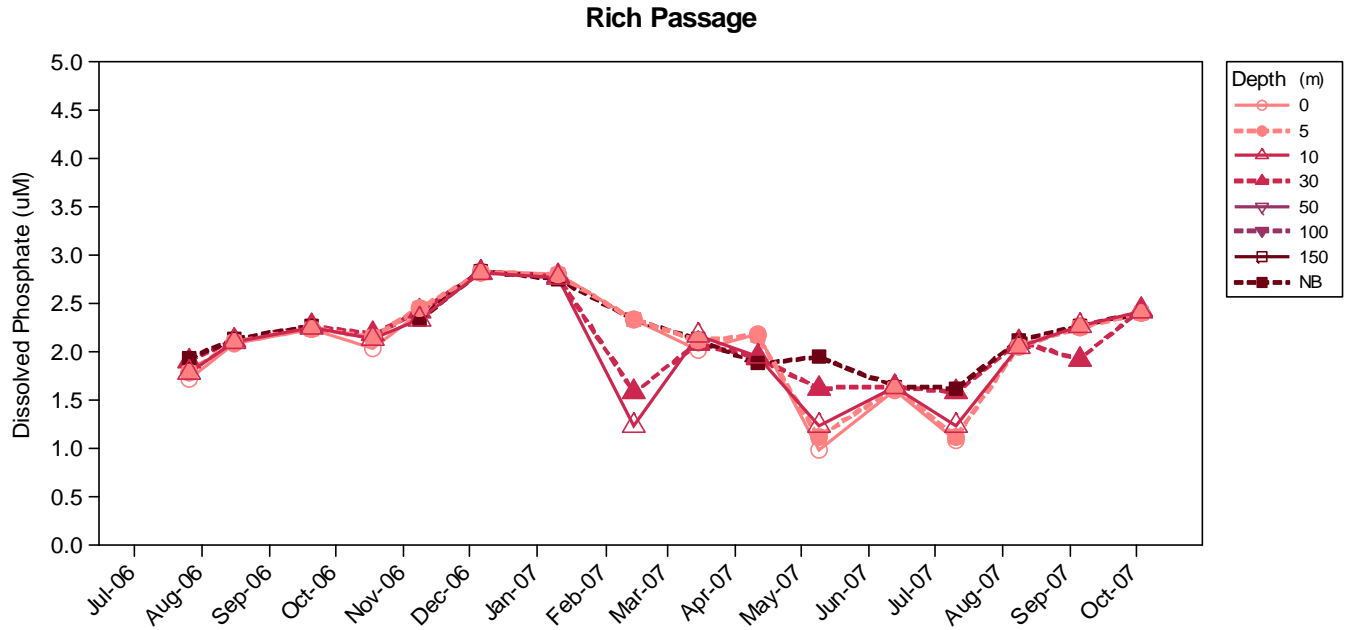


Figure C-136. Monthly orthophosphate (PO₄) concentrations from samples collected at boundary station Rich Passage from July 2006 – October 2007.

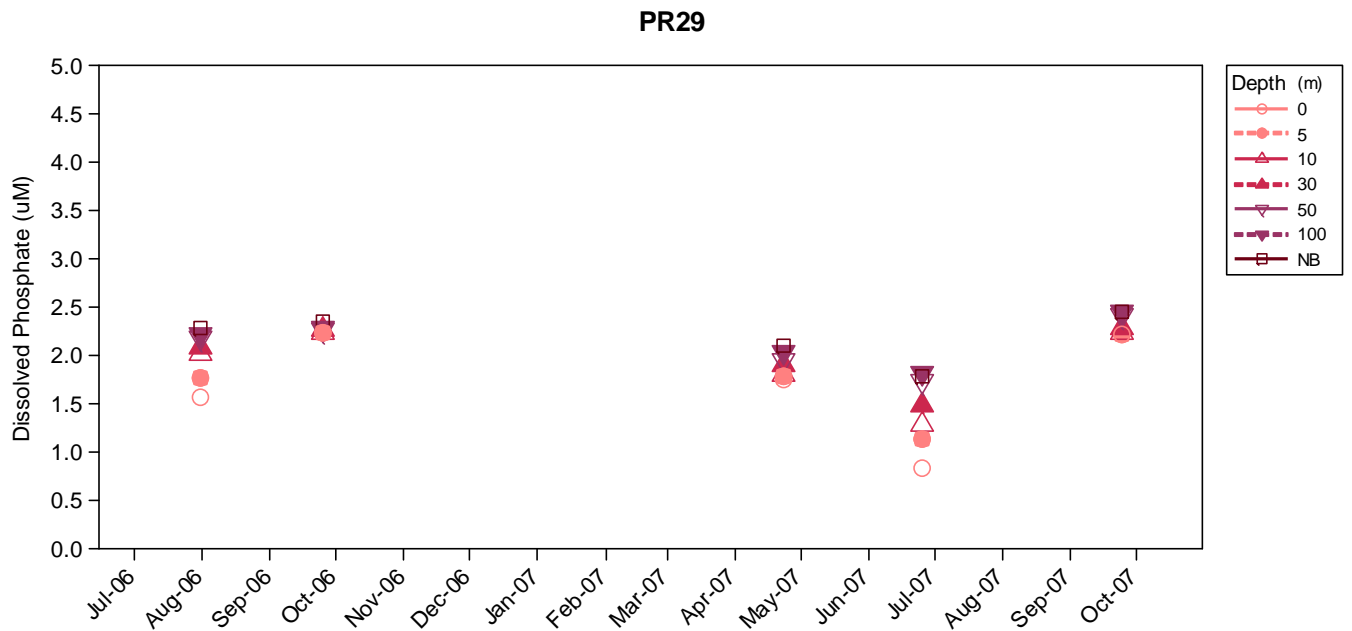


Figure C-137. Monthly orthophosphate (PO₄) concentrations from samples collected at station PR29 near Blake Island from July 2006 – October 2007.

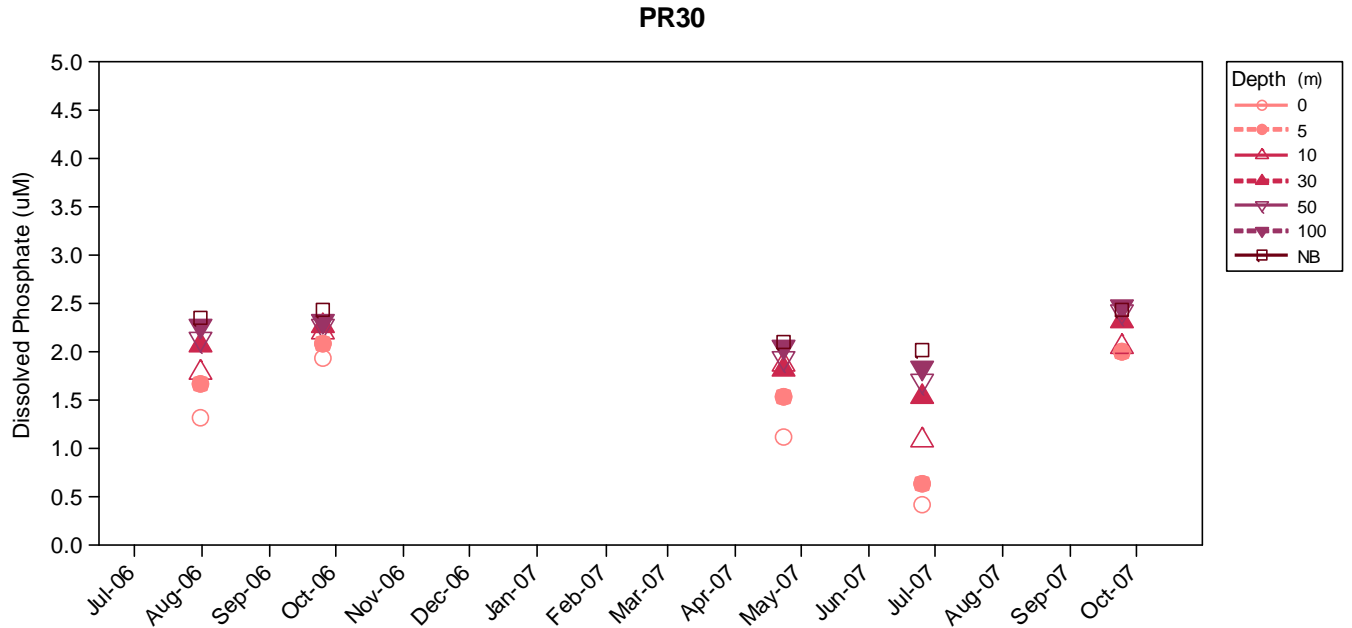


Figure C-138. Monthly orthophosphate (P04) concentrations from samples collected at station PR30 in East Passage from July 2006 – October 2007.

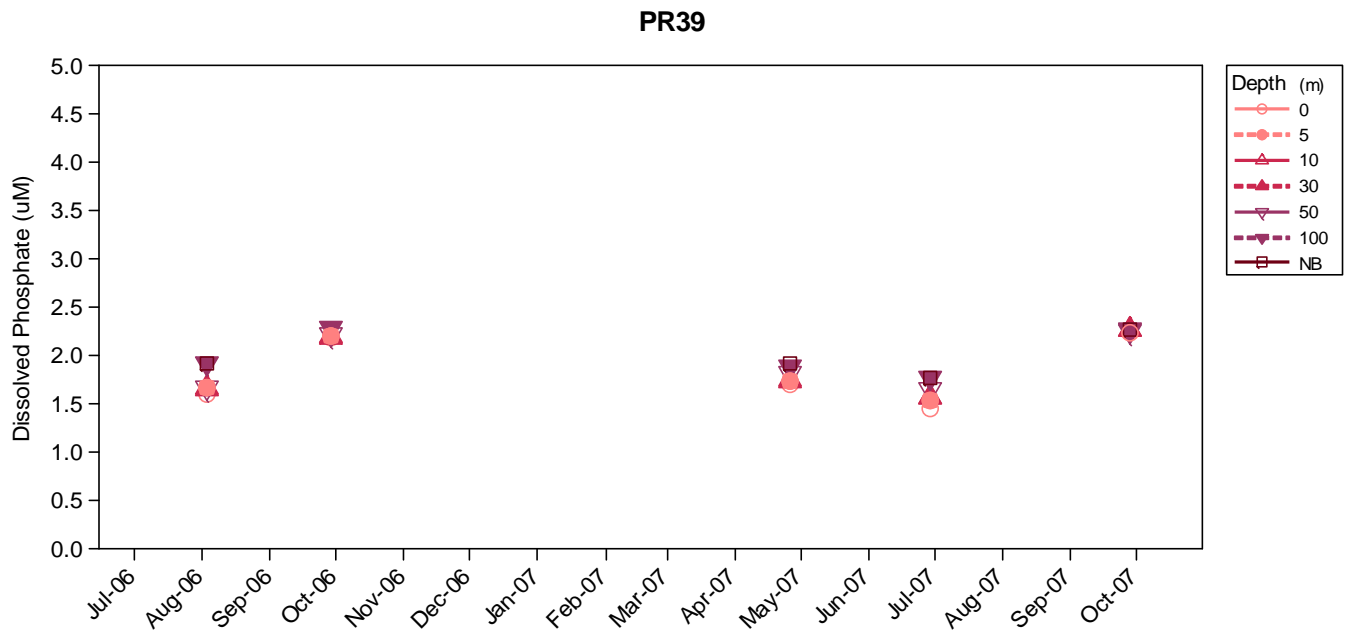


Figure C-139. Monthly orthophosphate (PO4) concentrations from samples collected at station PR39 in Colvos Passage from July 2006 – October 2007.

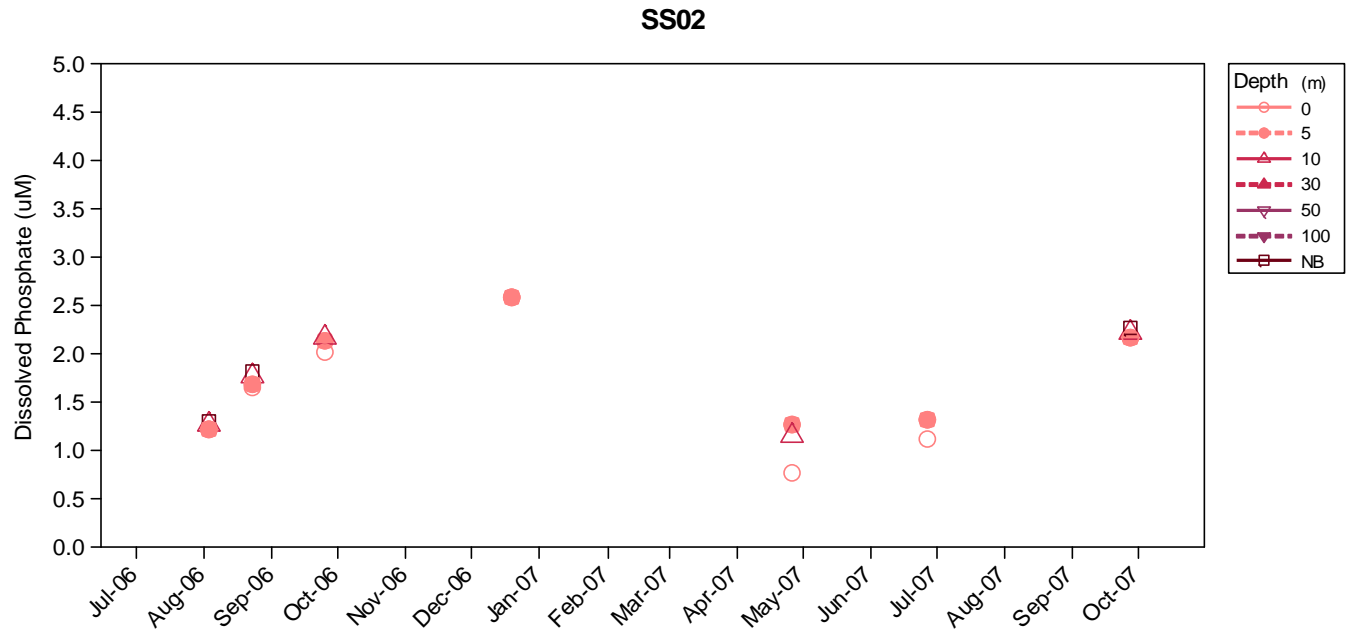


Figure C-140. Monthly orthophosphate (PO₄) concentrations from samples collected at South Sound station SS02 in upper Henderson Inlet from July 2006 – October 2007.

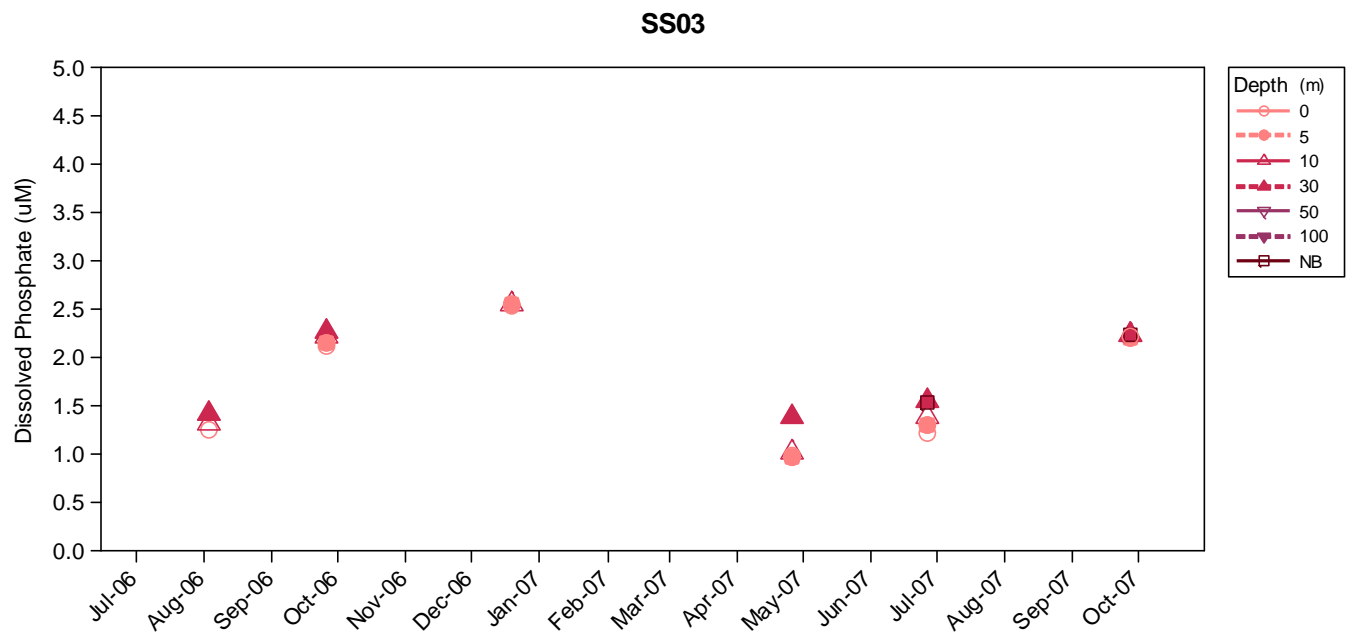


Figure C-141. Monthly orthophosphate (PO₄) concentrations from samples collected at South Sound station SS03 in Dana Passage from July 2006 – October 2007.

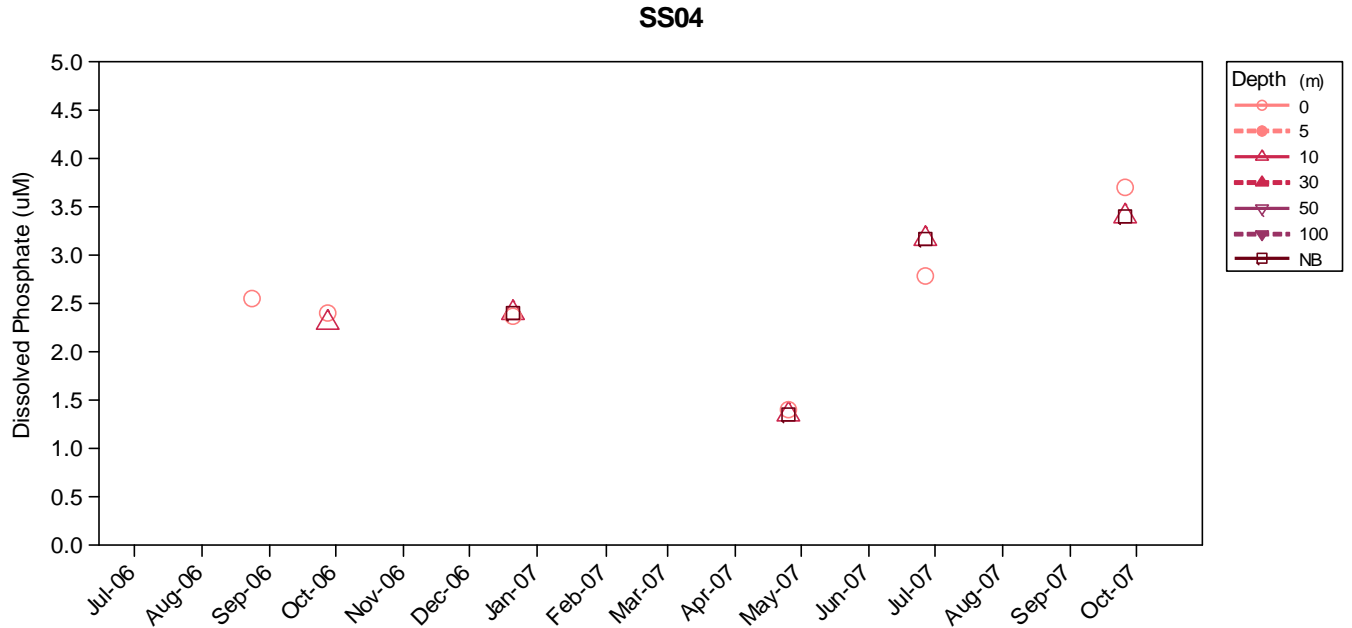


Figure C-142. Monthly orthophosphate (PO₄) concentrations from samples collected at South Sound station SS04 in South Budd Inlet from July 2006 – October 2007.

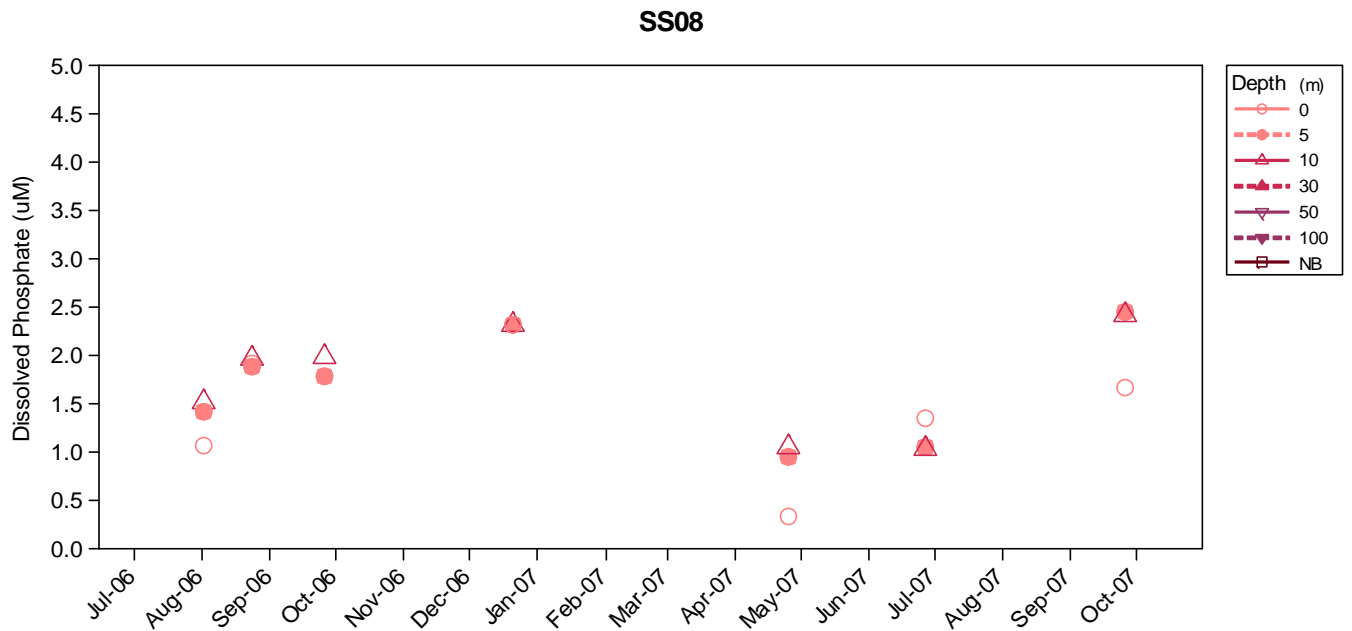


Figure C-143. Monthly orthophosphate (PO₄) concentrations from samples collected at South Sound station SS08 in Central Budd Inlet from July 2006 – October 2007.

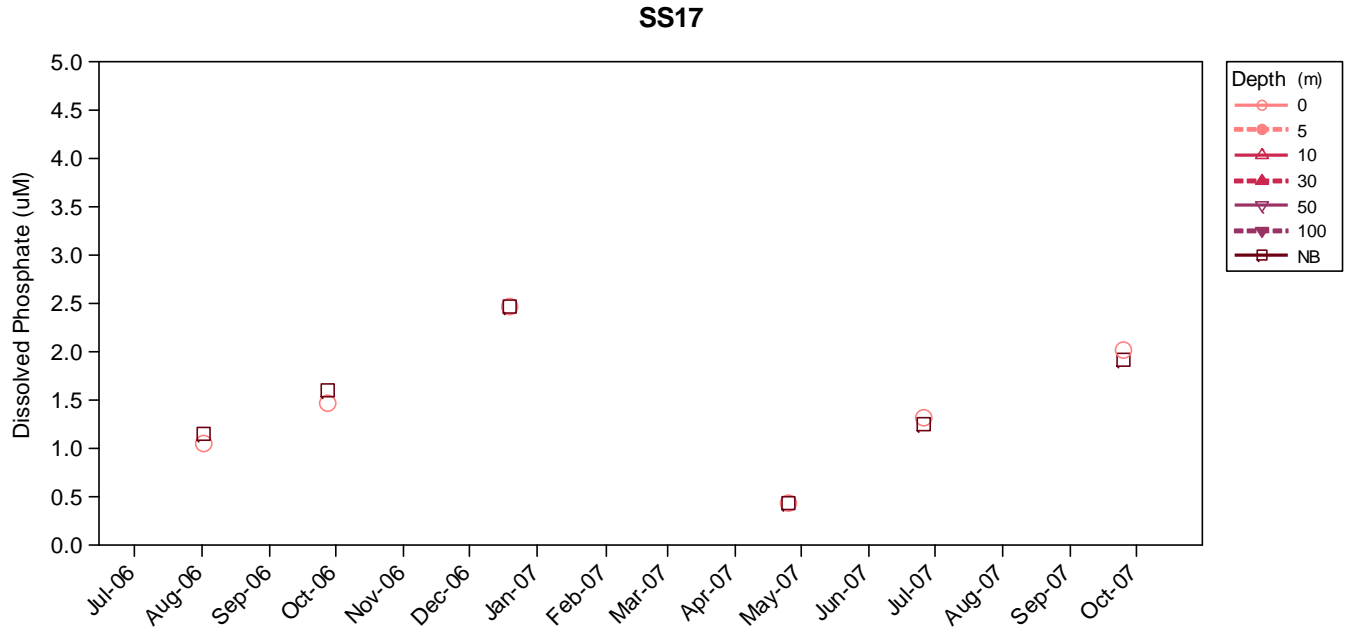


Figure C-144. Monthly orthophosphate (PO₄) concentrations from samples collected at South Sound station SS17 inner Eld Inlet from July 2006 – October 2007.

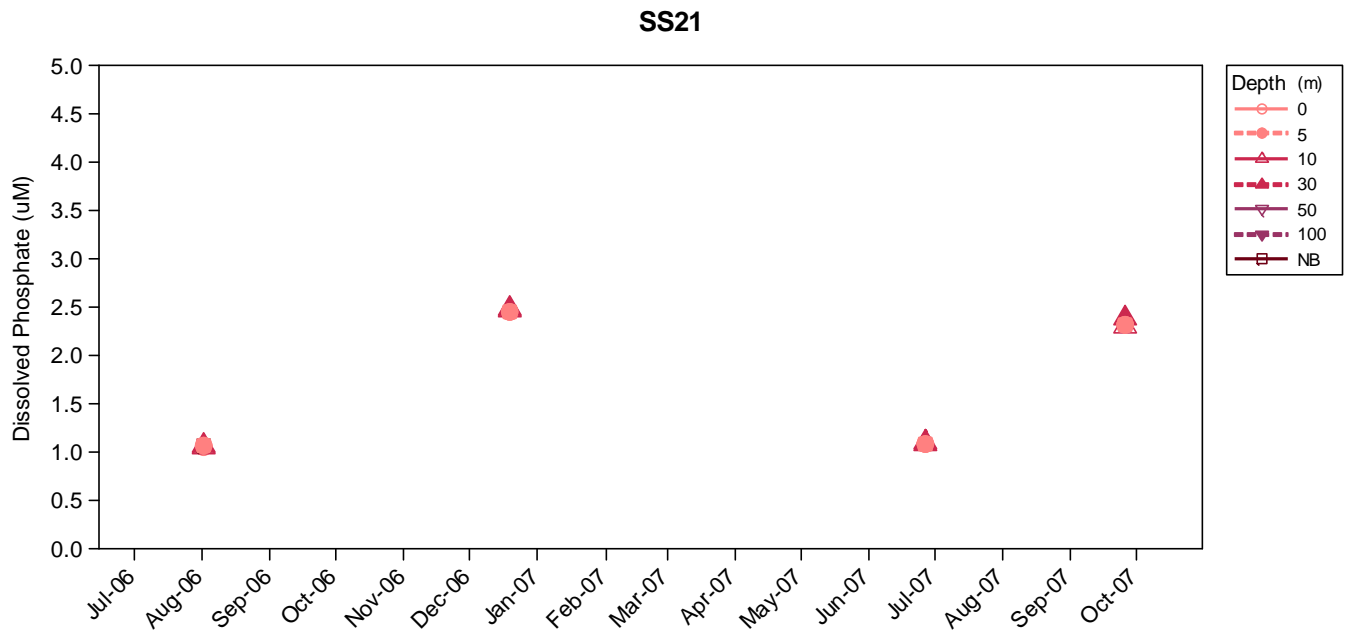


Figure C-145. Monthly orthophosphate (PO₄) concentrations from samples collected at South Sound station SS21 near outer Totten Inlet from July 2006 – October 2007.

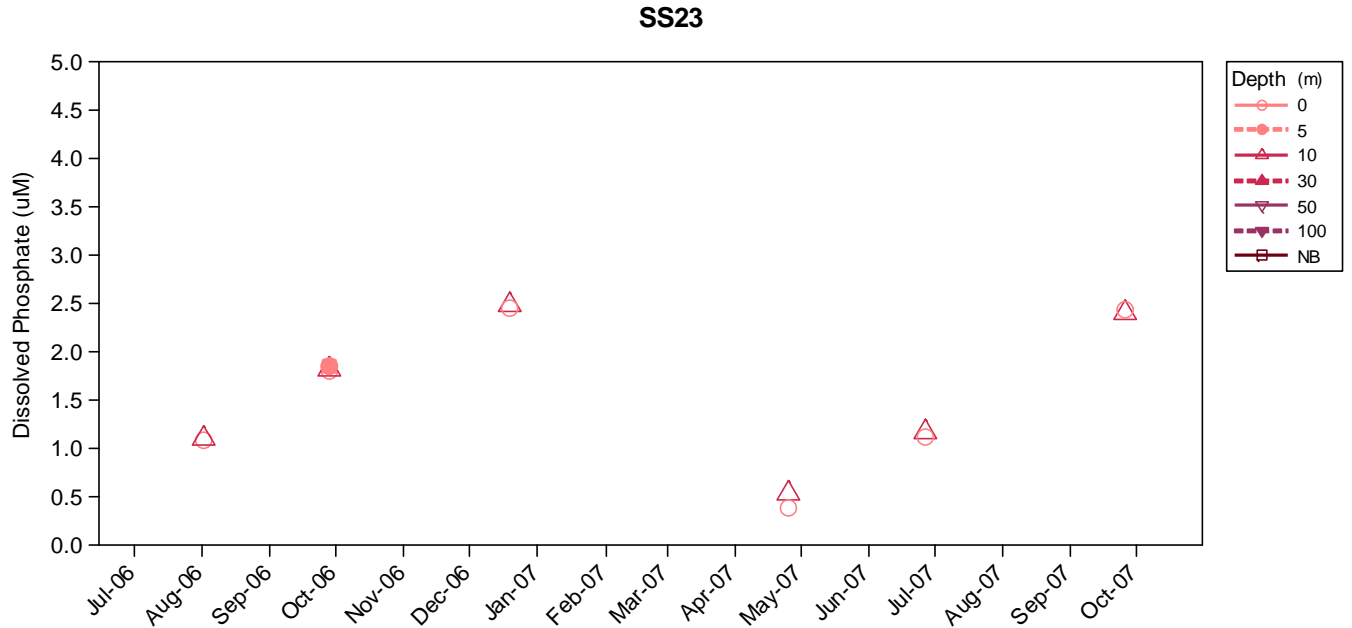


Figure C-146. Monthly orthophosphate (PO₄) concentrations from samples collected at South Sound station SS23 near central Totten Inlet from July 2006 – October 2007.

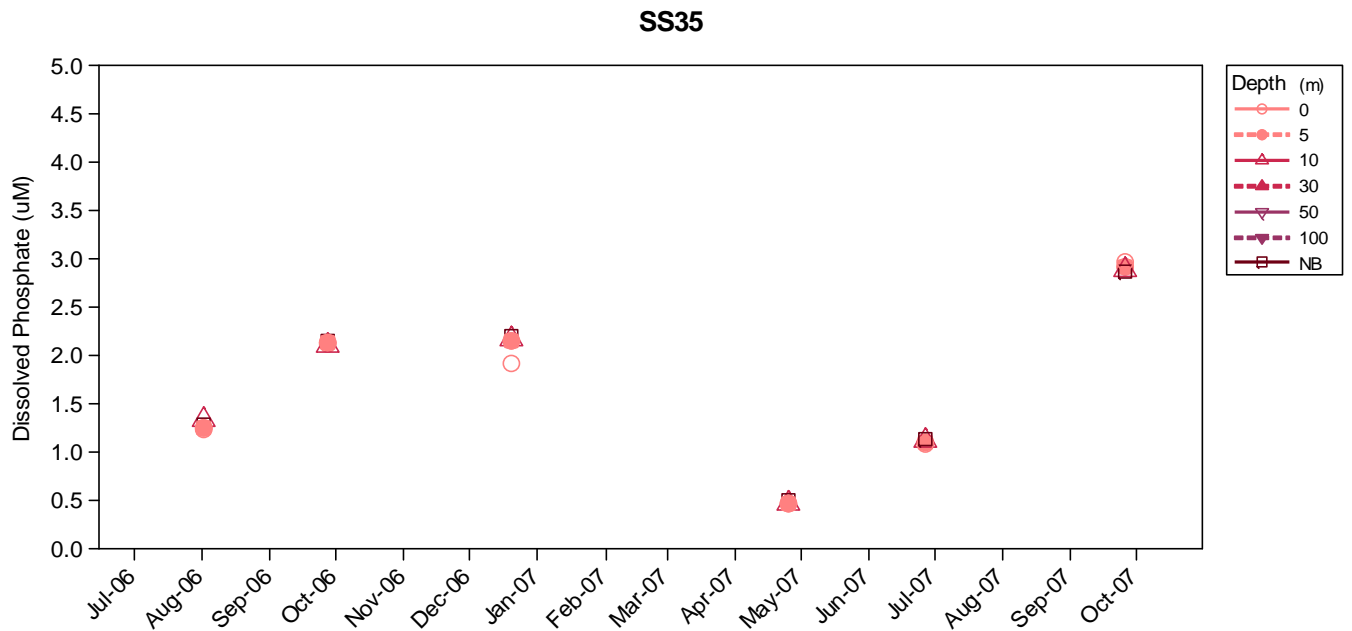


Figure C-147. Monthly orthophosphate (PO₄) concentrations from samples collected at South Sound station SS35 near the Port of Shelton in Oakland Bay from July 2006 – October 2007.

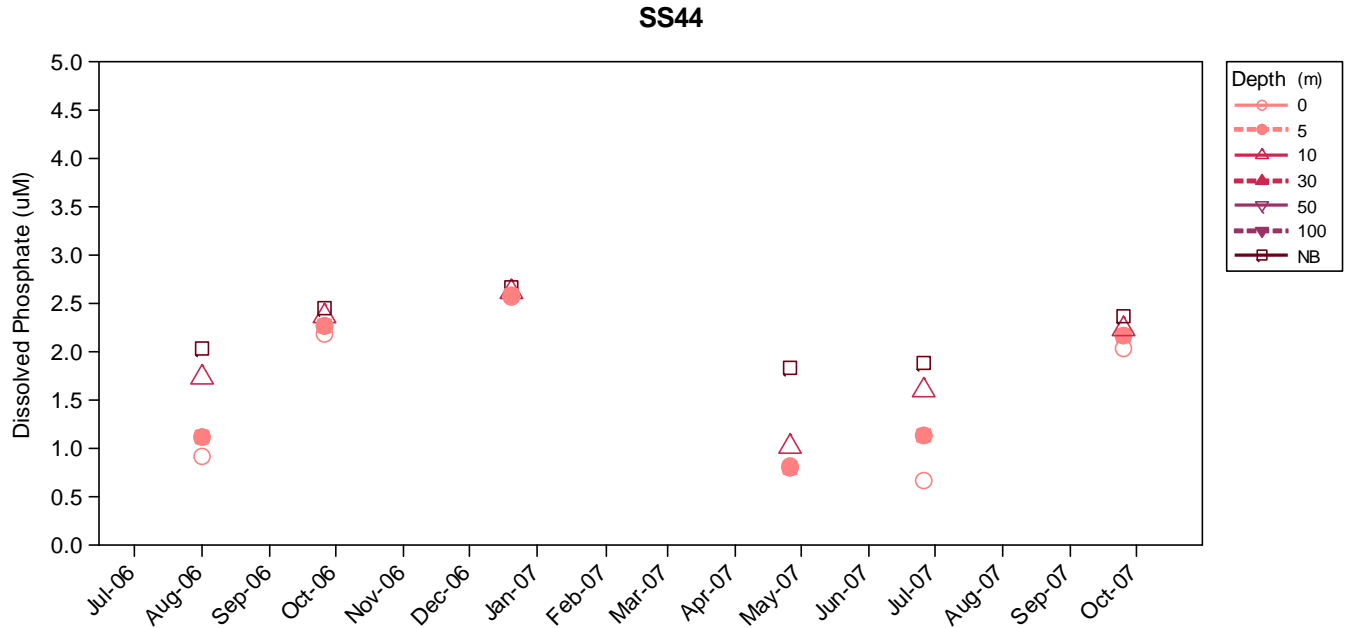


Figure C-148. Monthly orthophosphate (PO₄) concentrations from samples collected at South Sound station SS44 near North Pickering Passage from July 2006 – October 2007.

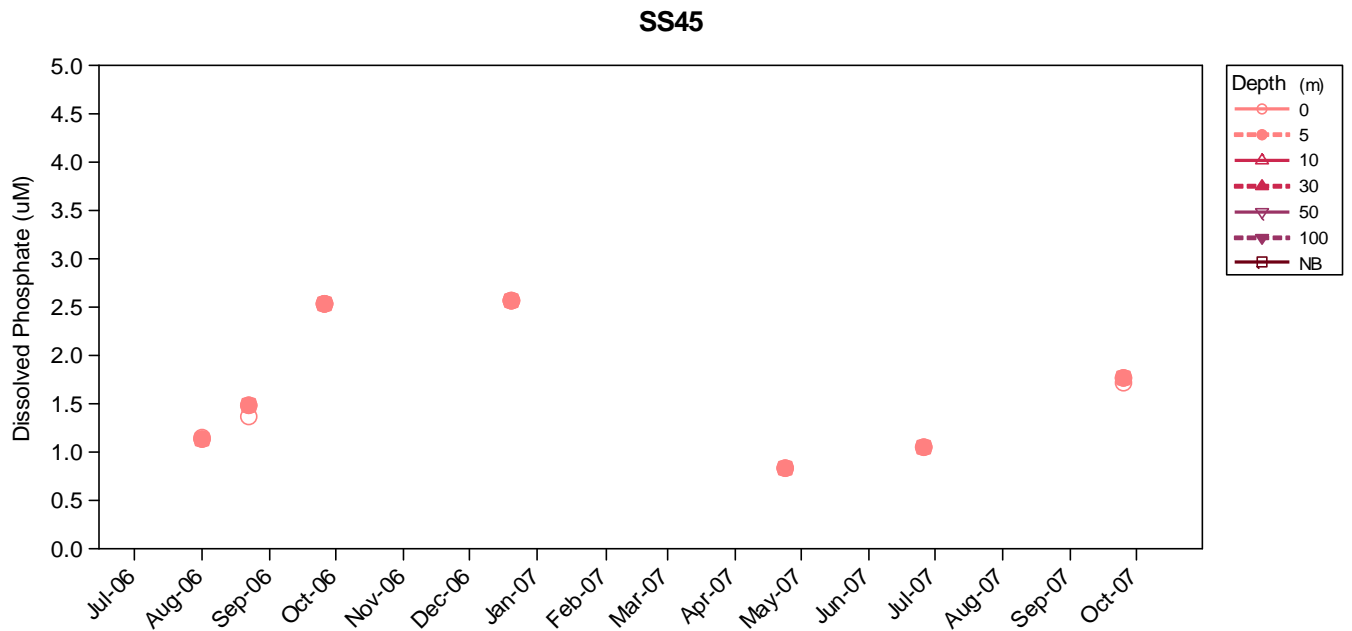


Figure C-149. Monthly orthophosphate (PO₄) concentrations from samples collected at South Sound station SS45 near inner Case Inlet from July 2006 – October 2007.

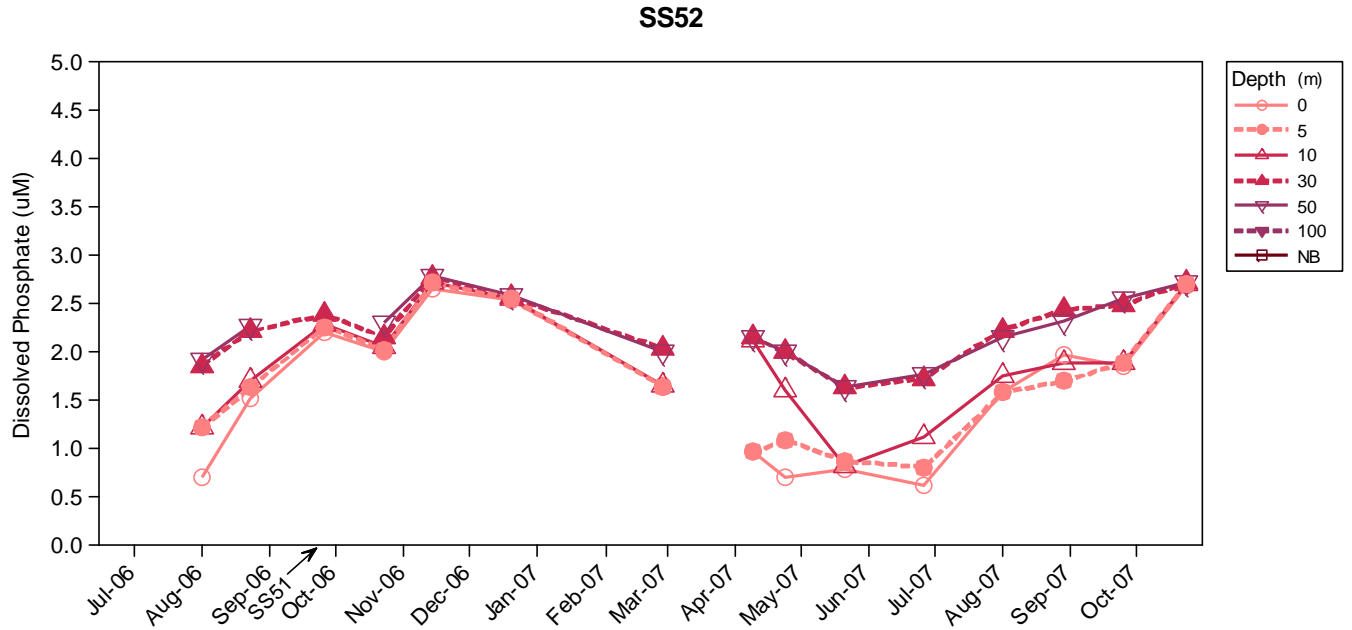


Figure C-150. Monthly orthophosphate (PO₄) concentrations from samples collected at South Sound station SS52 near central Case Inlet from July 2006 – October 2007.

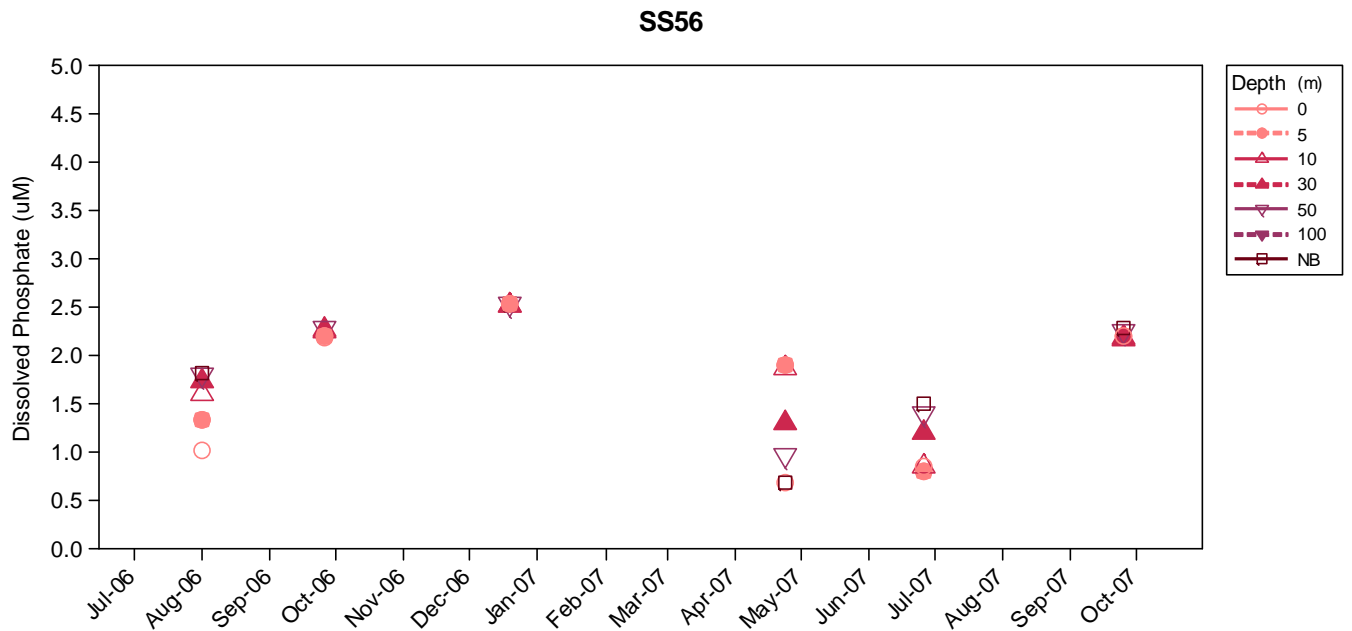


Figure C-151. Monthly orthophosphate (PO₄) concentrations from samples collected at South Sound station SS56 near South Case Inlet from July 2006 – October 2007.

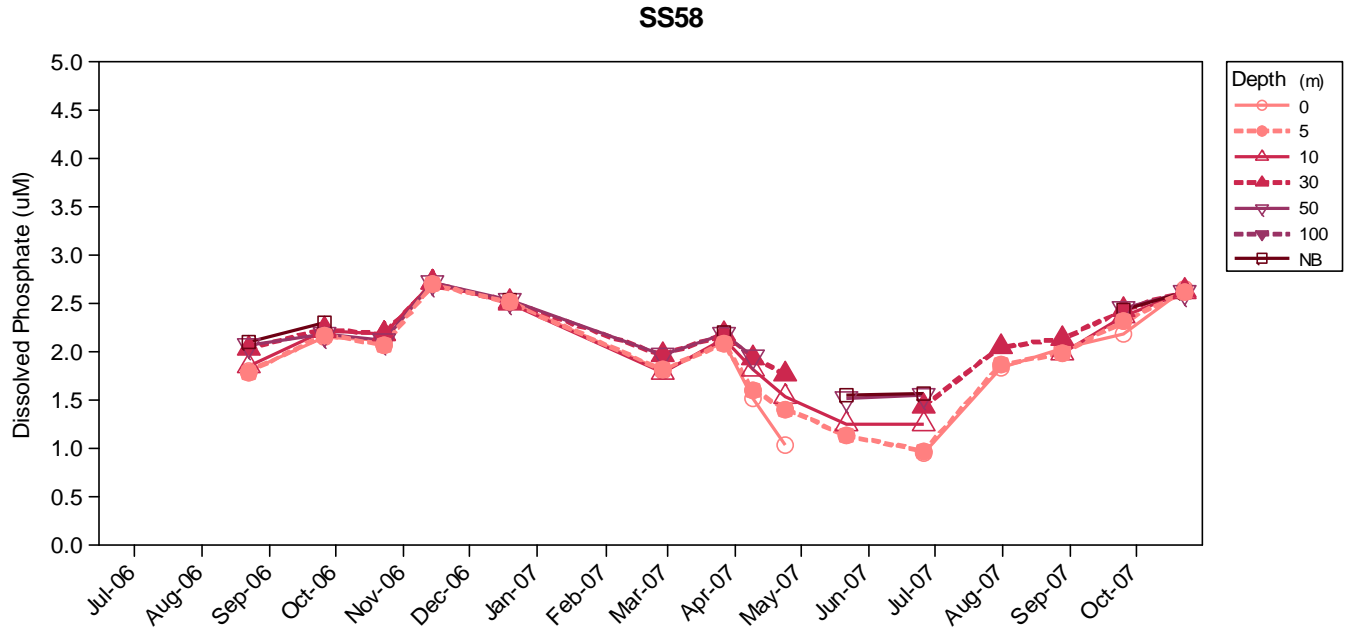


Figure C-152. Monthly orthophosphate (PO₄) concentrations from samples collected at South Sound station SS58 near South Case Inlet from July 2006 – October 2007.

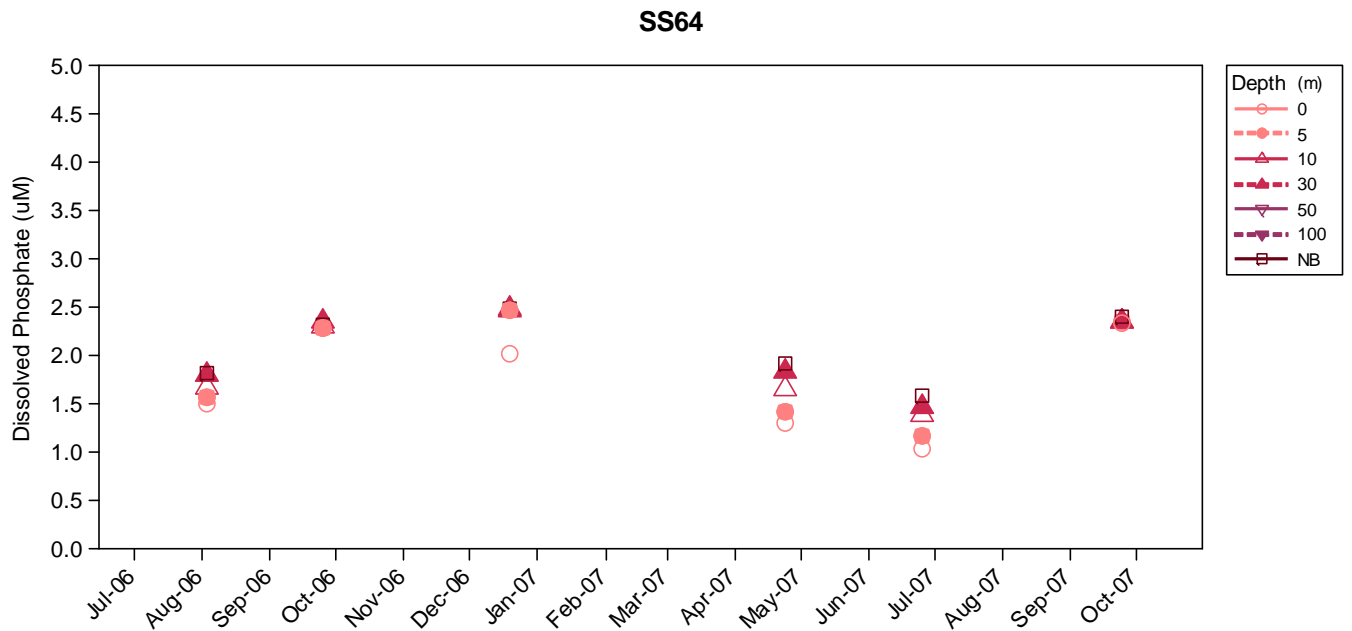


Figure C-153. Monthly orthophosphate (PO₄) concentrations from samples collected at South Sound station SS64 in Nisqually Reach from July 2006 – October 2007.

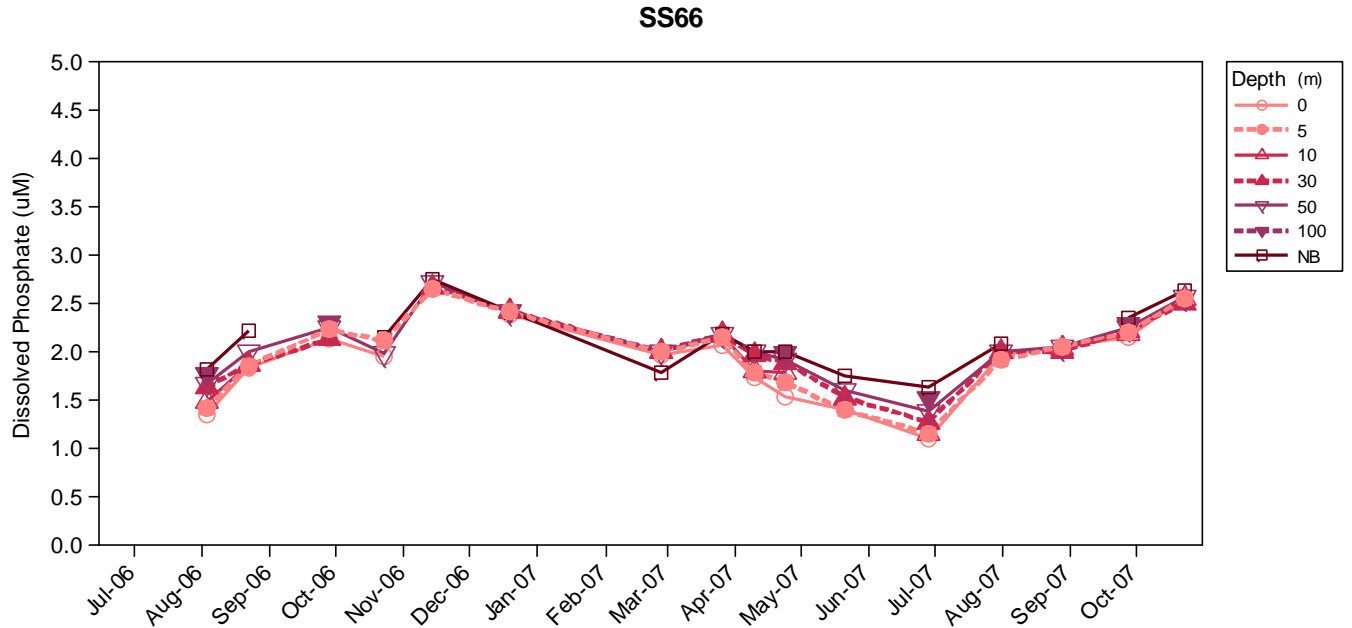


Figure C-154. Monthly orthophosphate (PO₄) concentrations from samples collected at South Sound station SS66 near Steilacoom from July 2006 – October 2007.

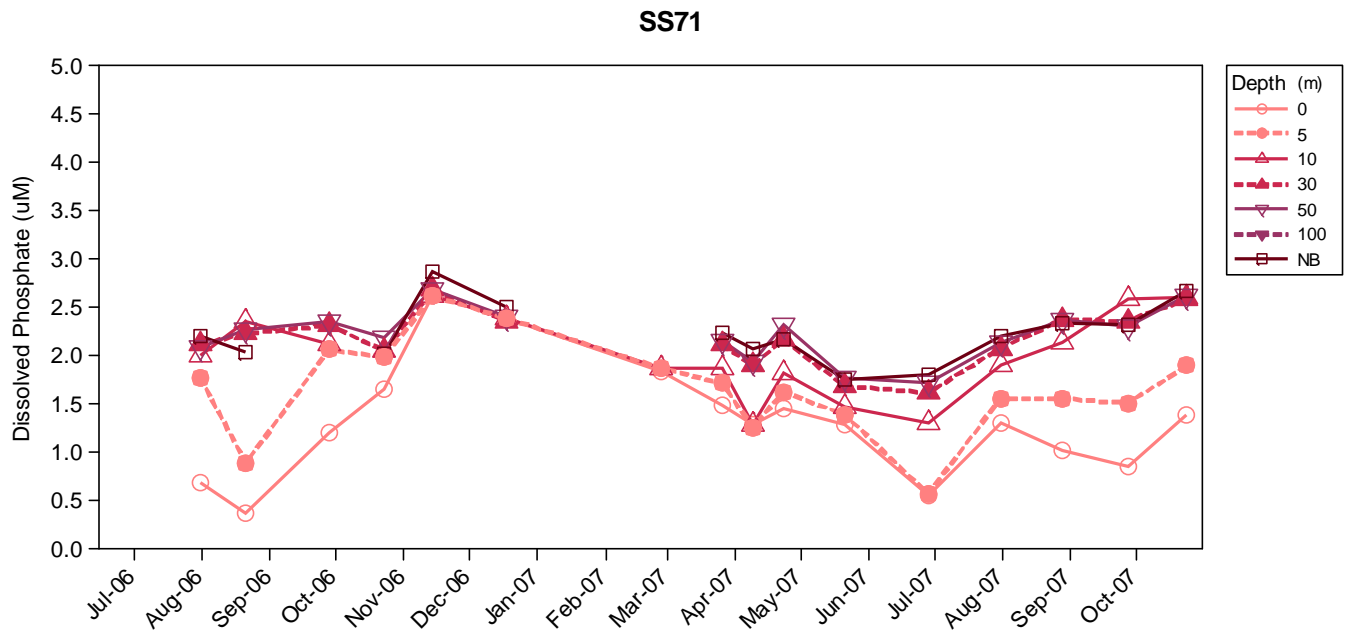


Figure C-155. Monthly orthophosphate (PO₄) concentrations from samples collected at South Sound station SS71 in Central Carr Inlet from July 2006 – October 2007.

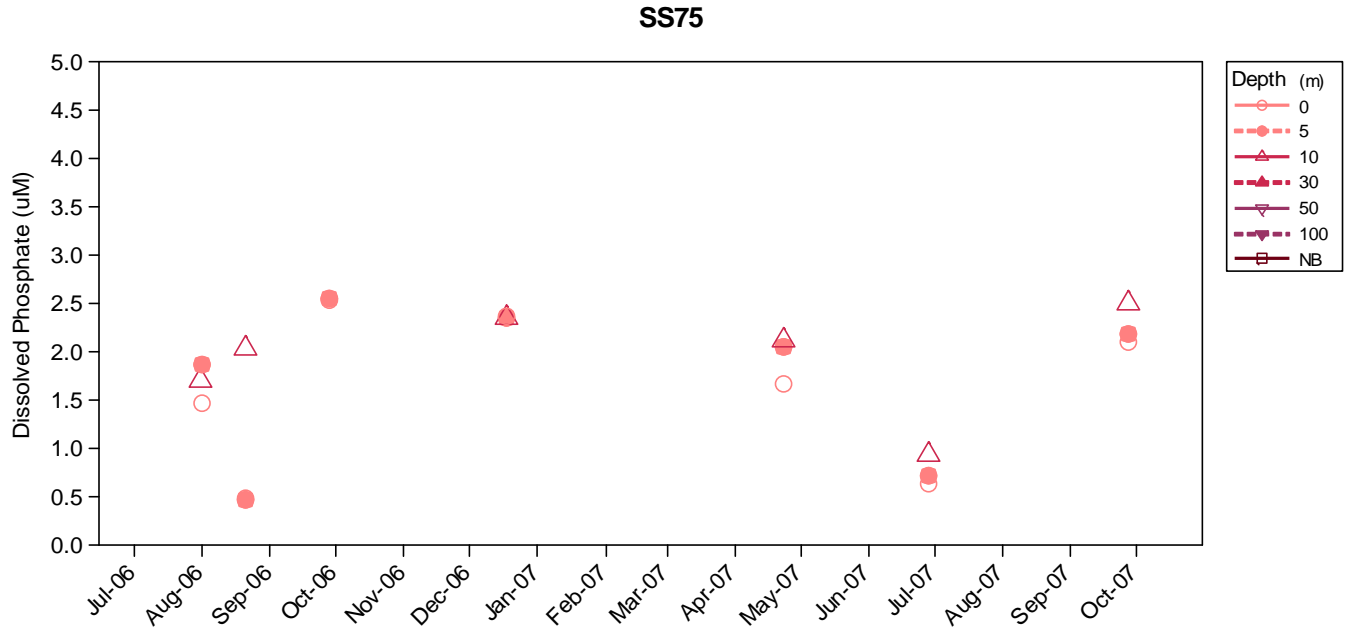


Figure C-156. Monthly orthophosphate (PO₄) concentrations from samples collected at South Sound station SS75 in North inner Carr from July 2006 – October 2007.

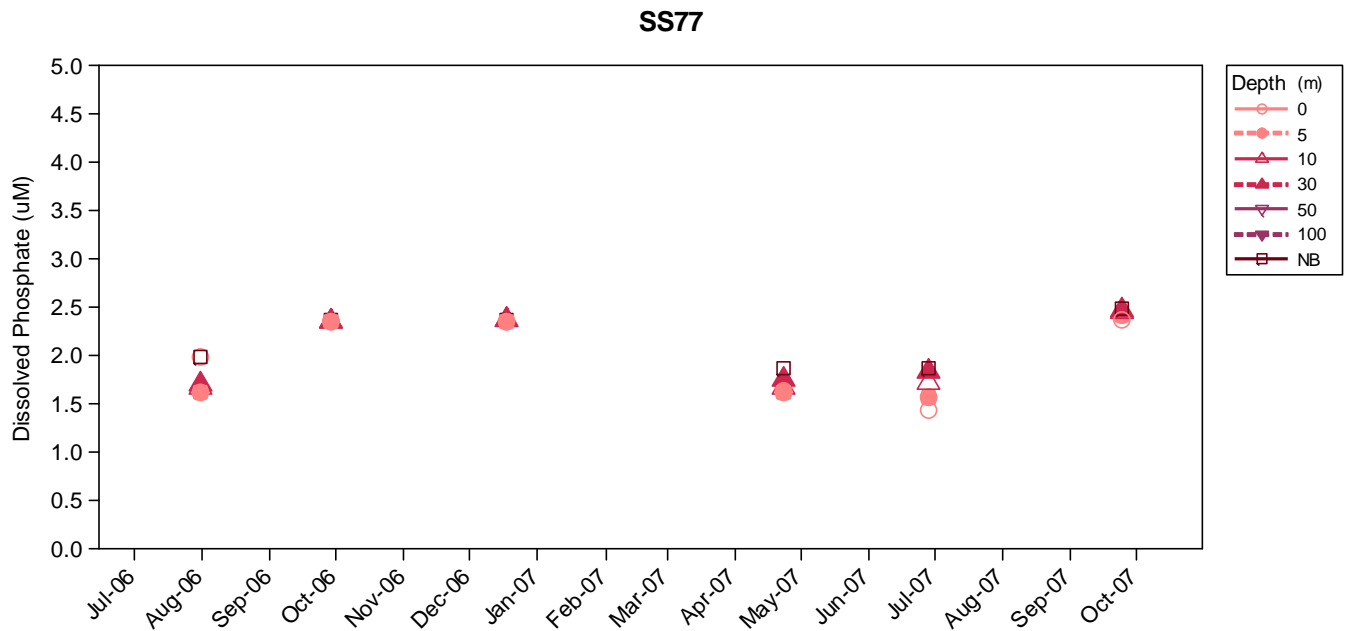


Figure C-157. Monthly orthophosphate (PO₄) concentrations from samples collected at South Sound station SS77 near the Tacoma Narrows from July 2006 – October 2007.

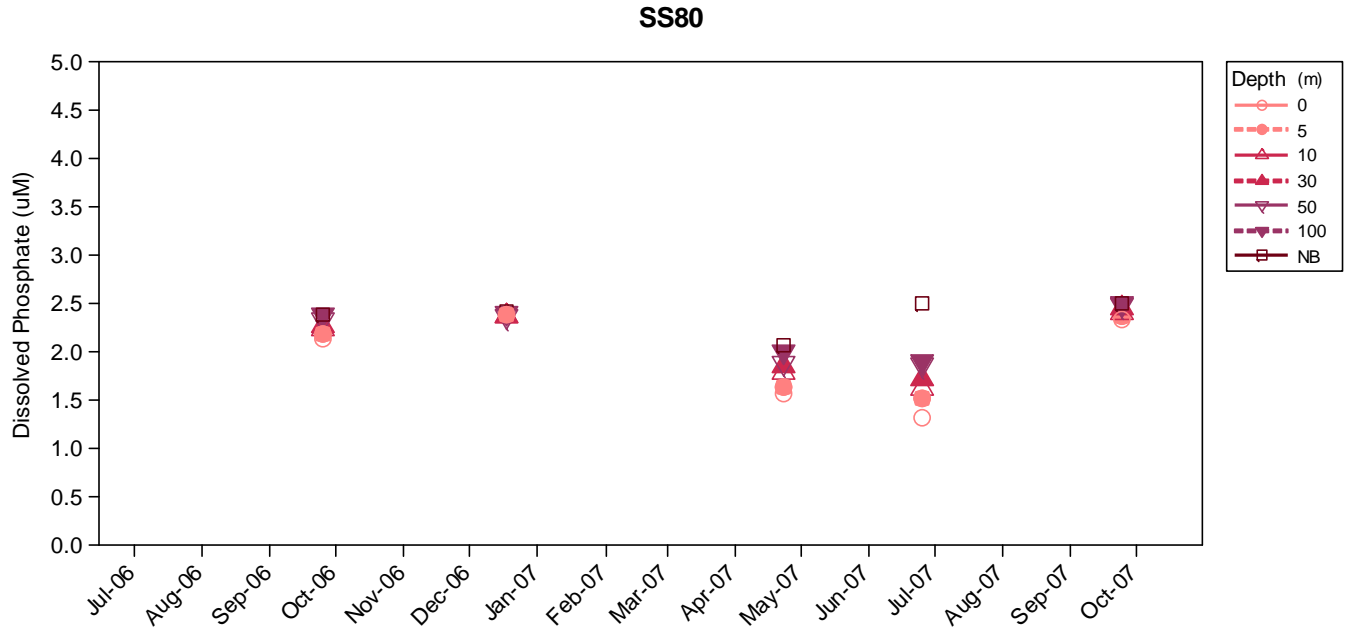


Figure C-158. Monthly orthophosphate (PO₄) concentrations from samples collected at South Sound station SS80 near Dalco Passage from July 2006 – October 2007.

Total Nitrogen

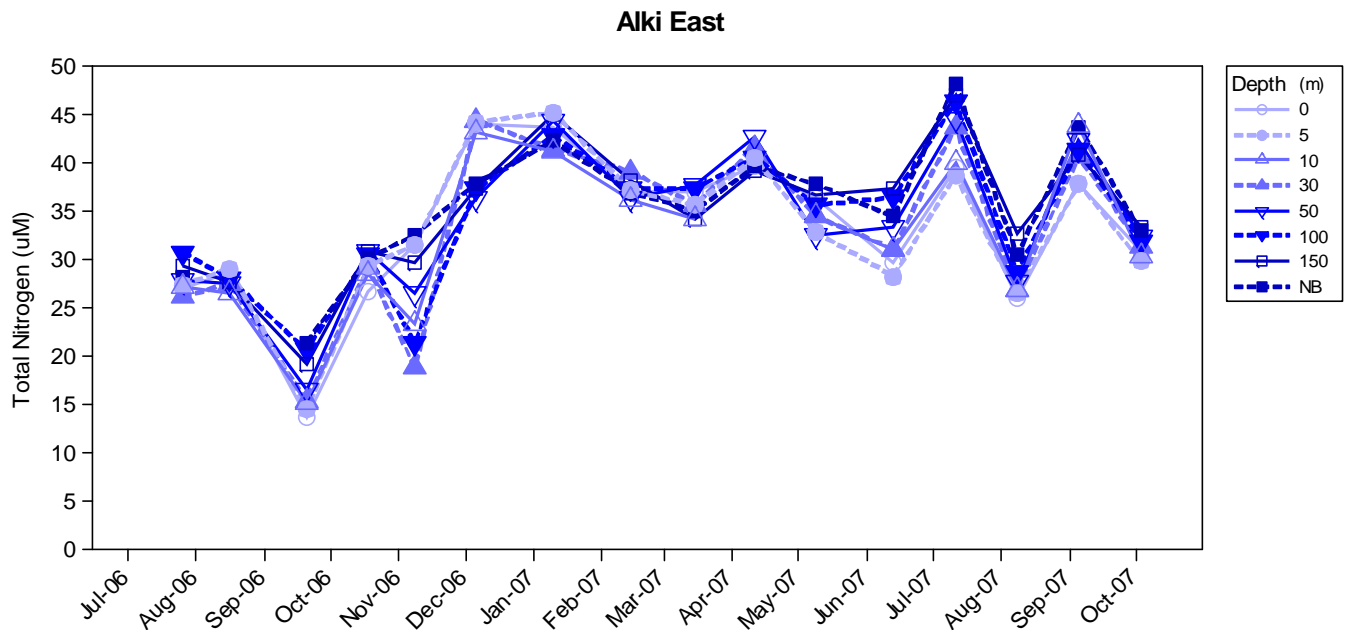


Figure C-159. Monthly total nitrogen (TN) concentrations from samples collected at boundary station Alki East near South Seattle from July 2006 – October 2007.

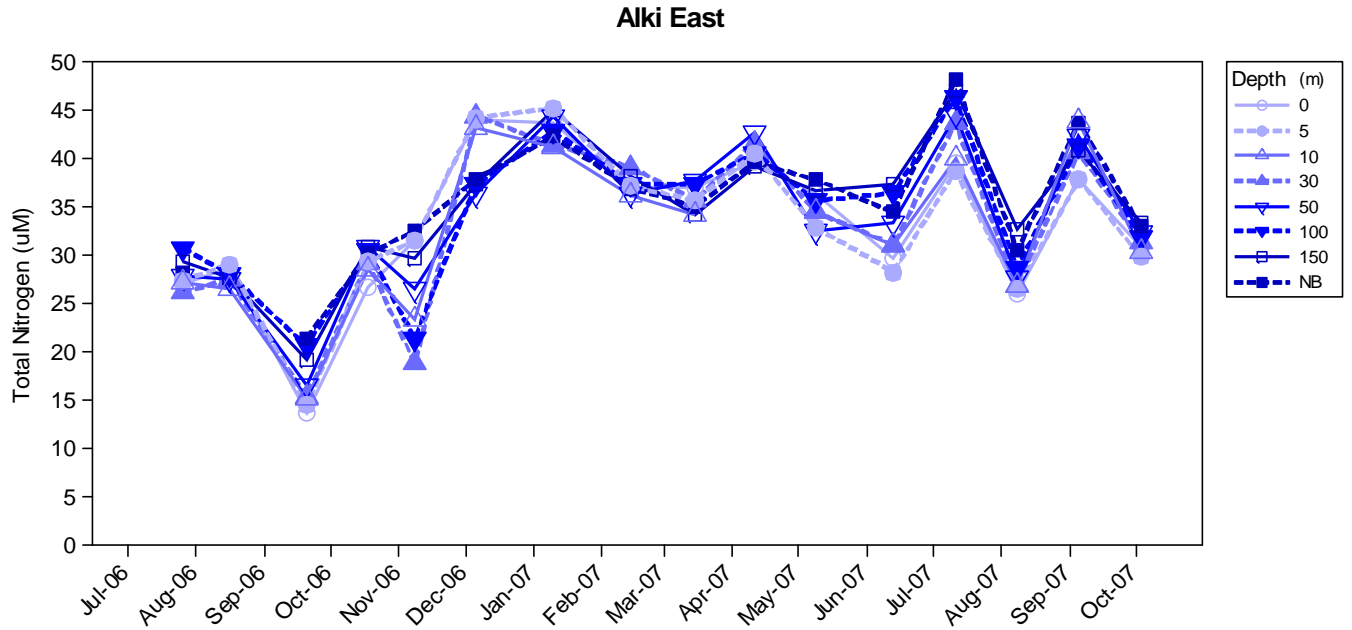


Figure C-160. Monthly total nitrogen (TN) concentrations from samples collected at boundary station Alki East near South Seattle from July 2006 – October 2007.

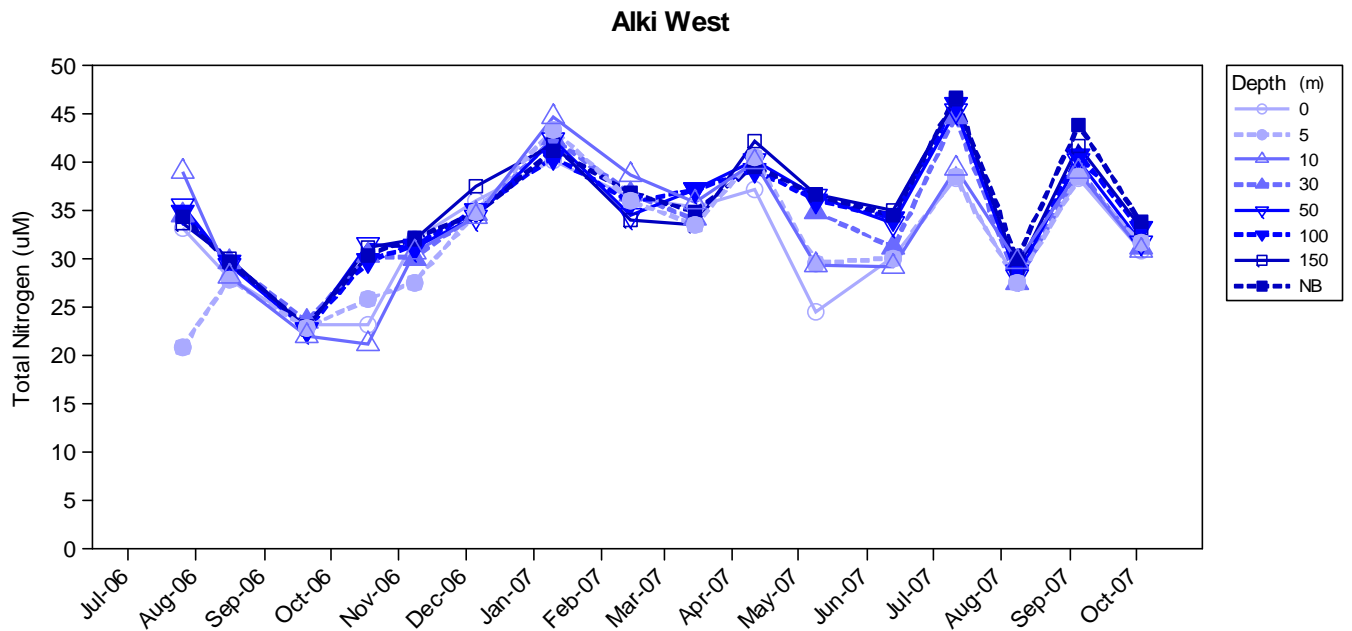


Figure C-161. Monthly total nitrogen (TN) concentrations from samples collected at boundary station Alki West near South Seattle from July 2006 – October 2007.

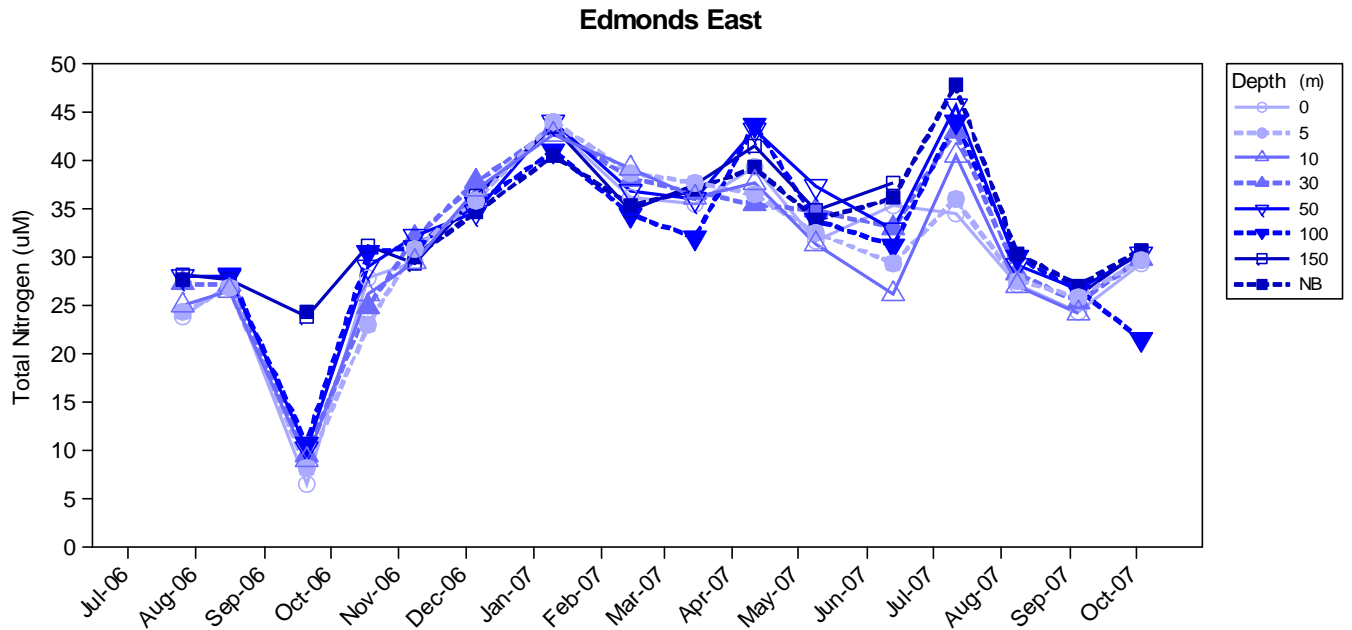


Figure C-162. Monthly total nitrogen (TN) concentrations from samples collected at boundary station Edmonds East in the Central Basin from July 2006 – October 2007.

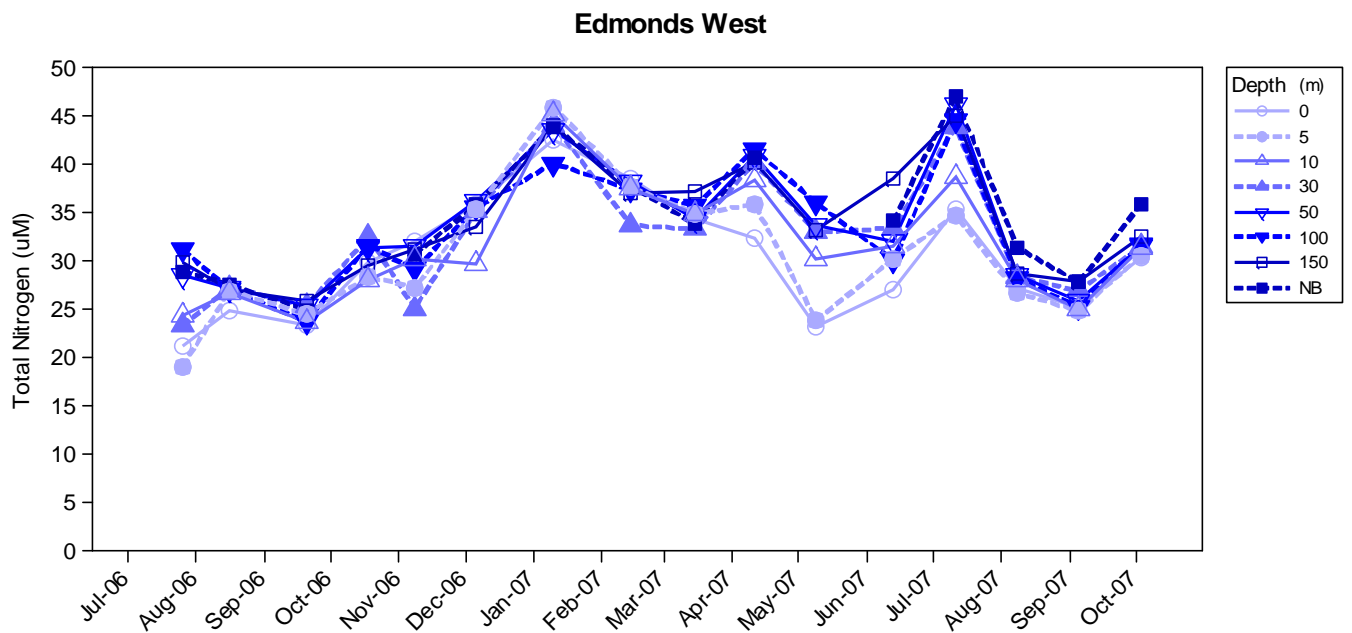


Figure C-163. Monthly total nitrogen (TN) concentrations from samples collected at boundary station Edmonds West in the Central Basin from July 2006 – October 2007.

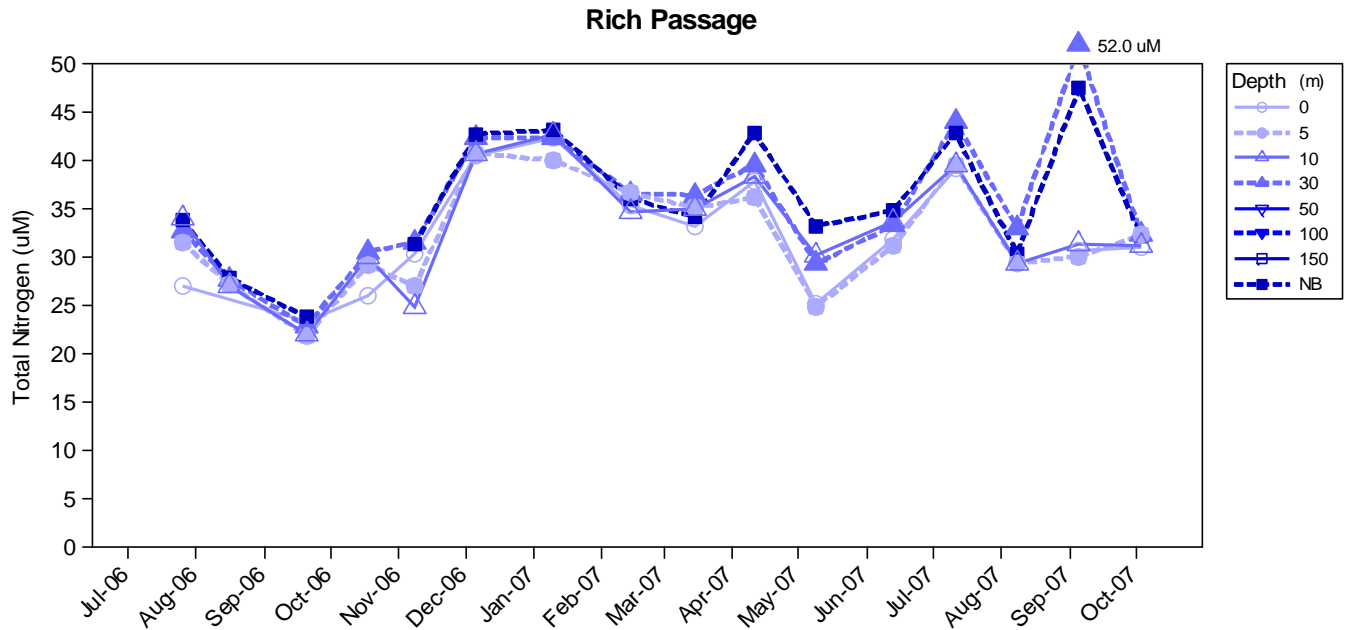


Figure C-164. Monthly total nitrogen (TN) concentrations from samples collected at boundary station Rich Passage from July 2006 – October 2007.

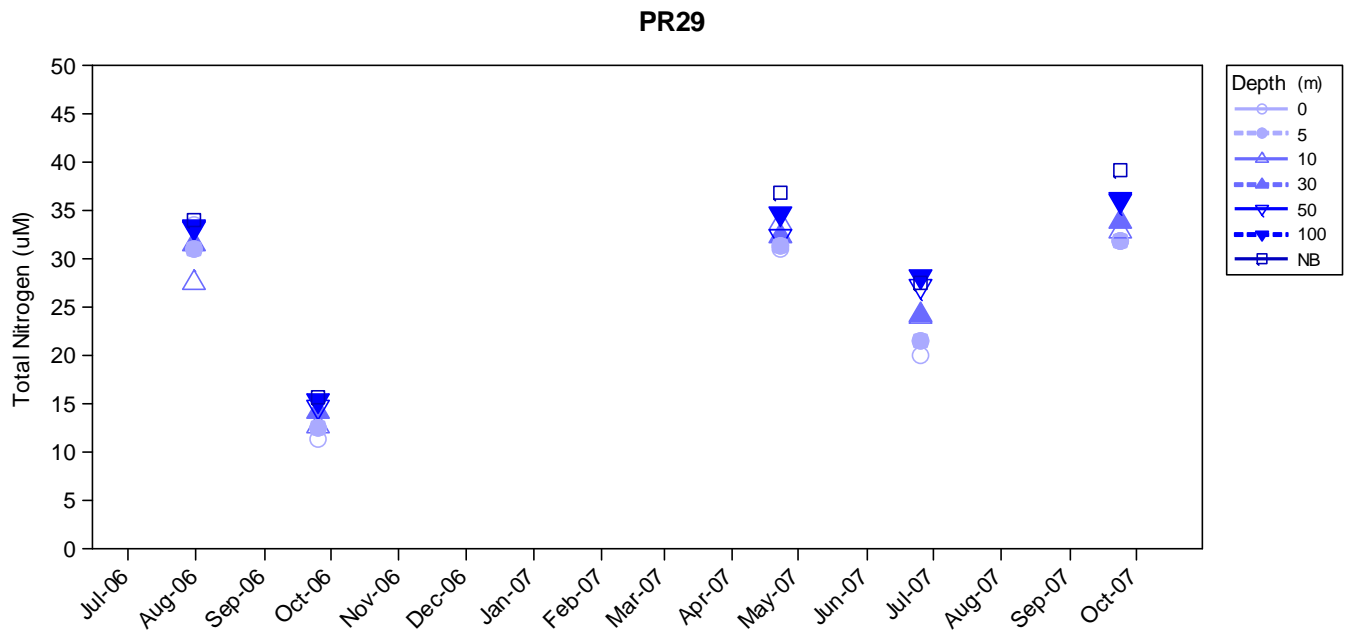


Figure C-165. Monthly total nitrogen (TN) concentrations from samples collected at station PR29 near Blake Island Inlet from July 2006 – October 2007.

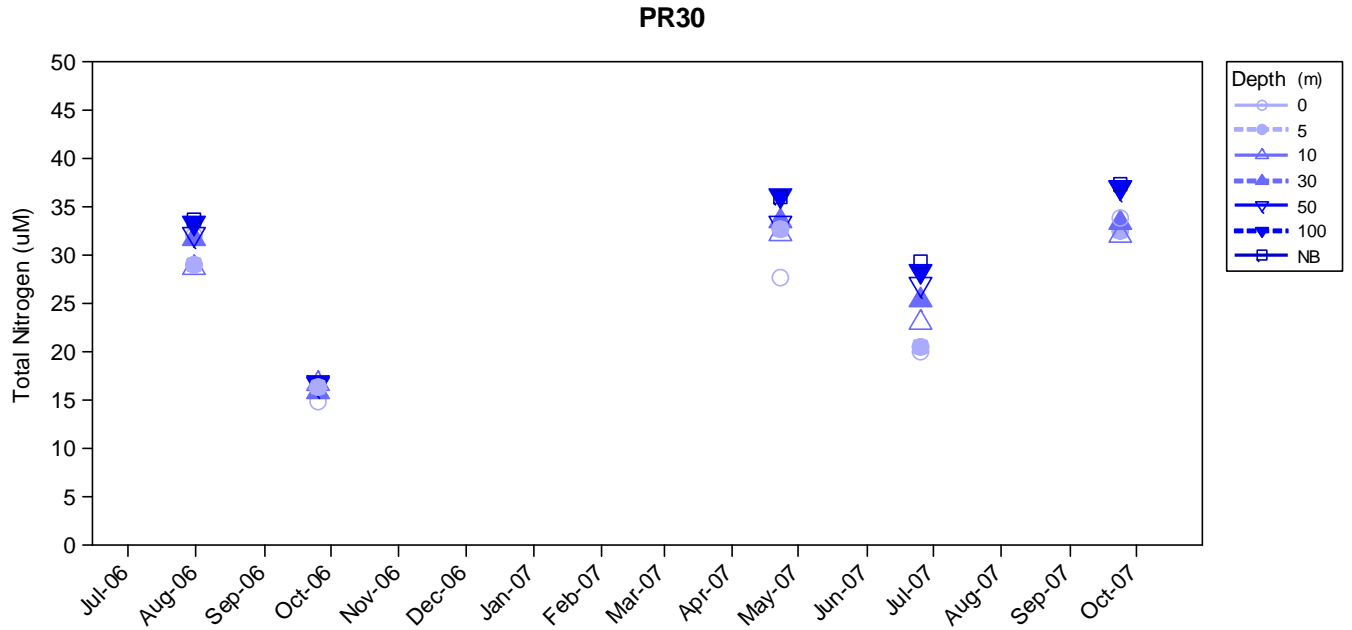


Figure C-166. Monthly total nitrogen (TN) concentrations from samples collected at station PR30 in East Passage from July 2006 – October 2007.

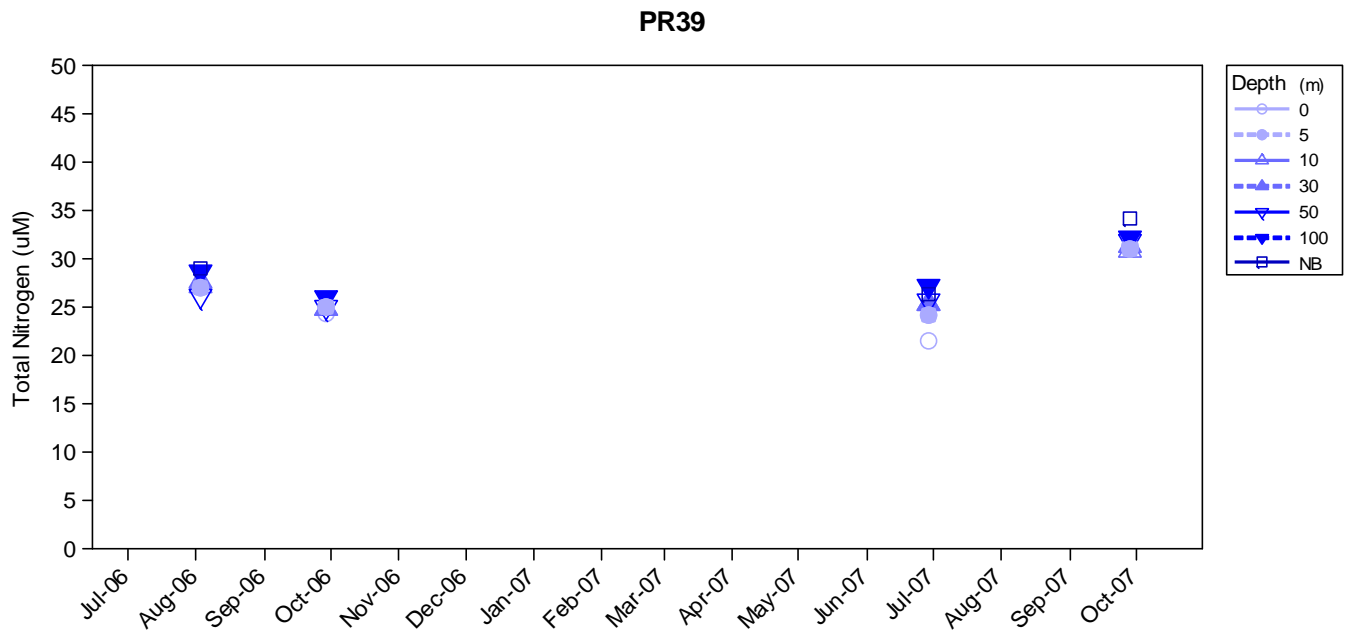


Figure C-167. Monthly total nitrogen (TN) concentrations from samples collected at station PR39 in Colvos Passage from July 2006 – October 2007.

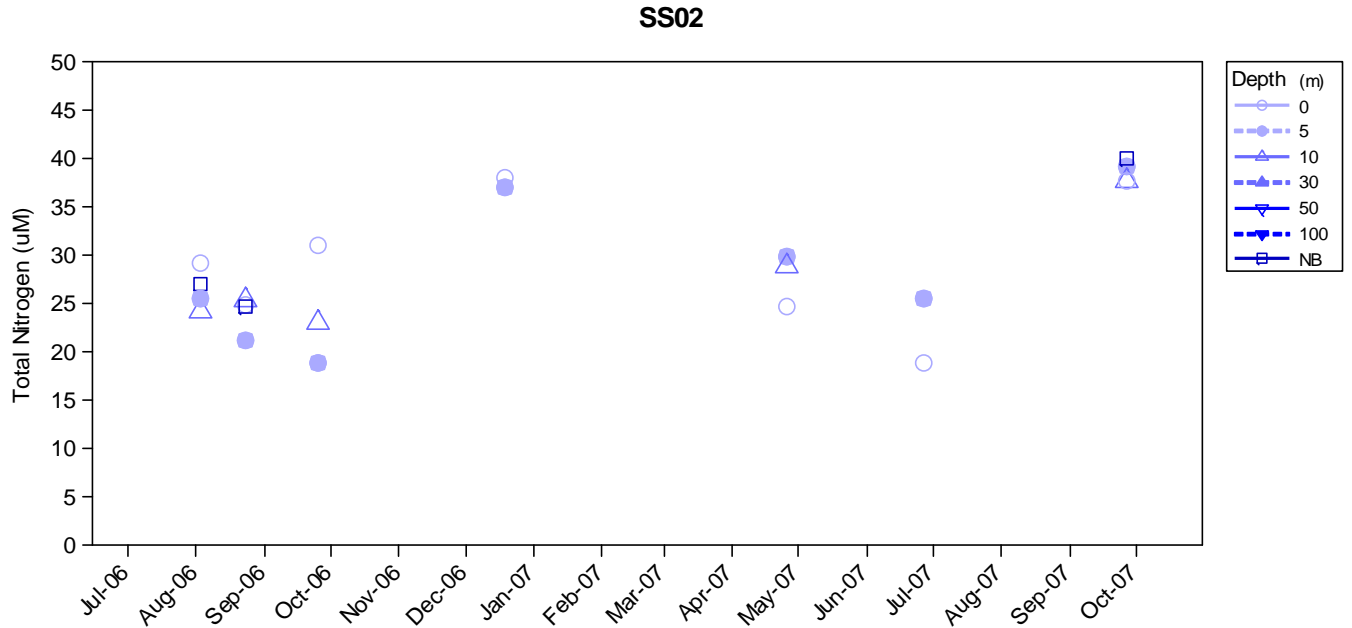


Figure C-168. Monthly total nitrogen (TN) from samples collected at South Sound station SS02 in outer Henderson Inlet from July 2006 – October 2007.

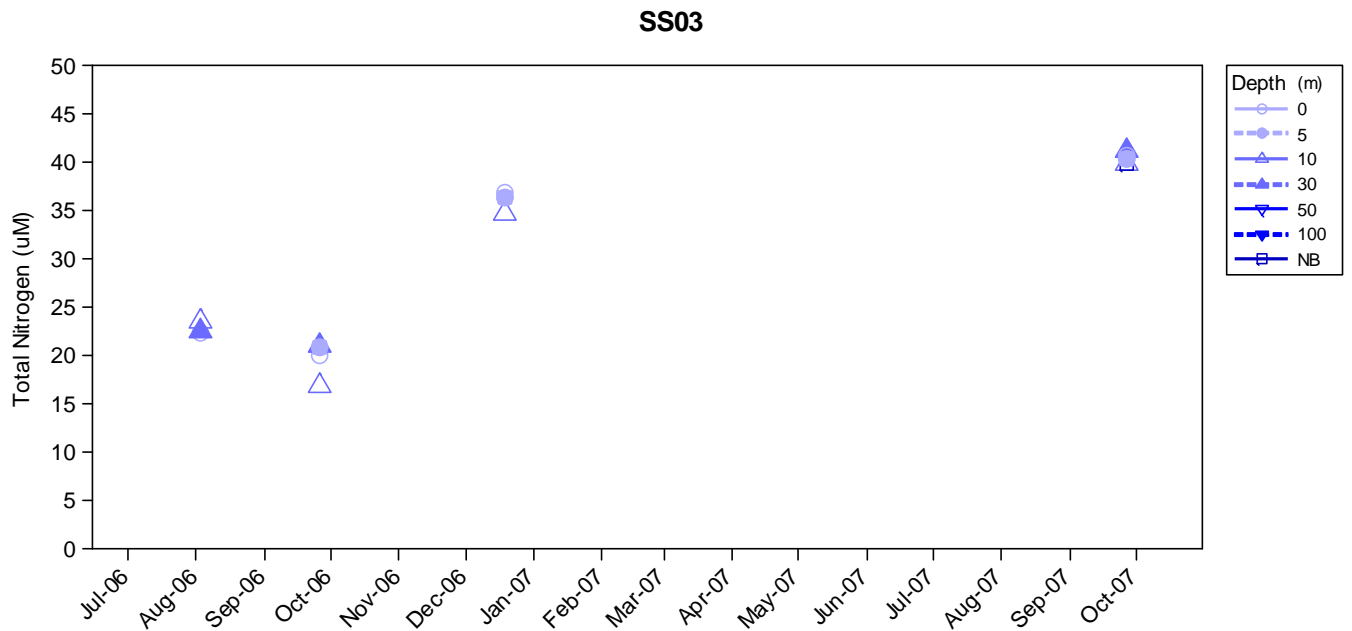


Figure C-169. Monthly total nitrogen (TN) from samples collected at South Sound station SS03 in Dana Passage from July 2006 – October 2007.

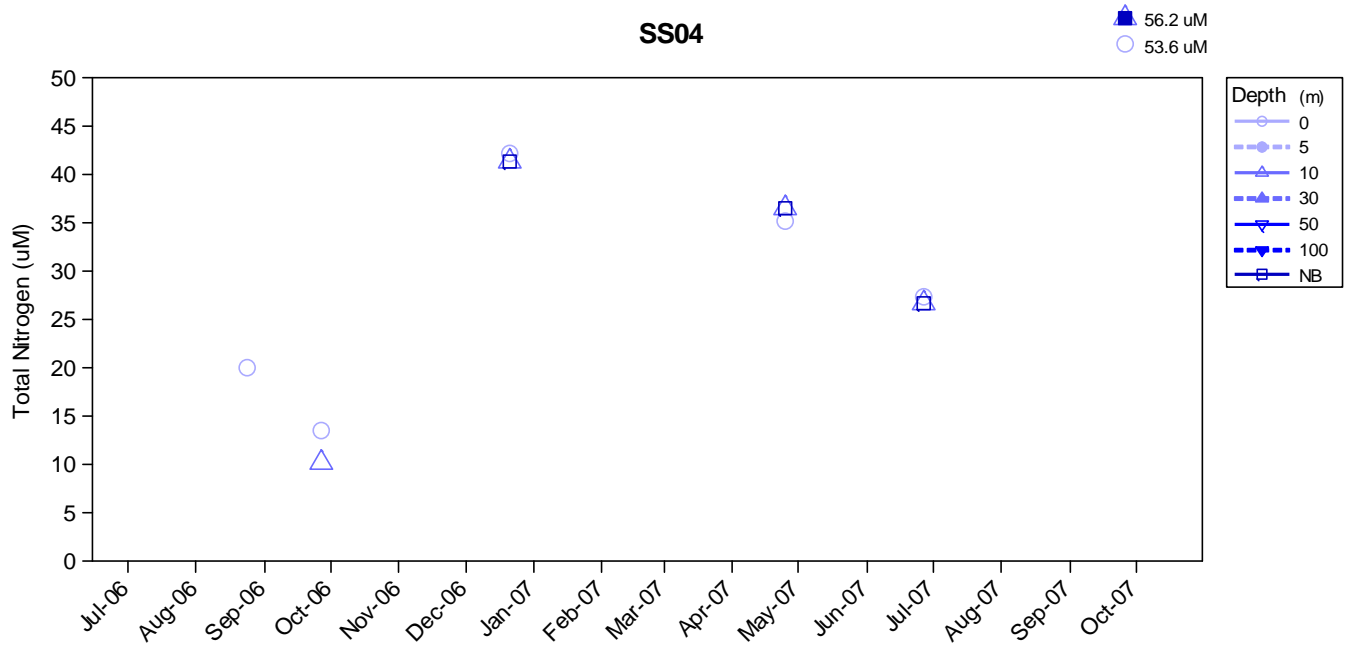


Figure C-170. Monthly total nitrogen (TN) concentrations from samples collected at South Sound station SS04 in inner Budd Inlet from July 2006 – October 2007.

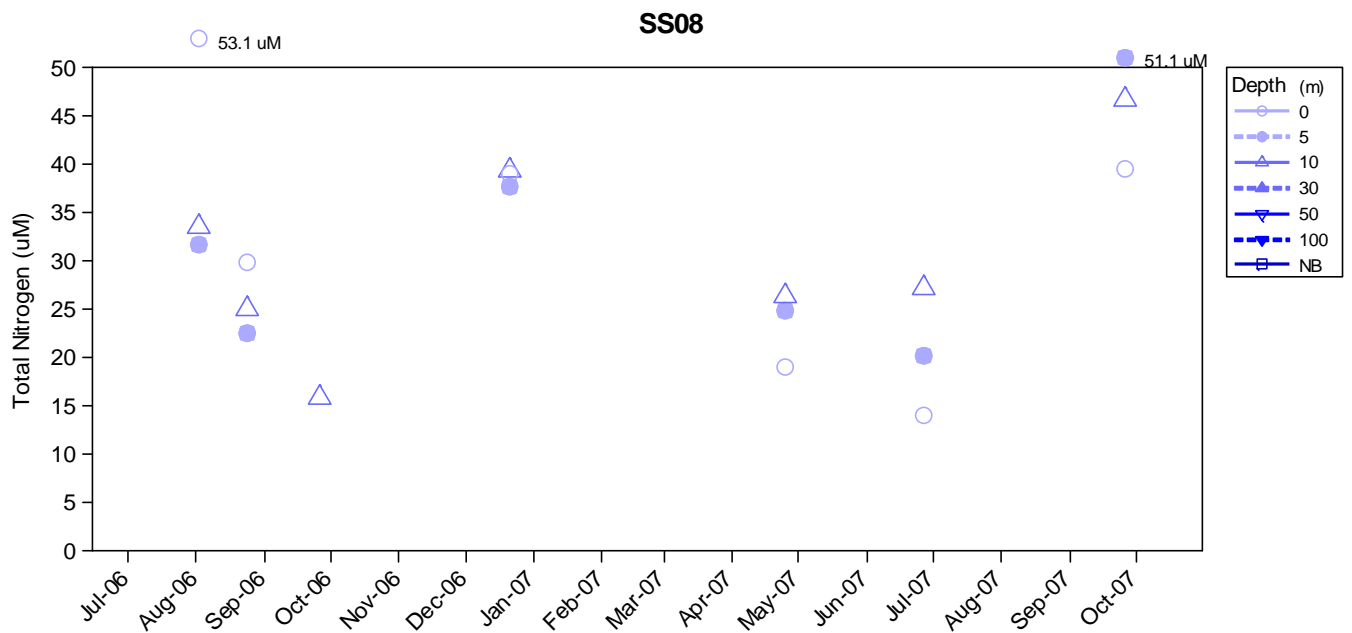


Figure C-171. Monthly total nitrogen (TN) from samples collected at South Sound station SS08 in central Budd Inlet from July 2006 – October 2007.

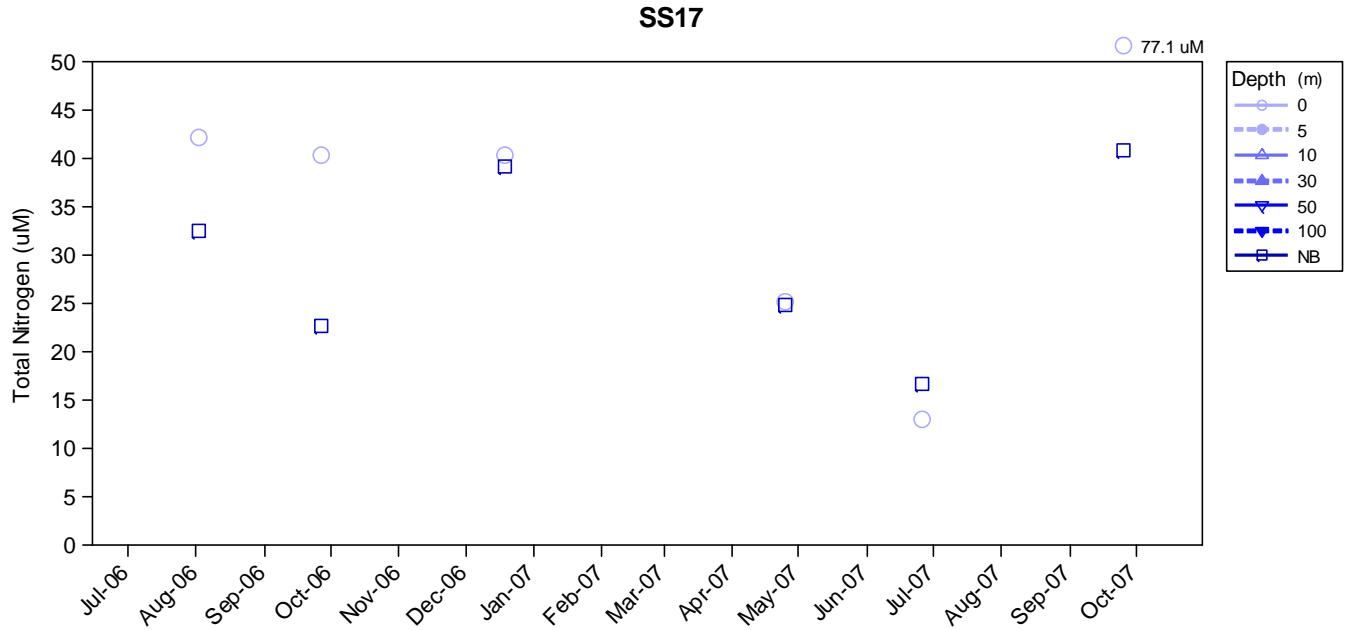


Figure C-172. Monthly total nitrogen (TN) from samples collected at South Sound station SS17 in inner Eld Inlet from July 2006 – October 2007.

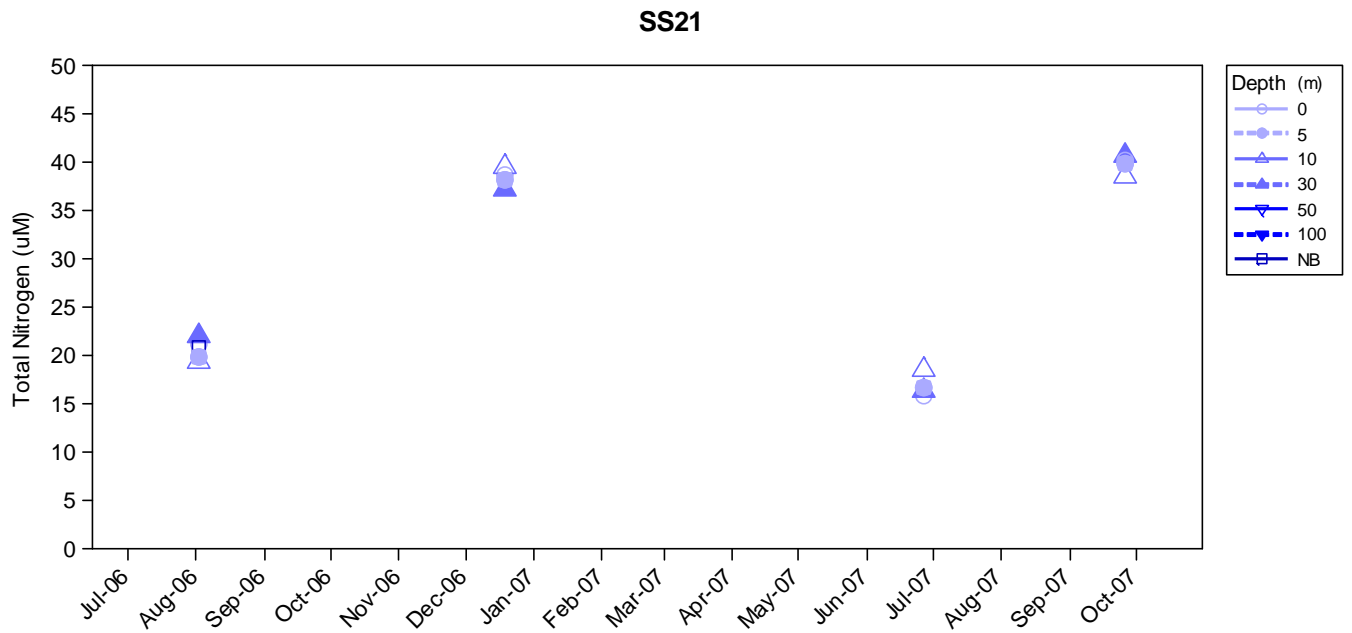


Figure C-173. Monthly total nitrogen (TN) from samples collected at South Sound station SS21 near outer Totten Inlet from July 2006 – October 2007.

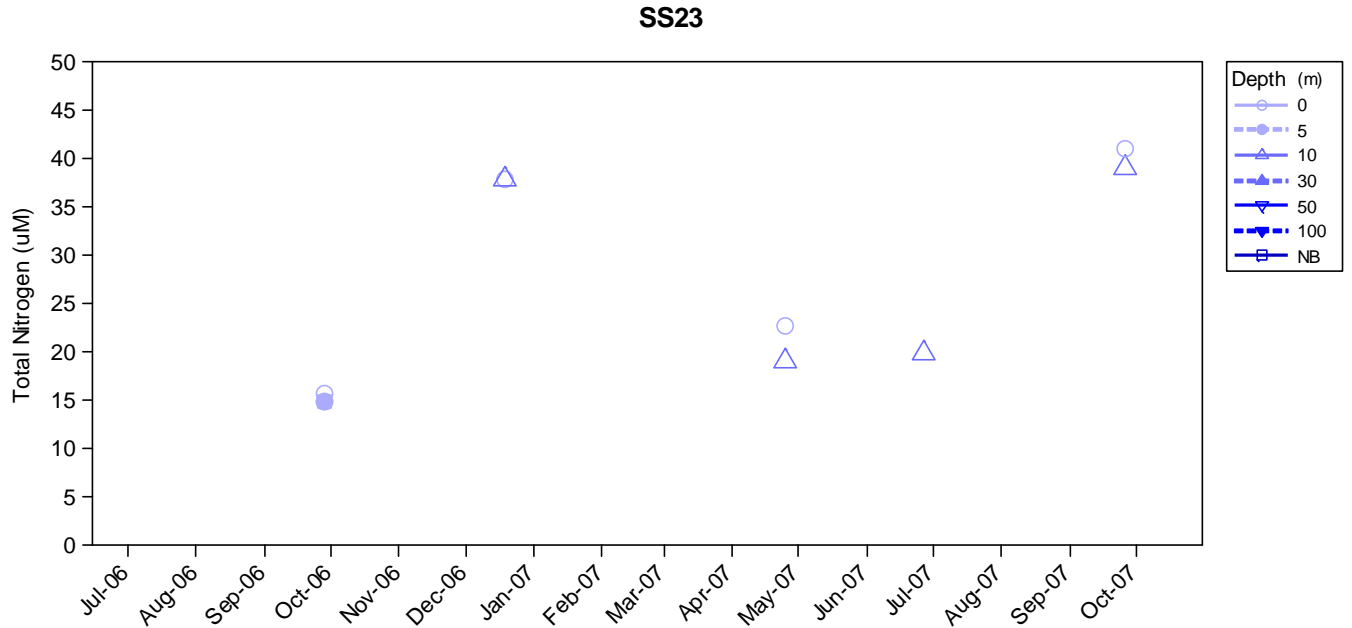


Figure C-174. Monthly total nitrogen (TN) from samples collected at South Sound station SS23 near central Totten Inlet from July 2006 – October 2007.

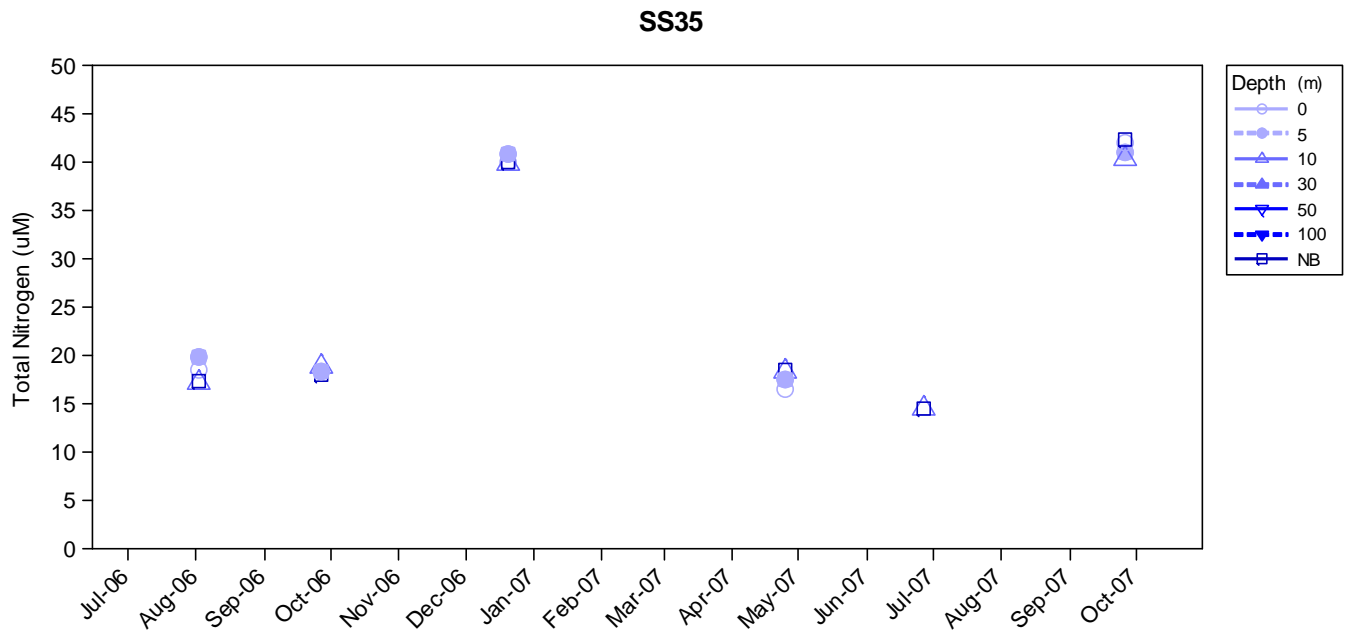


Figure C-175. Monthly total nitrogen (TN) from samples collected at South Sound station SS35 near the Port of Shelton in Oakland Bay from July 2006 – October 2007.

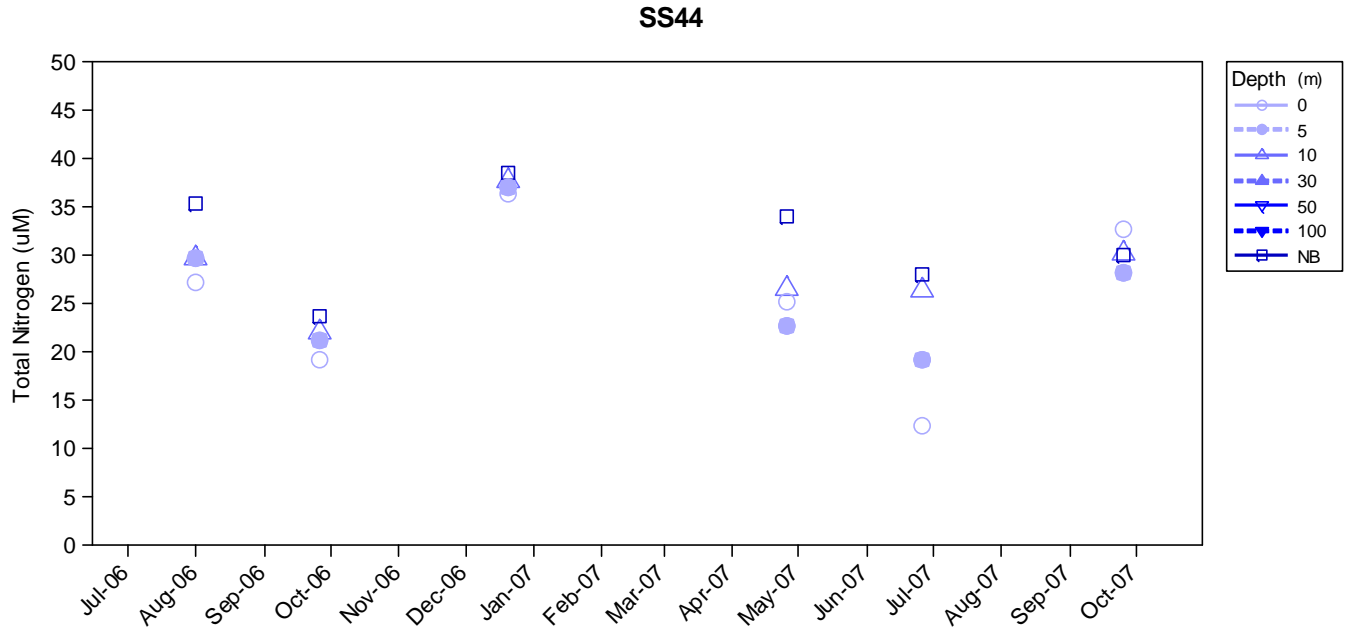


Figure C-176. Monthly total nitrogen (TN) from samples collected at South Sound station SS44 near North Pickering Passage from July 2006 – October 2007.

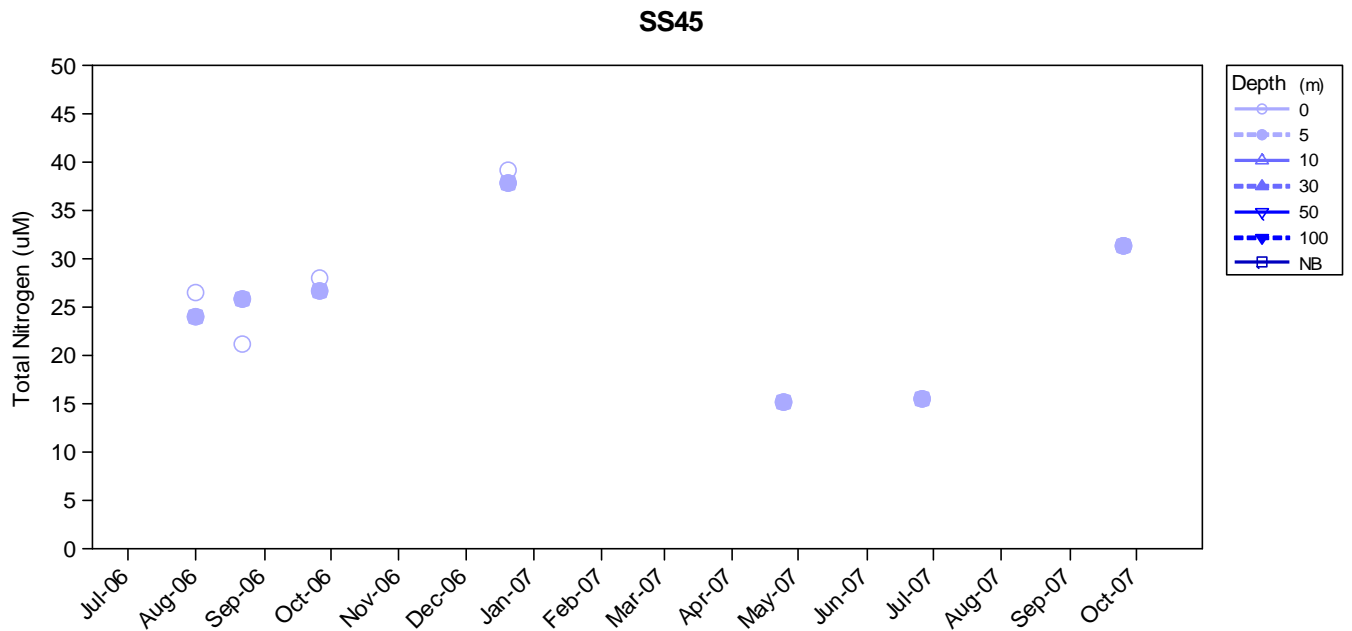


Figure C-177. Monthly total nitrogen (TN) from samples collected at South Sound station SS45 near inner Case Inlet from July 2006 – October 2007.

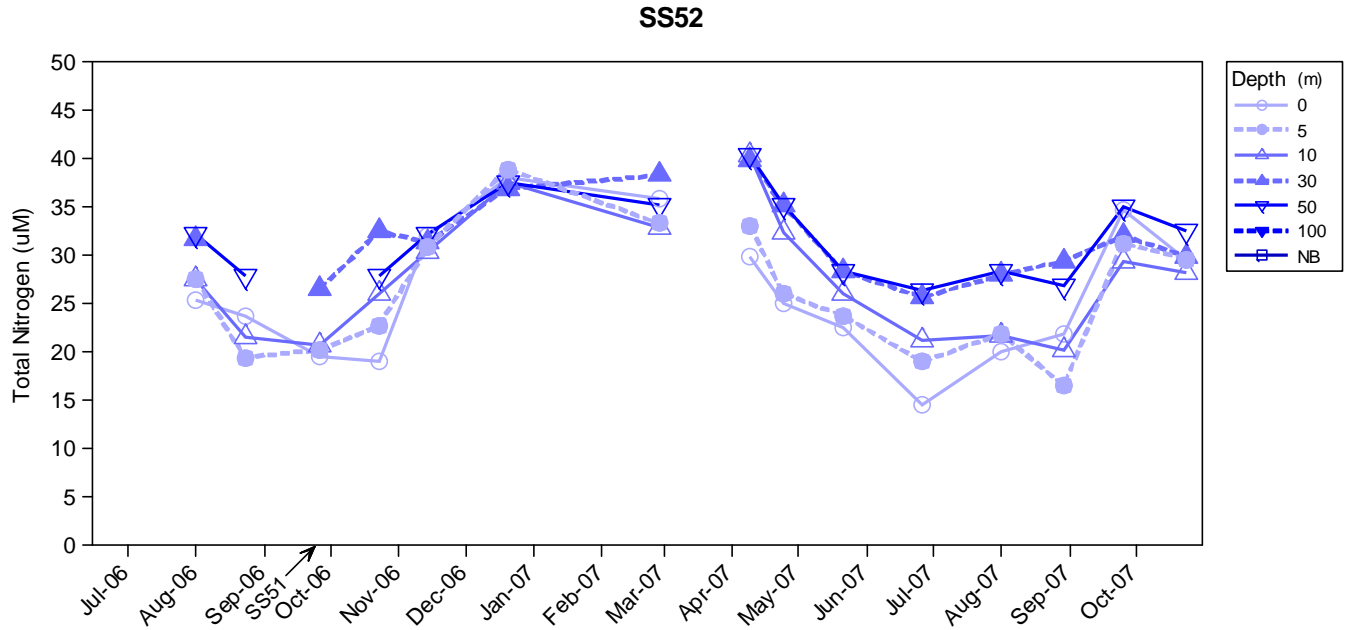


Figure C-178. Monthly total nitrogen (TN) from samples collected at South Sound station SS52 near central Case Inlet from July 2006 – October 2007.

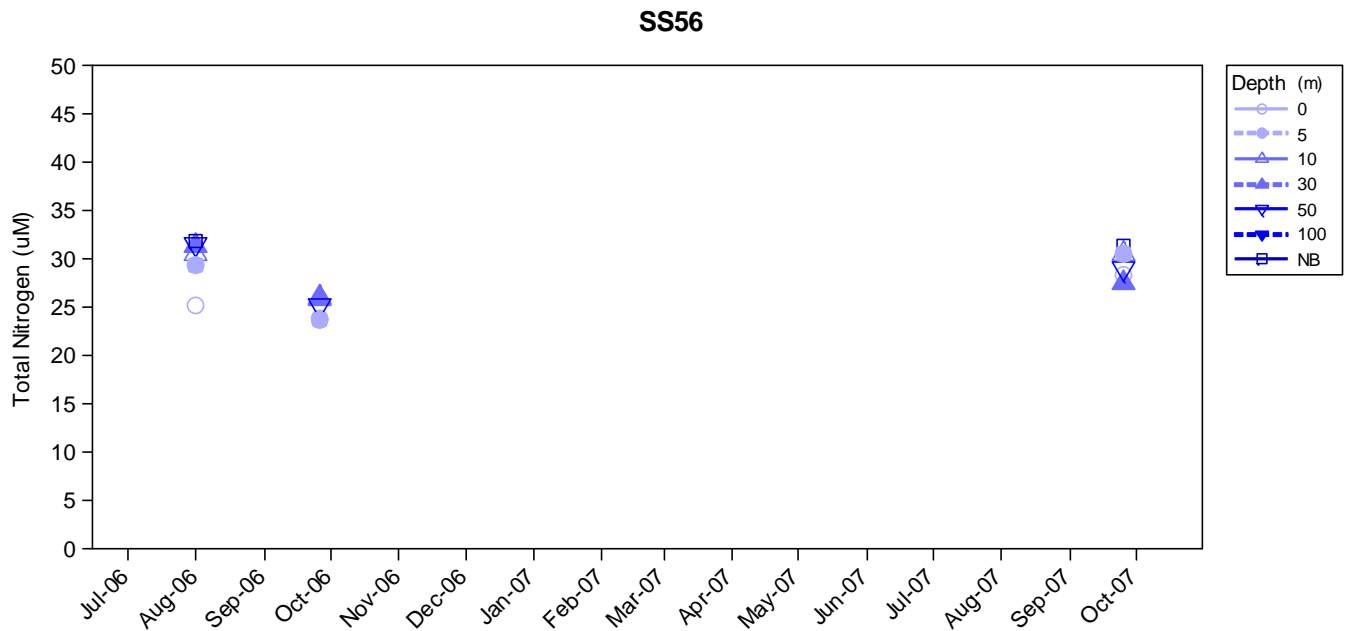


Figure C-179. Monthly total nitrogen (TN) from samples collected at South Sound station SS56 near South Case Inlet from July 2006 – October 2007.

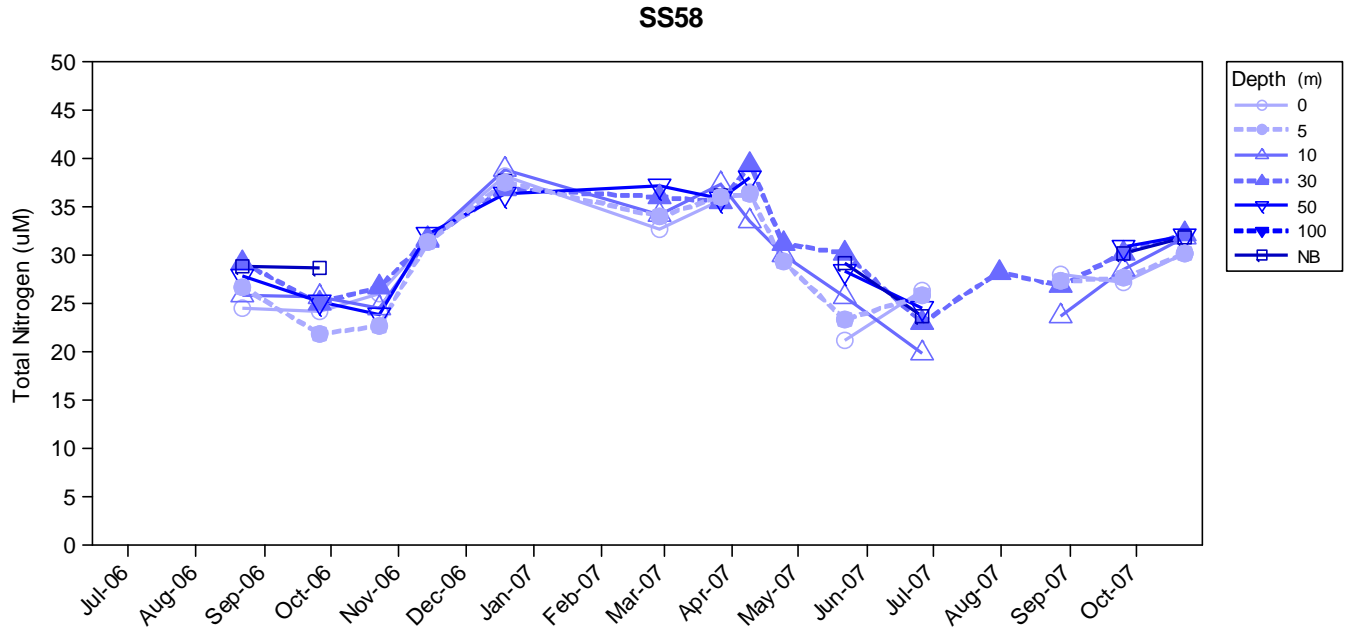


Figure C-180. Monthly total nitrogen (TN) from samples collected at South Sound station SS58 near South Case Inlet from July 2006 – October 2007.

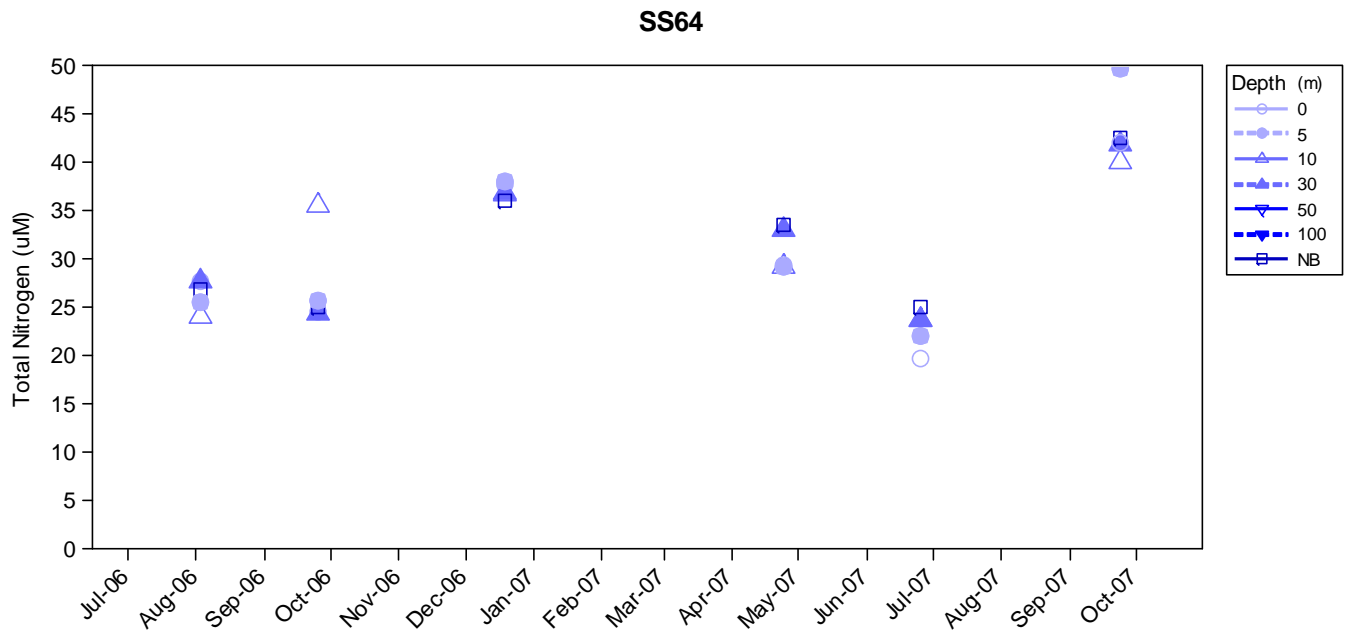


Figure C-181. Monthly total nitrogen (TN) from samples collected at South Sound station SS64 in Nisqually Reach from July 2006 – October 2007.

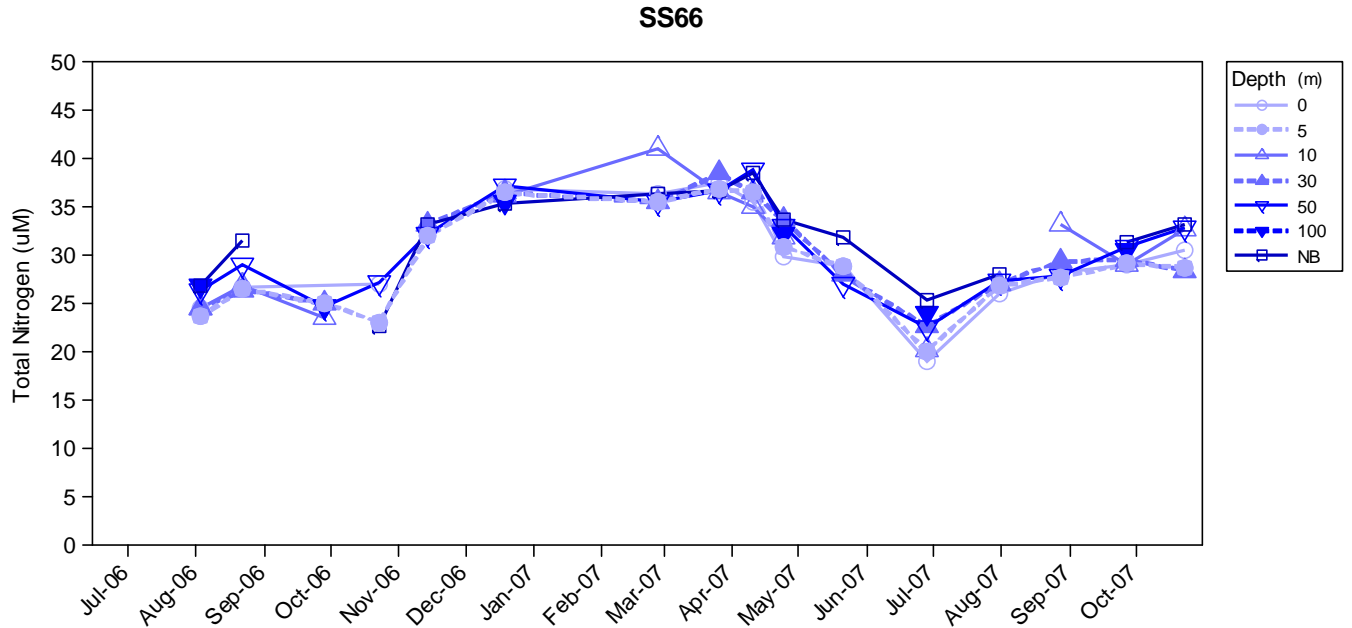


Figure C-182. Monthly total nitrogen (TN) from samples collected at South Sound station SS66 near Steilacoom from July 2006 – October 2007.

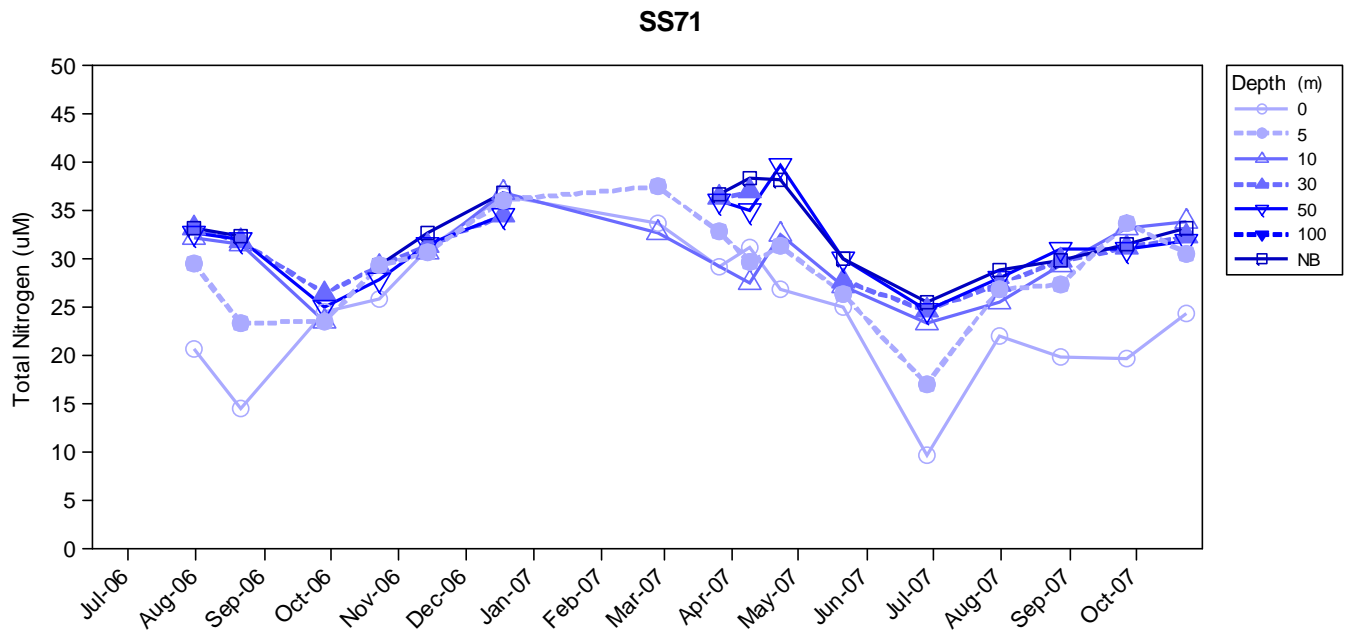


Figure C-183. Monthly total nitrogen (TN) from samples collected at South Sound station SS71 in Central Carr Inlet from July 2006 – October 2007.

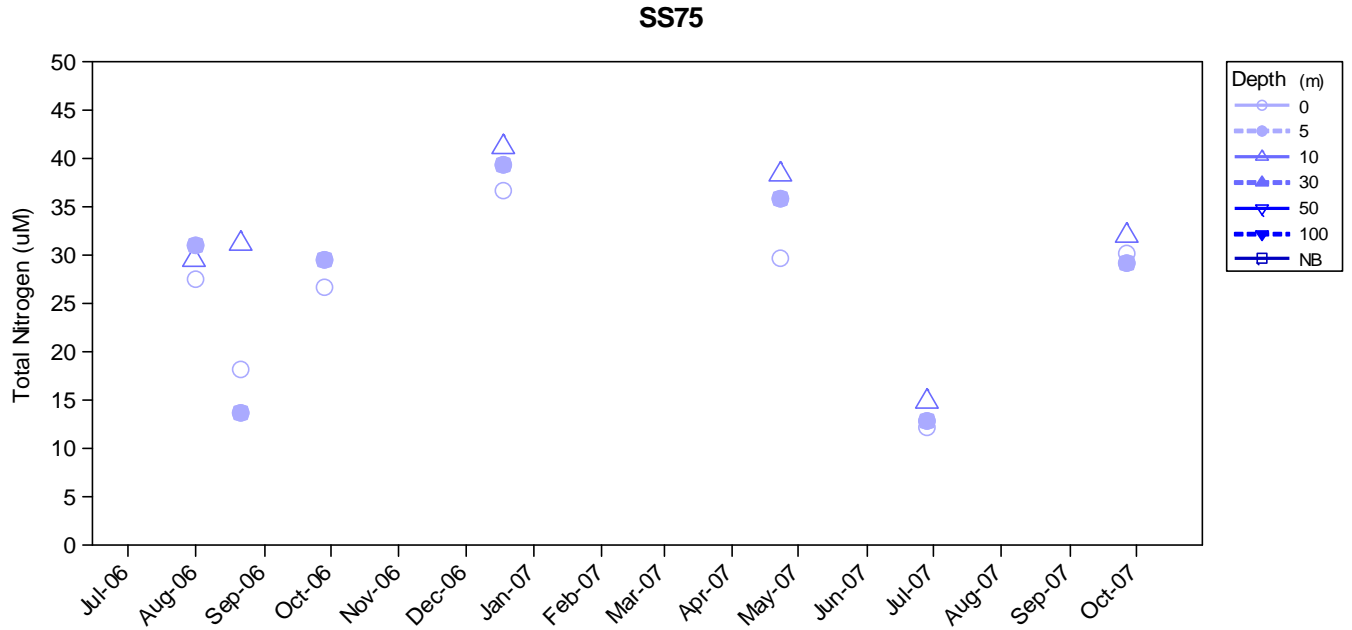


Figure C-184. Monthly total nitrogen (TN) from samples collected at South Sound station SS75 in North inner Carr from July 2006 – October 2007.

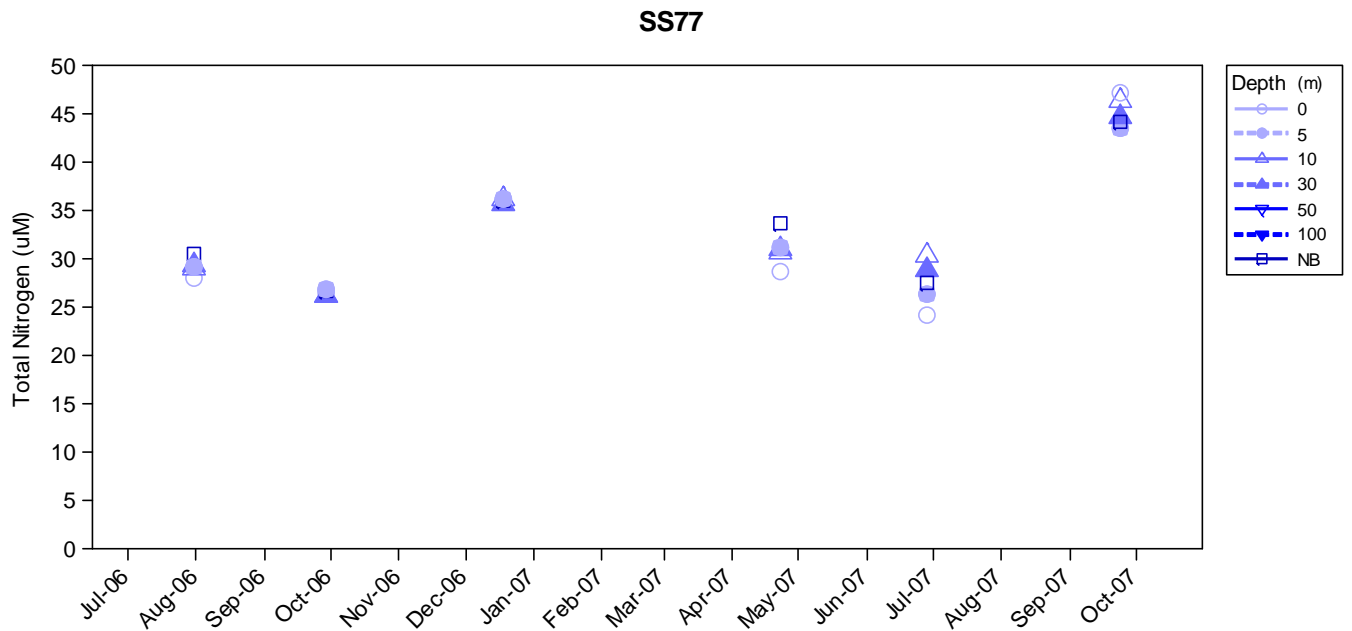


Figure C-185. Monthly total nitrogen (TN) from samples collected at South Sound station SS77 near the Tacoma Narrows from July 2006 – October 2007.

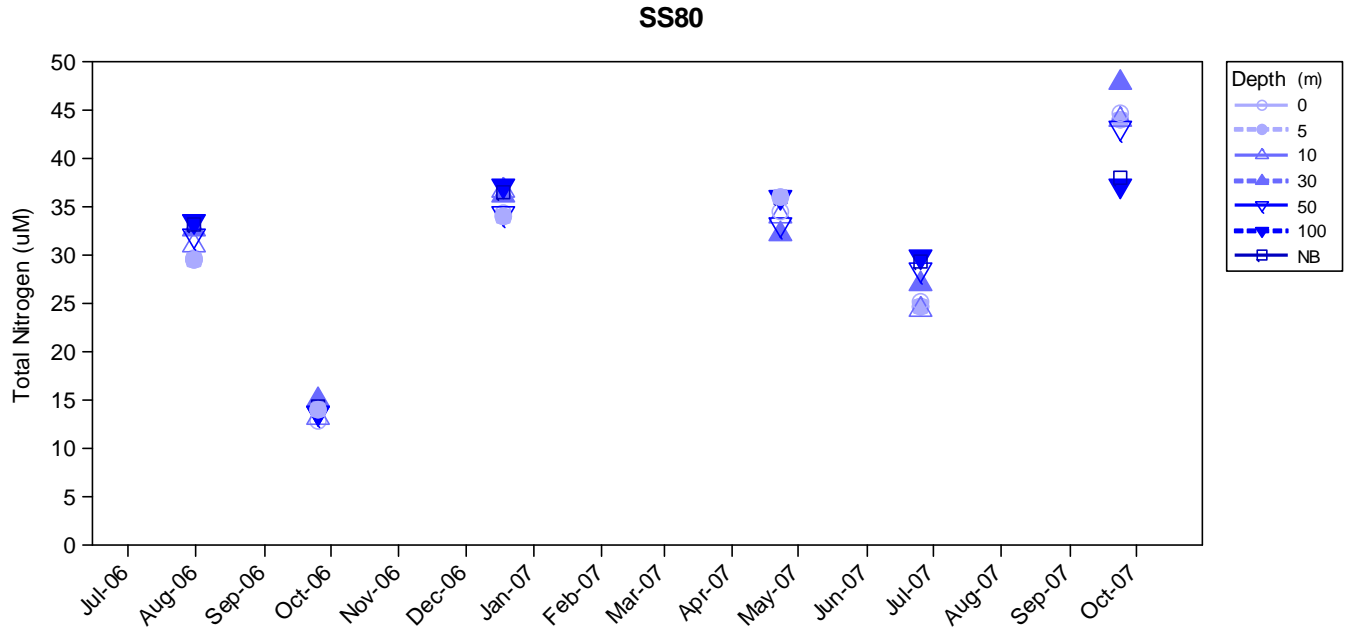


Figure C-186. Monthly total nitrogen (TN) from samples collected at South Sound station SS80 near Dalco Passage from July 2006 – October 2007.

Total Phosphorus

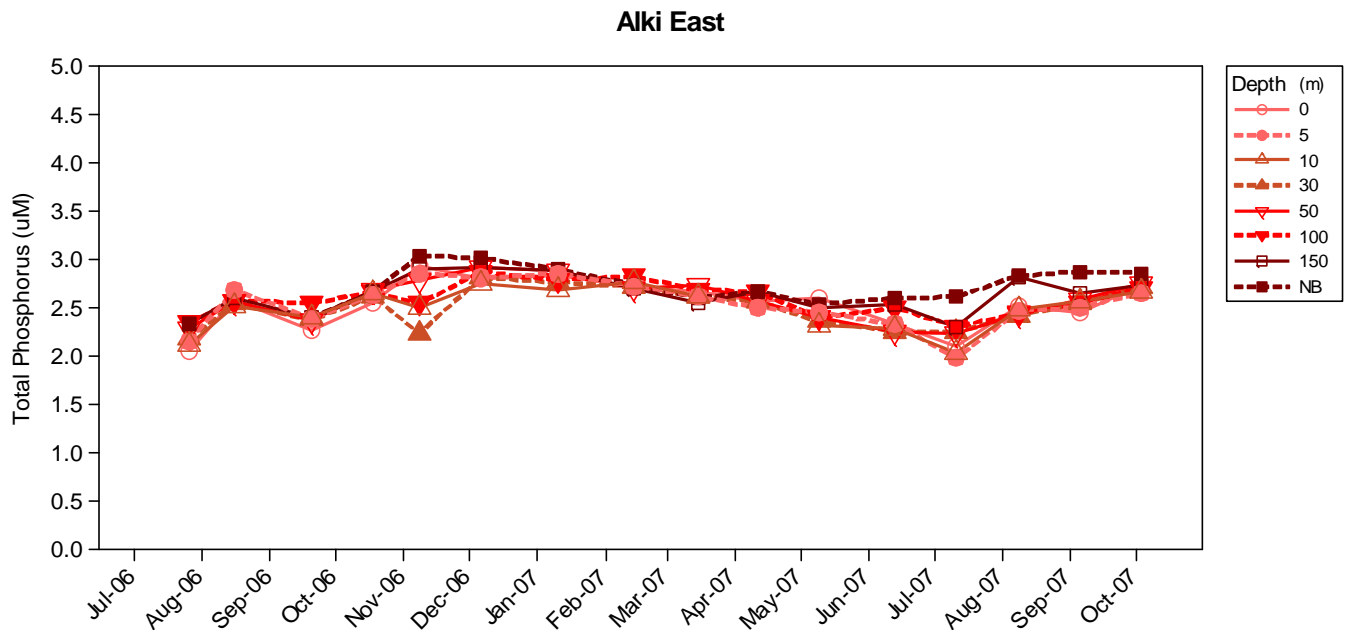


Figure C-187. Monthly total phosphorus (TP) concentrations from samples collected at boundary station Alki East near South Seattle from July 2006 – October 2007.

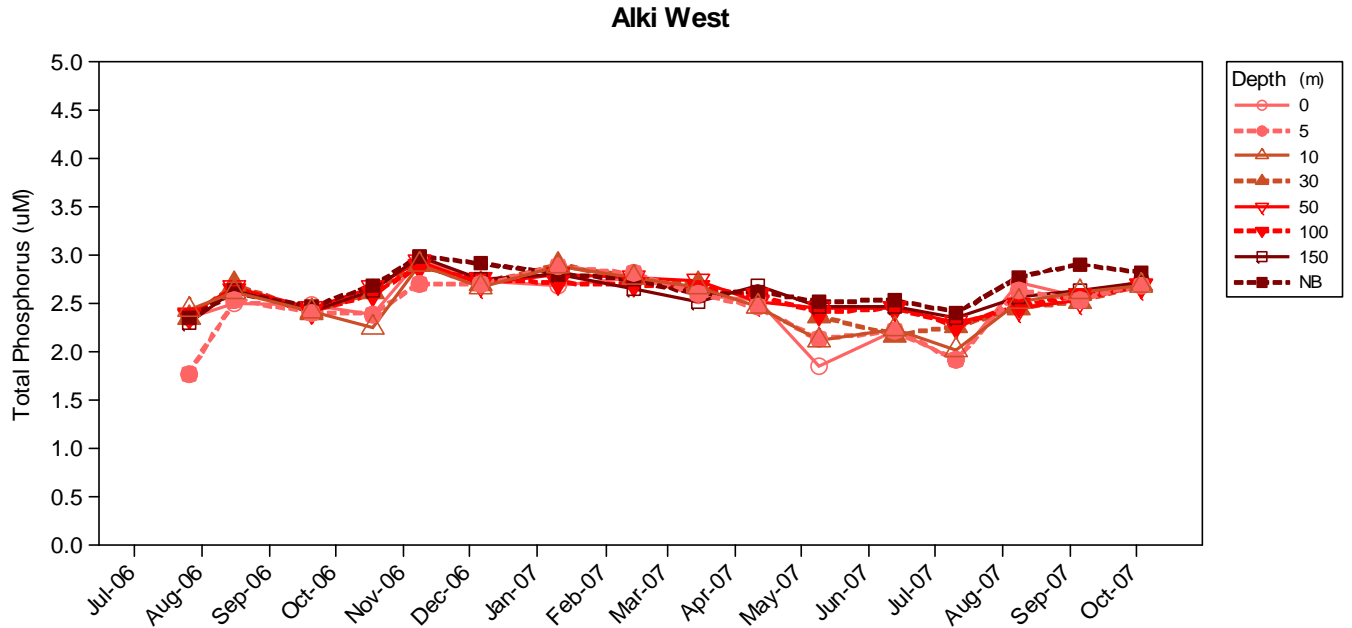


Figure C-188. Monthly total phosphorus (TP) concentrations from samples collected at boundary station Alki West near South Seattle from July 2006 – October 2007.

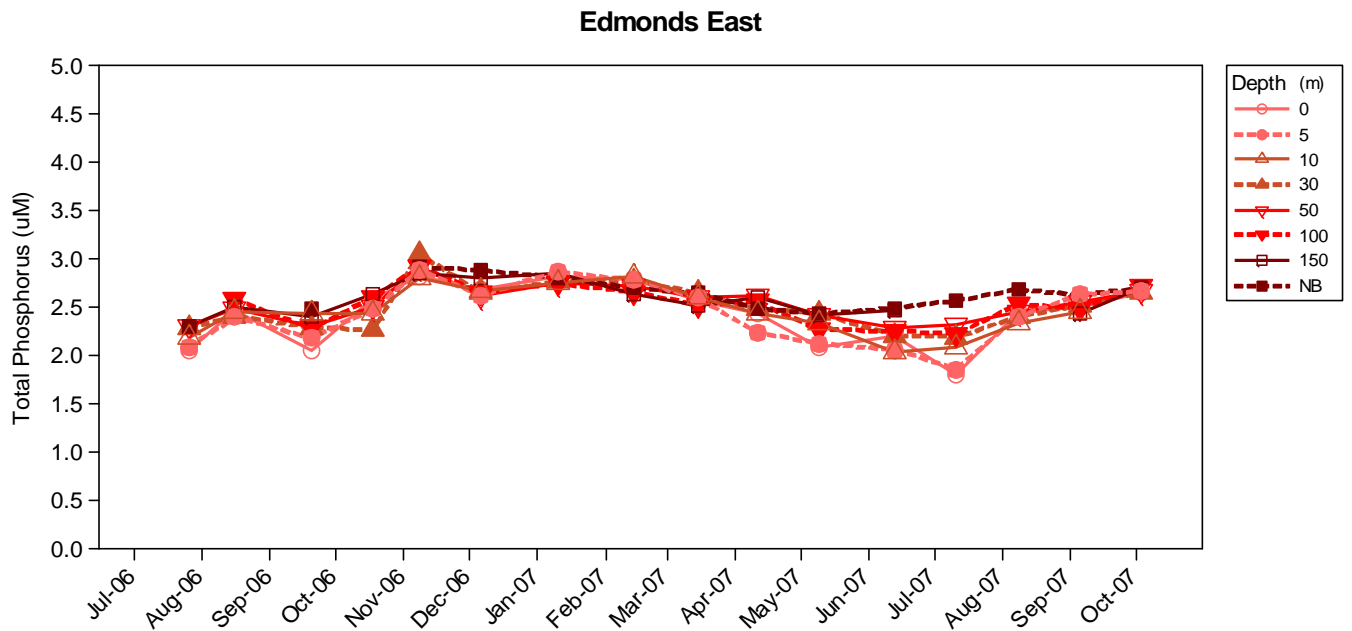


Figure C-189. Monthly total phosphorus (TP) concentrations from samples collected at boundary station Edmonds East in the Central Basin from July 2006 – October 2007.

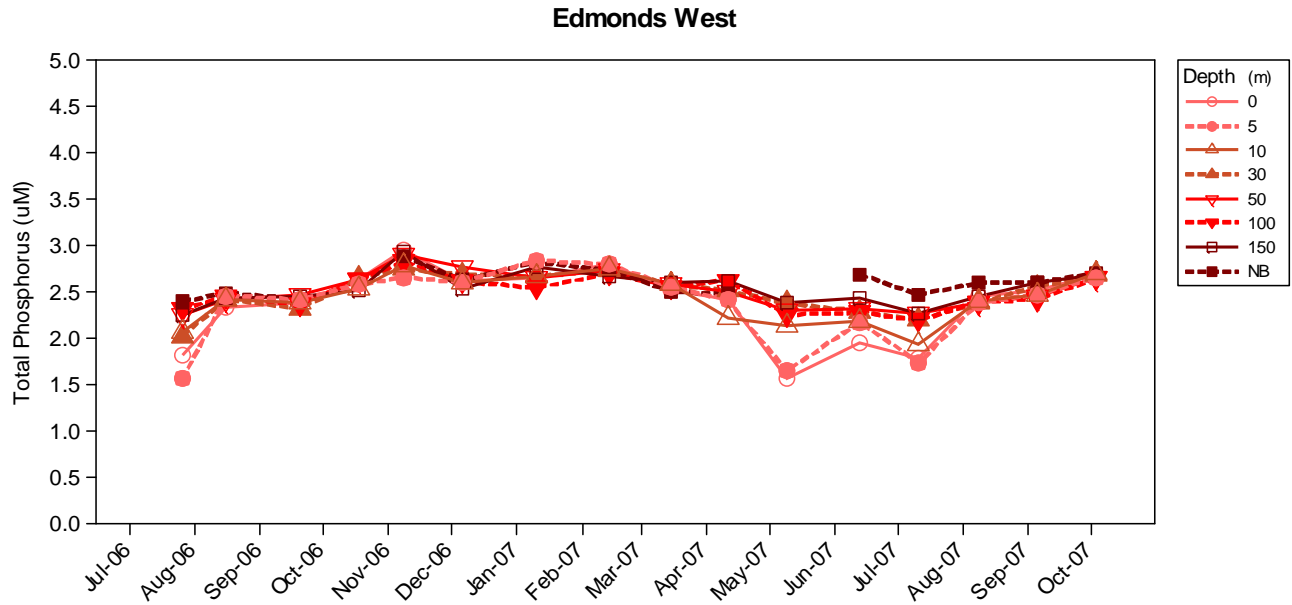


Figure C-190. Monthly total phosphorus (TP) concentrations from samples collected at boundary station Edmonds West in the Central Basin from July 2006 – October 2007.

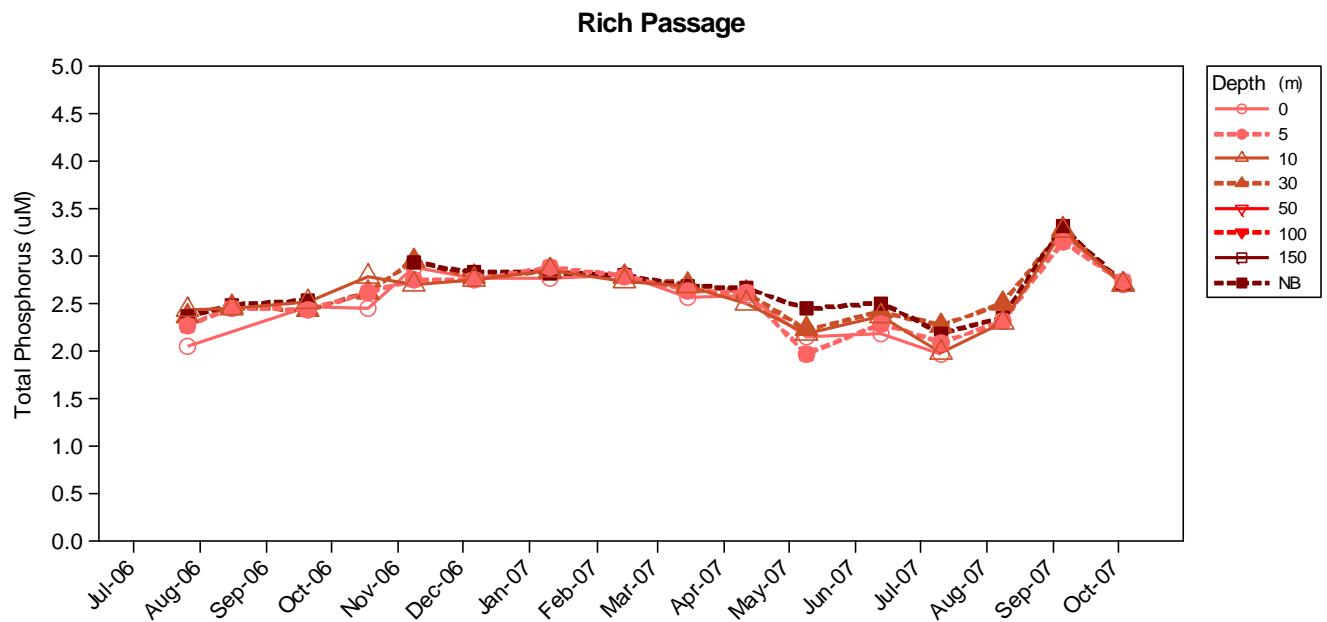


Figure C-191. Monthly orthophosphate (PO₄) concentrations from samples collected at boundary station rich Passage from July 2006 – October 2007.

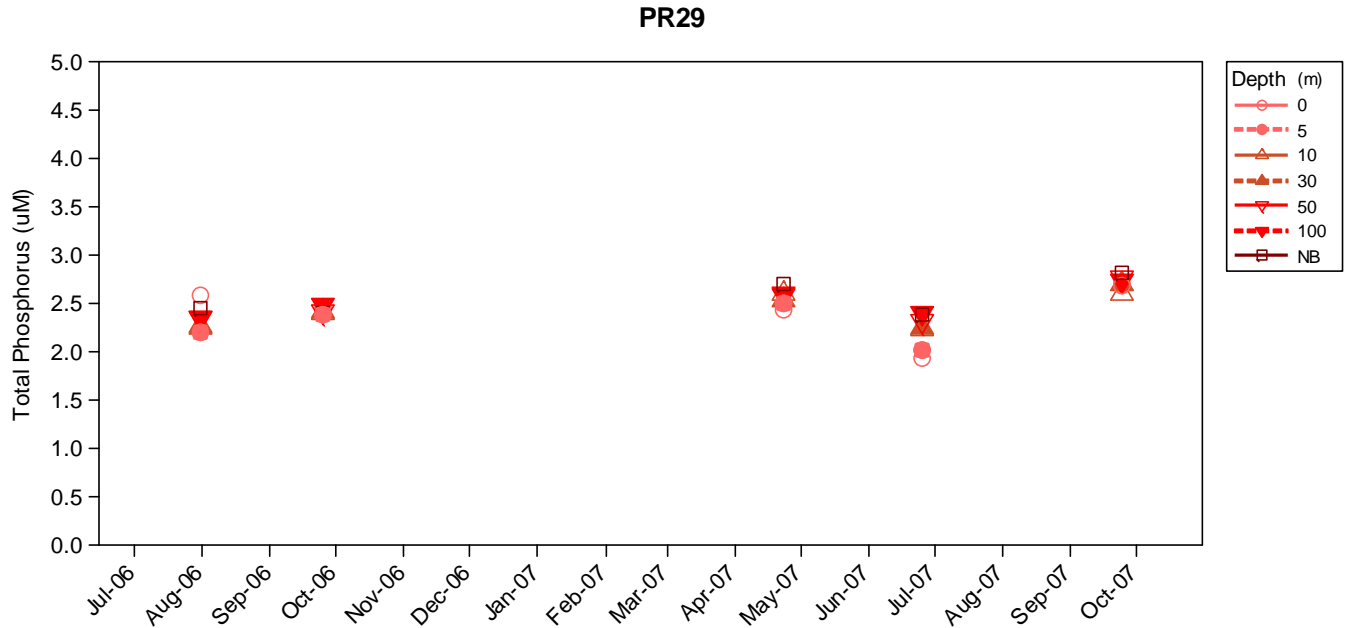


Figure C-192. Monthly total phosphorus (TP) concentrations from samples collected at station PR29 near Blake Island from July 2006 – October 2007.

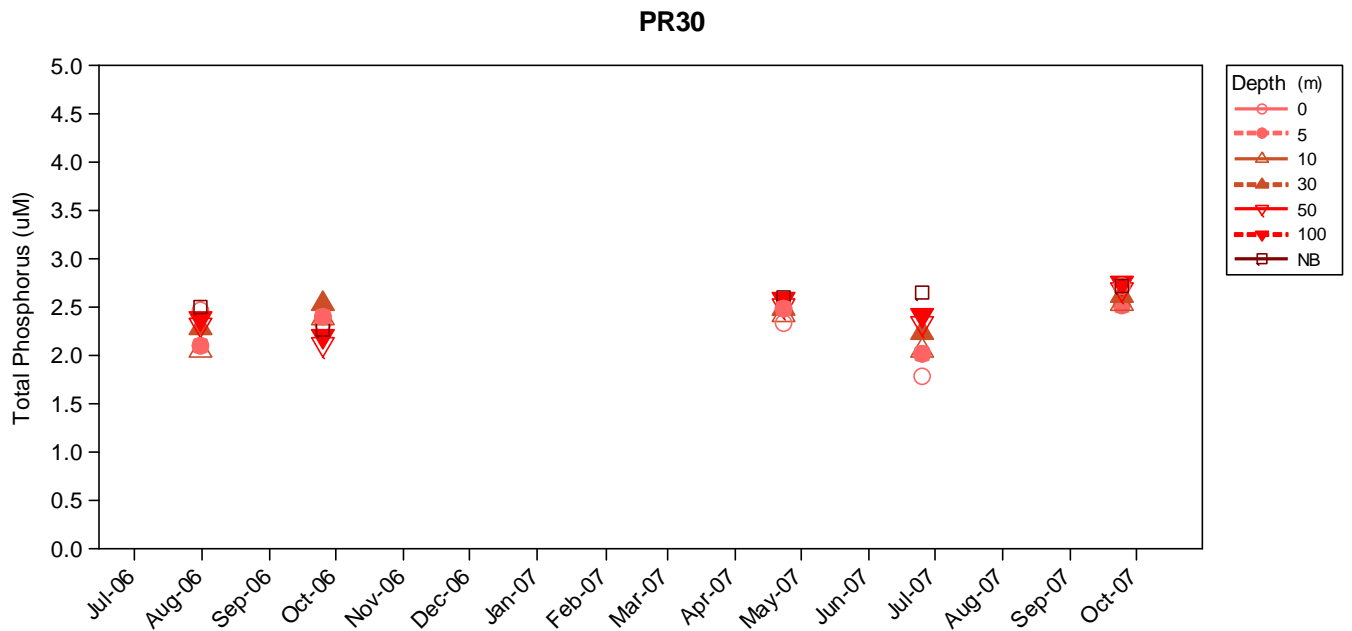


Figure C-193. Monthly total phosphorus (TP) concentrations from samples collected at station PR30 in East Passage from July 2006 – October 2007.

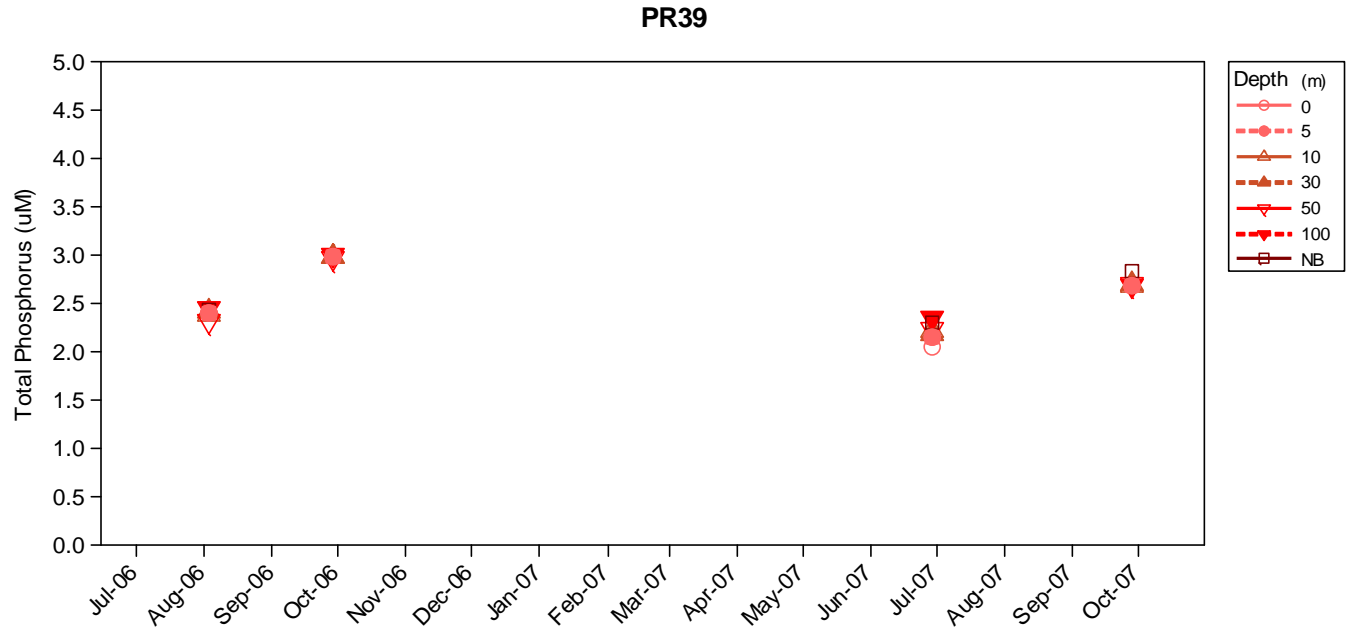


Figure C-194. Monthly total phosphorus (TP) concentrations from samples collected at station PR39 in Colvos Passage from July 2006 – October 2007.

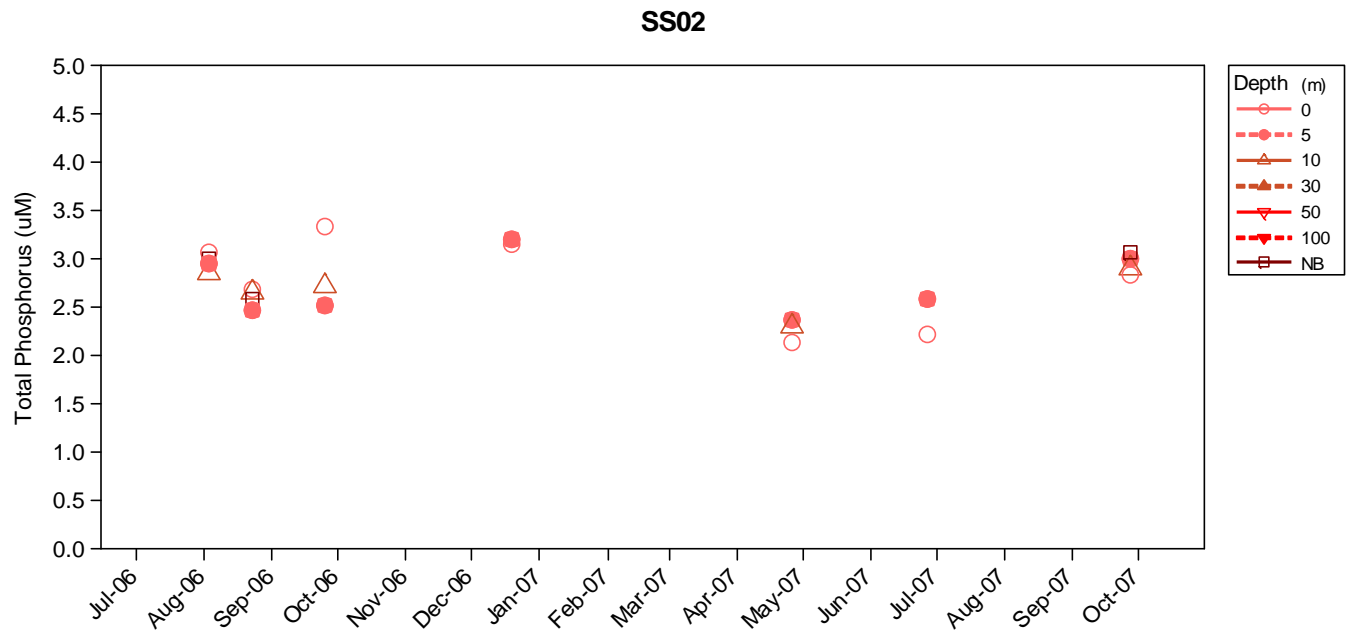


Figure C-195. Monthly total phosphorus (TP) from samples collected at South Sound station SS02 in outer Henderson Inlet from July 2006 – October 2007.

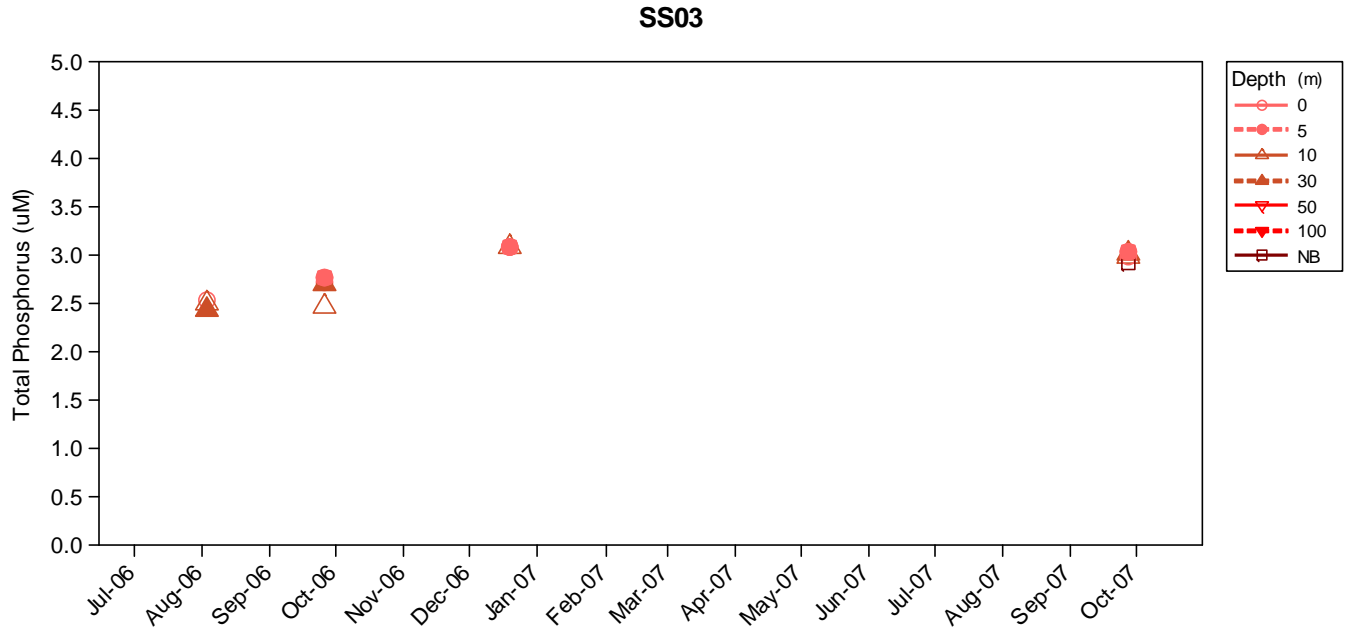


Figure C-196. Monthly total phosphorus (TP) from samples collected at South Sound station SS03 in Dana Passage from July 2006 – October 2007.

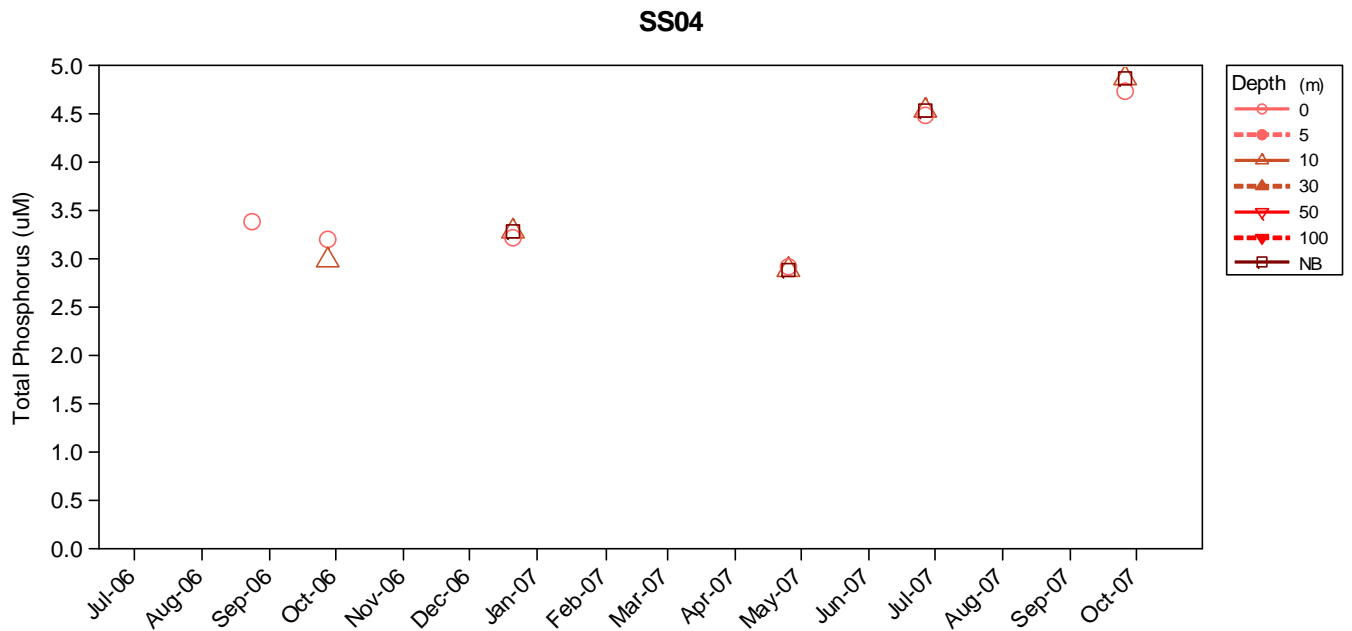


Figure C-197. Monthly total phosphorus (TP) concentrations from samples collected at South Sound station SS04 in South Budd Inlet from July 2006 – October 2007.

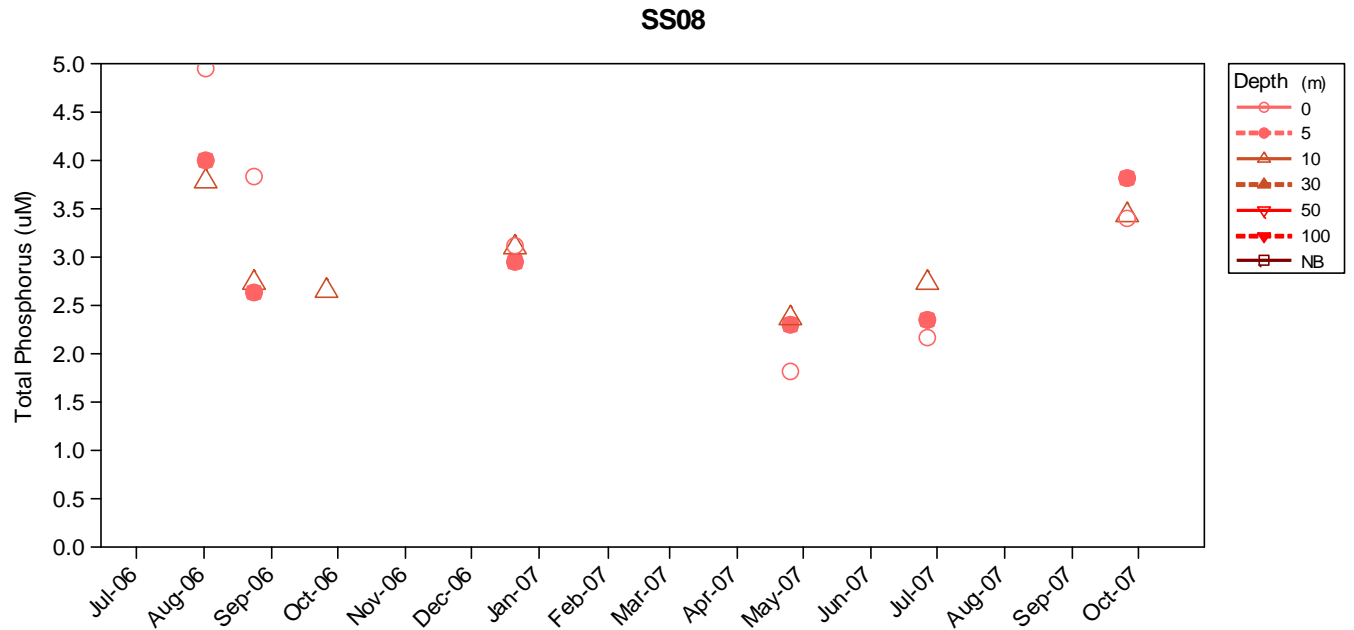


Figure C-198. Monthly total phosphorus (TP) concentrations from samples collected at South Sound station SS08 in central Budd Inlet from July 2006 – October 2007.

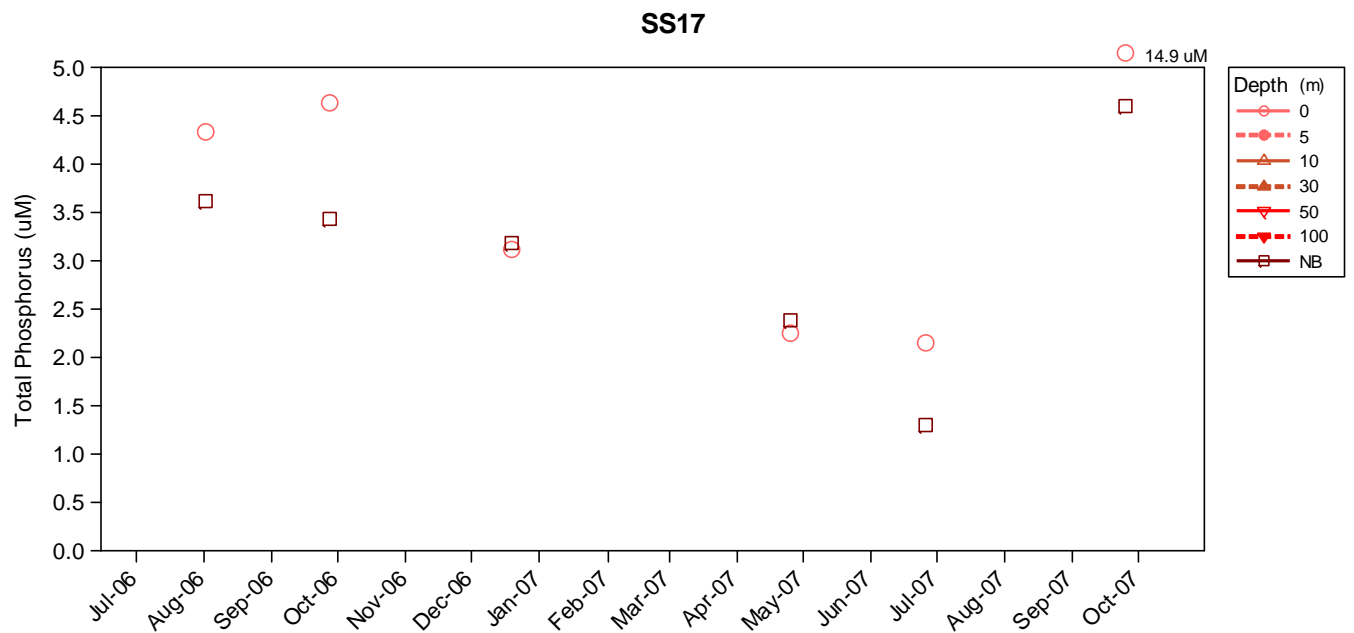


Figure C-199. Monthly total phosphorus (TP) concentrations from samples collected at South Sound station SS17 in inner Eld Inlet from July 2006 – October 2007.

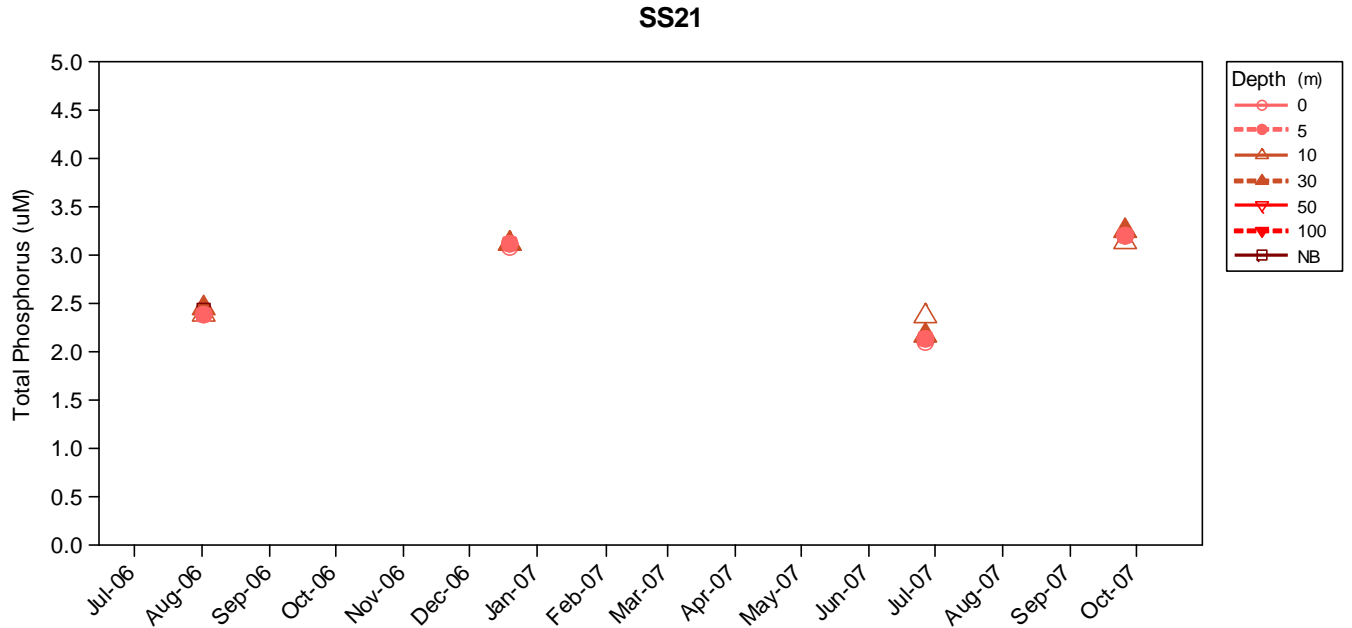


Figure C-200. Monthly total phosphorus (TP) concentrations from samples collected at South Sound station SS21 in outer Totten Inlet from July 2006 – October 2007.

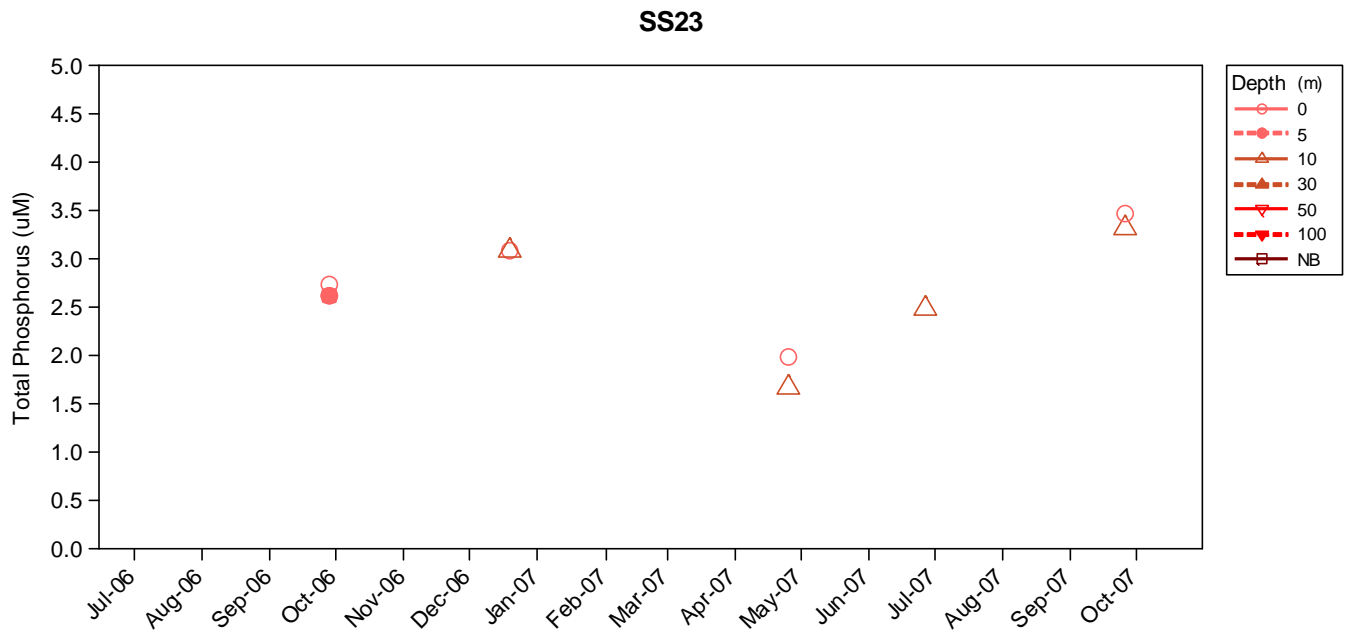


Figure C-201. Monthly total phosphorus (TP) concentrations from samples collected at South Sound station SS23 in central Totten Inlet from July 2006 – October 2007.

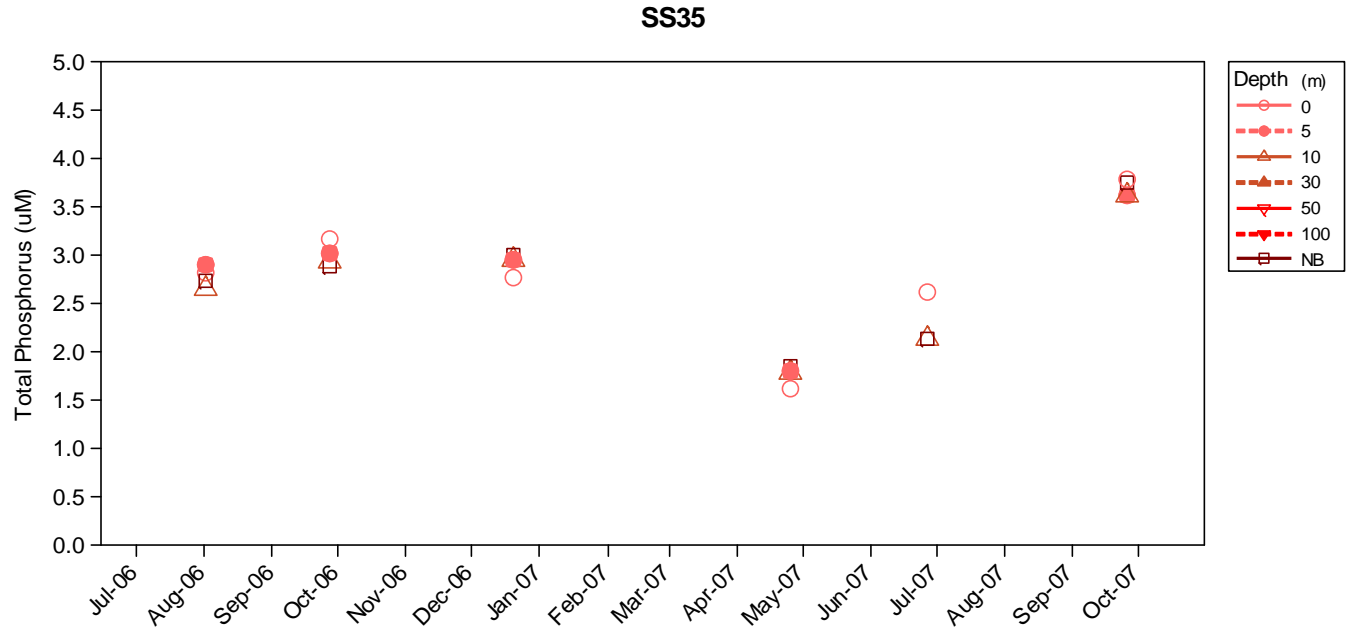


Figure C-202. Monthly total phosphorus (TP) concentrations from samples collected at South Sound station SS35 near the Port of Shelton in Oakland Bay from July 2006 – October 2007.

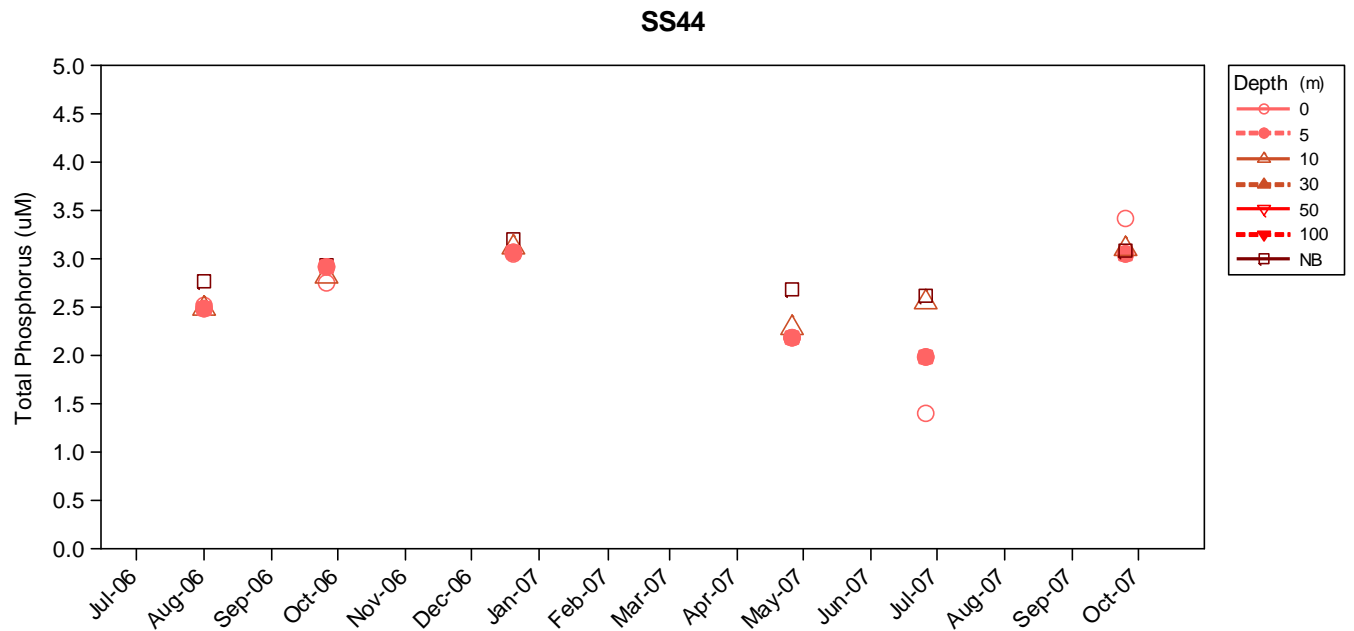


Figure C-203. Monthly total phosphorus (TP) concentrations from samples collected at South Sound station SS44 near North Pickering Passage from July 2006 – October 2007.

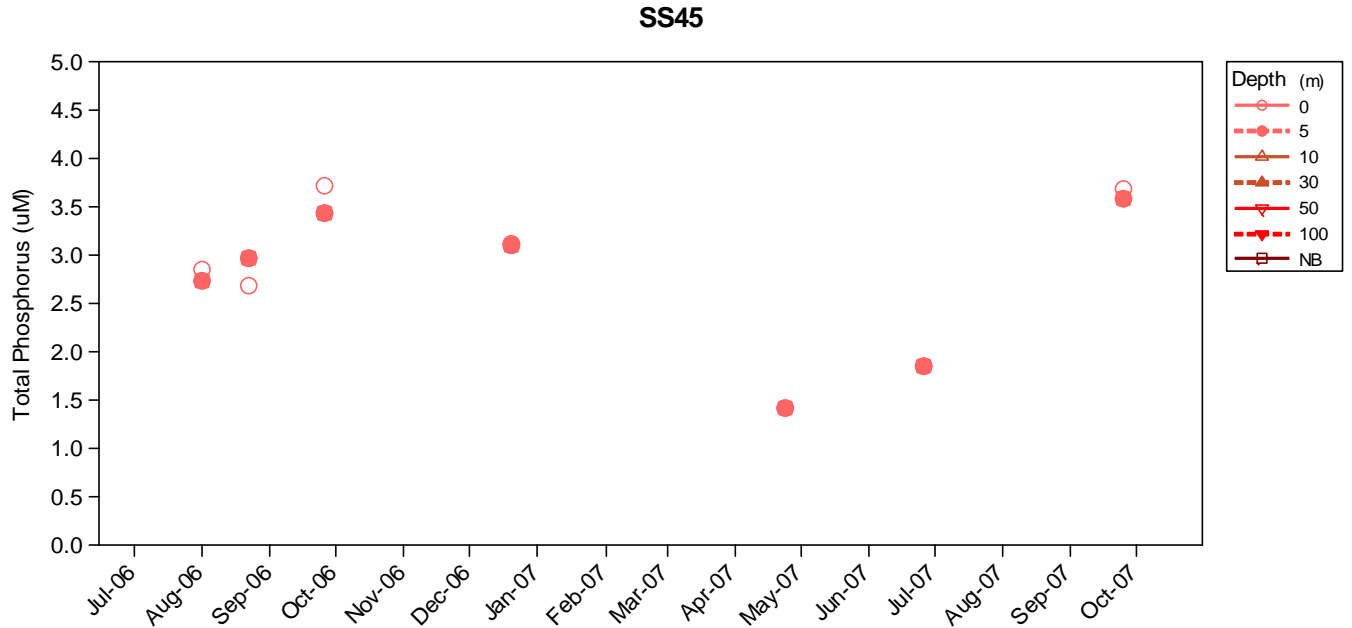


Figure C-204. Monthly total phosphorus (TP) concentrations from samples collected at South Sound station SS45 near inner Case Inlet from July 2006 – October 2007.

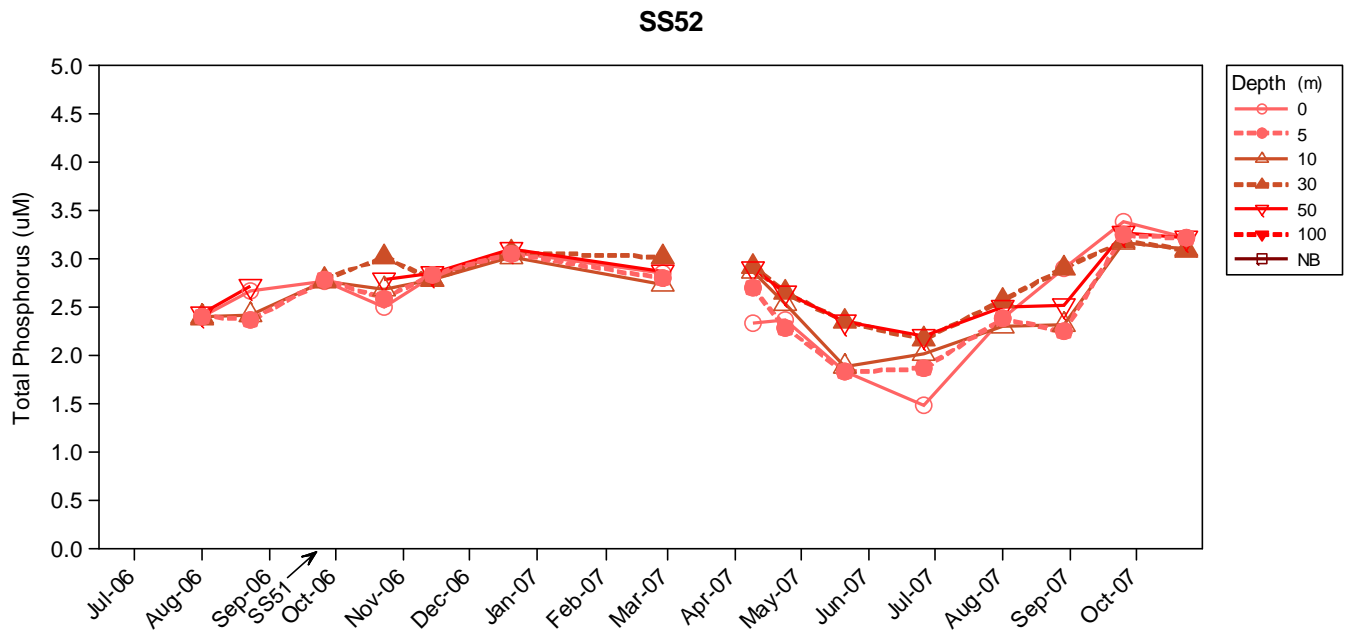


Figure C-205. Monthly total phosphorus (TP) concentrations from samples collected at South Sound station SS52 near central Case Inlet from July 2006 – October 2007.

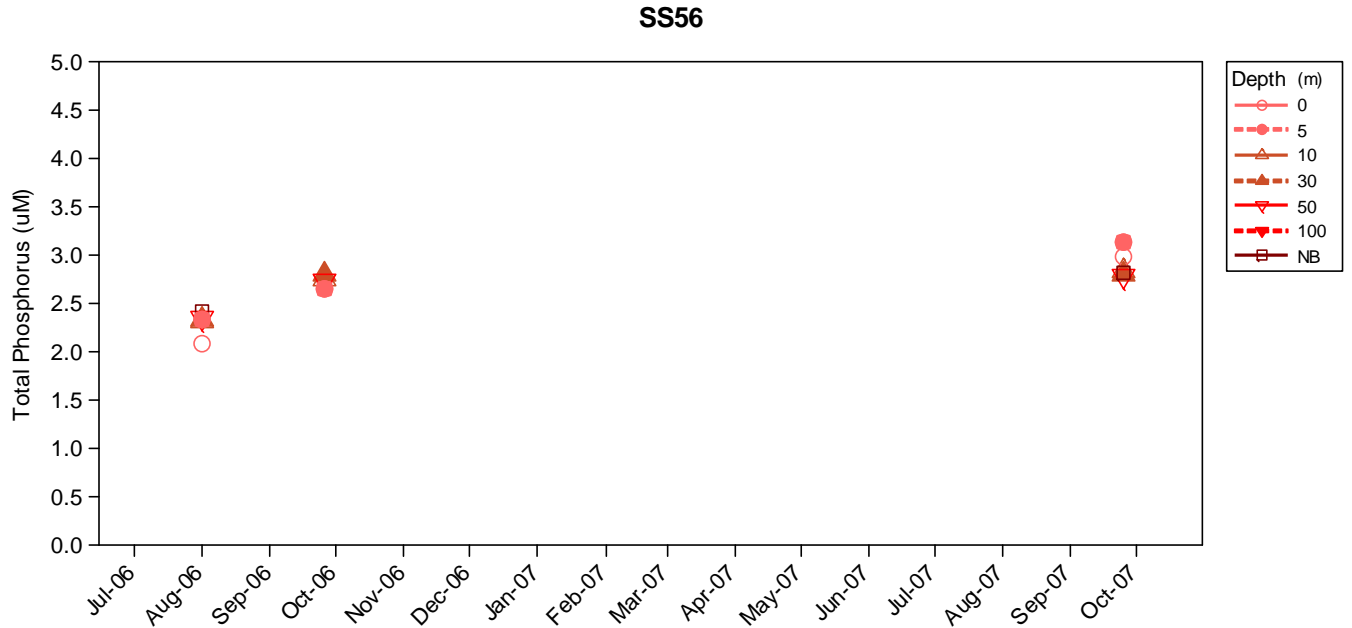


Figure C-206. Monthly total phosphorus (TP) concentrations from samples collected at South Sound station SS56 near South Case Inlet from July 2006 – October 2007.

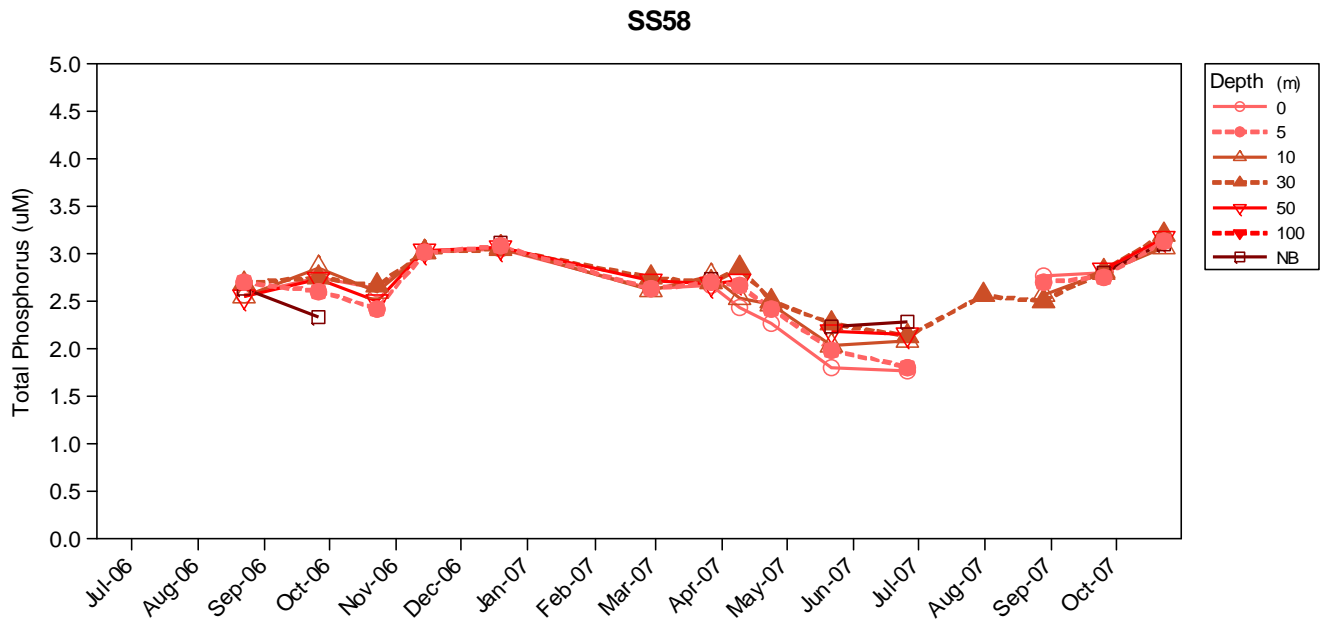


Figure C-207. Monthly total phosphorus (TP) concentrations from samples collected at South Sound station SS58 near South Case Inlet from July 2006 – October 2007.

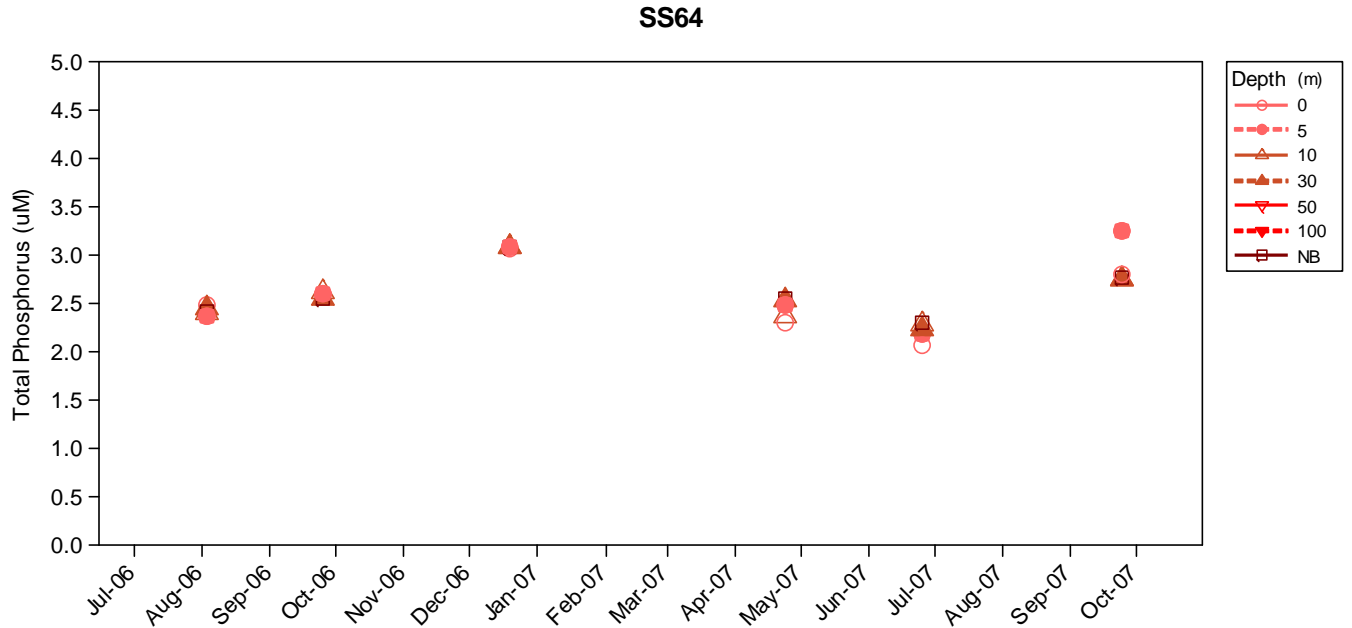


Figure C-208. Monthly total phosphorus (TP) concentrations from samples collected at South Sound station SS64 in Nisqually Reach from July 2006 – October 2007.

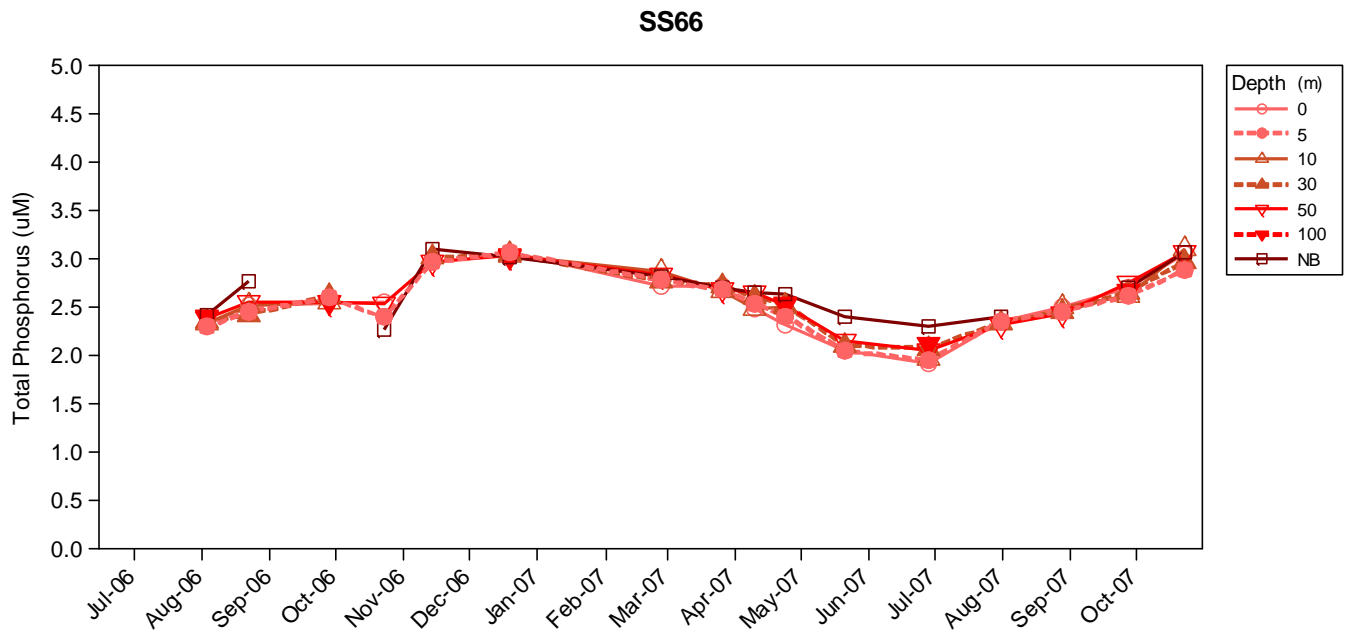


Figure C-209. Monthly total phosphorus (TP) concentrations from samples collected at South Sound station SS66 near Steilacoom from July 2006 – October 2007.

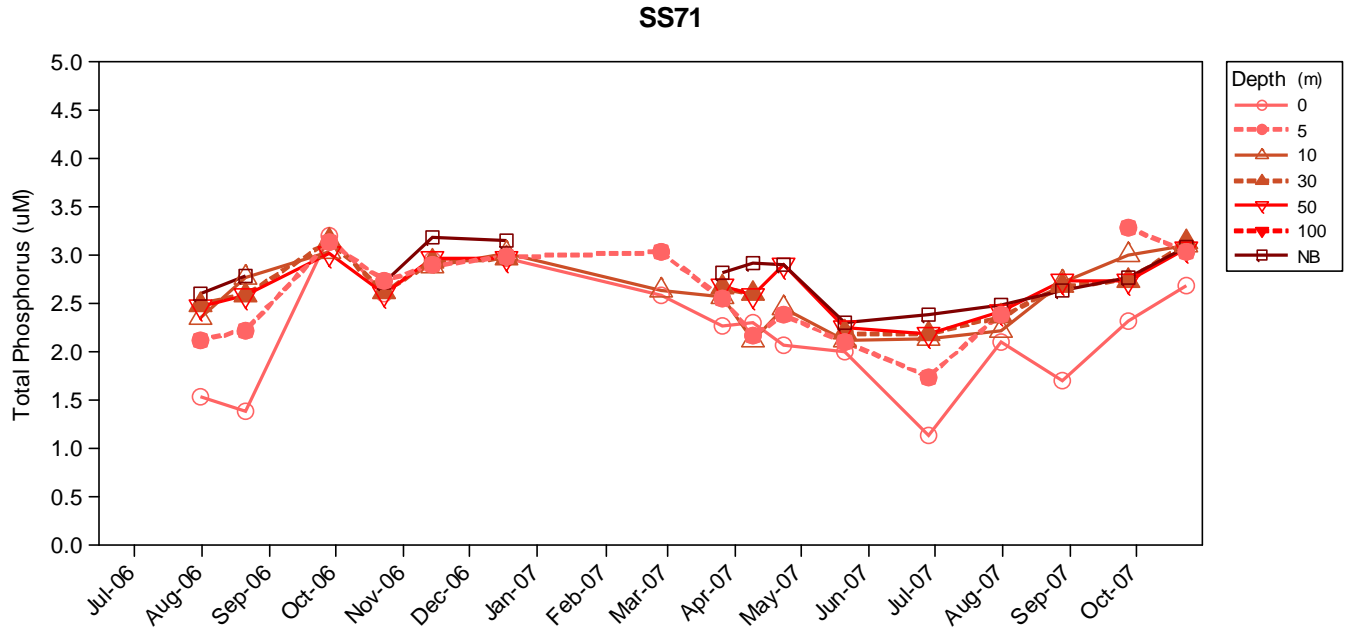


Figure C-210. Monthly total phosphorus (TP) concentrations from samples collected at South Sound station SS71 in Central Carr Inlet from July 2006 – October 2007.

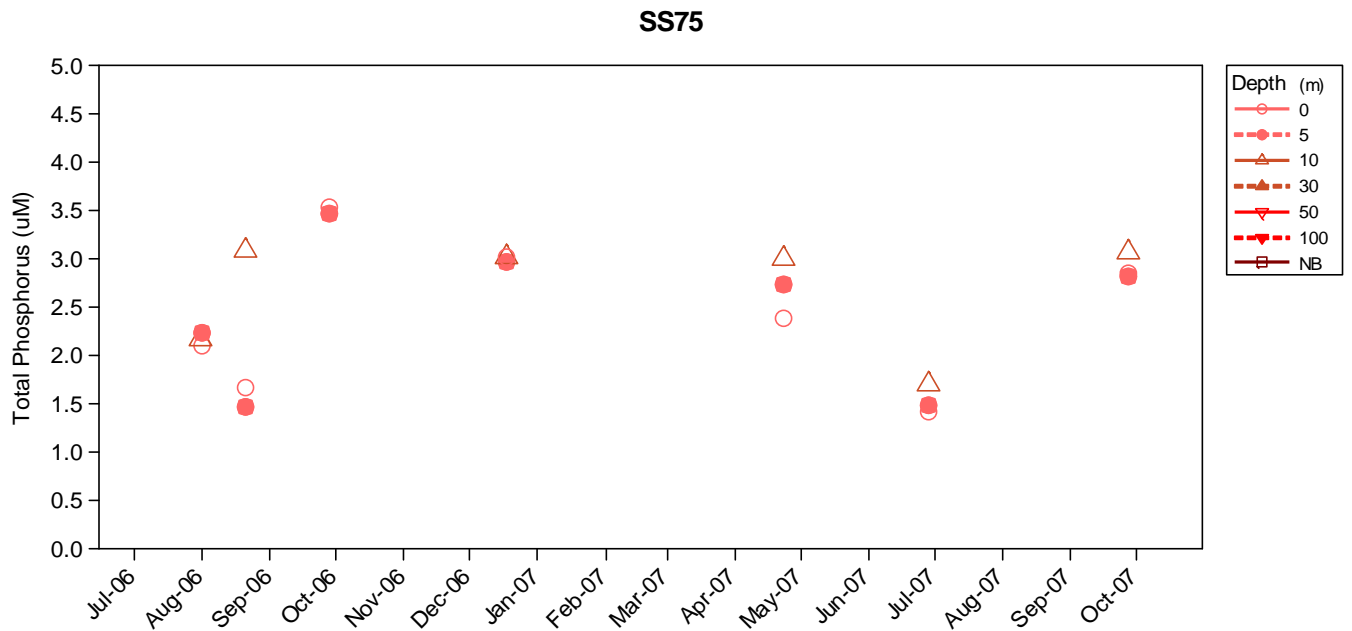


Figure C-211. Monthly total phosphorus (TP) concentrations from samples collected at South Sound station SS75 in North inner Carr from July 2006 – October 2007.

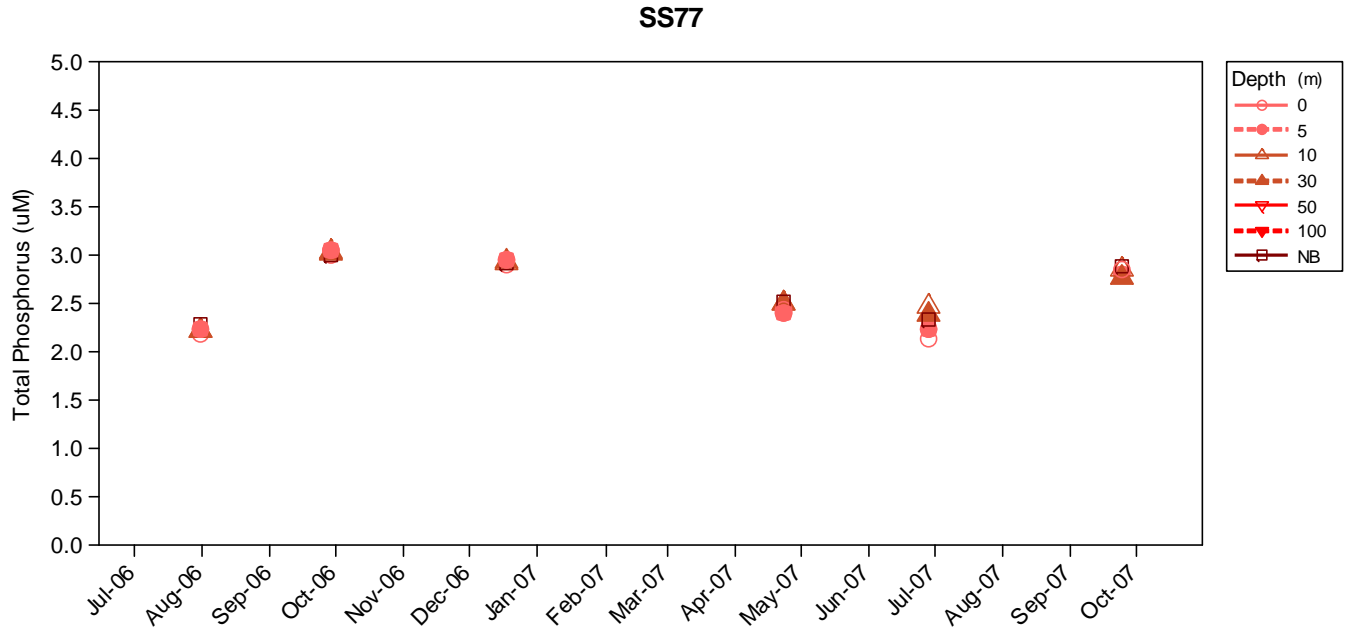


Figure C-212. Monthly total phosphorus (TP) concentrations from samples collected at South Sound station SS77 near the Tacoma Narrows from July 2006 – October 2007.

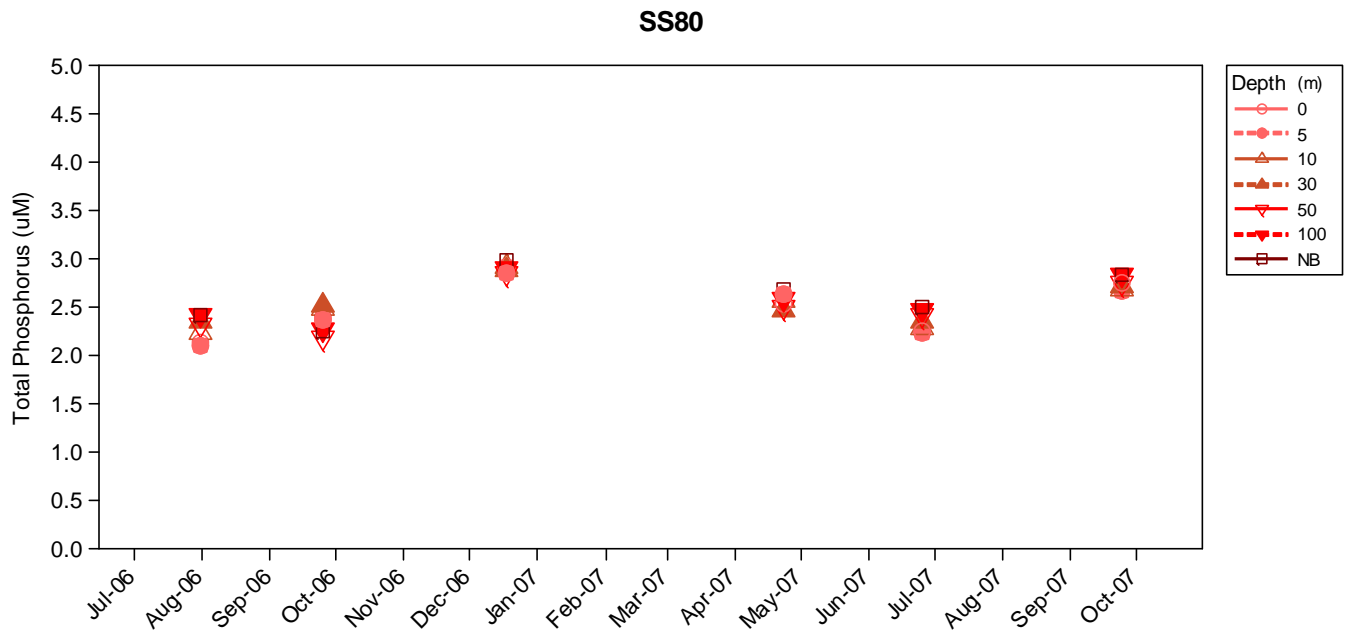


Figure C-213. Monthly total phosphorus (TP) concentrations from samples collected at South Sound station SS80 near Dalco Passage from July 2006 – October 2007.

Ratio of Total Nitrogen to Total Phosphorus

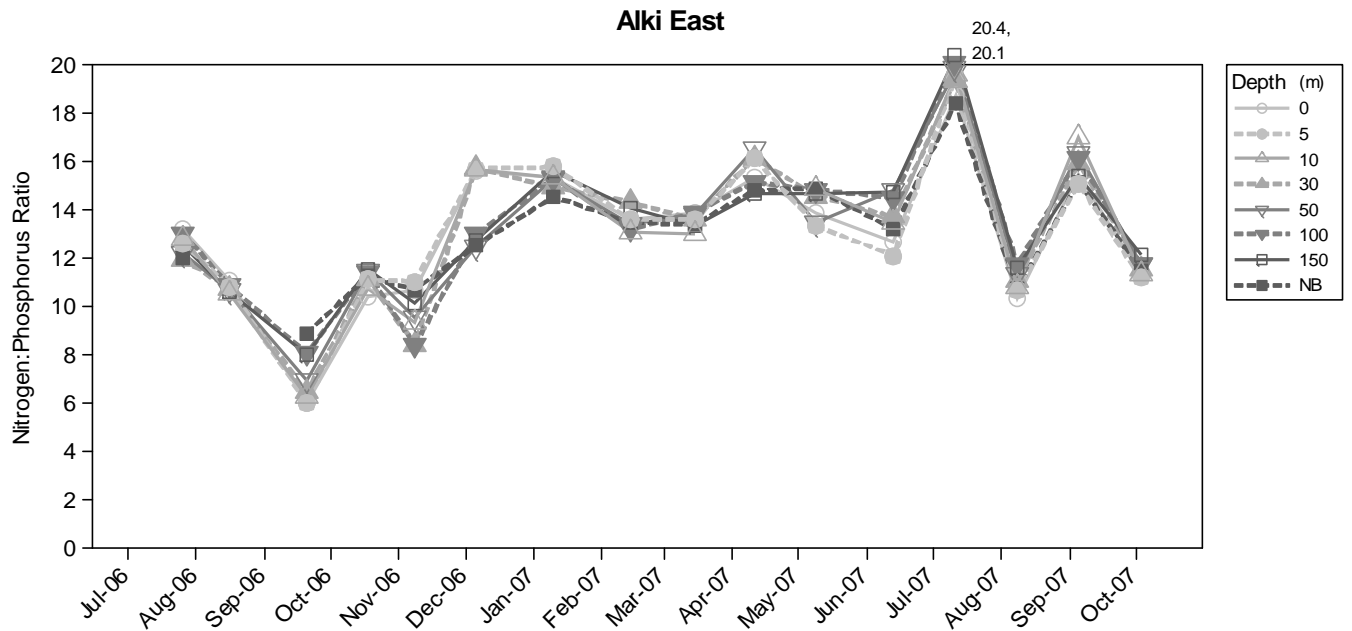


Figure C-214. Ratio of total nitrogen to total phosphorus calculated from samples collected at Alki East boundary station in the central Basin from July 2006 – October 2007.

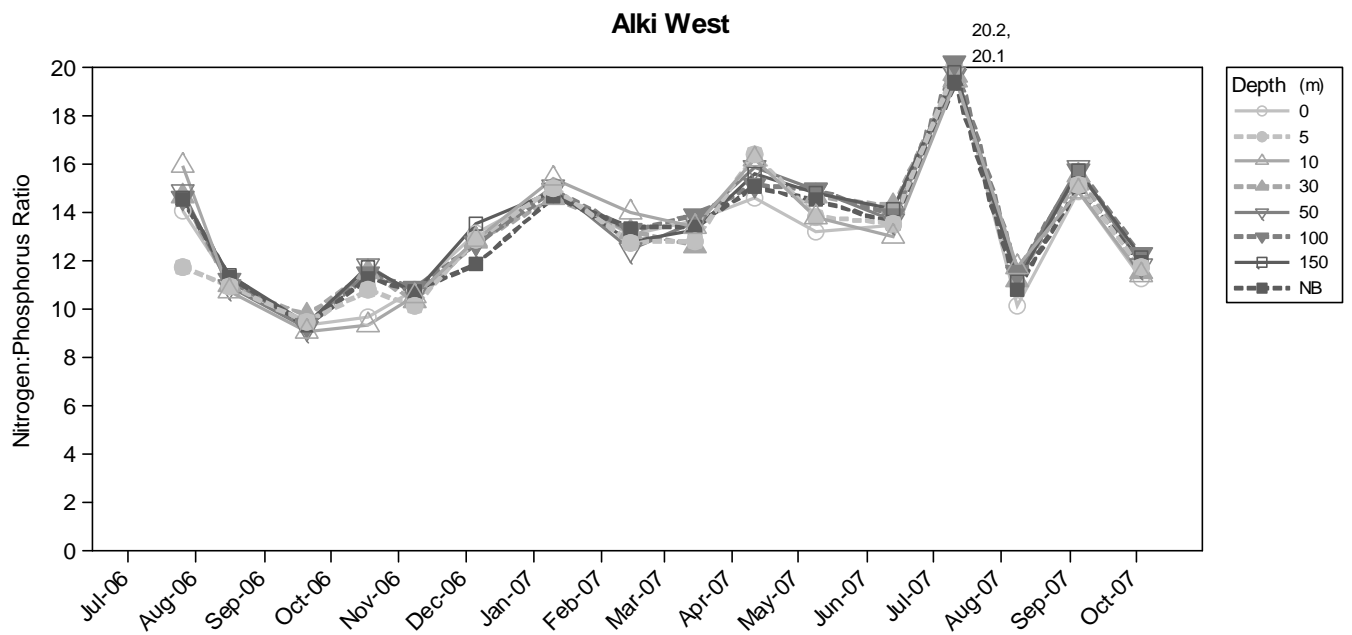


Figure C-215. Ratio of total nitrogen to total phosphorus calculated from samples collected at Alki West boundary station in the central Basin from July 2006 – October 2007.

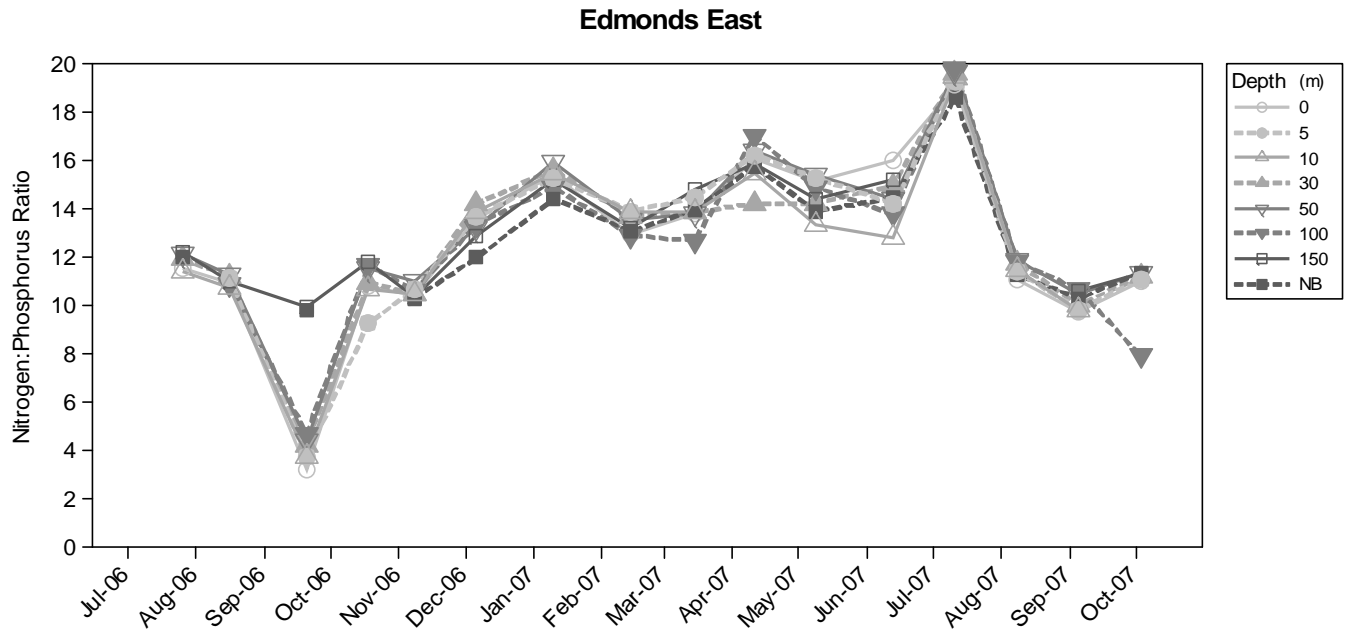


Figure C-216. Ratio of total nitrogen to total phosphorus calculated from samples collected at Edmonds East boundary station in the Central Basin from July 2006 – October 2007.

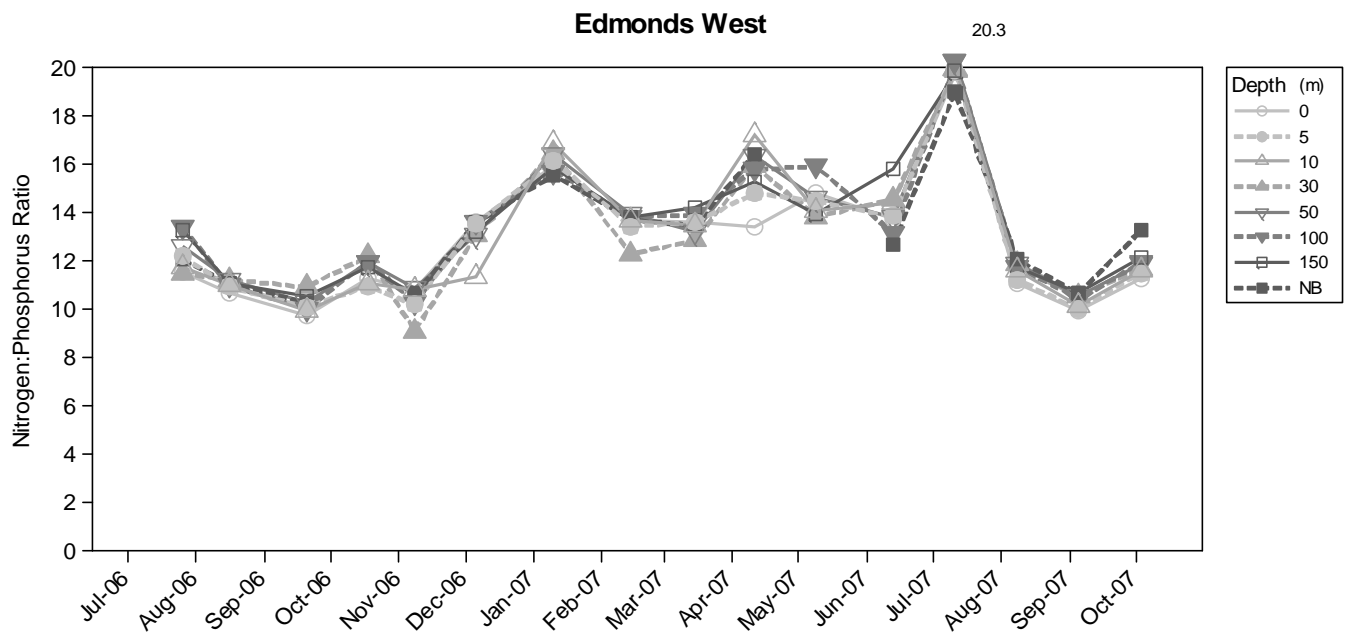


Figure C-217. Ratio of total nitrogen to total phosphorus calculated from samples collected at Edmonds West boundary station in the Central Basin from July 2006 – October 2007.

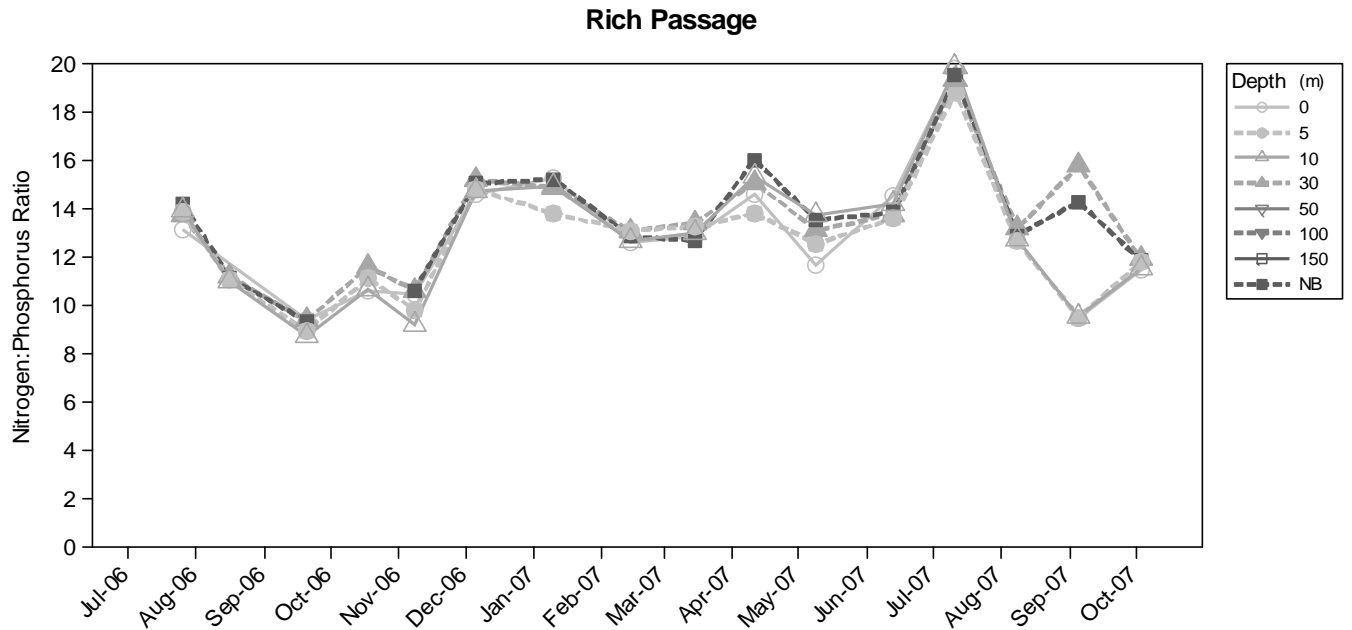


Figure C-218. Ratio of total nitrogen to total phosphorus calculated from samples collected at Rich Passage boundary station from July 2006 – October 2007.

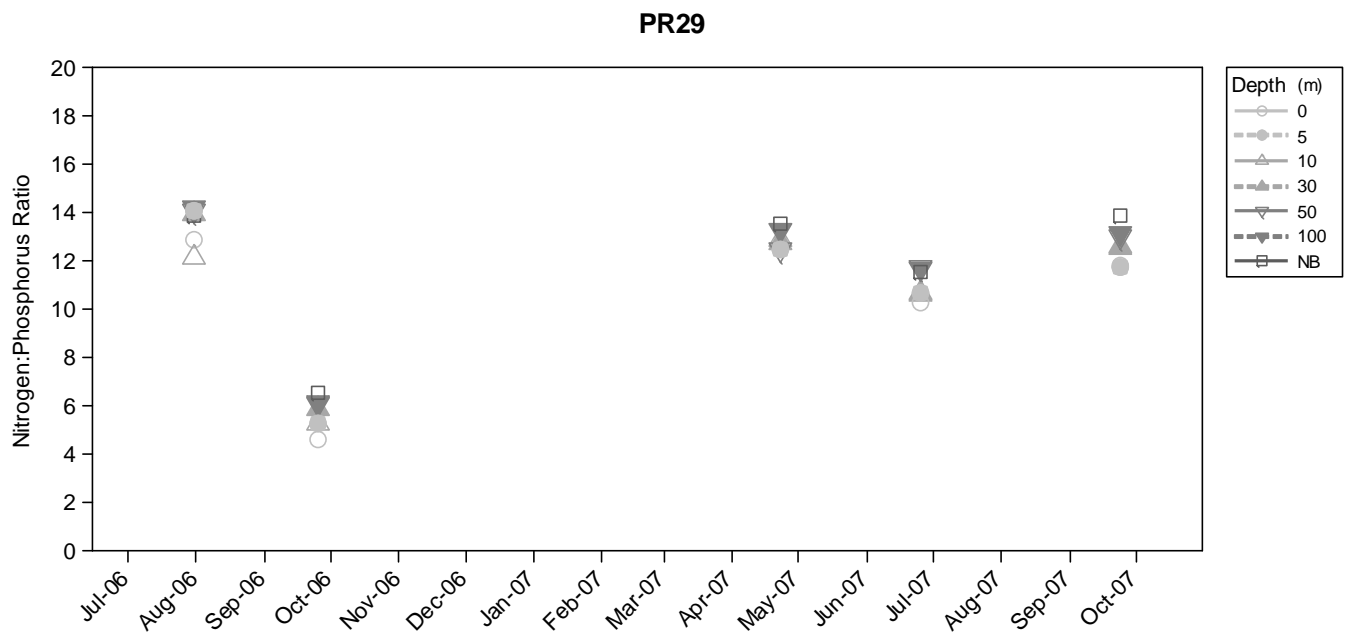


Figure C-219. Ratio of total nitrogen to total phosphorus calculated from samples collected at station PR29 near Blake Island from July 2006 – October 2007.

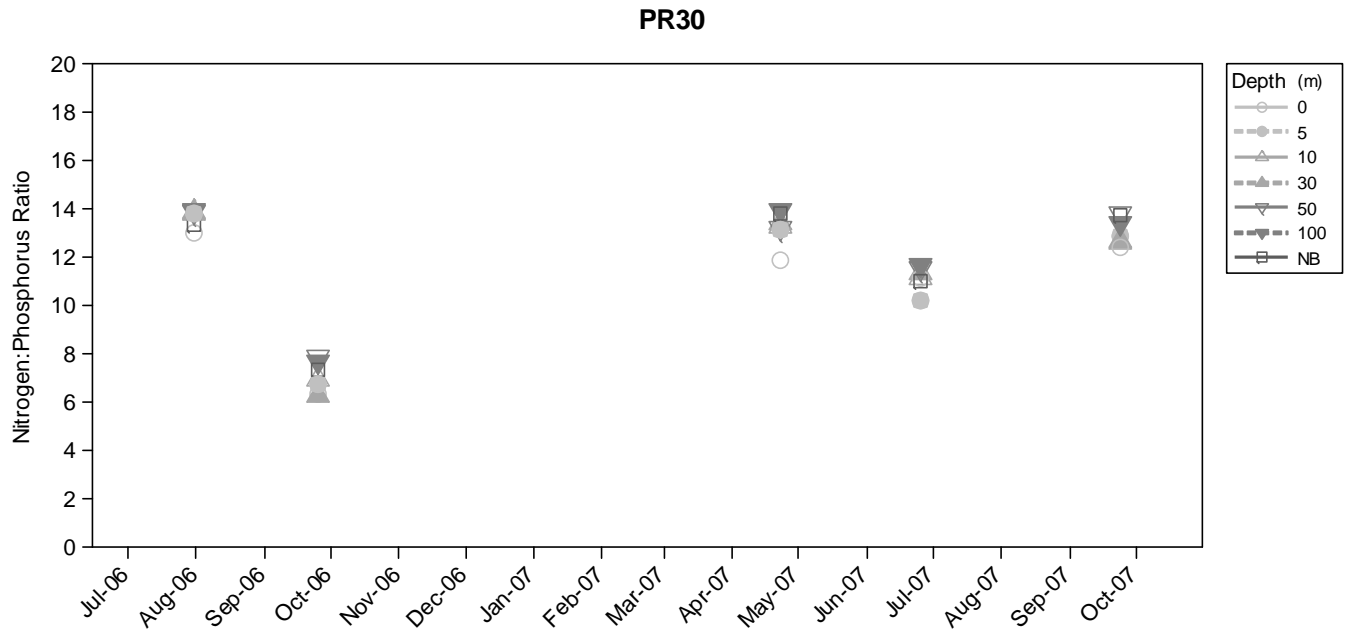


Figure C-220. Ratio of total nitrogen to total phosphorus calculated from samples collected at stations PR30 in East Passage from July 2006 – Oct 2007.

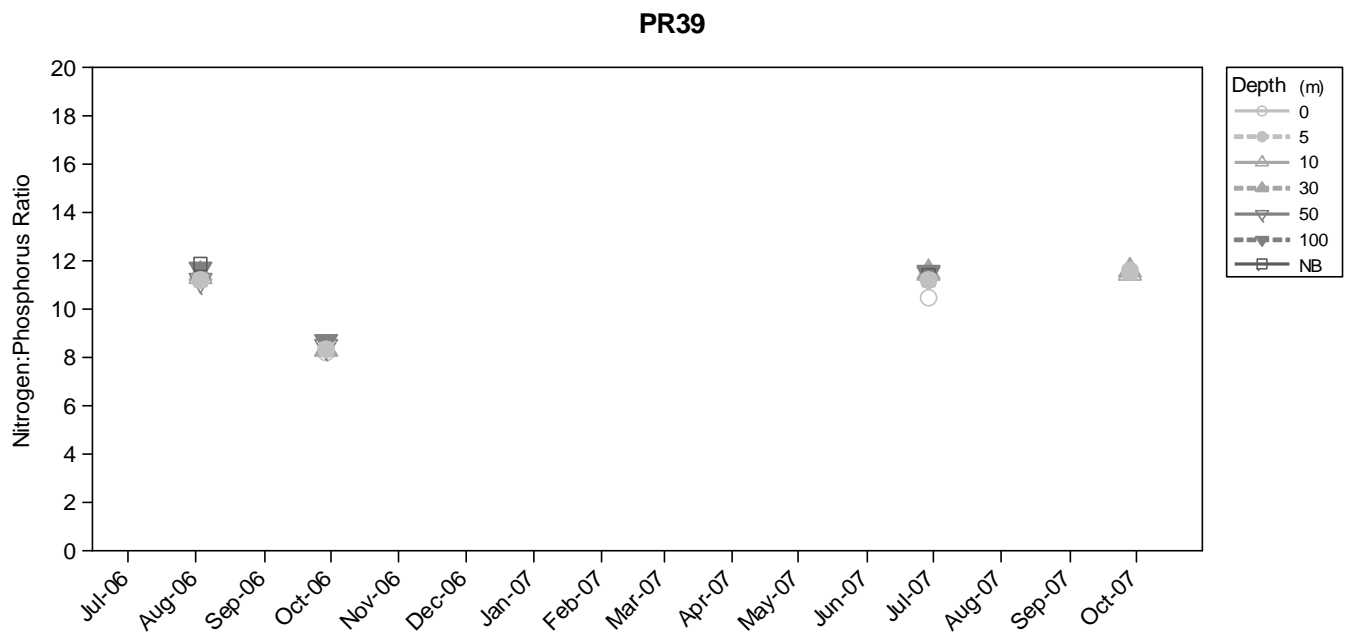


Figure C-221. Ratio of total nitrogen to total phosphorus calculated from samples collected at station PR39 in Colvos Passage from July 2006 – October 2007.

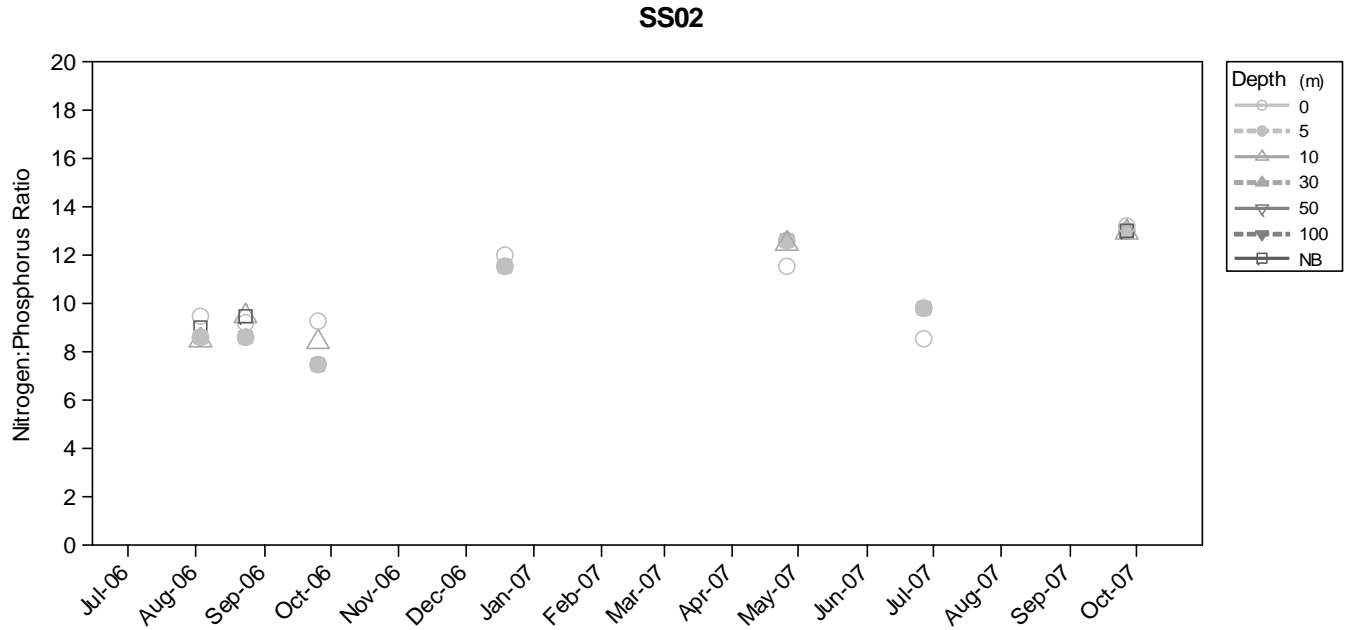


Figure C-222. Ratio of total nitrogen to total phosphorus calculated from samples collected at station SS02 in upper Henderson Inlet from July 2006 – October 2007.

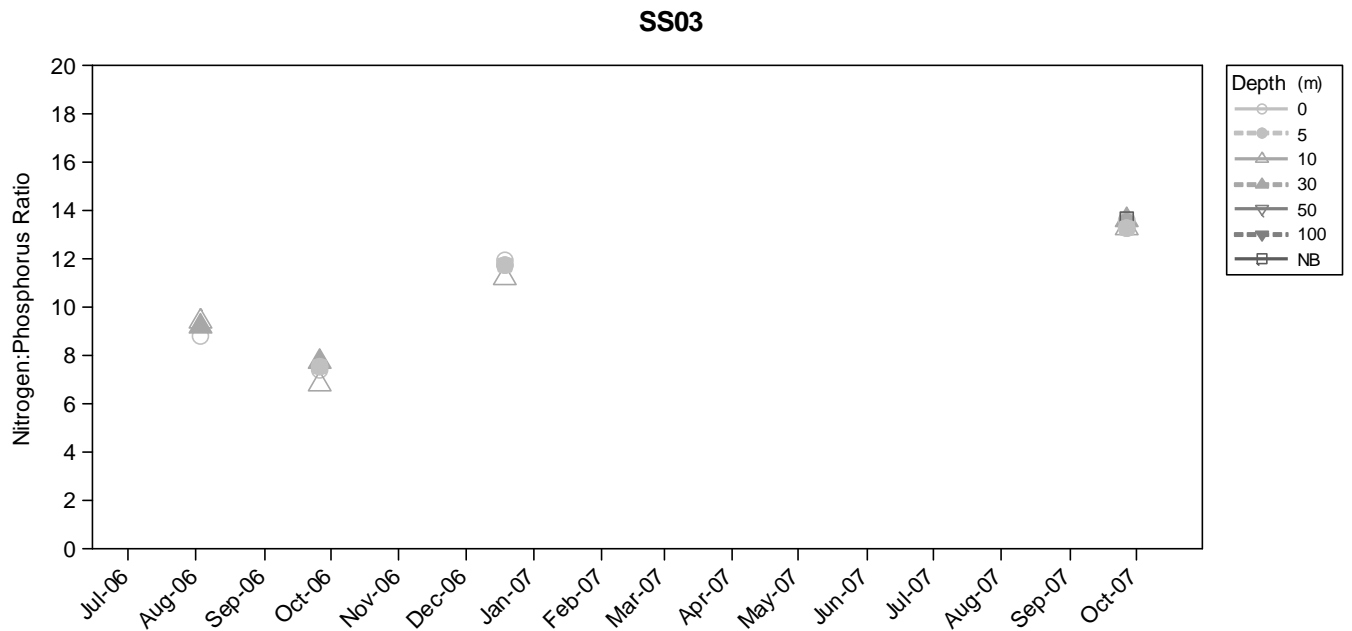


Figure C-223. Ratio of total nitrogen to total phosphorus calculated from data collected at South Sound station SS03 in inner Budd Inlet from July 2006 – October 2007.

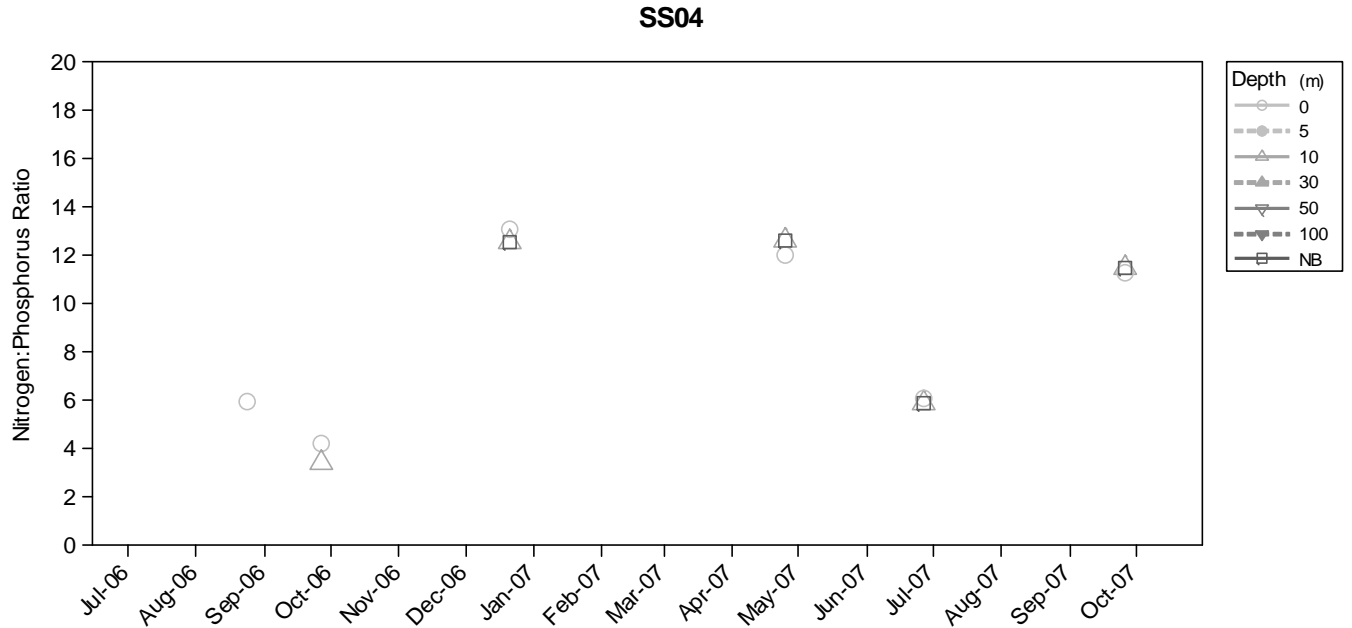


Figure C-224. Ratio of total nitrogen to total phosphorus calculated from data collected at South Sound station SS04 in inner Budd Inlet from July 2006 – October 2007.

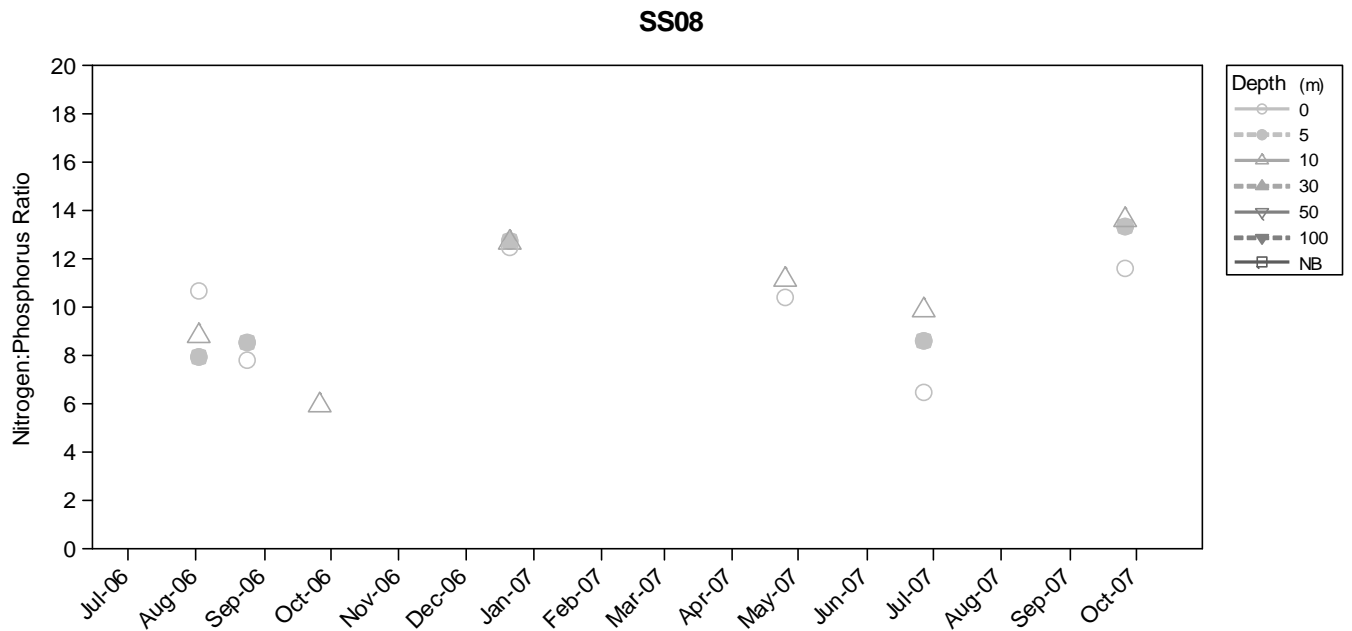


Figure C-225. Ratio of total nitrogen to total phosphorus calculated from data collected at South Sound station SS08 upper Budd Inlet from July 2006 – October 2007.

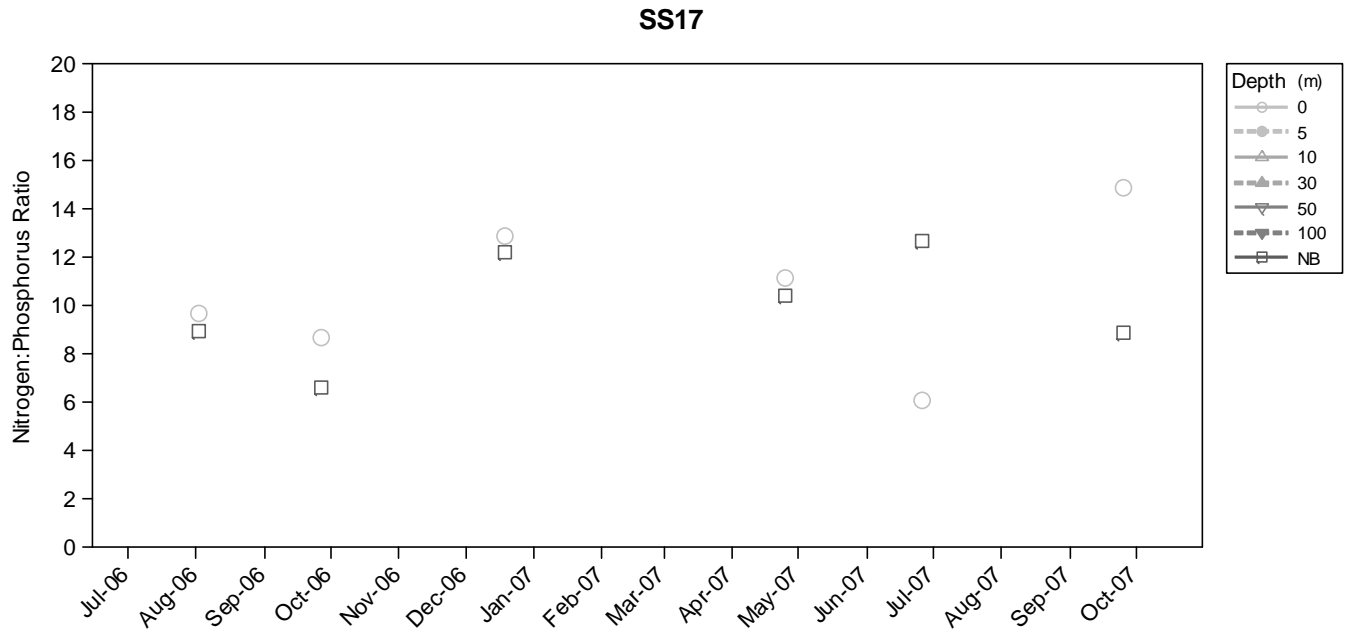


Figure C-226. Ratio of total nitrogen to total phosphorus calculated from data collected at South Sound station SS17 inner Eld Inlet from July 2006 – October 2007.

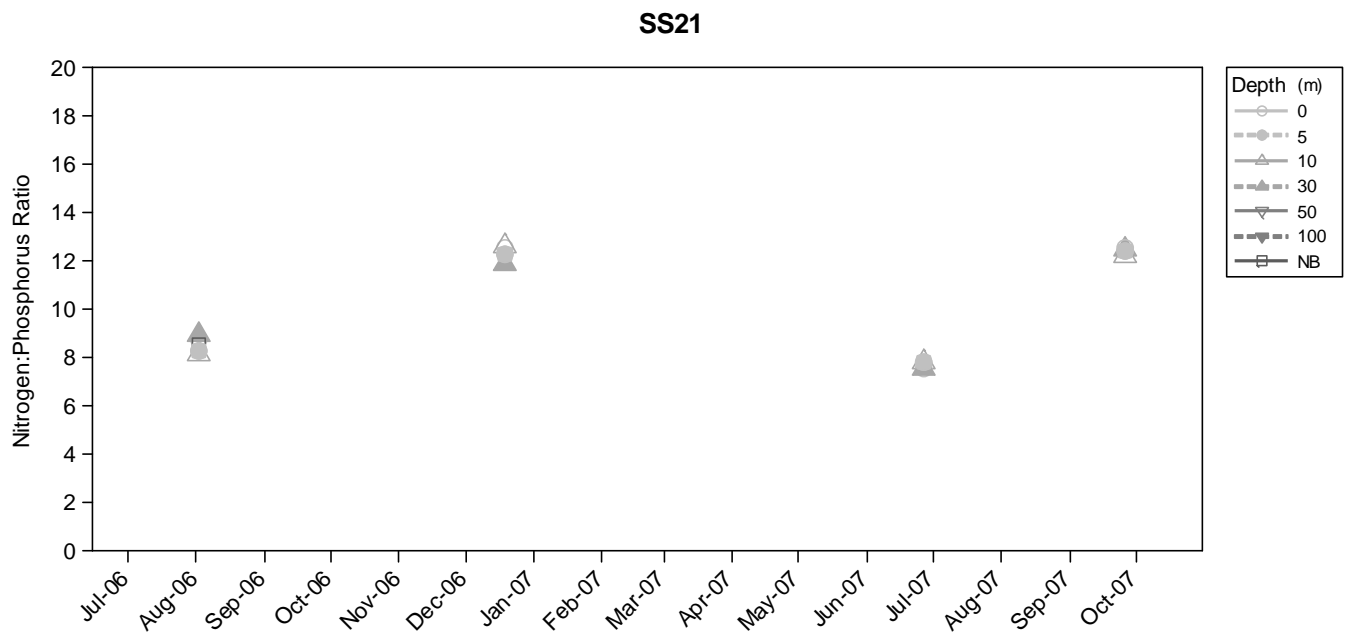


Figure C-227. Ratio of total nitrogen to total phosphorus calculated from data collected at South Sound station SS21 near outer Totten Inlet from July 2006 – October 2007.

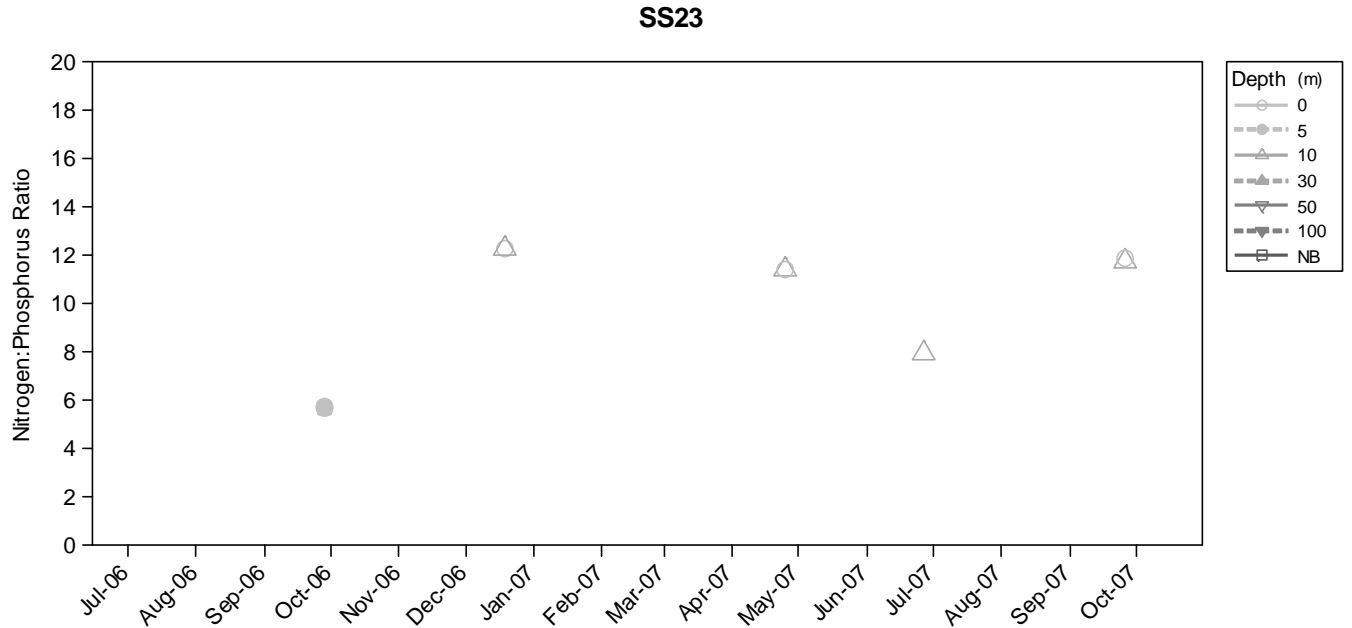


Figure C-228. Ratio of total nitrogen to total phosphorus calculated from data collected at South Sound station SS23 near central Totten Inlet from July 2006 – October 2007.

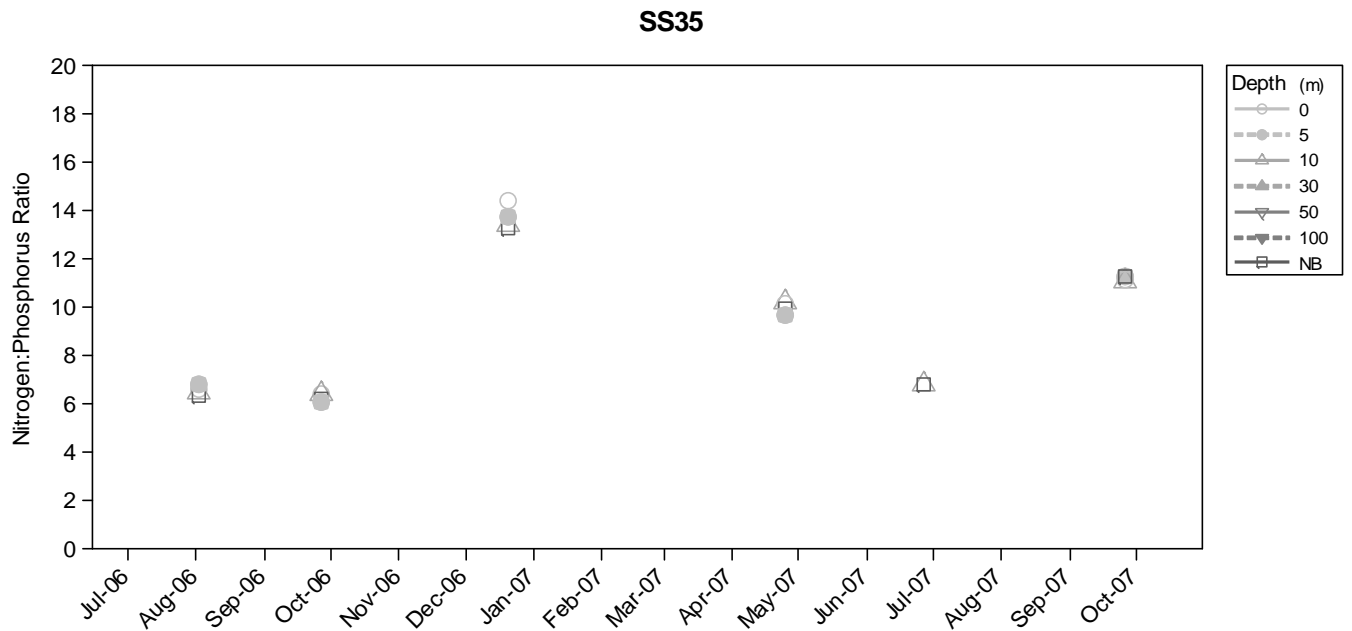


Figure C-229. Ratio of total nitrogen to total phosphorus calculated from data collected at South Sound station SS35 near the Port of Shelton in Oakland Bay from July 2006 – October 2007.

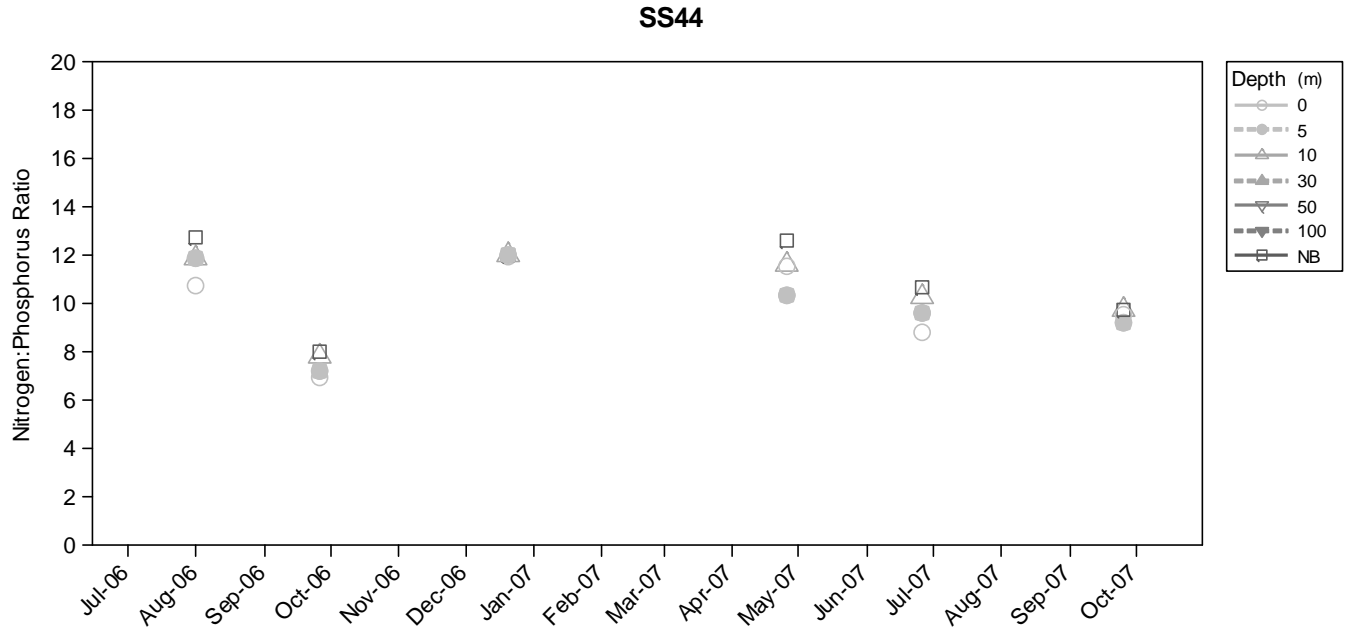


Figure C-230. Ratio of total nitrogen to total phosphorus calculated from data collected at South Sound station SS44 near North Pickering Passage from July 2006 – October 2007.

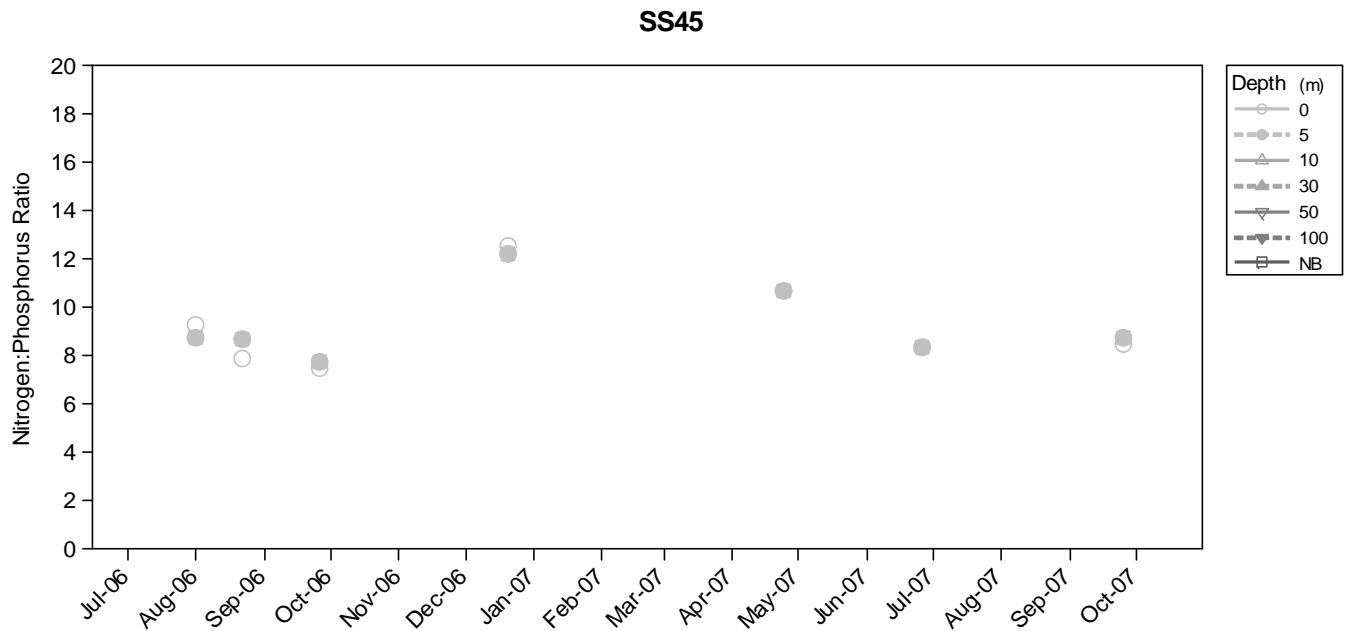


Figure C-231. Ratio of total nitrogen to total phosphorus calculated from data collected at South Sound station SS45 near inner Case Inlet from July 2006 – October 2007.

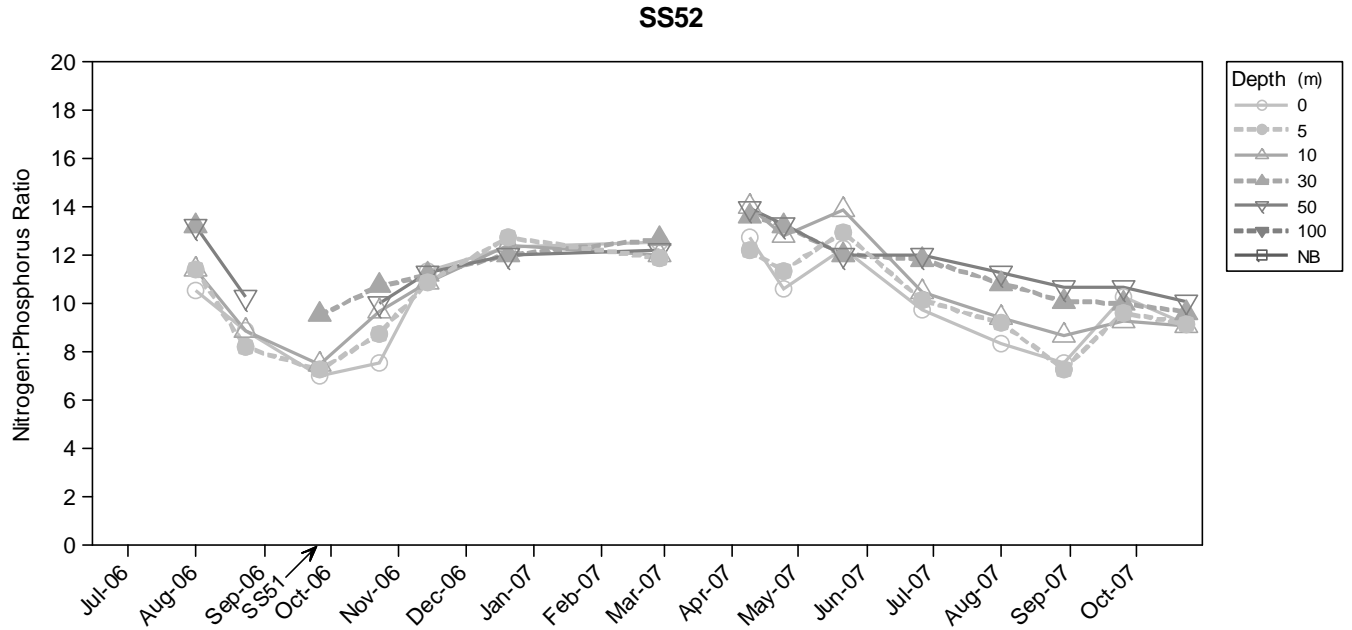


Figure C-232. Ratio of total nitrogen to total phosphorus calculated from data collected at South Sound station SS52 near central Case Inlet from July 2006 – October 2007.

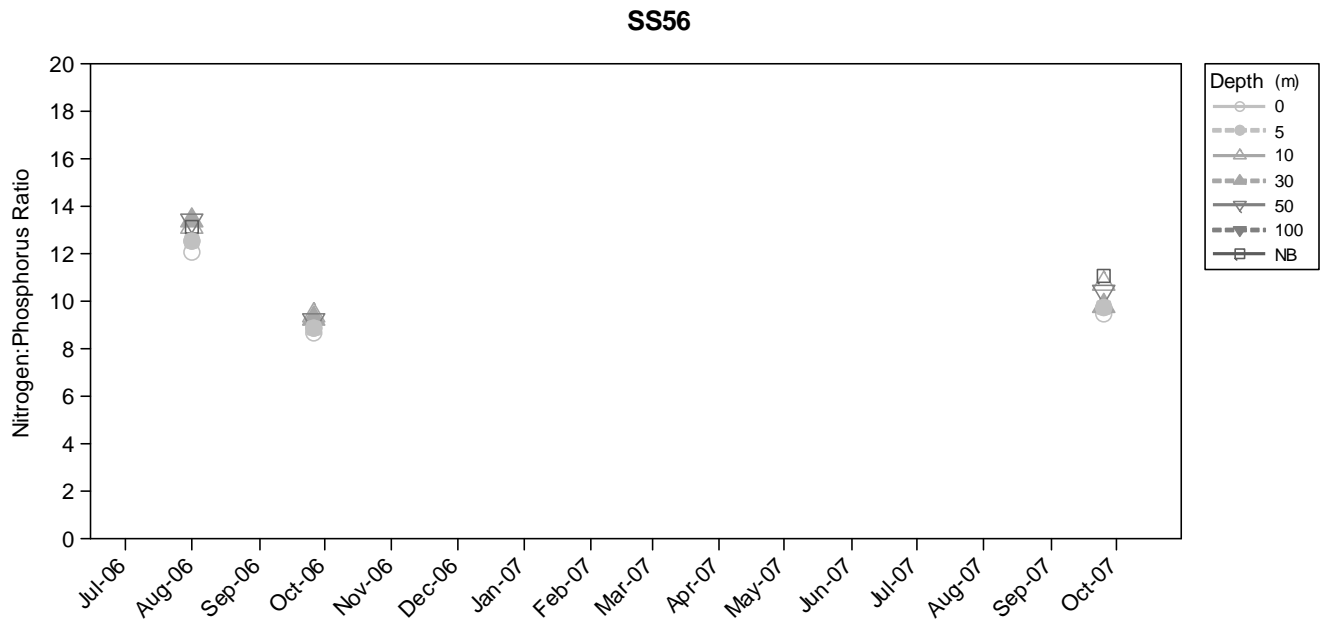


Figure C-233. Ratio of total nitrogen to total phosphorus calculated from data collected at South Sound station SS56 near South Case Inlet from July 2006 – October 2007.

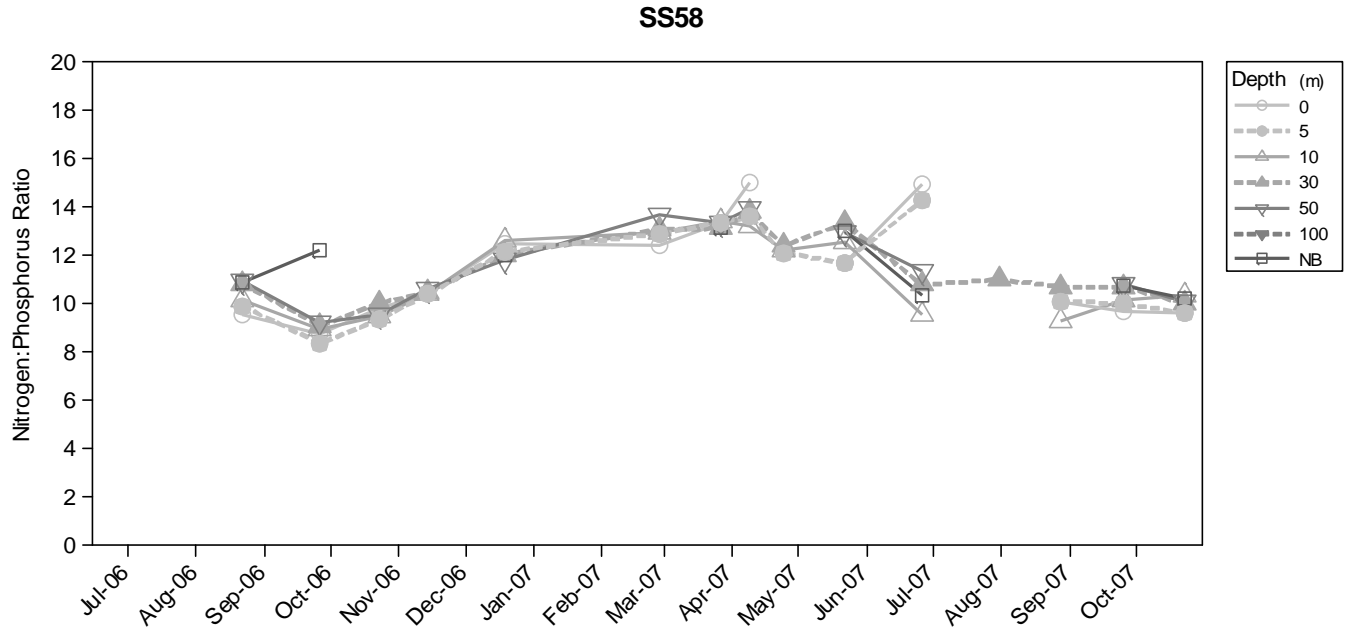


Figure C-234. Ratio of total nitrogen to total phosphorus calculated from data collected at South Sound station SS58 near South Case Inlet from July 2006 – October 2007.

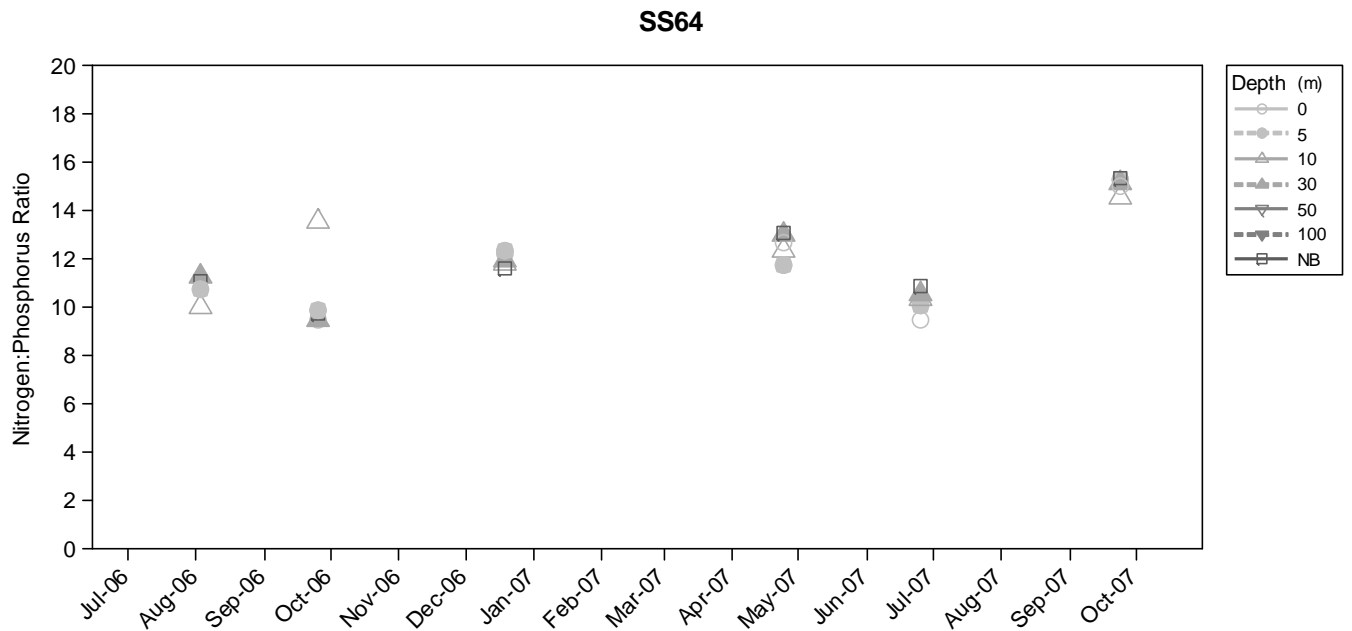


Figure C-235. Ratio of total nitrogen to total phosphorus calculated from data collected at South Sound station SS64 in Nisqually Reach from July 2006 – October 2007.

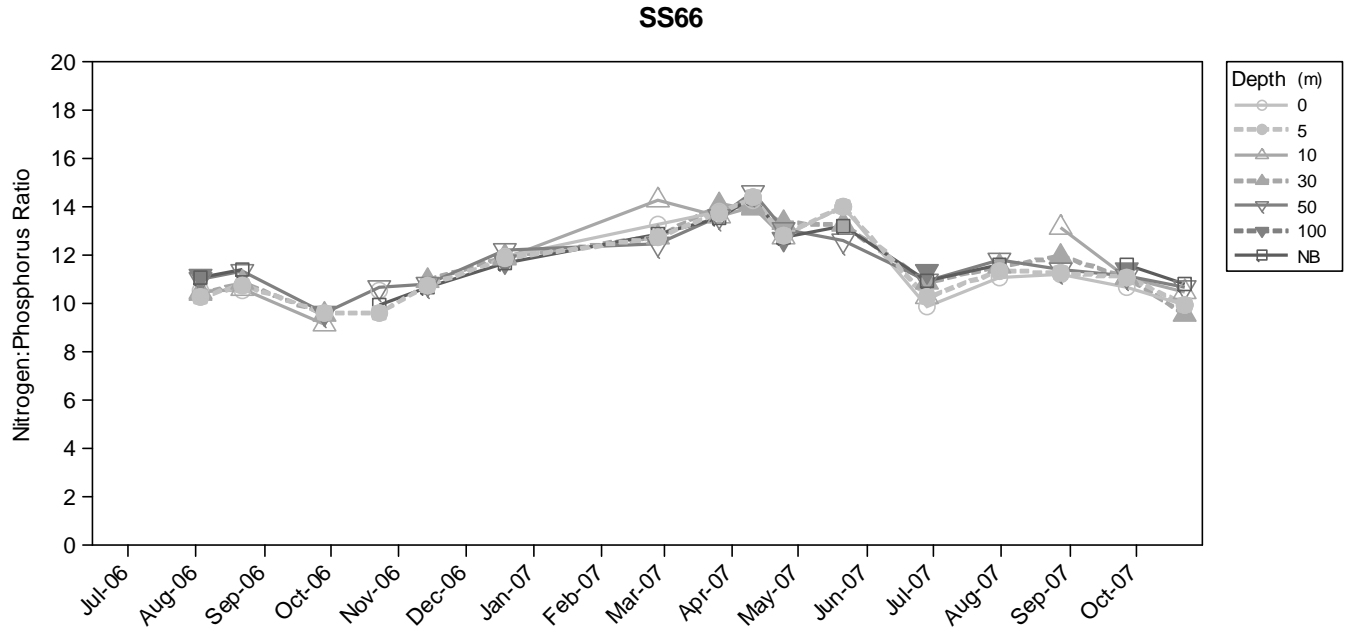


Figure C-236. Ratio of total nitrogen to total phosphorus calculated from data collected at South Sound station SS66 near Steilacoom from July 2006 – October 2007.

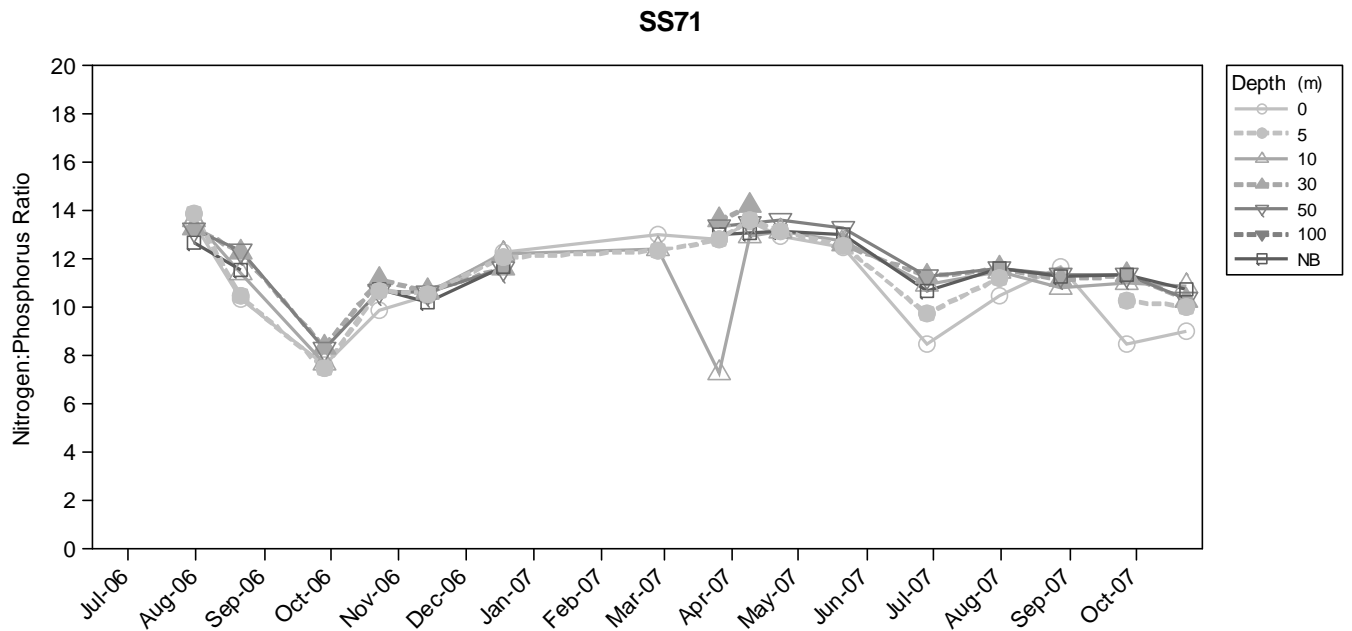


Figure C-237. Ratio of total nitrogen to total phosphorus calculated from data collected at South Sound station SS71 in Central Carr Inlet from July 2006 – October 2007.

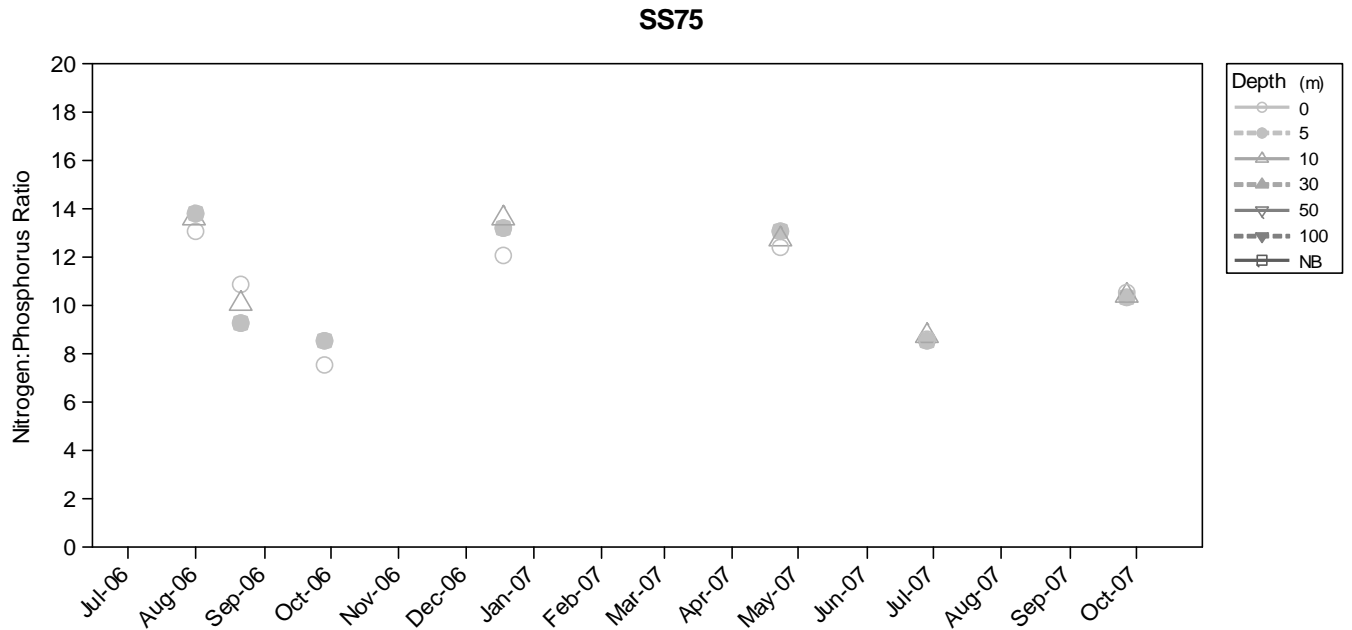


Figure C-238. Ratio of total nitrogen to total phosphorus calculated from data collected at South Sound station SS75 in North inner Carr from July 2006 – October 2007.

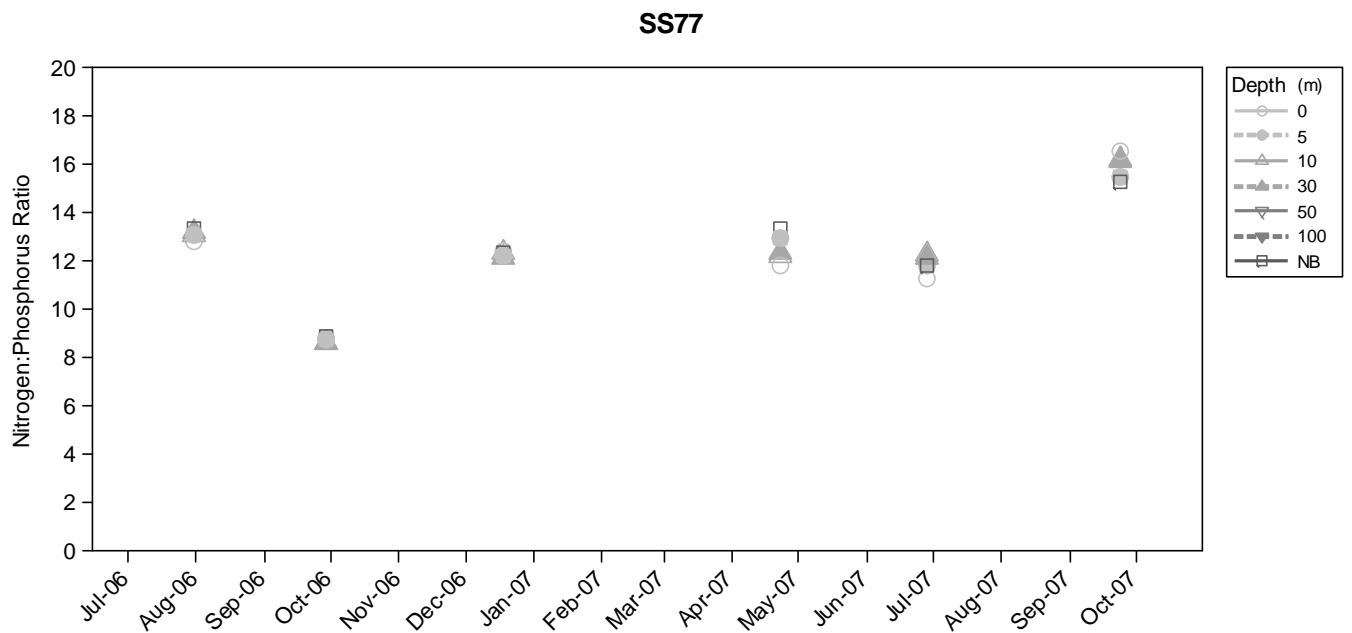


Figure C-239. Ratio of total nitrogen to total phosphorus calculated from data collected at South Sound station SS77 near the Tacoma Narrows from July 2006 – October 2007.

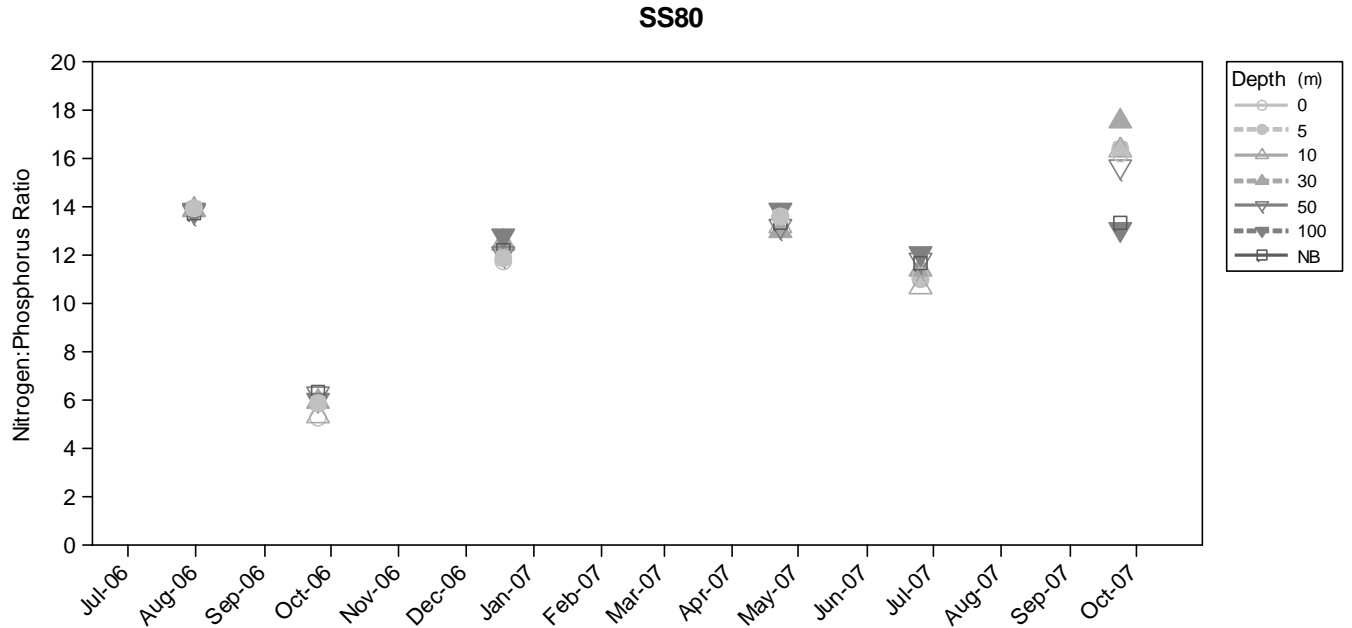


Figure C-240. Ratio of total nitrogen to total phosphorus calculated from data collected at South Sound station SS80 near Dalco Passage from July 2006 – October 2007.

Ammonium (NH₄) Contribution to Dissolved Inorganic Nitrogen (DIN) Concentrations – Temporal Patterns at Individual Stations

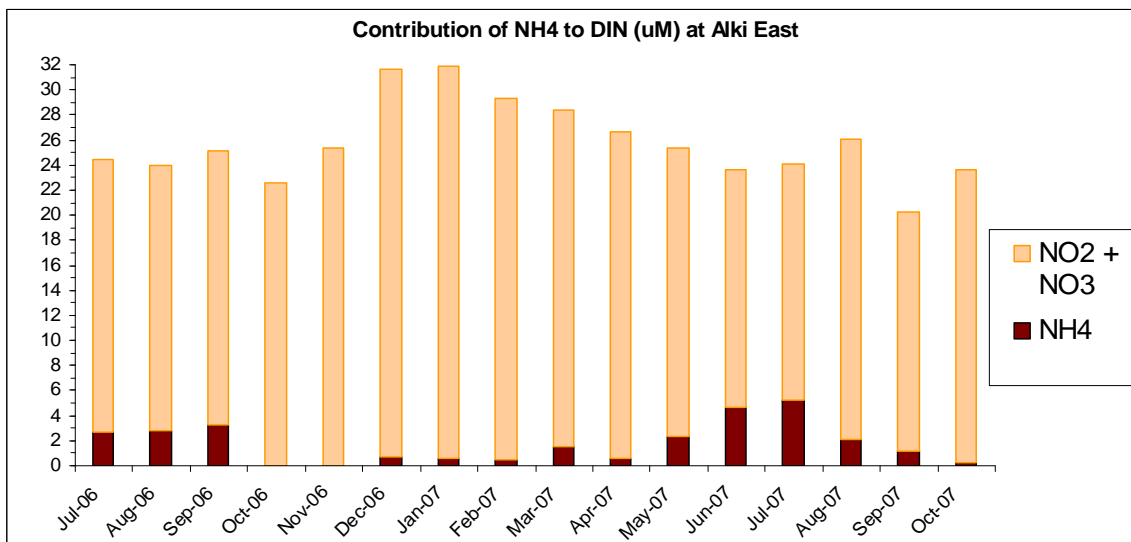


Figure C-241. Contribution of ammonium (uM) to dissolved inorganic nitrogen concentrations from samples collected at Alki East boundary station in the Central Basin from July 2006 – October 2007.

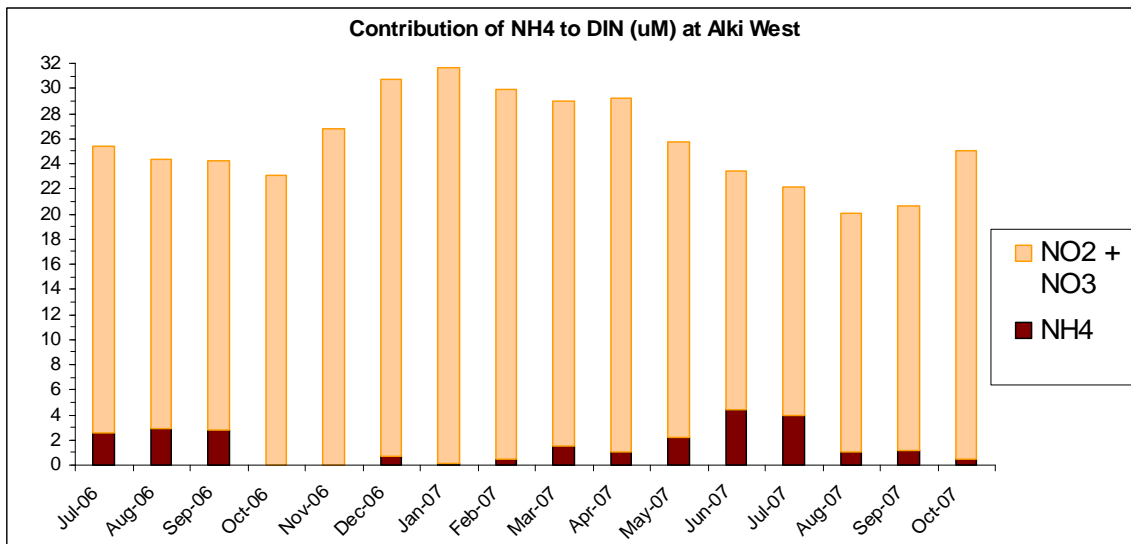


Figure C-242. Contribution of ammonium (uM) to dissolved inorganic nitrogen concentrations from samples at Alki West boundary station in the Central Basin from July 2006 – October 2007.

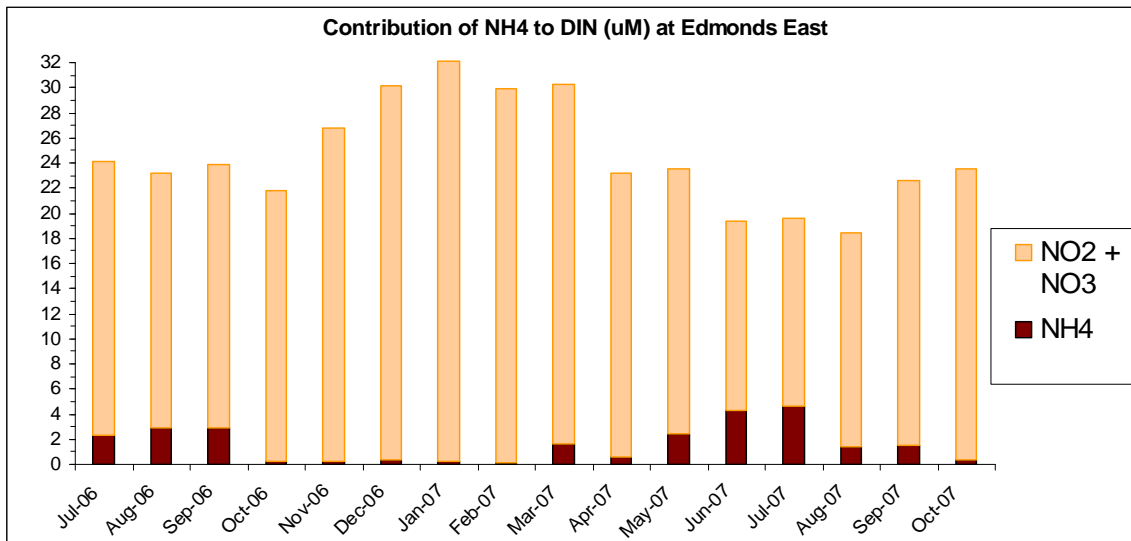


Figure C-243. Contribution of ammonium (uM) to dissolved inorganic nitrogen concentrations from samples at Edmonds East boundary station in the Central Basin from July 2006 – October 2007.

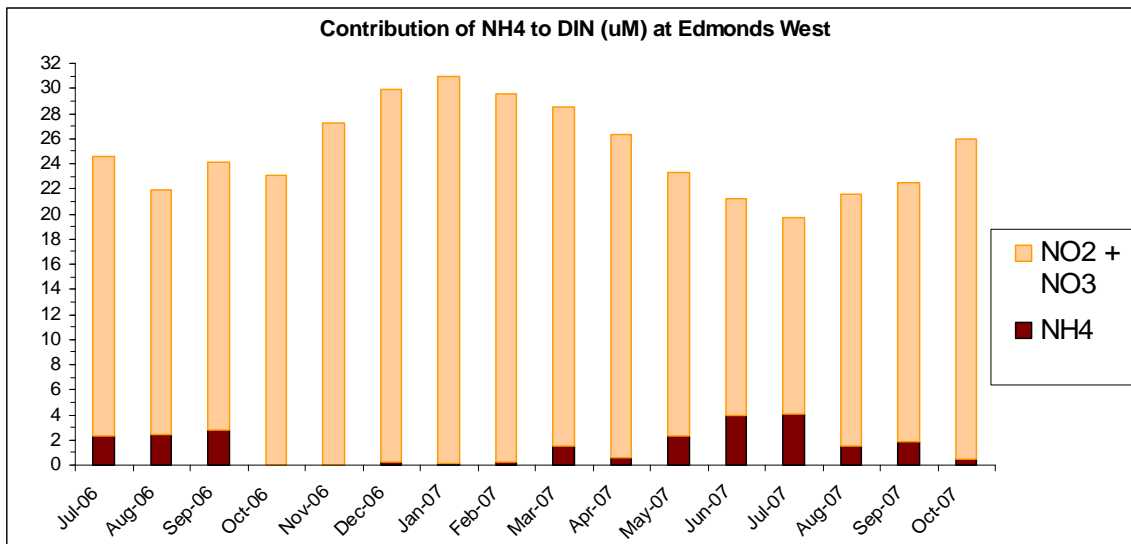


Figure C-244. Contribution of ammonium (uM) to dissolved inorganic nitrogen concentrations from samples at Edmonds West boundary station in the Central Basin from July 2006 – October 2007.

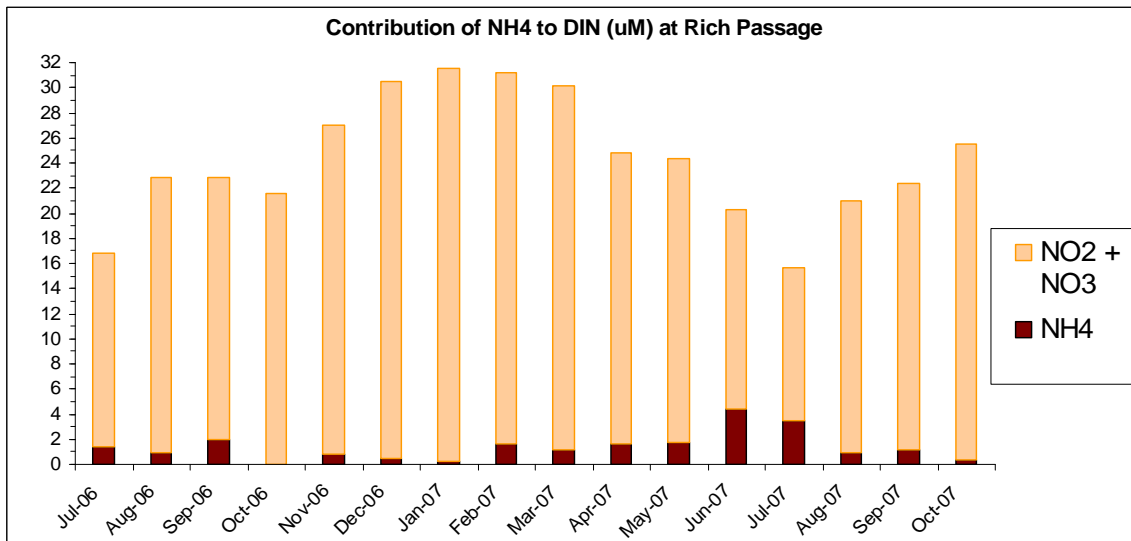


Figure C-245. Contribution of ammonium (uM) to dissolved inorganic nitrogen concentrations from samples at Rich Passage boundary station July 2006 – October 2007.

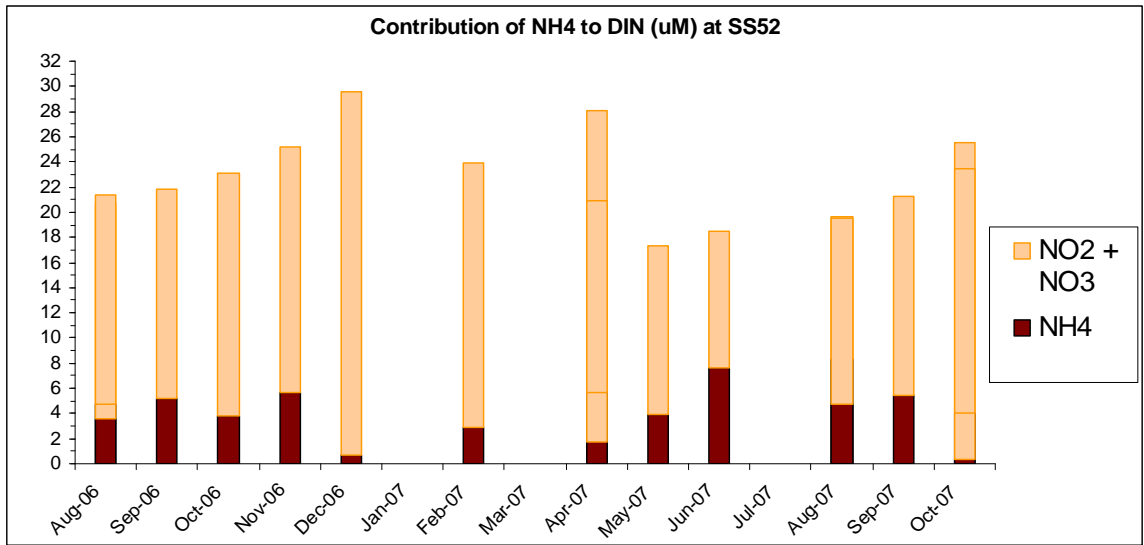


Figure C-246. Contribution of ammonium (uM) to dissolved inorganic nitrogen concentrations from samples collected at station SS52 in Central Case Inlet from July 2006 – October 2007.

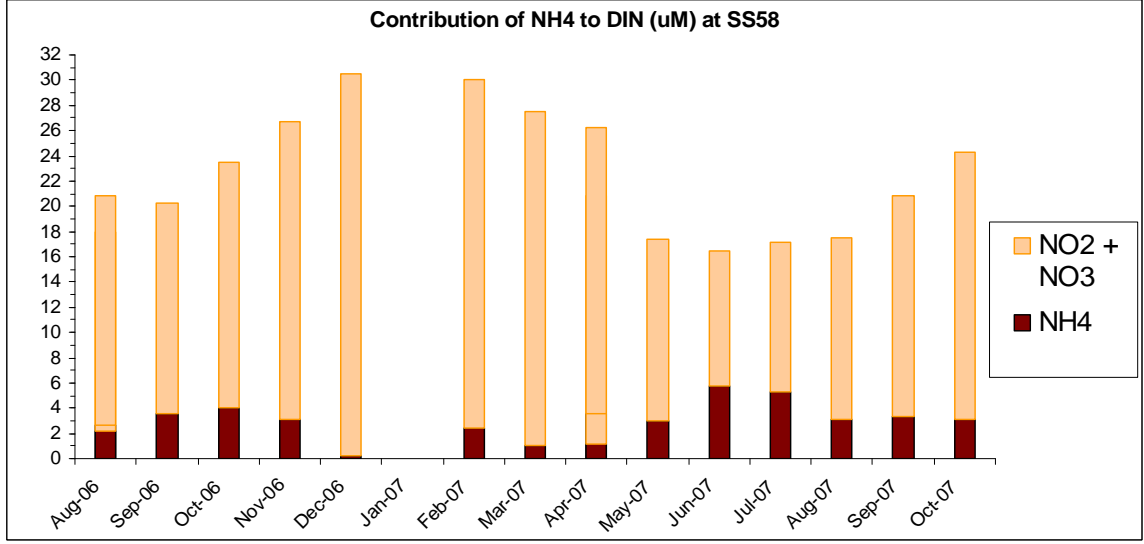


Figure C-247. Contribution of ammonium (uM) to dissolved inorganic nitrogen concentrations from samples collected at station SS58 near Drayton Passage from July 2006 – October 2007.

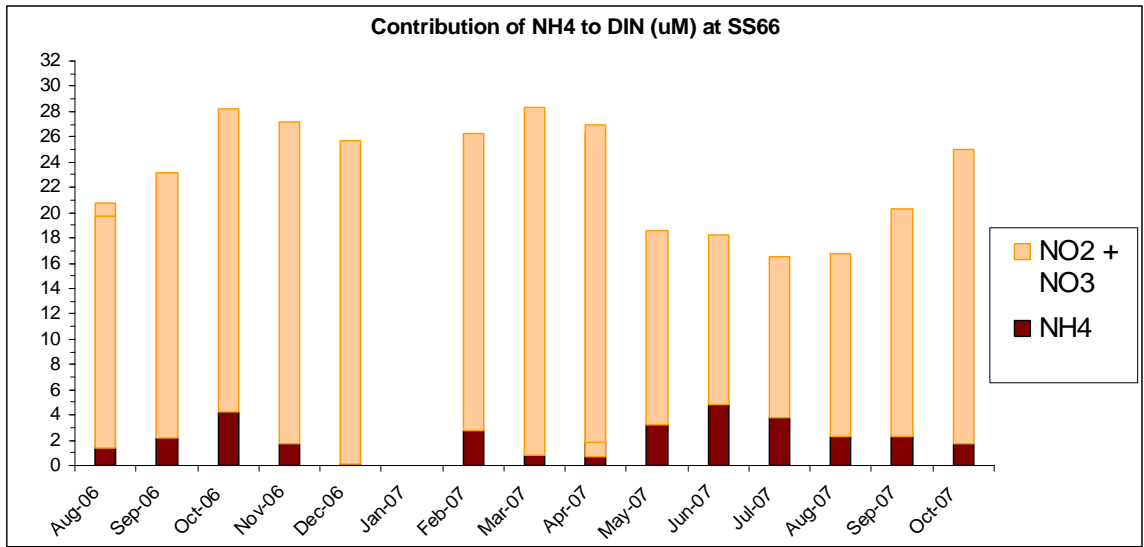


Figure C-248. Contribution of ammonium (uM) to dissolved inorganic nitrogen concentrations from samples collected at station SS66 near Steilacoom from July 2006 – October 2007.

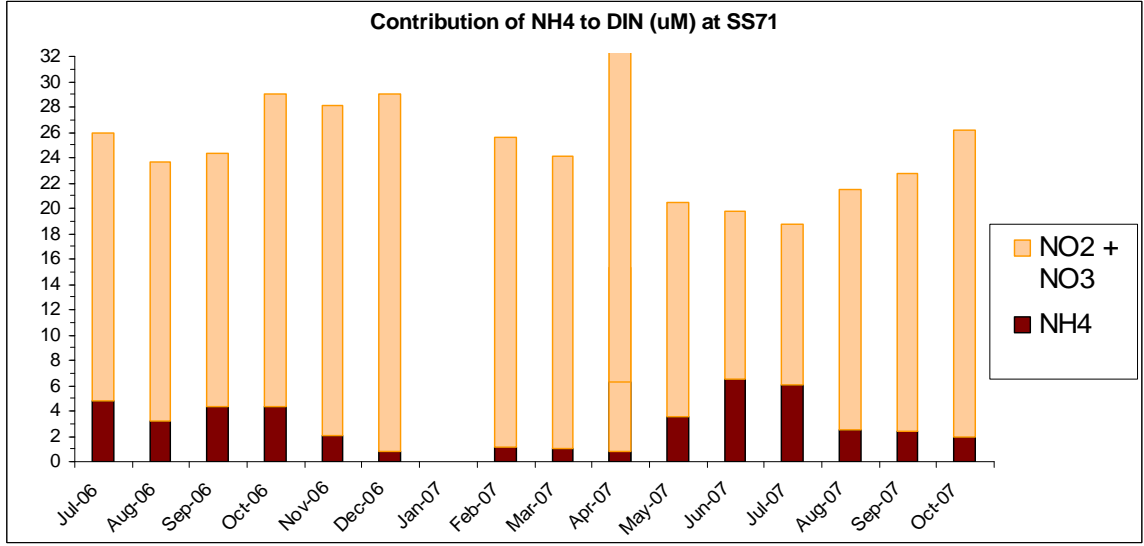


Figure C-249. Contribution of ammonium (uM) to dissolved inorganic nitrogen concentrations from samples collected at station SS71 in Central Carr Inlet from July 2006 – October 2007.

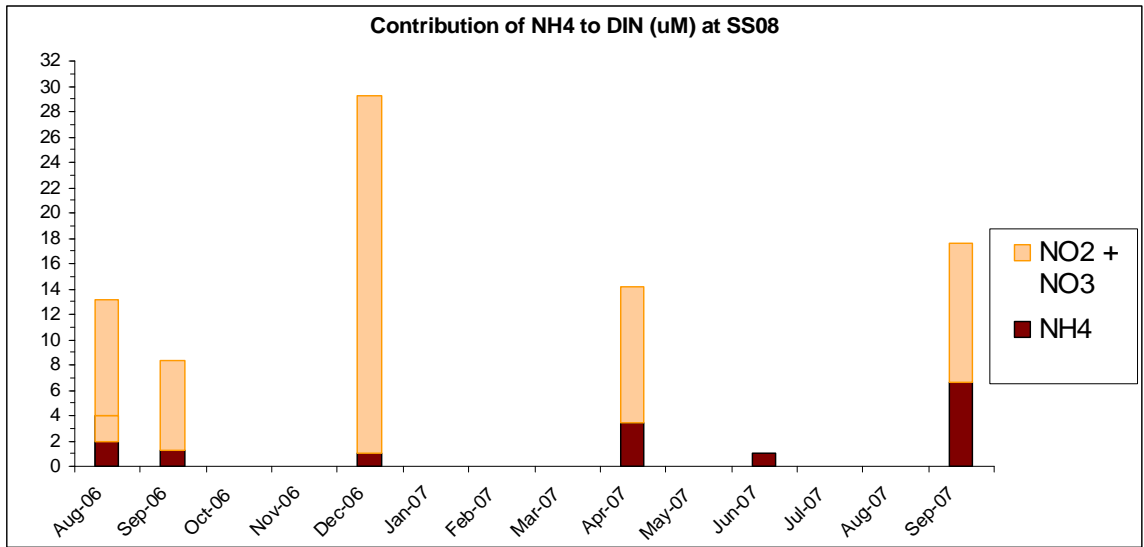


Figure C-250. Contribution of ammonium (uM) to dissolved inorganic nitrogen concentrations from samples collected at station SS08 central Budd Inlet from July 2006 – October 2007.

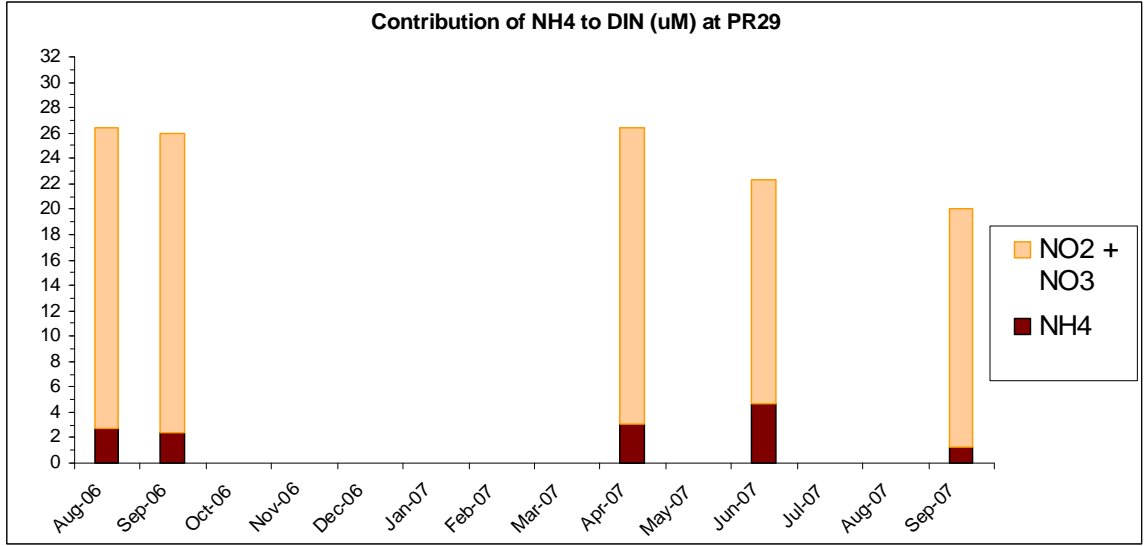


Figure C-251. Contribution of ammonium (uM) to dissolved inorganic nitrogen concentrations from samples collected at station PR29 Alki South from July 2006 – October 2007.

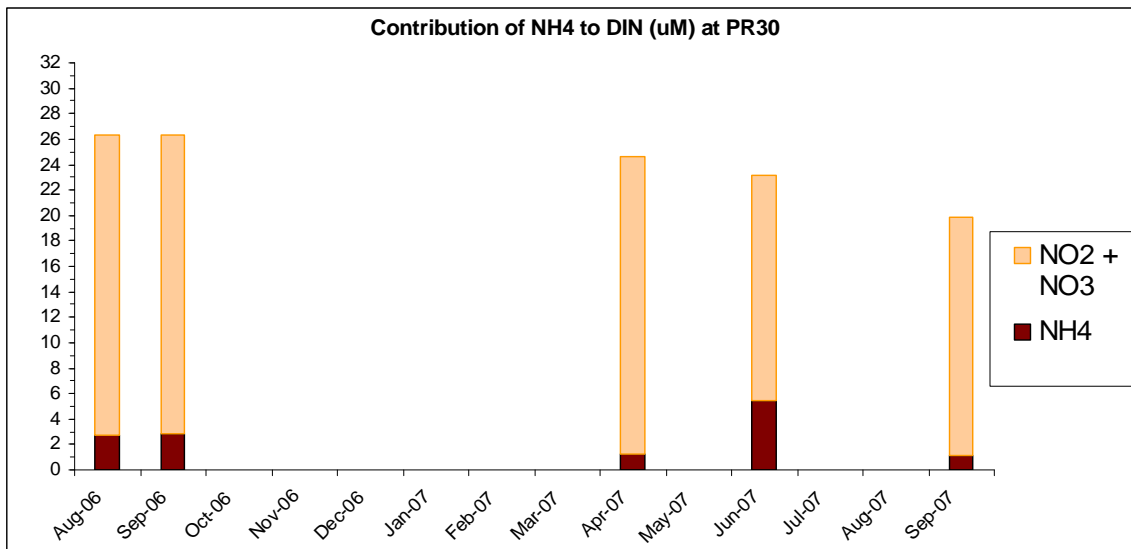


Figure C-252. Contribution of ammonium (uM) to dissolved inorganic nitrogen concentrations from samples collected at station PR30 in East Passage from July 2006 – October 2007.

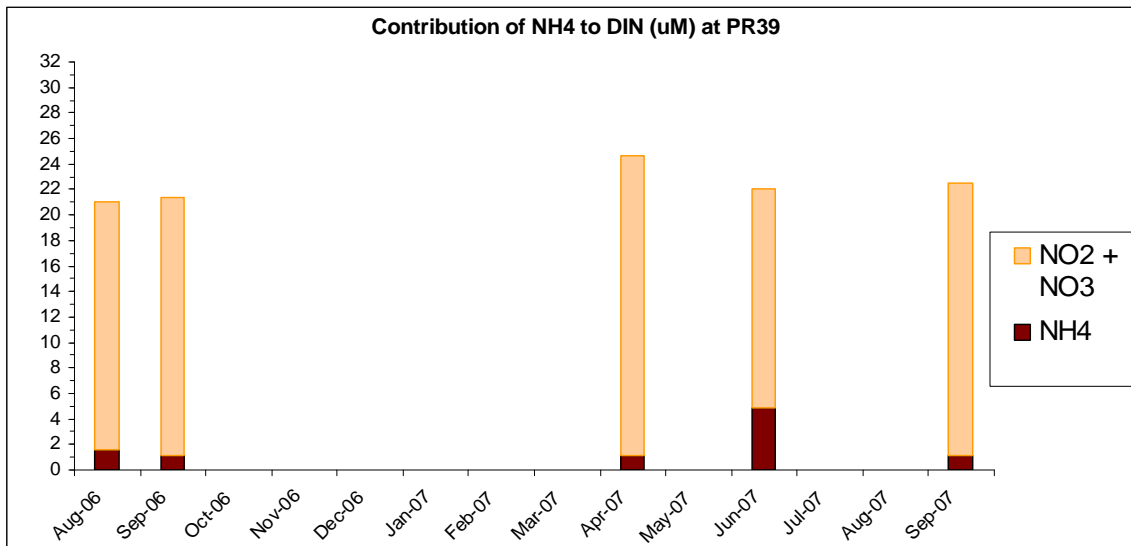


Figure C-253. Contribution of ammonium (uM) to dissolved inorganic nitrogen concentrations from samples collected at station PR39 in Colvos Passage from July 2006 – October 2007.

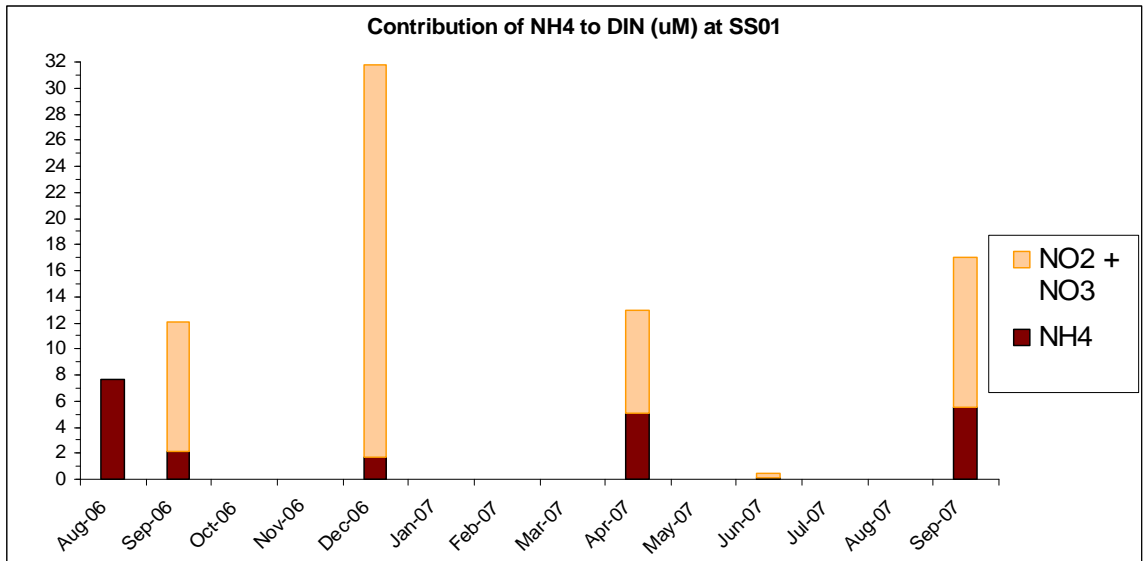


Figure C-254. Contribution of ammonium (uM) to dissolved inorganic nitrogen concentrations from samples collected at station SS01 in inner Henderson Inlet from July 2006 – October 2007.

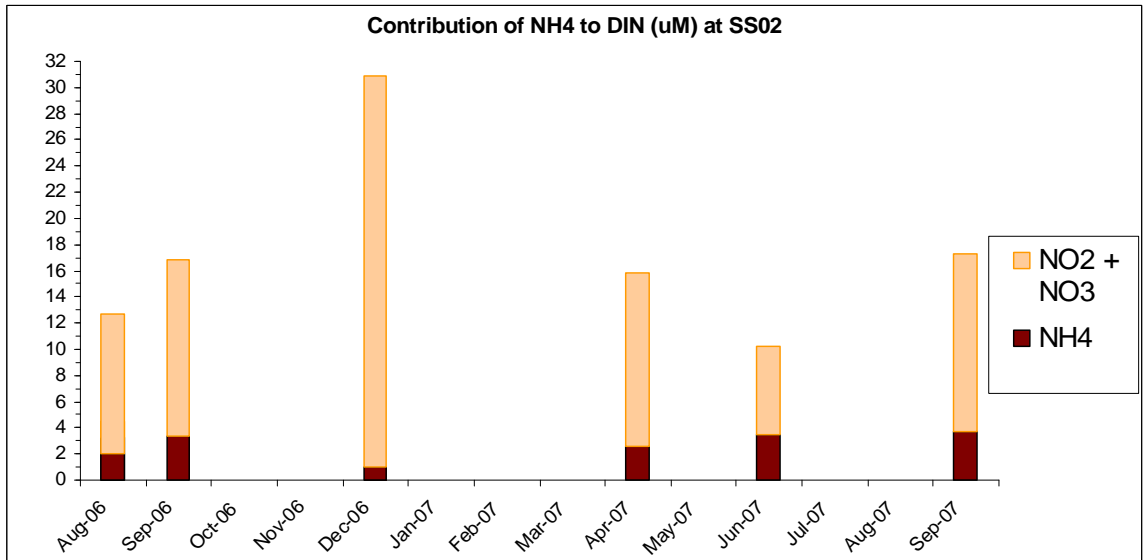


Figure C-255. Contribution of ammonium (uM) to dissolved inorganic nitrogen concentrations from samples collected at station SS02 in outer Henderson Inlet from July 2006 – October 2007.

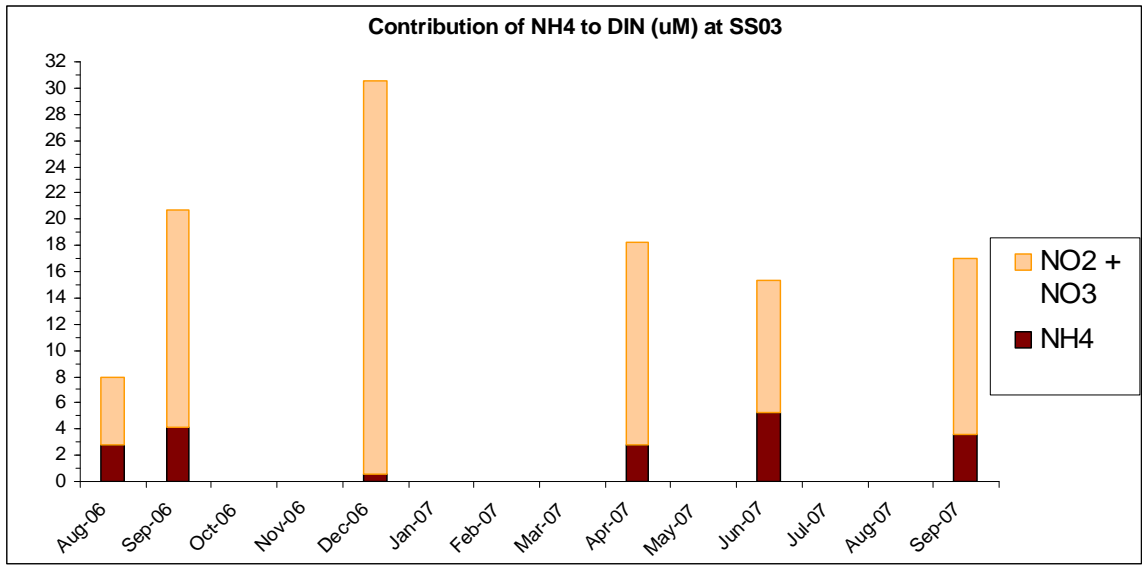


Figure C-256. Contribution of ammonium (uM) to dissolved inorganic nitrogen concentrations from samples collected at station SS03 in Dana Passage from July 2006 – October 2007.

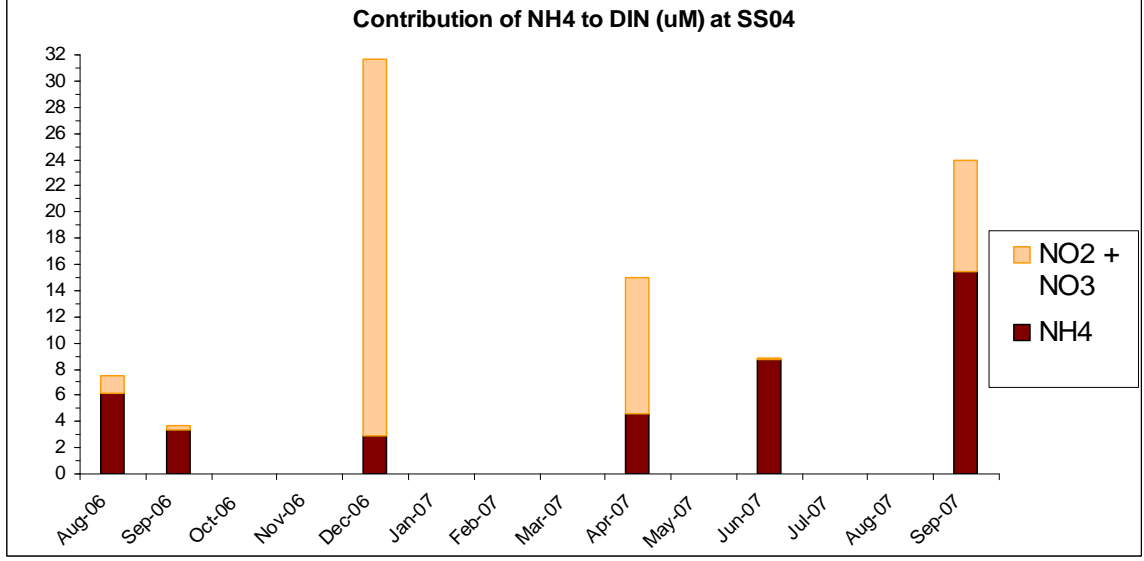


Figure C-257. Contribution of ammonium (uM) to dissolved inorganic nitrogen concentrations from samples collected at station SS04 in inner Budd Inlet from July 2006 – October 2007.

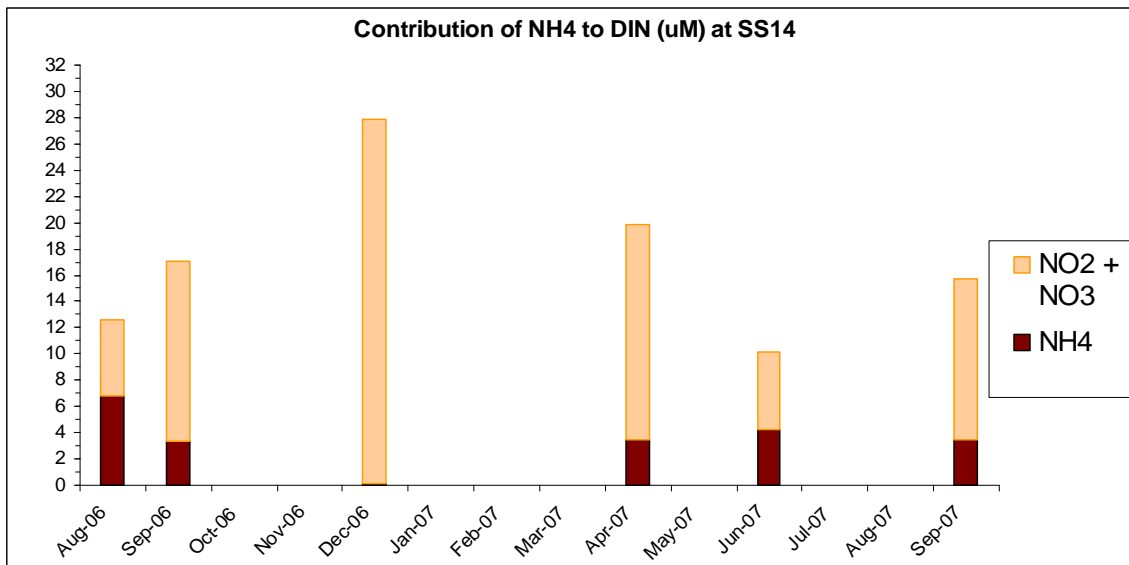


Figure C-258. Contribution of ammonium (uM) to dissolved inorganic nitrogen concentrations from samples collected at station SS14 in Budd Inlet/Dana Passage from July 2006 – October 2007.

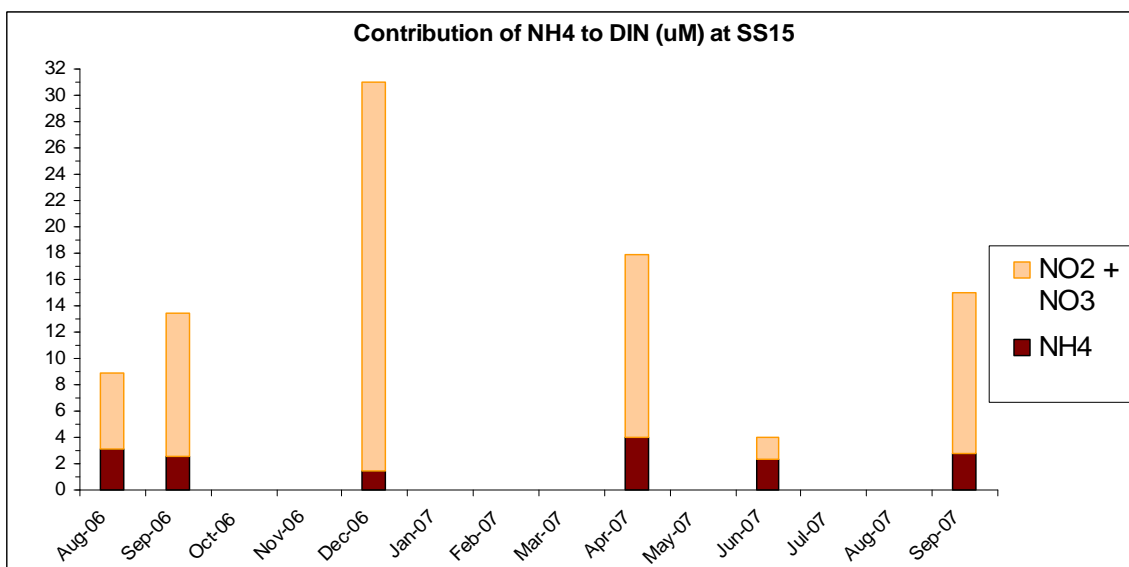


Figure C-259. Contribution of ammonium (uM) to dissolved inorganic nitrogen concentrations from samples collected at station SS15 in outer Eld Inlet from July 2006 – October 2007.

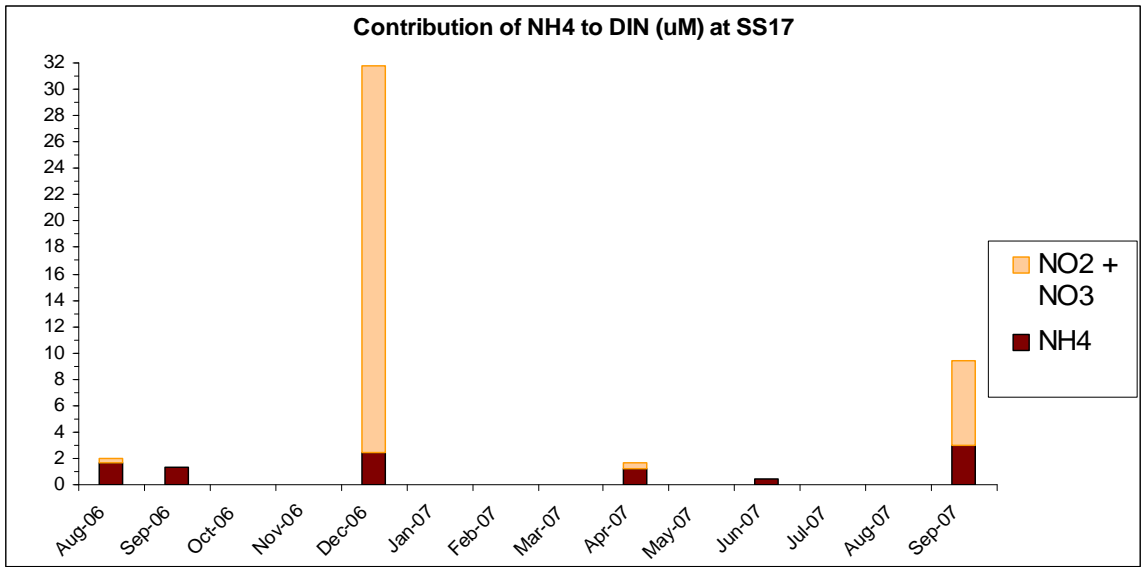


Figure C-260. Contribution of ammonium (uM) to dissolved inorganic nitrogen concentrations from samples collected at station SS17 in inner Eld from July 2006 – October 2007.

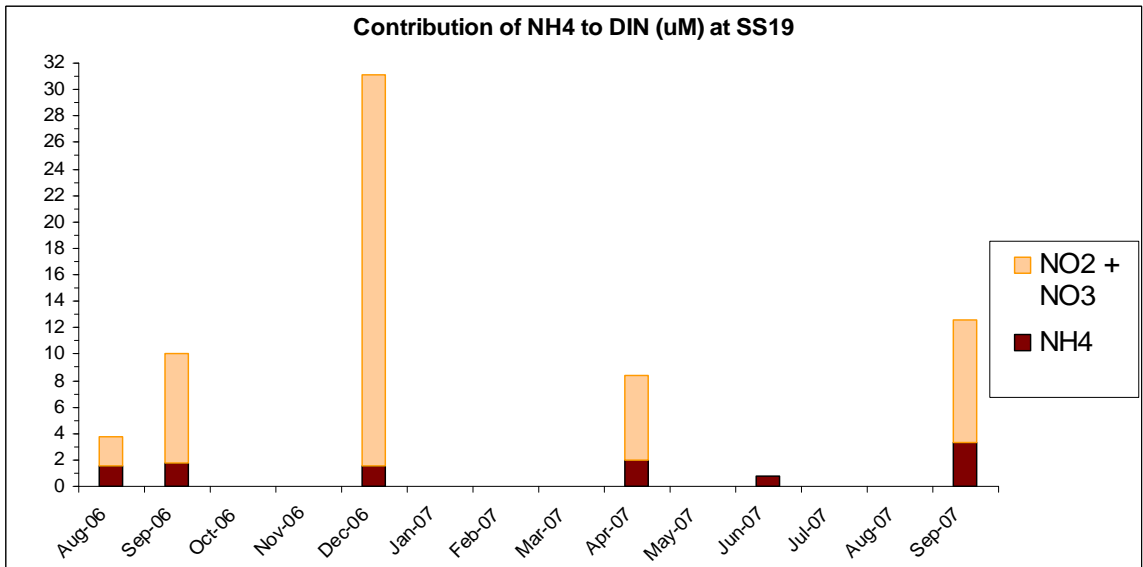


Figure C-261. Contribution of ammonium (uM) to dissolved inorganic nitrogen concentrations from samples collected at station SS19 near Hope Island from July 2006 – October 2007.

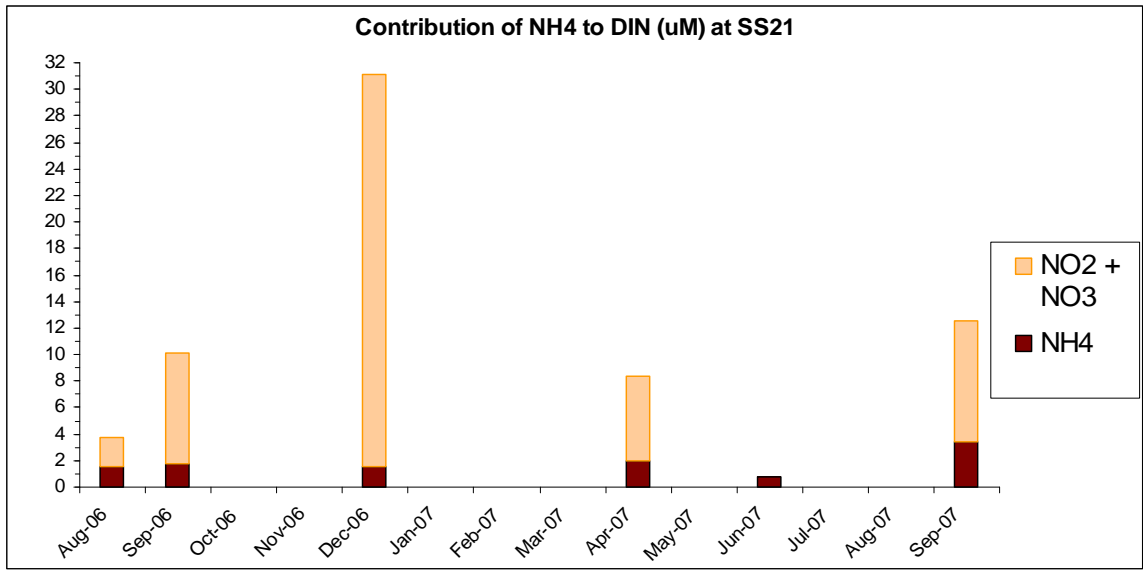


Figure C-262. Contribution of ammonium (uM) to dissolved inorganic nitrogen concentrations from samples collected at station SS21 in outer Totten from July 2006 – October 2007.

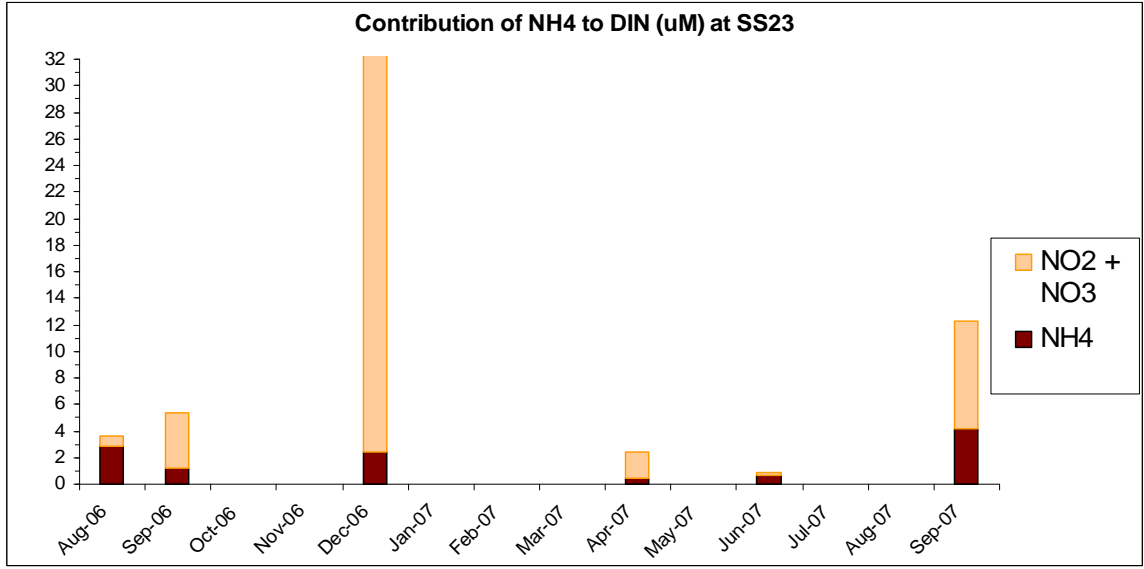


Figure C-263. Contribution of ammonium (uM) to dissolved inorganic nitrogen concentrations from samples collected at station SS23 near central Totten from July 2006 – October 2007.

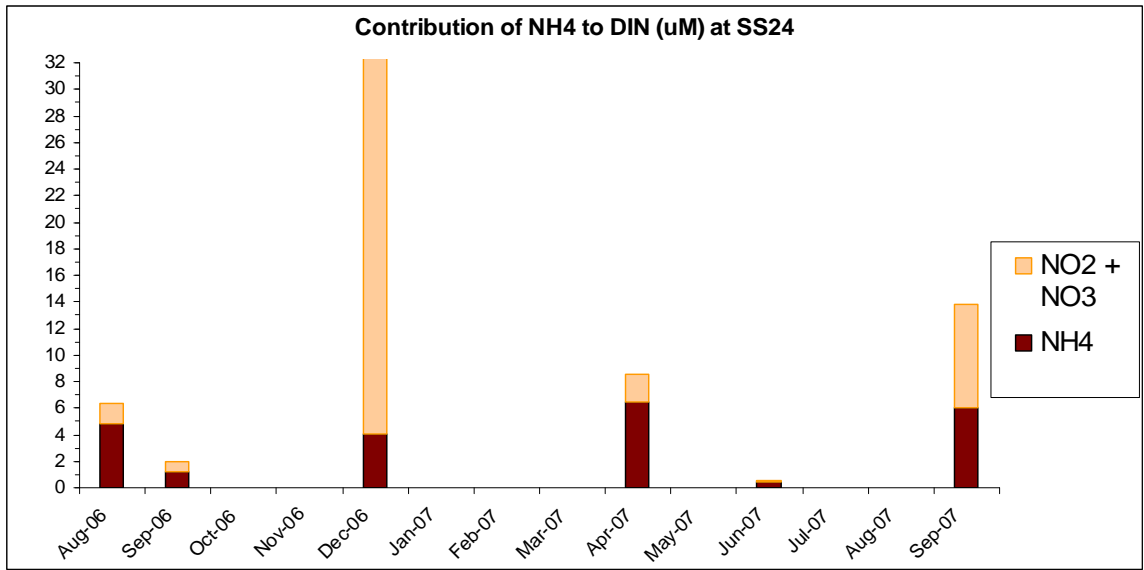


Figure C-264. Contribution of ammonium (uM) to dissolved inorganic nitrogen concentrations from samples collected at station SS24 near Little Skookum from July 2006 – October 2007.

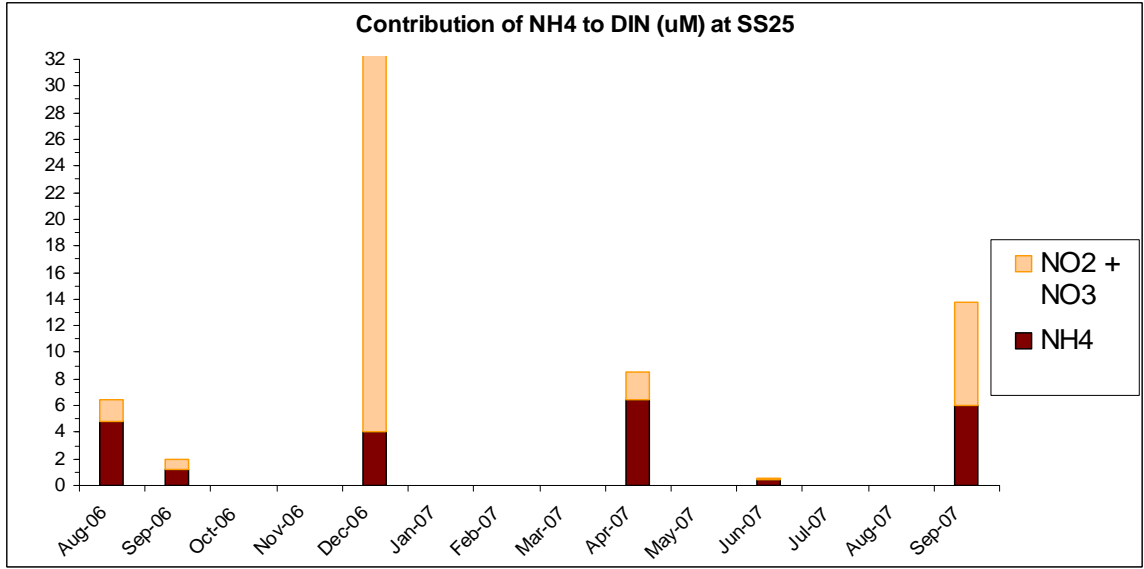


Figure C-265. Contribution of ammonium (uM) to dissolved inorganic nitrogen concentrations from samples collected at station SS25 near inner Totten Inlet from July 2006 – October 2007.

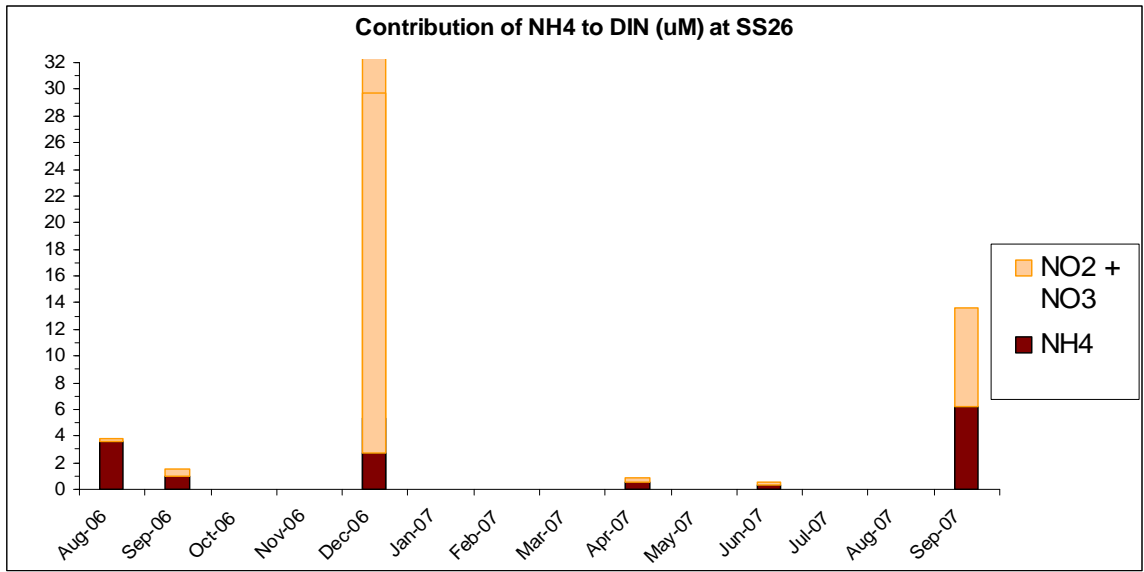


Figure C-266. Contribution of ammonium (uM) to dissolved inorganic nitrogen concentrations from samples collected at station SS26 near inner Totten Inlet from July 2006 – October 2007.

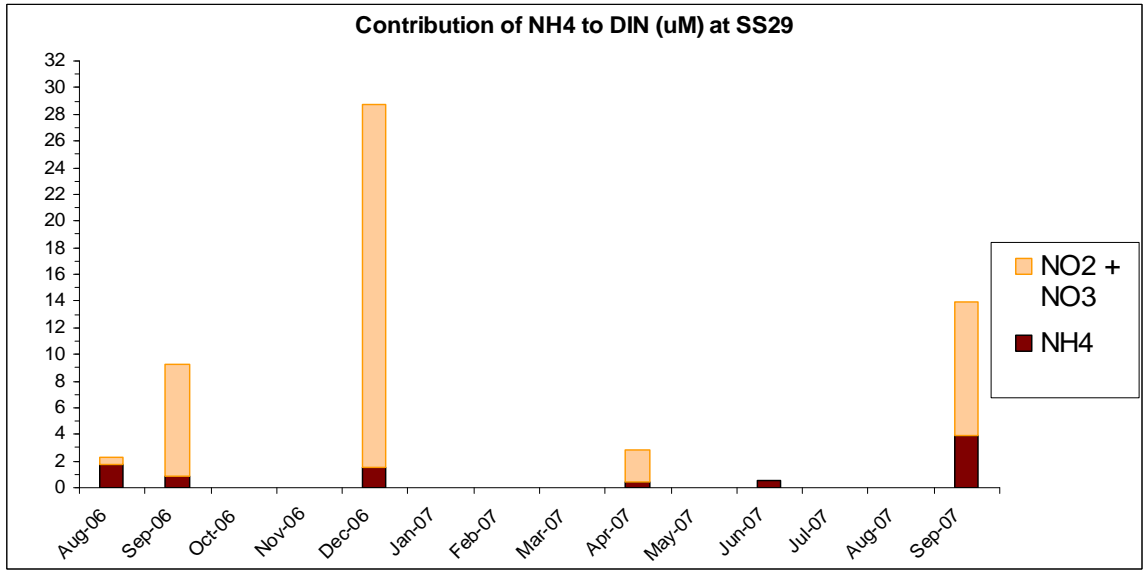


Figure C-267. Contribution of ammonium (uM) to dissolved inorganic nitrogen concentrations from samples collected at station SS29 near outer Hammersley Inlet from July 2006 – October 2007.

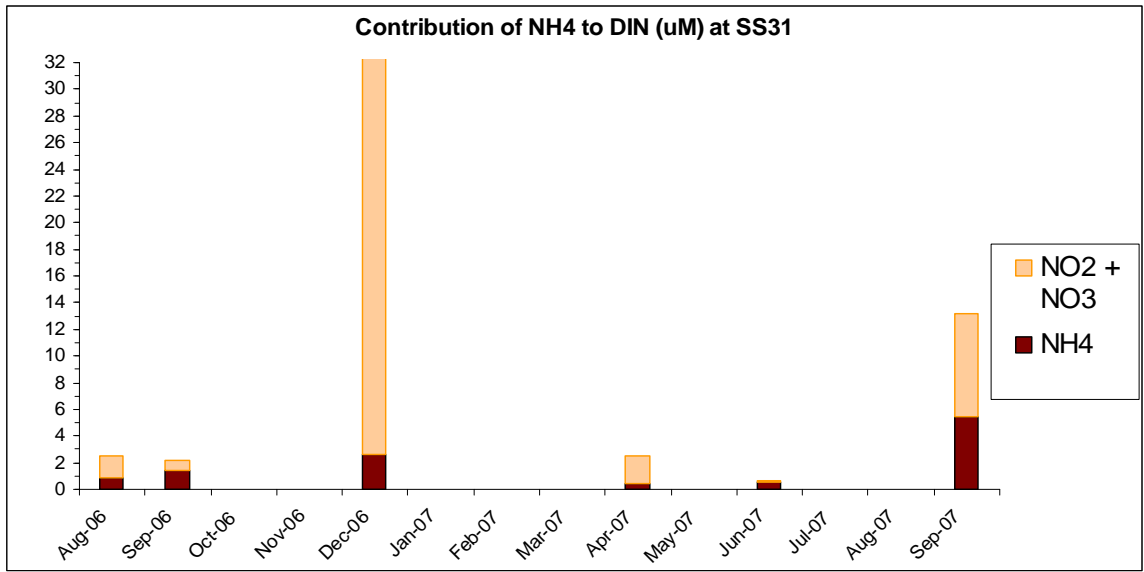


Figure C-268. Contribution of ammonium (uM) to dissolved inorganic nitrogen concentrations from samples collected at station SS31 near Central Hammersley Inlet from July 2006 – October 2007.

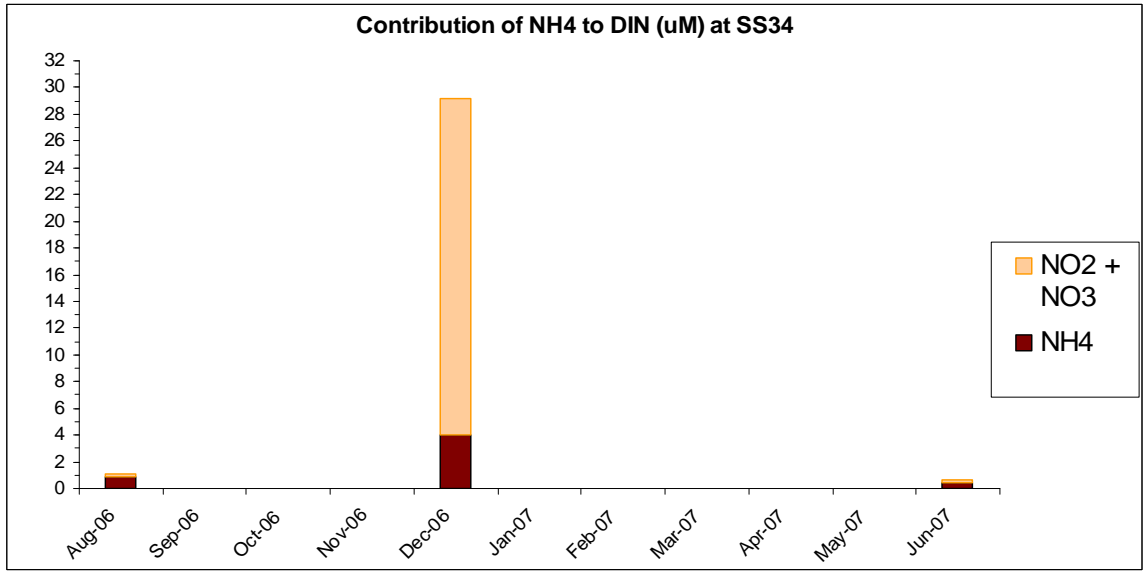


Figure C-269. Contribution of ammonium (uM) to dissolved inorganic nitrogen concentrations from samples collected at station SS34 in Oakland Bay from July 2006 – October 2007.

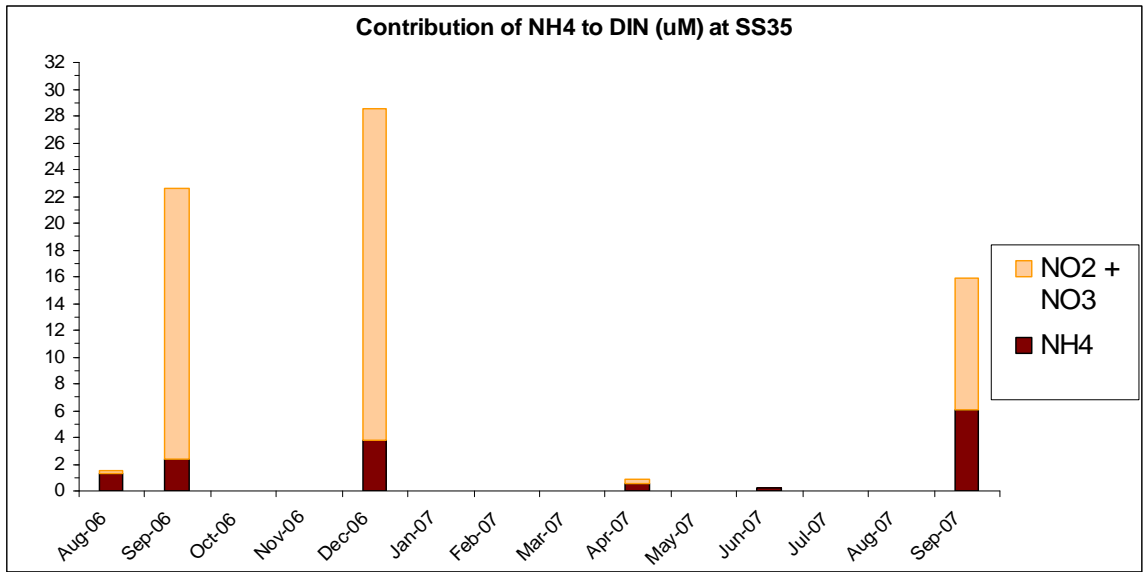


Figure C-270. Contribution of ammonium (uM) to dissolved inorganic nitrogen concentrations from samples collected at station SS35 near the Port of Shelton in Oakland Bay from July 2006 – October 2007.

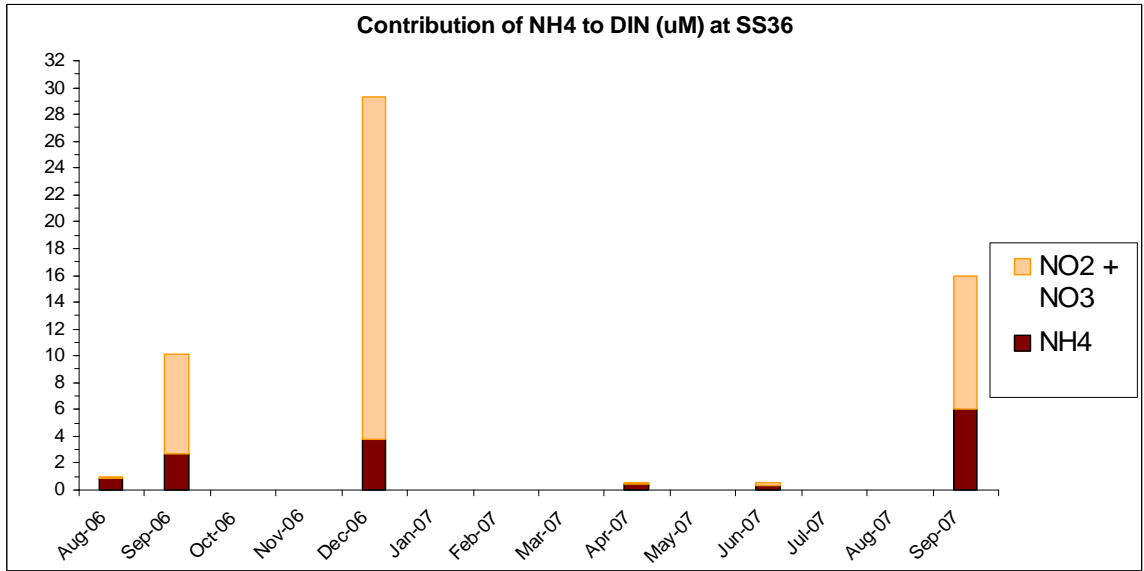


Figure C-271. Contribution of ammonium (uM) to dissolved inorganic nitrogen concentrations from samples collected at station SS36 near inner Oakland Bay from July 2006 – October 2007.

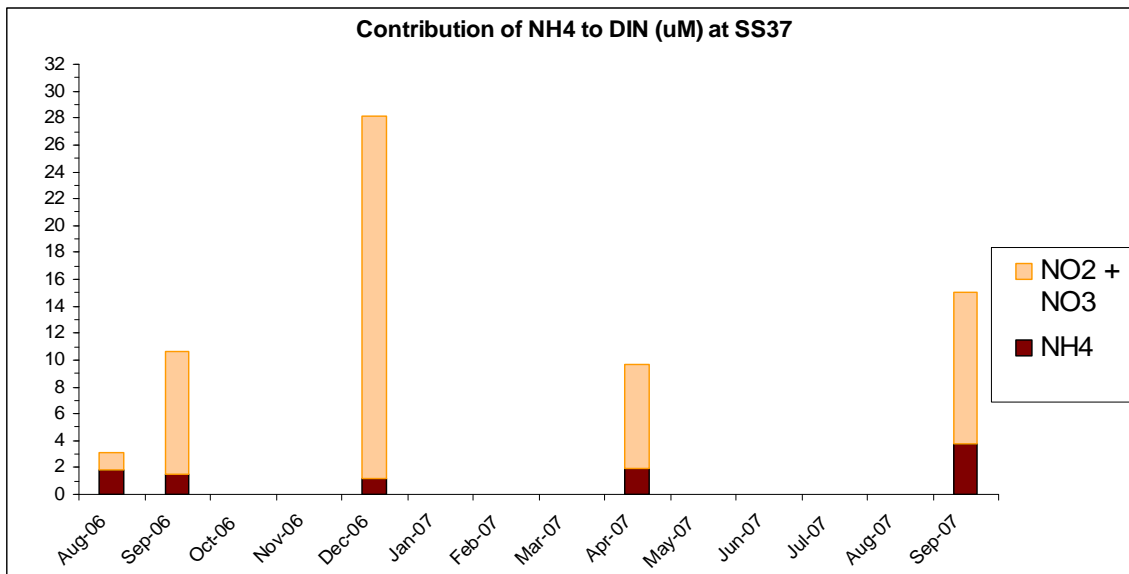


Figure C-272. Contribution of ammonium (uM) to dissolved inorganic nitrogen concentrations from samples collected at station SS37 near South Pickering Passage from July 2006 – October 2007.

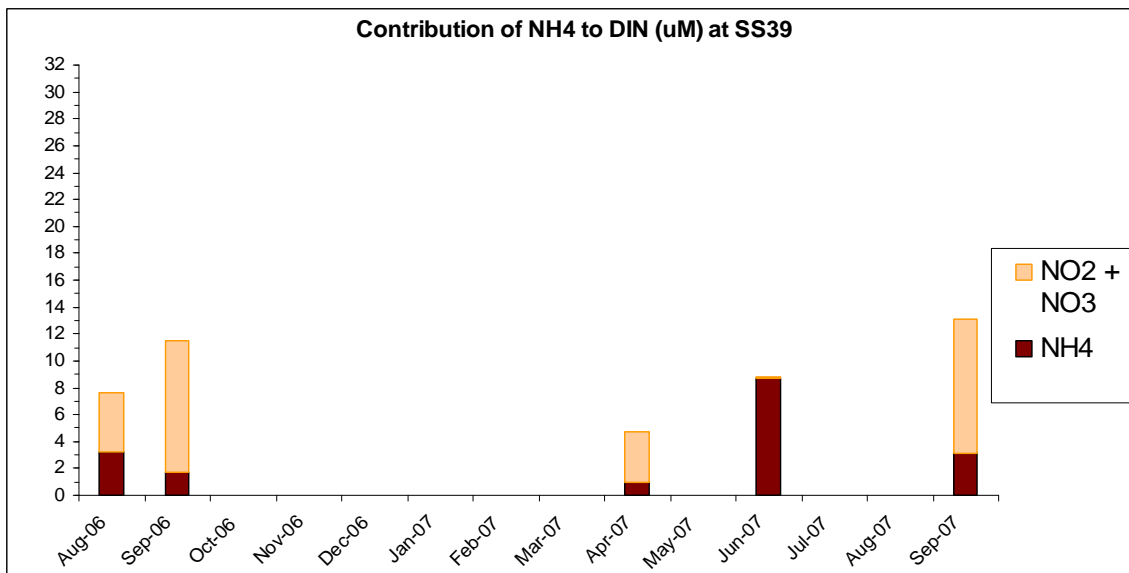


Figure C-273. Contribution of ammonium (uM) to dissolved inorganic nitrogen concentrations from samples collected at station SS39 near Peale Passage from July 2006 – October 2007.

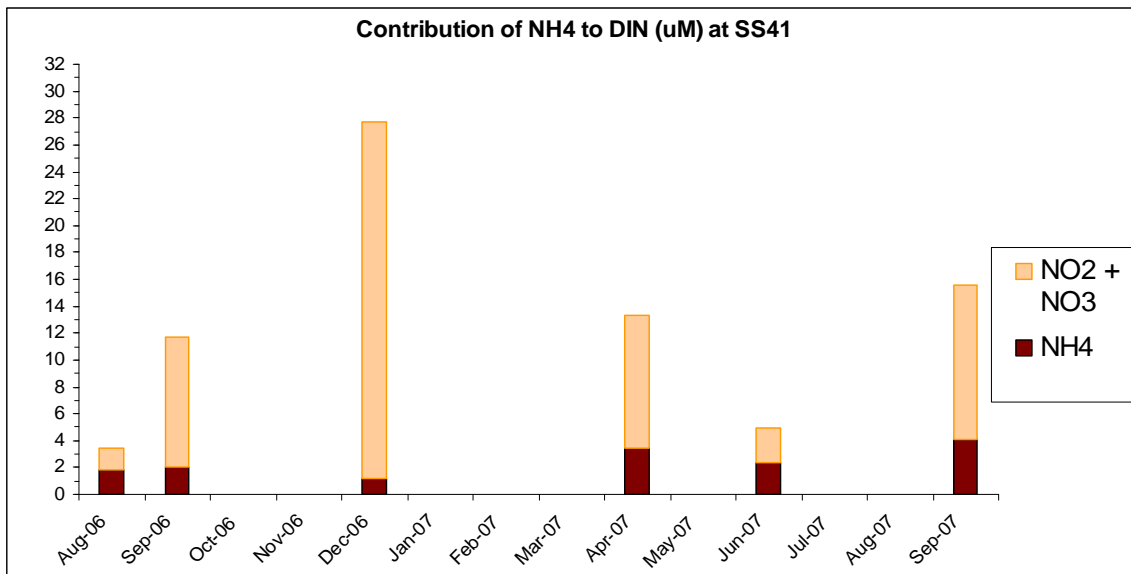


Figure C-274. Contribution of ammonium (uM) to dissolved inorganic nitrogen concentrations from samples collected at station SS41 near South Pickering Passage from July 2006 – October 2007.

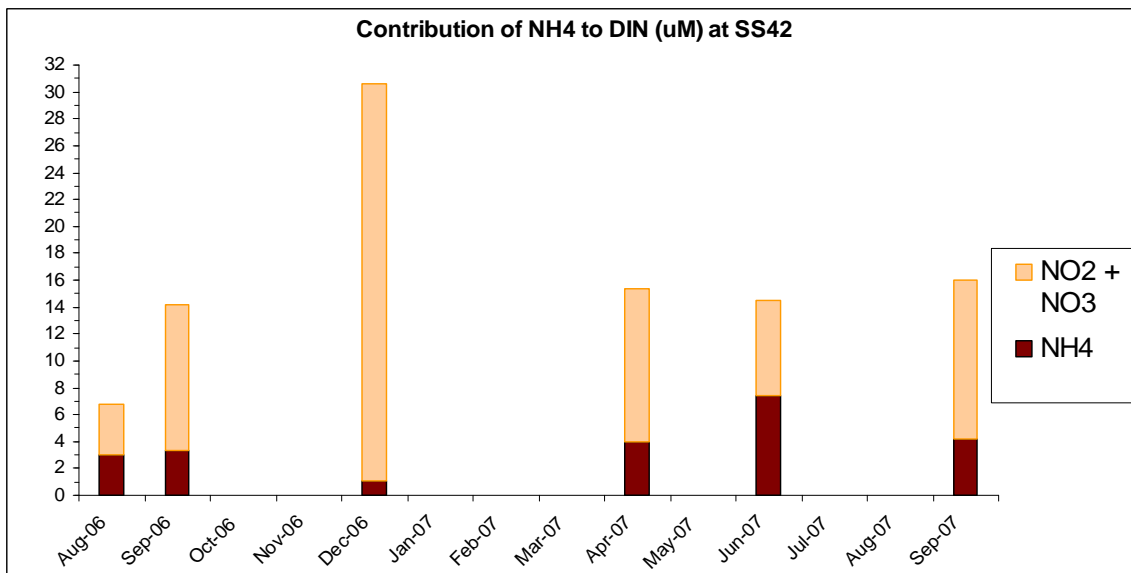


Figure C-275. Contribution of ammonium (uM) to dissolved inorganic nitrogen concentrations from samples collected at station SS42 near mid Pickering Passage from July 2006 – October 2007.

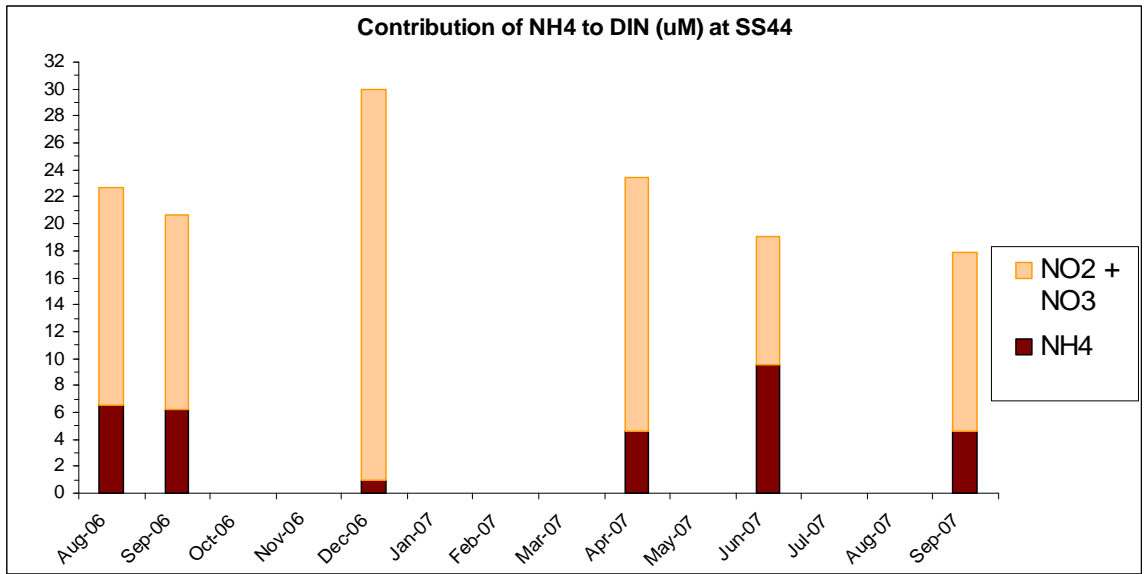


Figure C-276. Contribution of ammonium (uM) to dissolved inorganic nitrogen concentrations from samples collected at station SS44 near North Pickering Passage from July 2006 – October 2007.

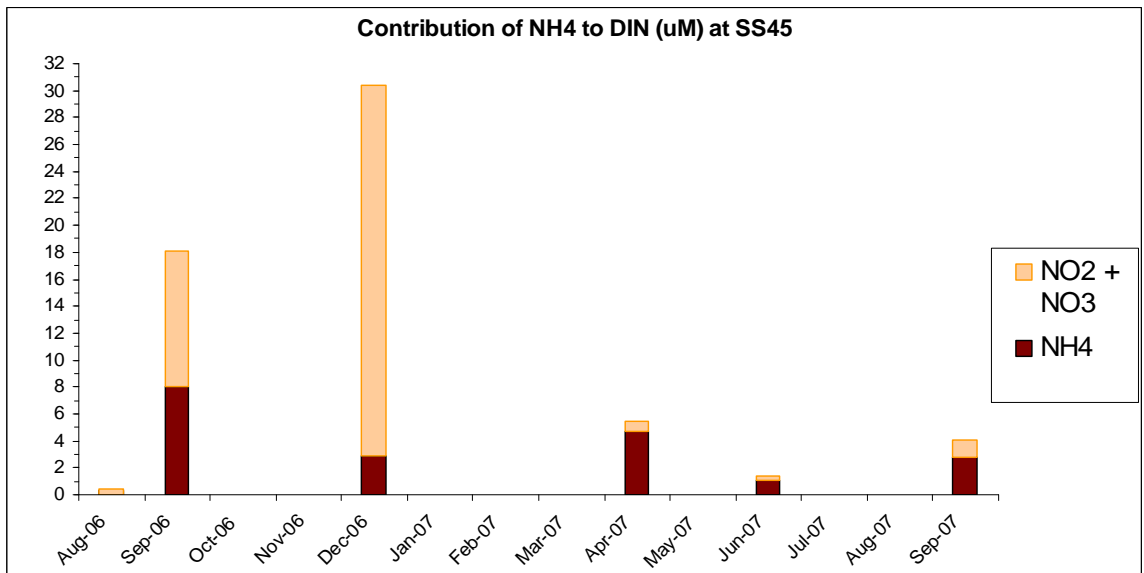


Figure C-277. Contribution of ammonium (uM) to dissolved inorganic nitrogen concentrations from samples collected at station SS45 near inner Case Inlet from July 2006 – October 2007.

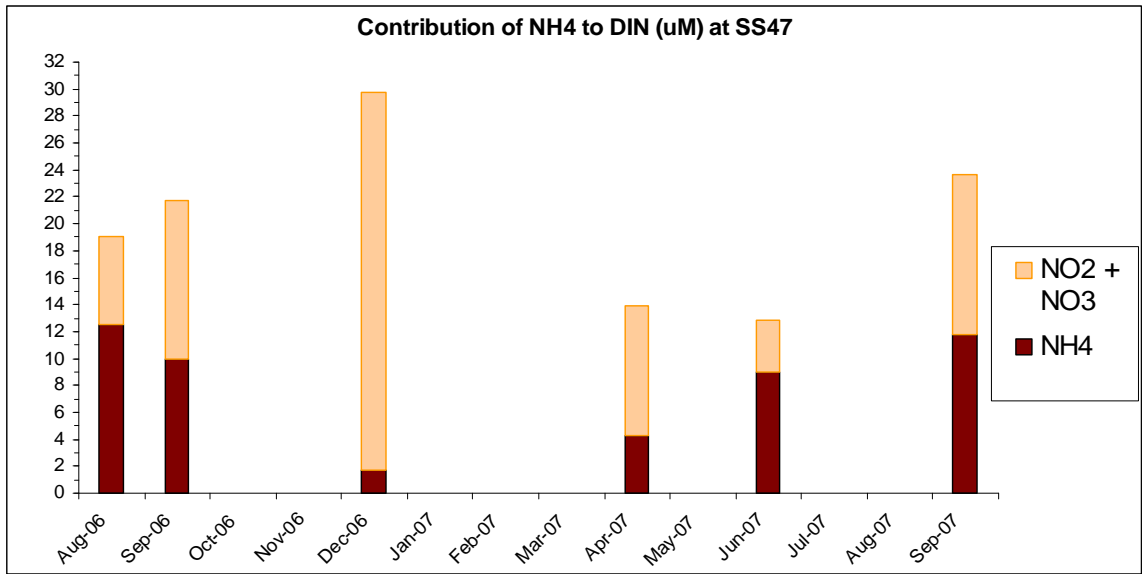


Figure C-278. Contribution of ammonium (uM) to dissolved inorganic nitrogen concentrations from samples at collected station SS47 near North Case Inlet from July 2006 – October 2007.

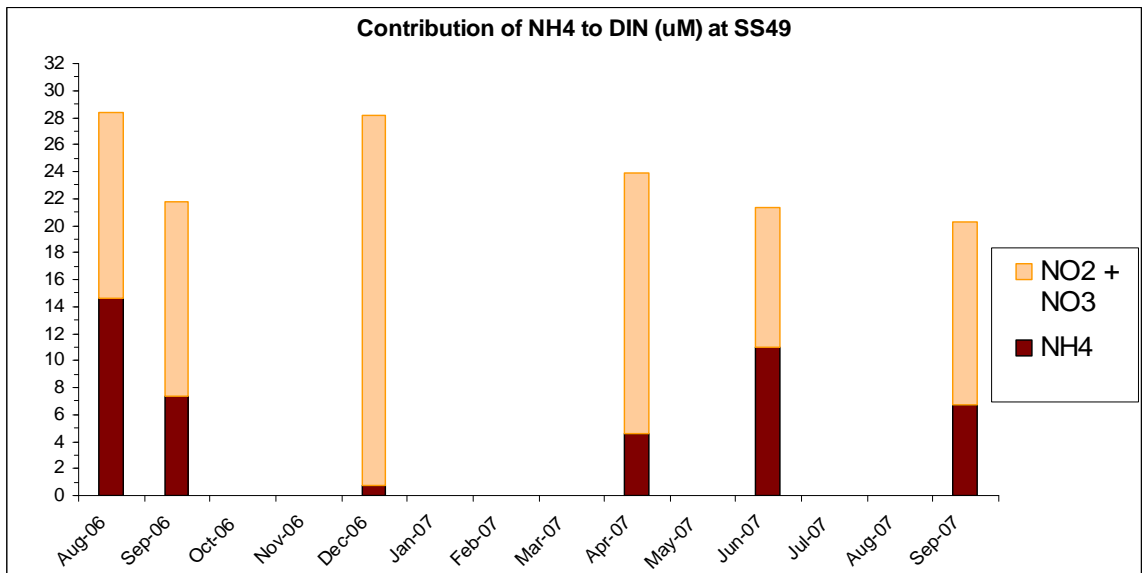


Figure C-279. Contribution of ammonium (uM) to dissolved inorganic nitrogen concentrations from samples at collected station SS49 near Case Inlet/Pickering Passage from July 2006 – October 2007.

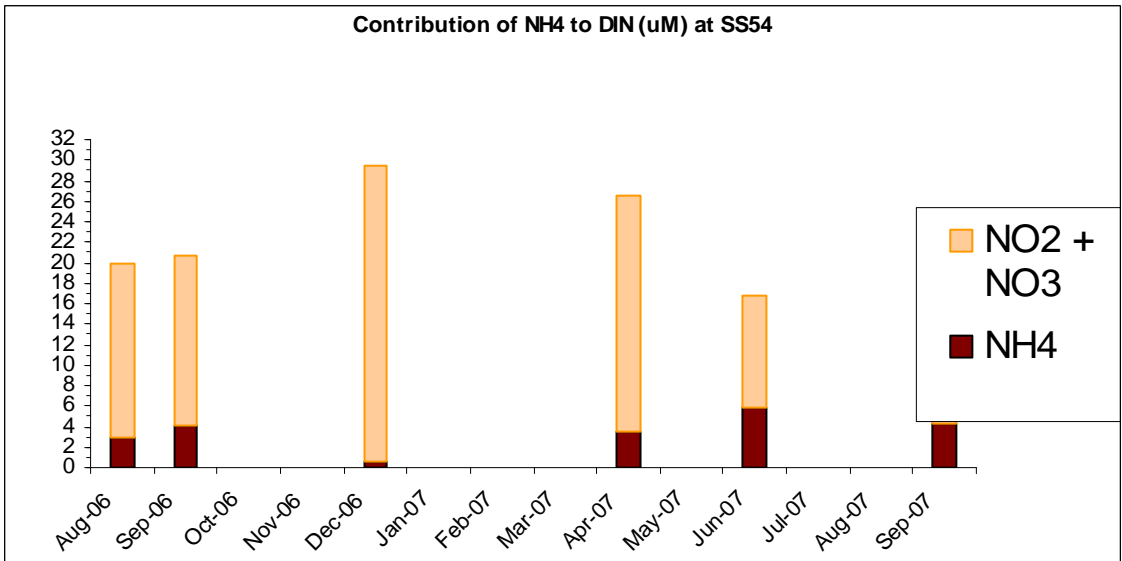


Figure C-280. Contribution of ammonium (uM) to dissolved inorganic nitrogen concentrations from samples at collected station SS54 near South central Case Inlet from July 2006 – October 2007.

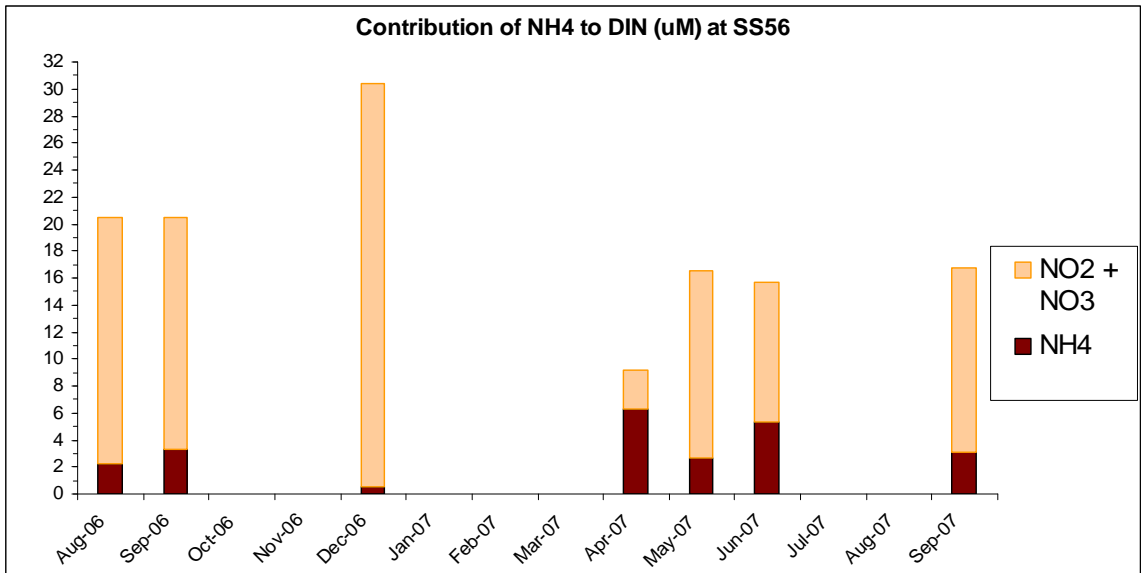


Figure C-281. Contribution of ammonium (uM) to dissolved inorganic nitrogen concentrations from samples at collected station SS56 near South Case Inlet from July 2006 – October 2007.

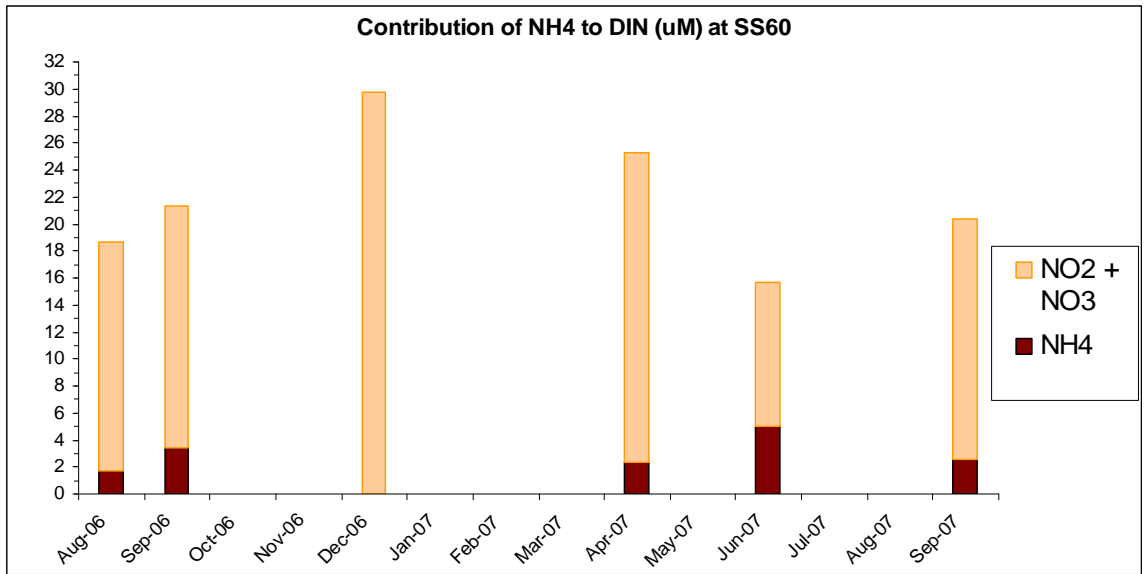


Figure C-282. Contribution of ammonium (uM) to dissolved inorganic nitrogen concentrations from samples at collected station SS60 in Drayton Passage from July 2006 – October 2007.

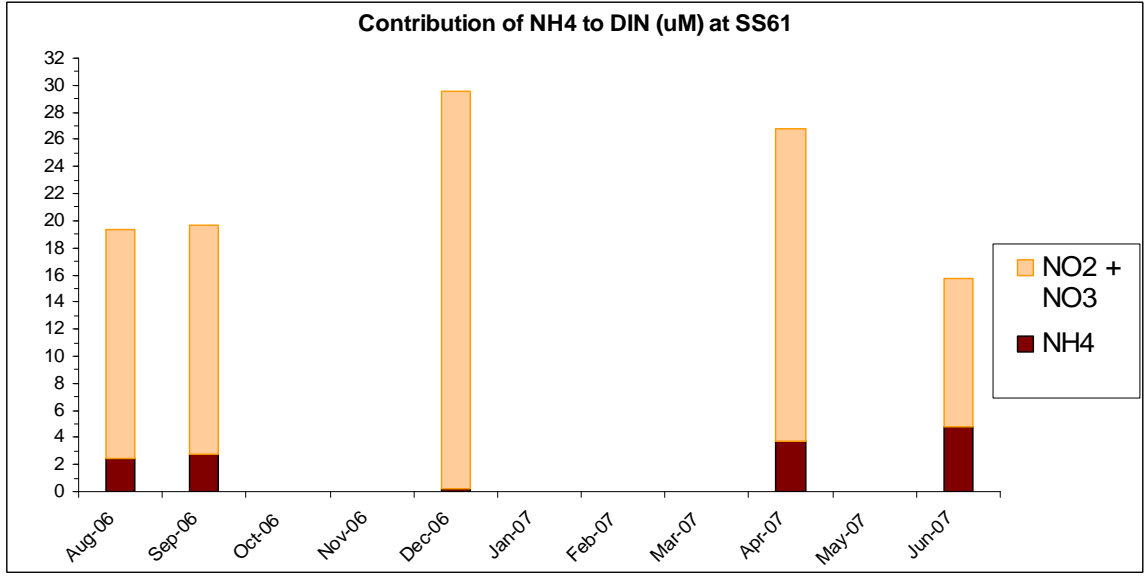


Figure C-283. Contribution of ammonium (uM) to dissolved inorganic nitrogen concentrations from samples collected at station SS61 in Nisqually Reach from July 2006 – October 2007.

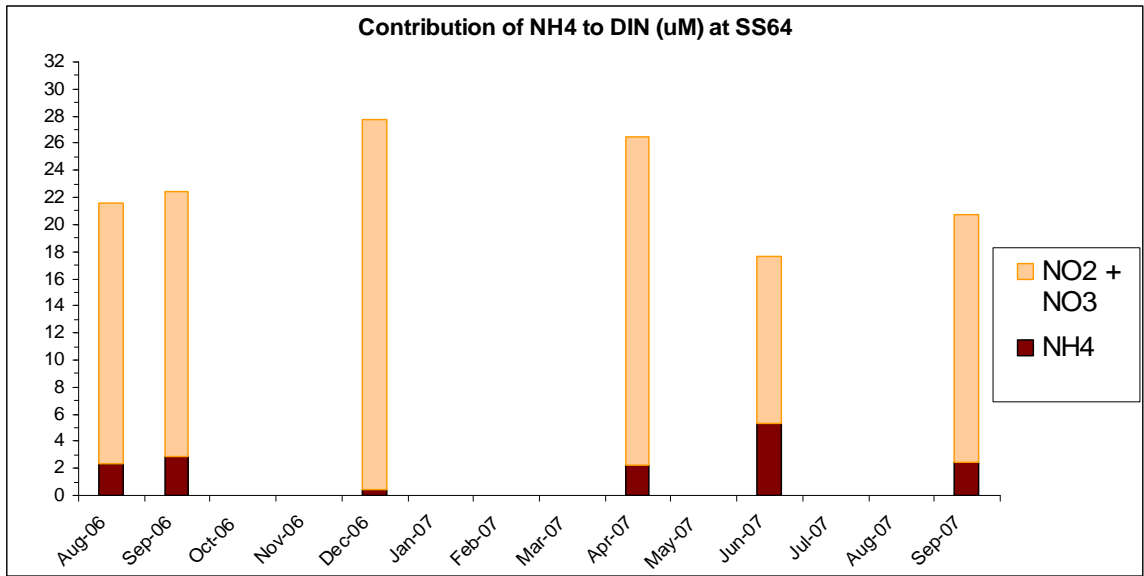


Figure C-284. Contribution of ammonium (uM) to dissolved inorganic nitrogen concentrations from samples collected at station from SS64 in Nisqually Reach July 2006 – October 2007.

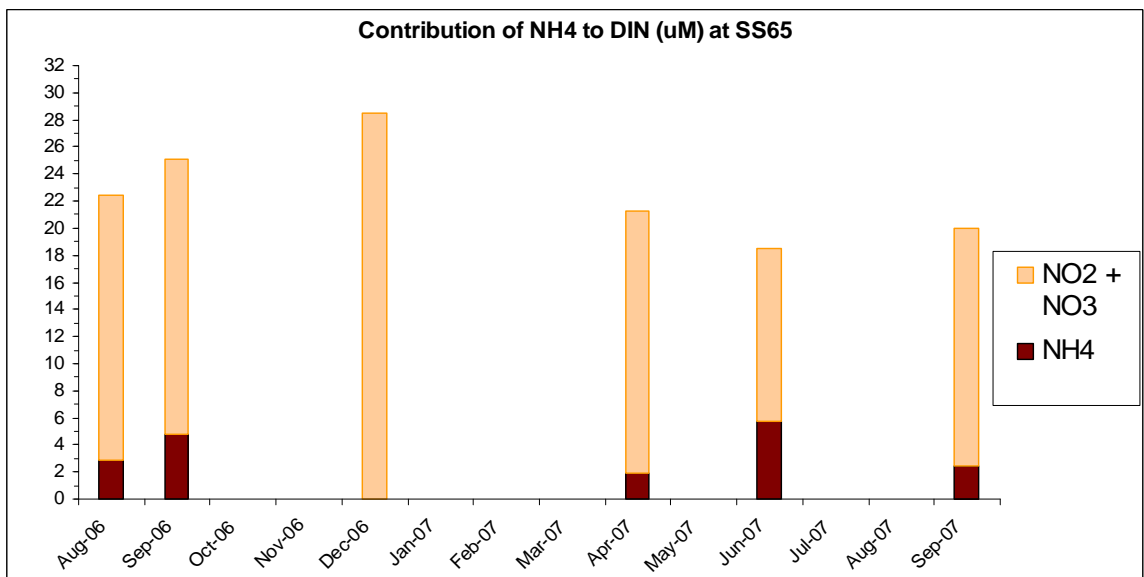


Figure C-285. Contribution of ammonium (uM) to dissolved inorganic nitrogen concentrations from samples collected at station SS65 near Ketron Island from July 2006 – October 2007.

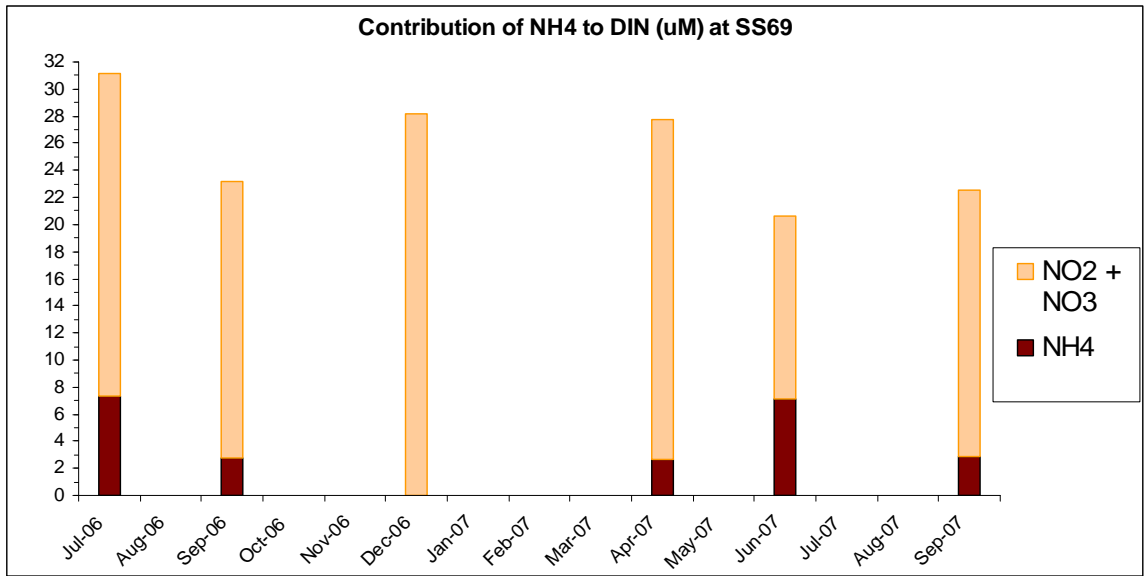


Figure C-286. Contribution of ammonium (uM) to dissolved inorganic nitrogen concentrations from samples collected at station SS69 near South Carr Inlet from July 2006 – October 2007.

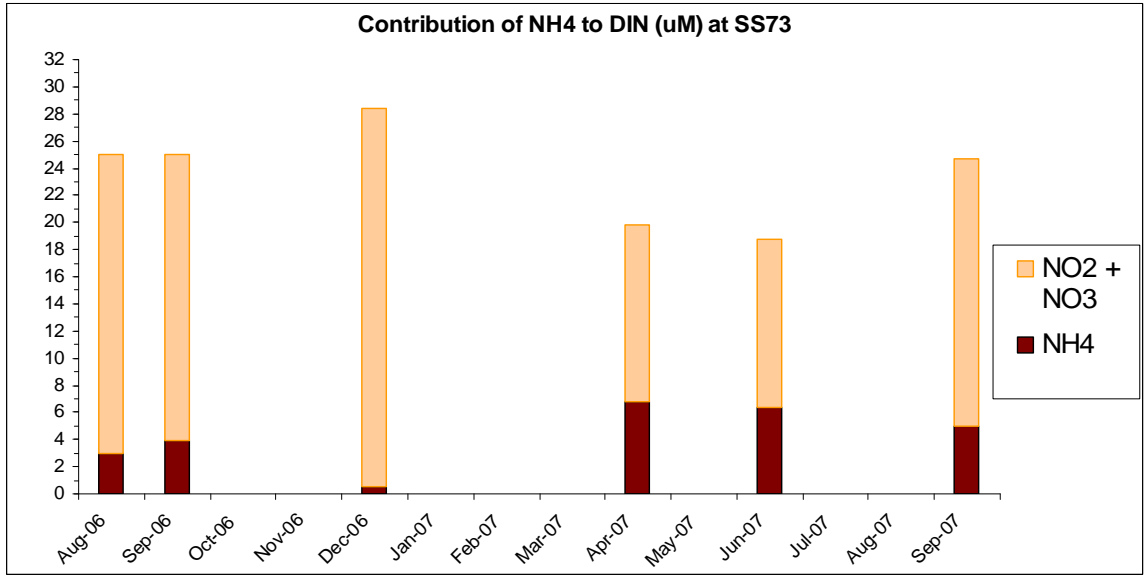


Figure C-287. Contribution of ammonium (uM) to dissolved inorganic nitrogen concentrations from samples collected at station SS73 near North central Carr Inlet from July 2006 – October 2007.

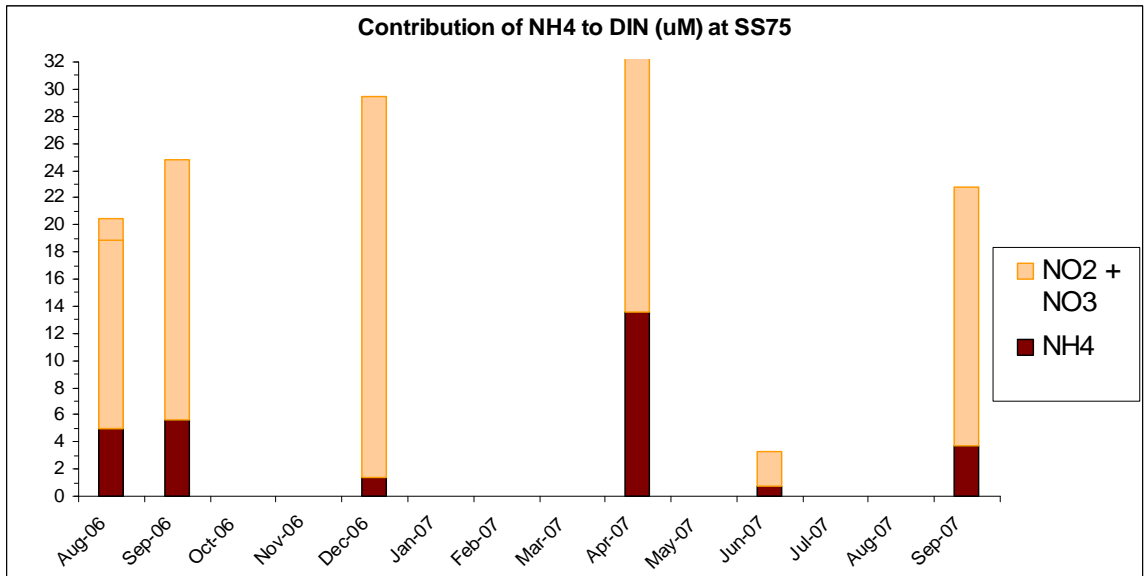


Figure C-288. Contribution of ammonium (uM) to dissolved inorganic nitrogen concentrations from samples collected at station SS75 near North inner Carr Inlet from July 2006 – October 2007.

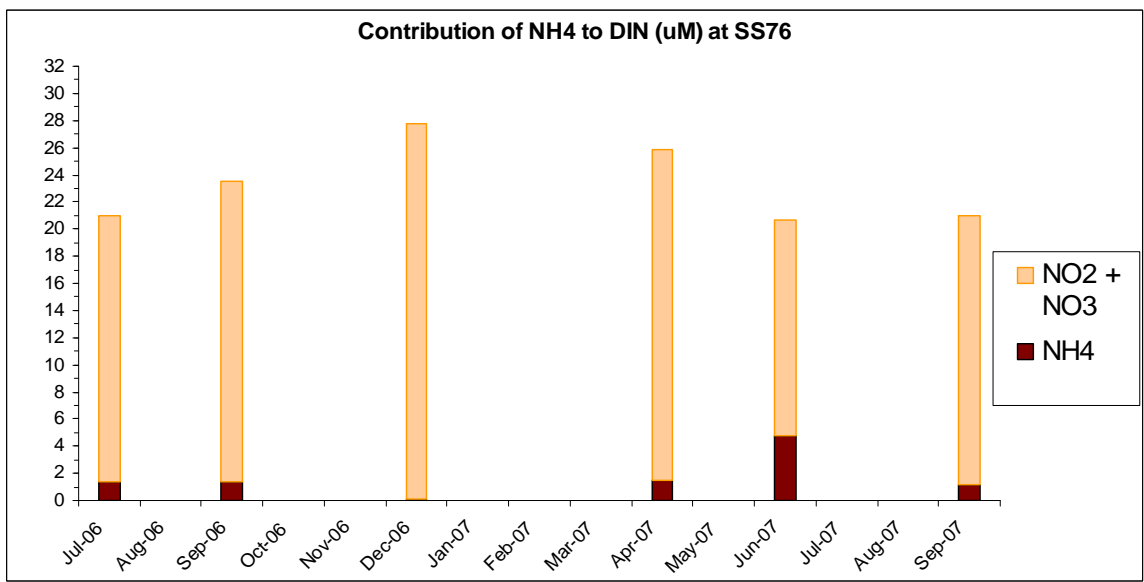


Figure C-289. Contribution of ammonium (uM) to dissolved inorganic nitrogen concentrations from samples collected at station SS76 near Point Fosdick from July 2006 – October 2007.

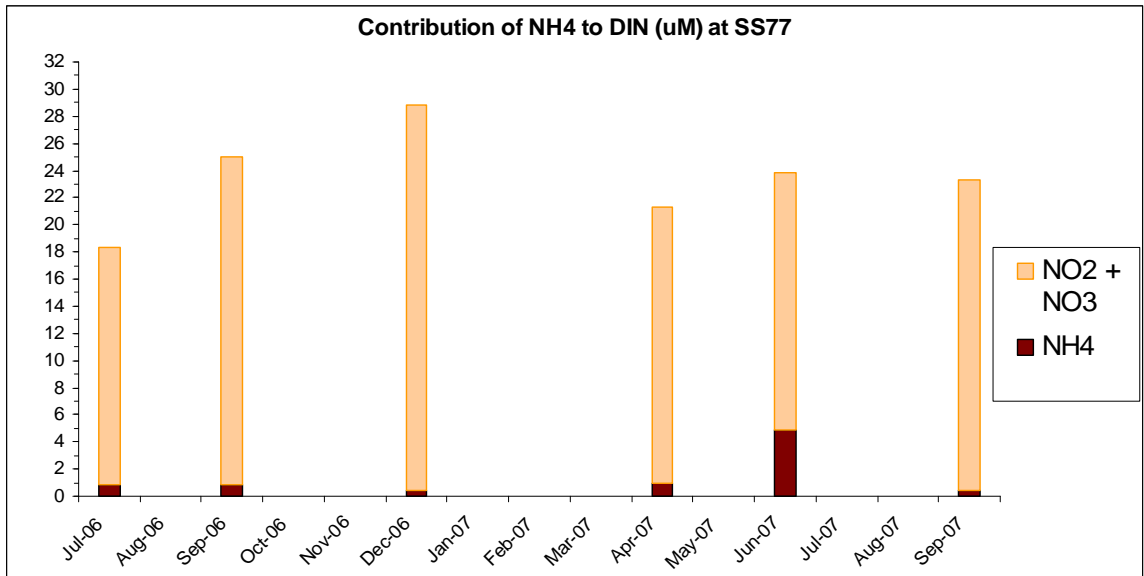


Figure C-290. Contribution of ammonium (uM) to dissolved inorganic nitrogen concentrations from samples collected at station SS77 near the Tacoma Narrows from July 2006 – October 2007.

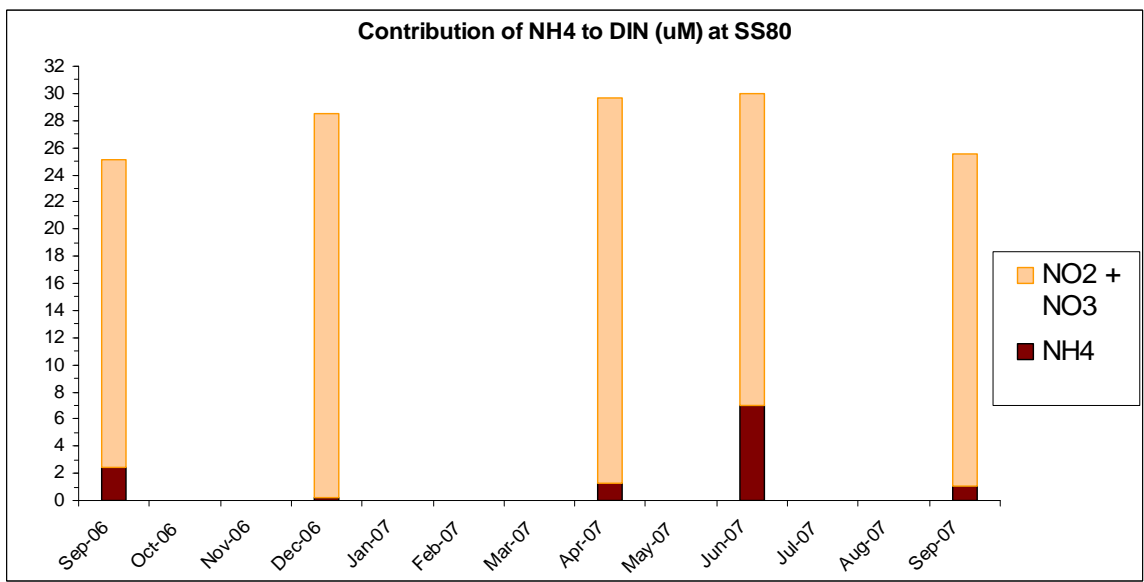


Figure C-291. Contribution of ammonium (uM) to dissolved inorganic nitrogen concentrations from samples collected at station SS80 near Dalco Passage from July 2006 – October 2007.

Ammonium (NH₄) Contribution to Dissolved Inorganic Nitrogen (DIN) Concentration – Spatial Patterns from Quarterly Barnes Cruises

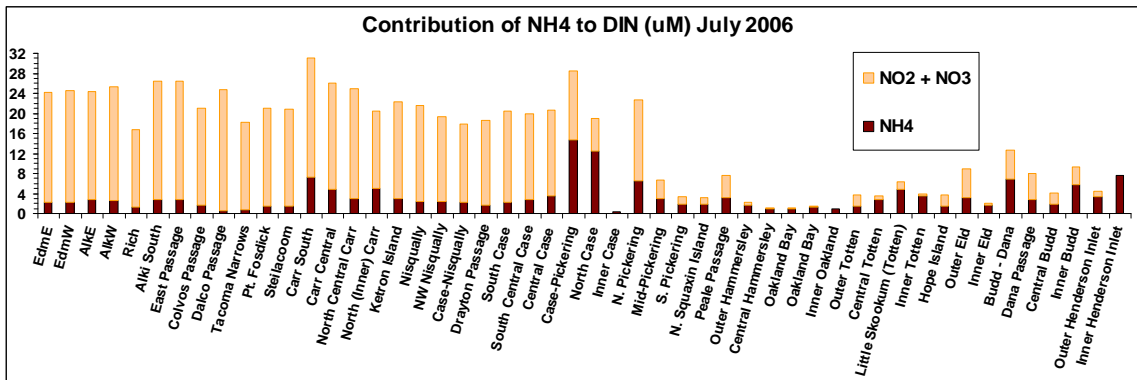


Figure C-292. Contribution of ammonium (uM) to dissolved inorganic nitrogen concentrations from samples collected during the Barnes intensive voyage, July 2006.

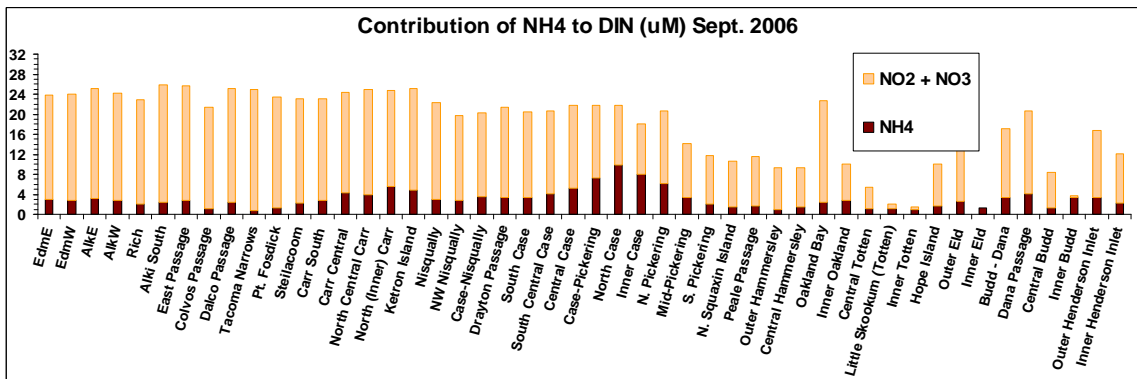


Figure C-293. Contribution of ammonium (uM) to dissolved inorganic nitrogen concentrations from samples collected during the Barnes intensive voyage, September 2006.

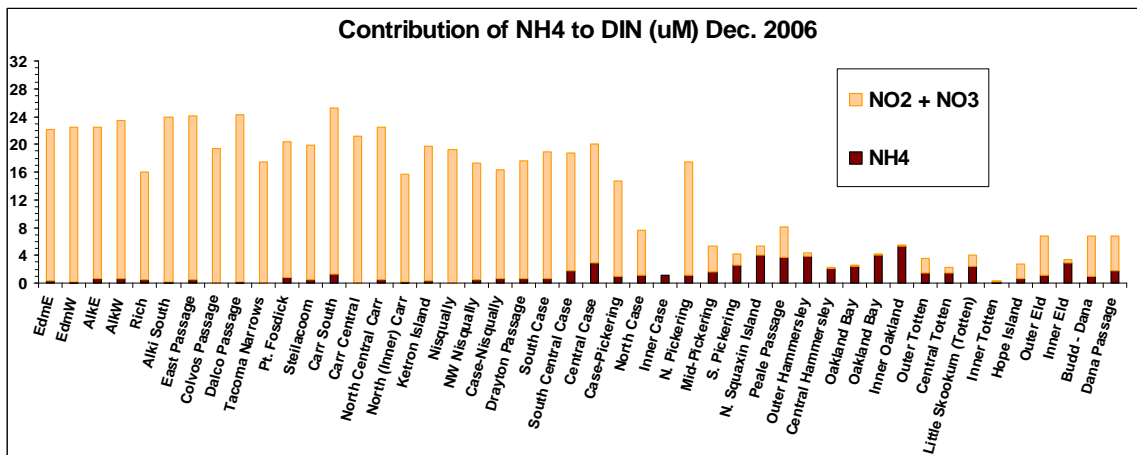


Figure C-294. Contribution of ammonium (uM) to dissolved inorganic nitrogen concentrations from samples collected during the Barnes intensive voyage, December 2006.

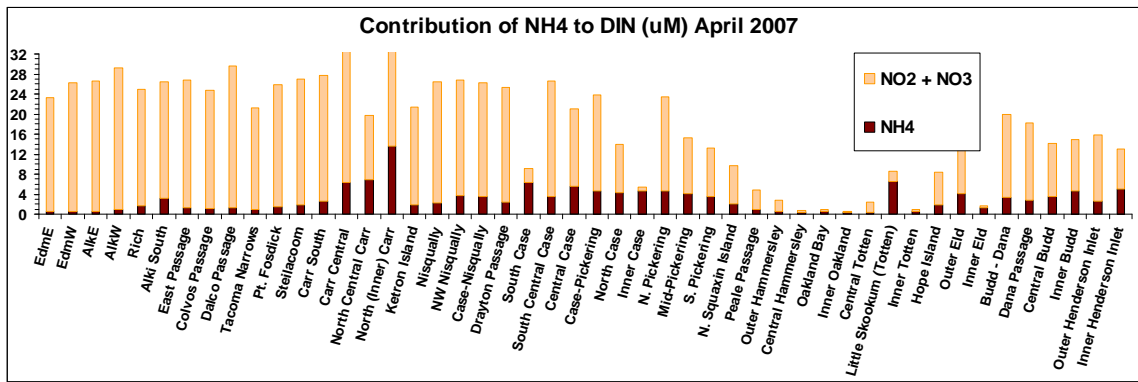


Figure C-295. Contribution of ammonium (uM) to dissolved inorganic nitrogen concentrations from samples collected during the Barnes intensive voyage, April 2007.

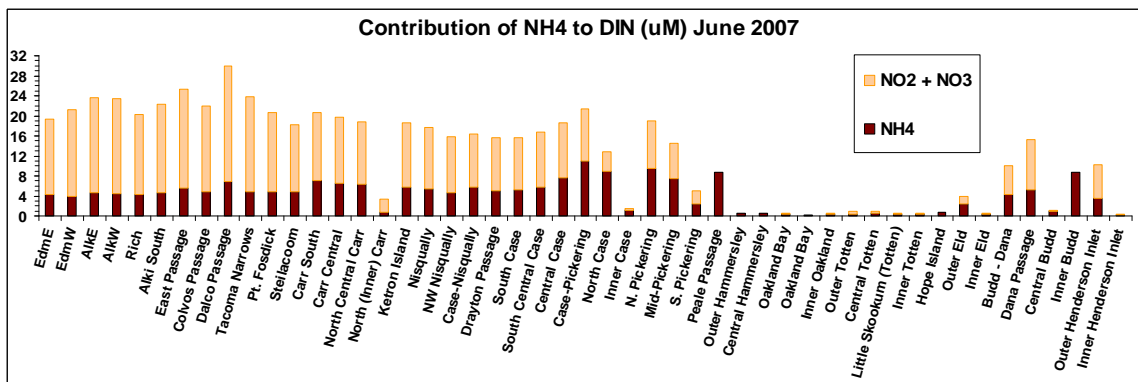


Figure C-296. Contribution of ammonium (uM) to dissolved inorganic nitrogen concentrations from samples collected during the Barnes intensive voyage, June 2007.

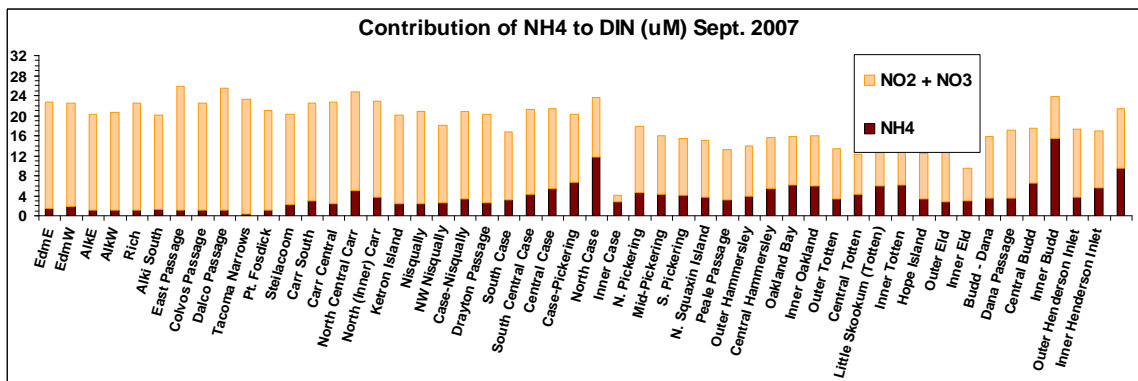


Figure C-297. Contribution of ammonium (uM) to dissolved inorganic nitrogen concentrations from samples collected during the Barnes intensive voyage, September 2007.

Surface Dissolved Inorganic Nitrogen (DIN) – Spatial Patterns from Quarterly Barnes Cruises

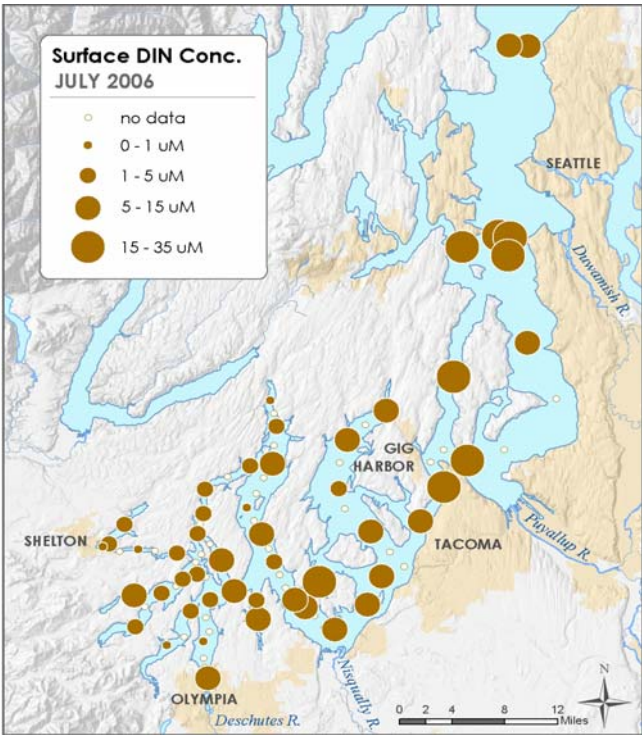


Figure C-298. Surface DIN at stations sampled during intensive Barnes cruise, July 2006.

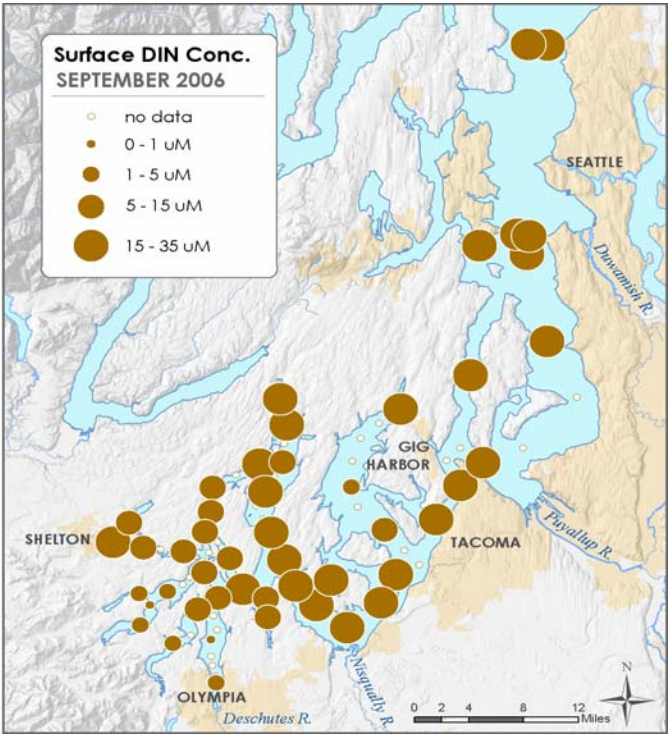


Figure C-299. Surface DIN at stations sampled during intensive Barnes cruise, September 2006.

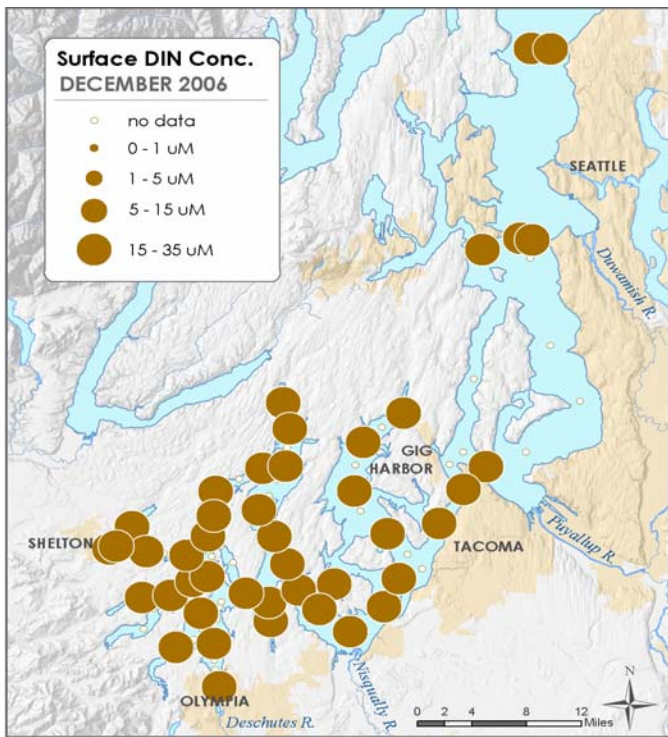


Figure C-300. Surface DIN at stations sampled during intensive Barnes cruise, December 2006.

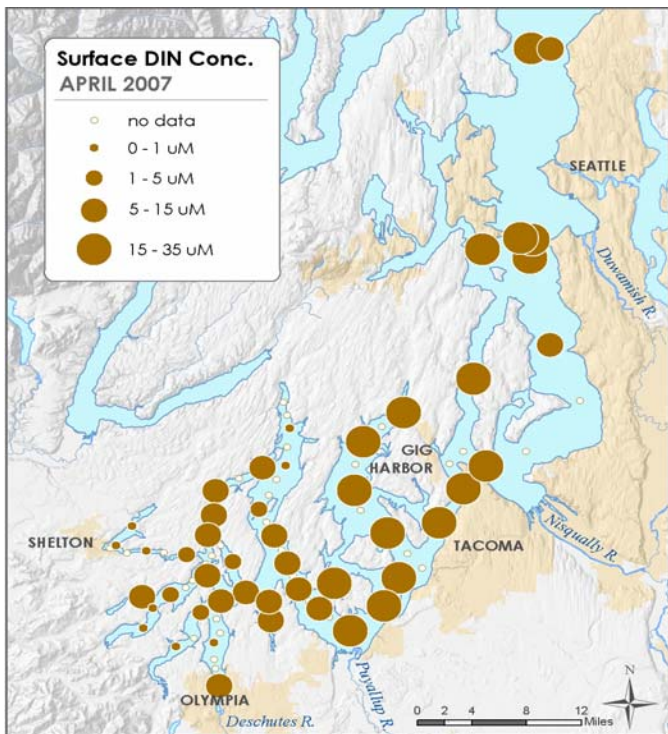


Figure C-301. Surface DIN at stations sampled during intensive Barnes cruise, April 2007.

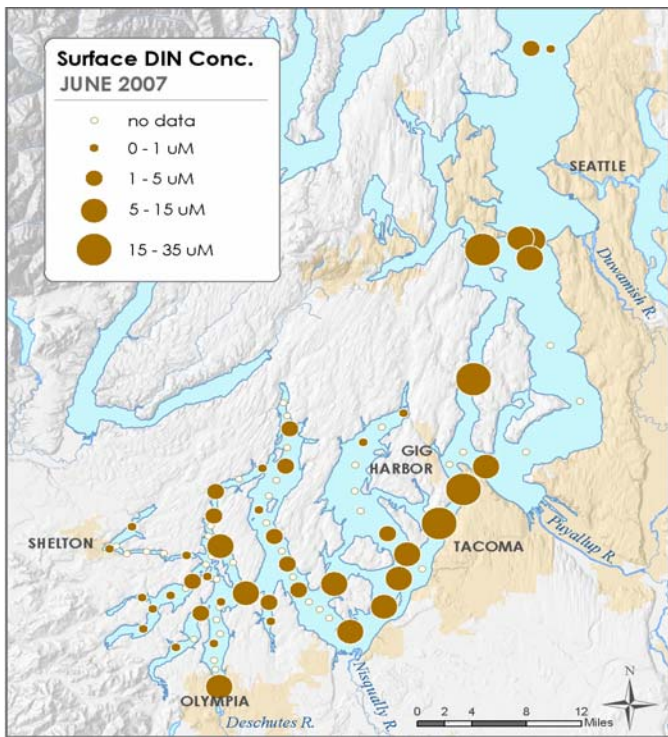


Figure C-302. Surface DIN at stations sampled during intensive Barnes cruise, June 2007.

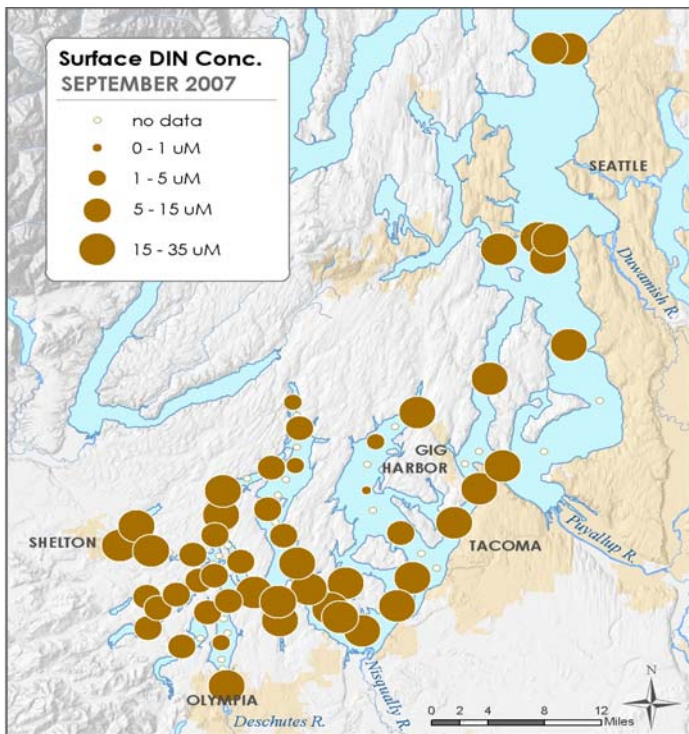


Figure C-303. Surface DIN at stations sampled during intensive Barnes cruise, September 2007.

Surface Chlorophyll a (Chla) – Spatial Patterns from Quarterly Barnes Cruises

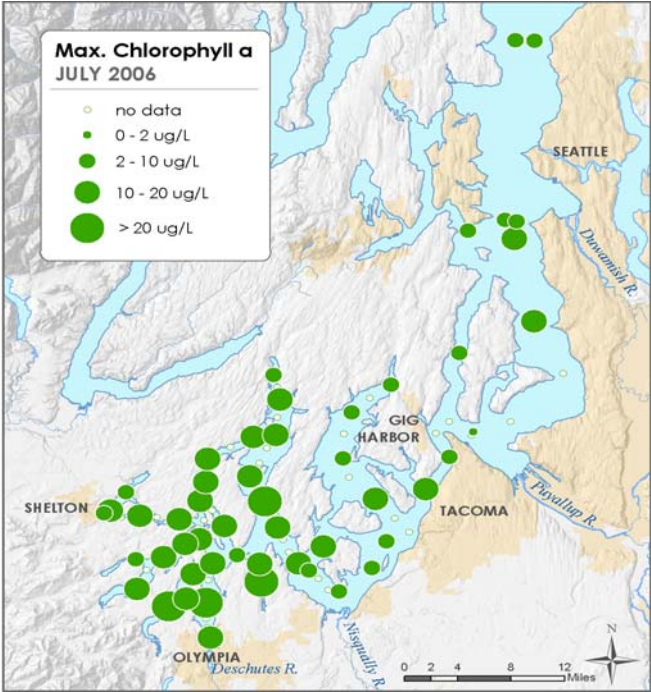


Figure C-304. Maximum chlorophyll a concentrations at stations sampled during intensive Barnes cruise, July 2006.

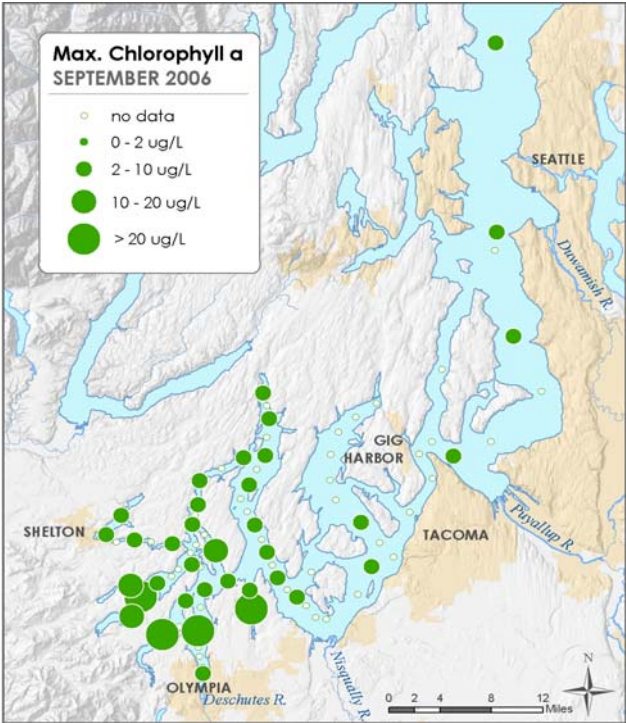


Figure C-305. Maximum chlorophyll a concentrations at stations sampled during intensive Barnes cruise, September 2006.

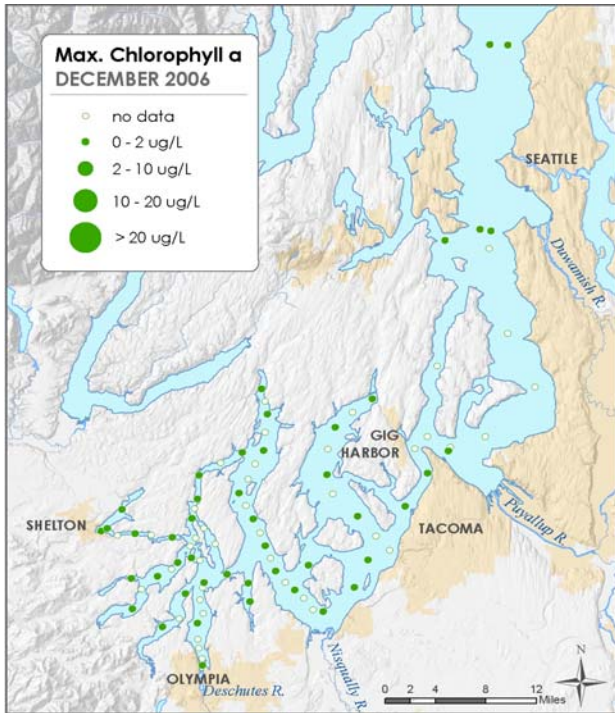


Figure C-306. Maximum chlorophyll a concentrations at stations sampled during intensive Barnes cruise, December 2006.

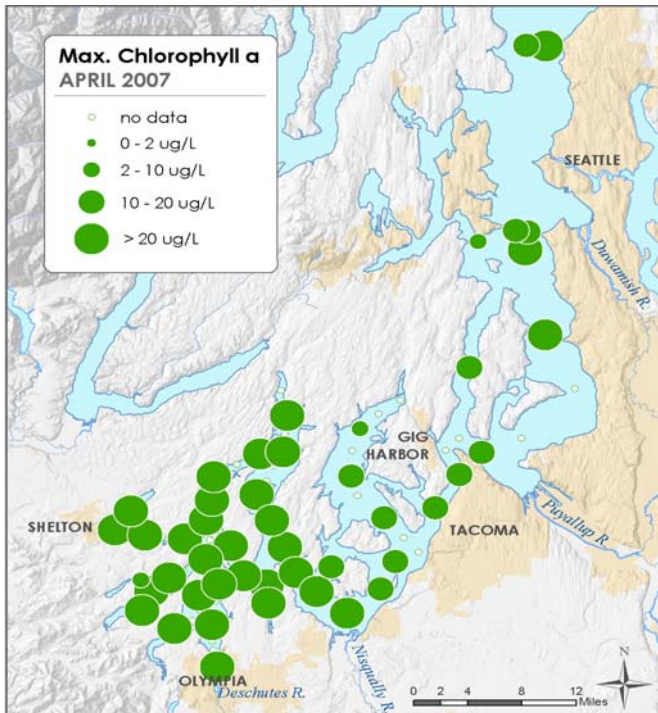


Figure C-307. Maximum chlorophyll a concentrations at stations sampled during intensive Barnes cruise, April 2007.

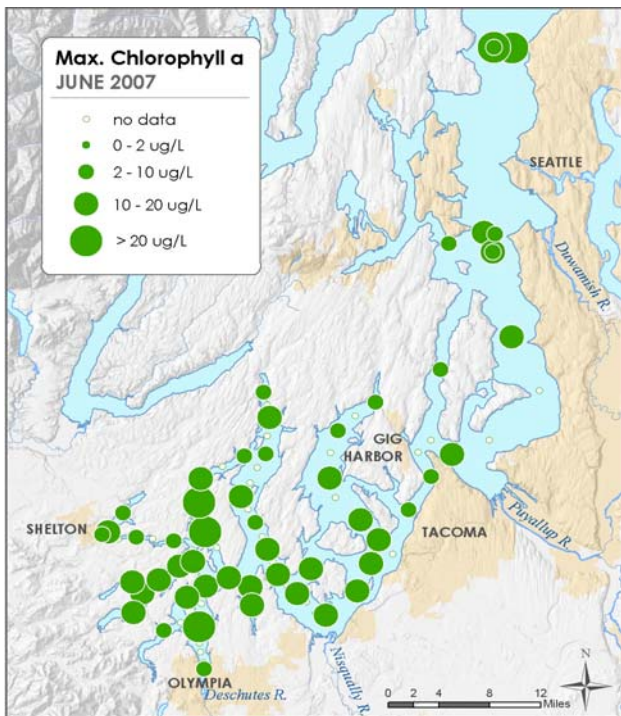


Figure C-308. Maximum chlorophyll a concentrations at stations sampled during intensive Barnes cruise, June 2007.

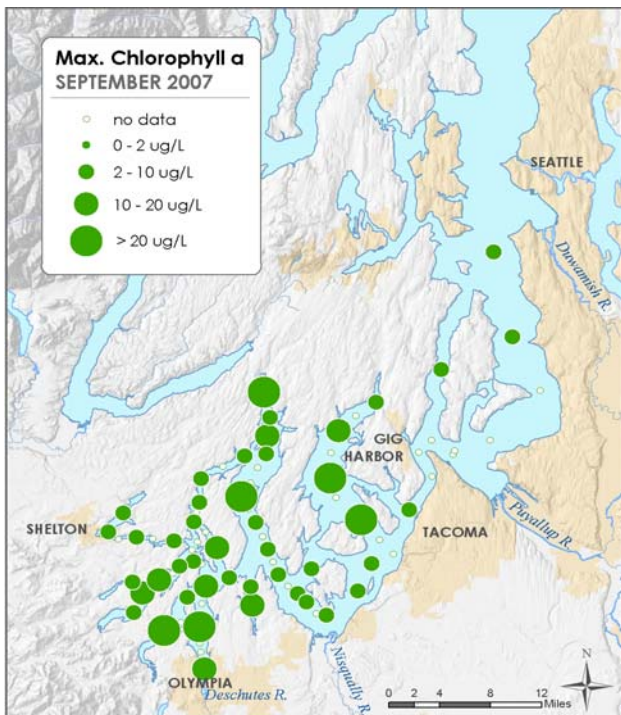


Figure C-309. Maximum chlorophyll a concentrations at stations sampled during intensive Barnes cruise, September 2007.

Maximum Water Column Ammonium Concentrations

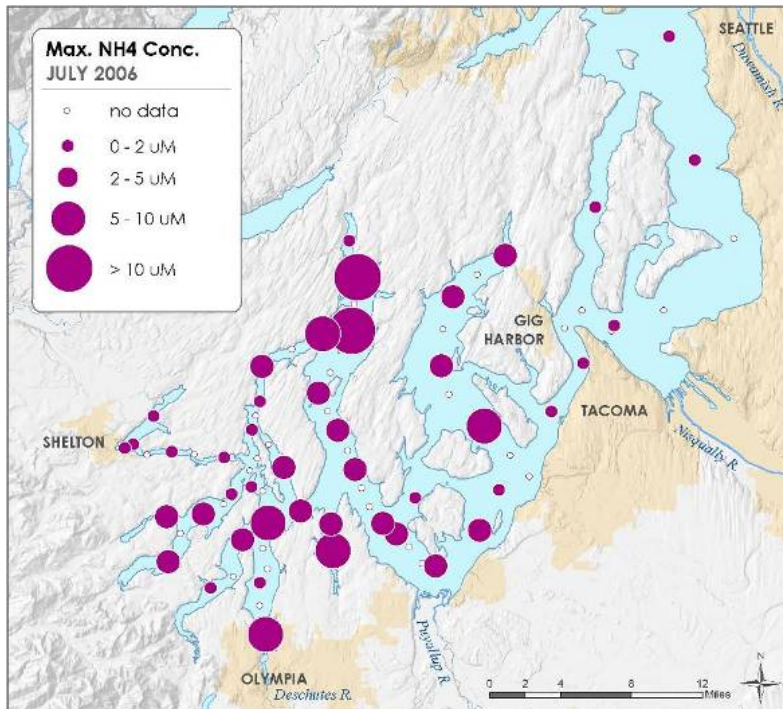


Figure C-310. Maximum ammonium concentrations found at each South Puget Sound station during intensive July 31 – August 3, 2006 Barnes cruise.

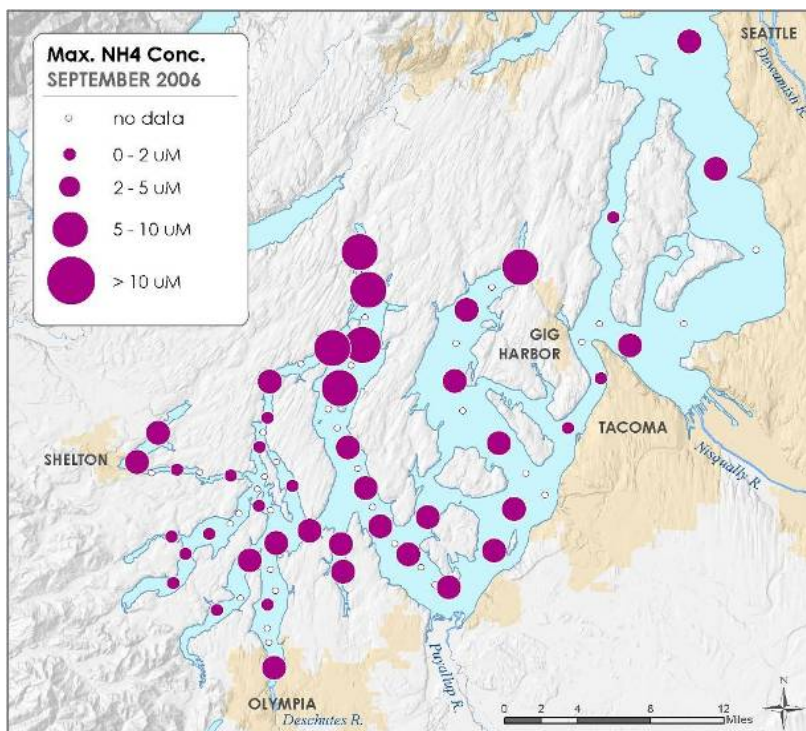


Figure C-311. Maximum ammonium concentrations found at each South Puget Sound station during intensive September 25 – 27, 2006 Barnes cruise.

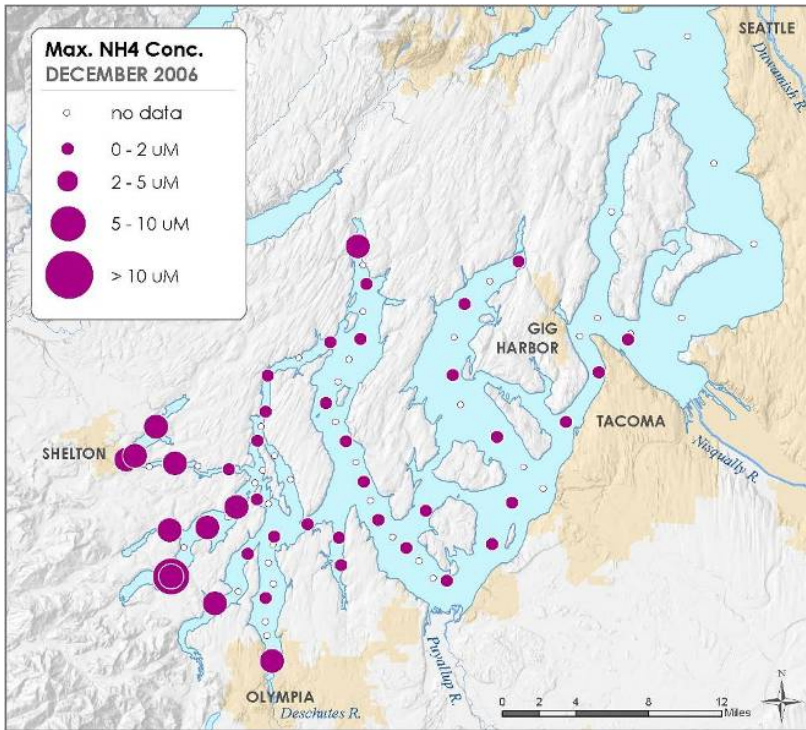


Figure C-312. Maximum ammonium concentrations found at each South Puget Sound station during intensive December 18 – 21, 2006 Barnes cruise.

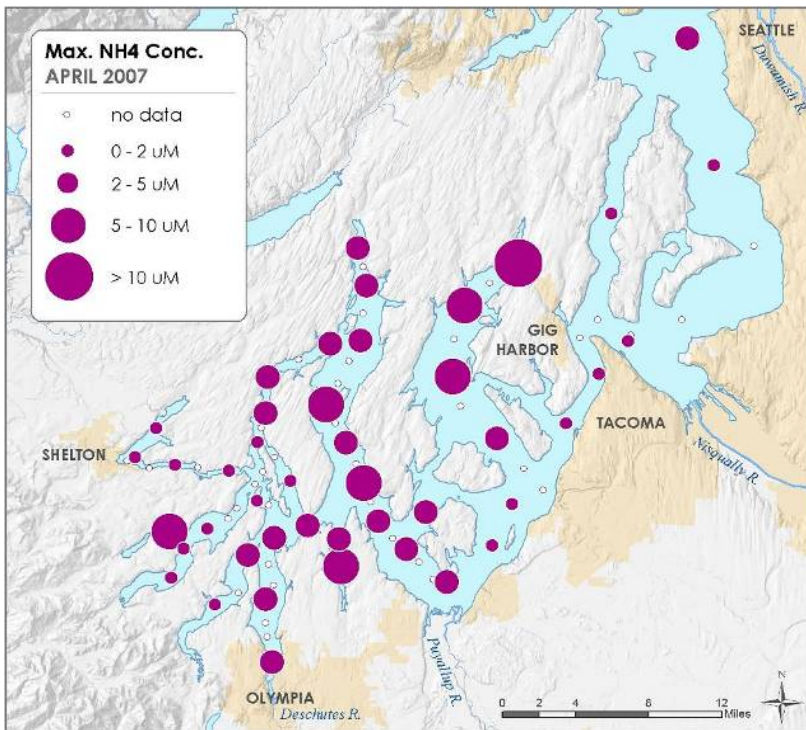


Figure C-313. Maximum ammonium concentrations found at each South Puget Sound stations during intensive April 23 – 26, 2007 Barnes cruise.

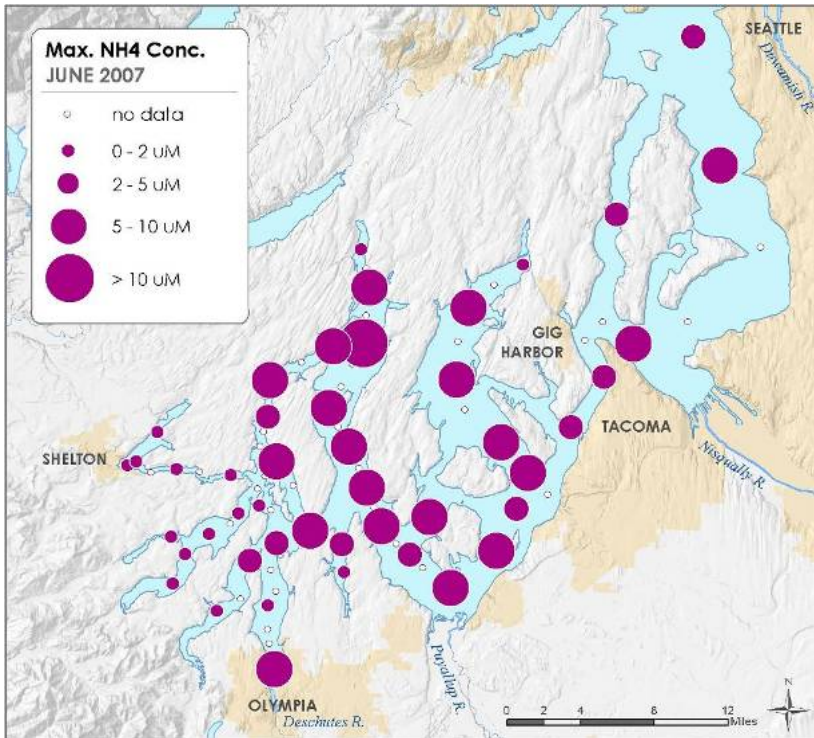


Figure C-314. Maximum ammonium concentrations found at each South Puget Sound station during intensive June 25 – 29, 2007 Barnes cruise.

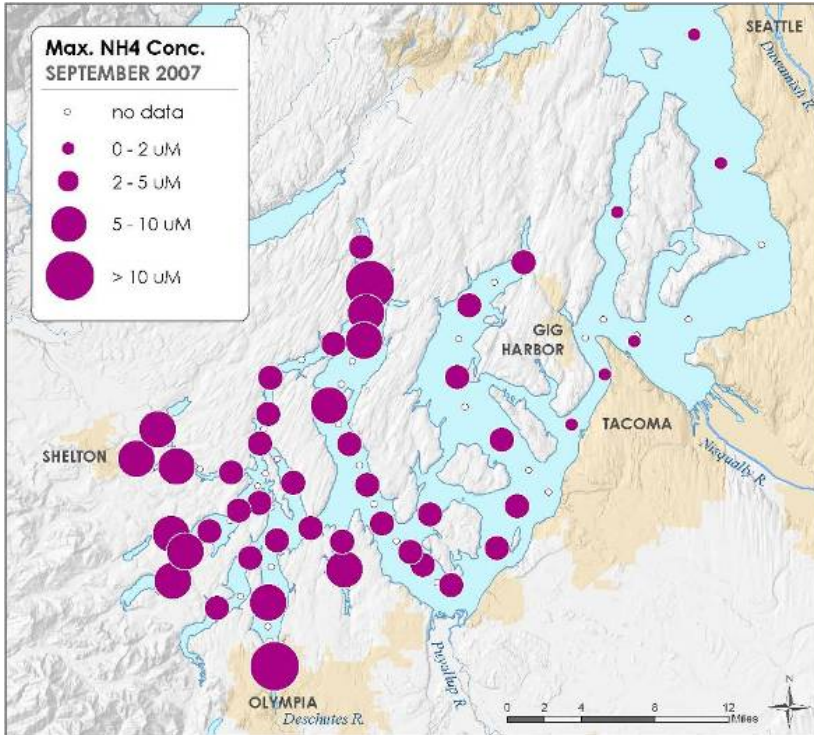


Figure C-315. Maximum ammonium concentrations found at each South Puget Sound stations during intensive September 24 – 27, 2007 Barnes cruise.