

Green Island Reclamation (Part) - Public Dump

**Environmental & Traffic Impact
Assessment**



Final Report (EIA) Annex III (Water Quality Model Results)

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Hydraulics and Water Research Asia Ltd
MVA Asia Ltd

WATER QUALITY MODEL RESULTS

APPENDIX 1 - CASE 1 (EXISTINIG)

APPENDIX 2 - CASE 2 (BASELIINE)

APPENDIX 3 - CASE 3 (1ST SCENARIO)

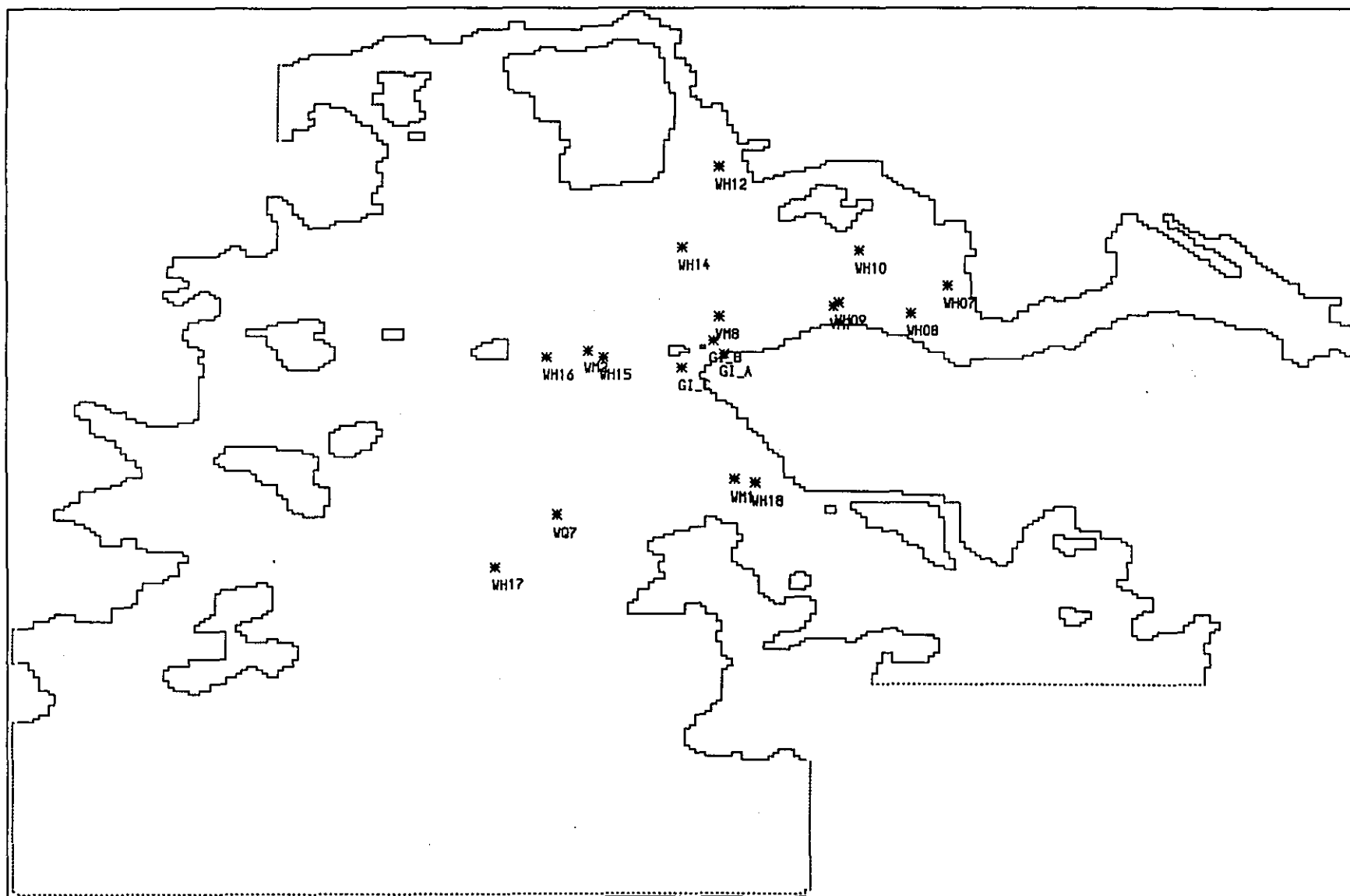
APPENDIX 4 - CASE 5 (FULL SCENARIO)

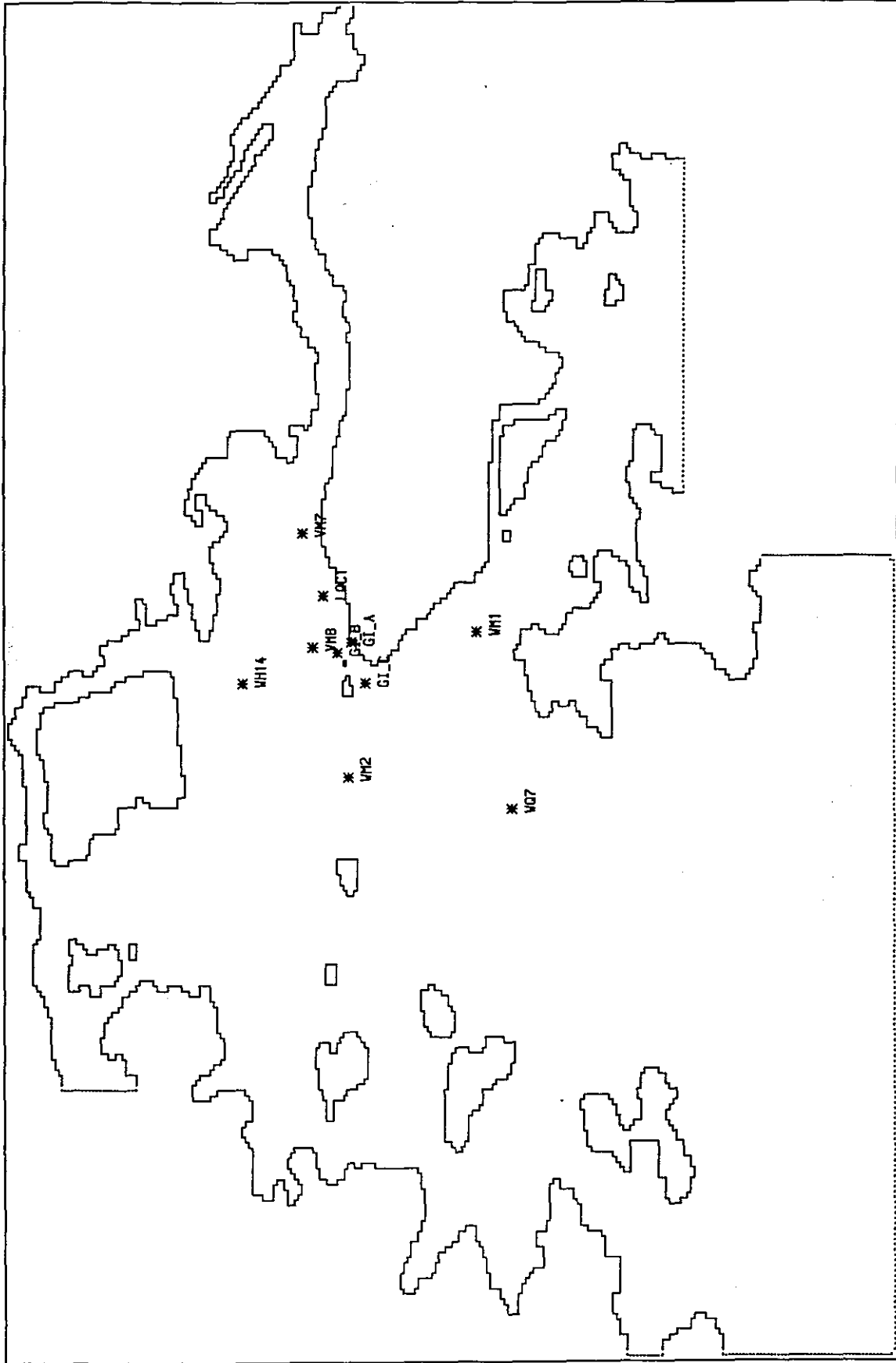
LIST OF FIGURES

Figure 1	Locations of Calibration Stations
Figure 2	Locations of Monitoring Stations
Appendix 1	Case 1 (Existing)
Figure 3	Case 1 (Existing) : Calibration Curves, Dry Season Neap Tide
Figure 4	Case 1 (Existing) : Calibration Curves, Dry Season Spring Tide
Figure 5	Case 1 (Existing) : Calibration Curves, Wet Season Neap Tide
Figure 6	Case 1 (Existing) : Calibration Curves, Wet Season Spring Tide
Appendix 2	Case 2 (Baseline)
Table 1	Case 2 (Baseline) : Tidal Averaged Plots, Dry Season Neap Tide
Table 2	Case 2 (Baseline) : Tidal Averaged Plots, Dry Season Spring Tide
Table 3	Case 2 (Baseline) : Tidal Averaged Plots, Wet Season Neap Tide
Table 4	Case 2 (Baseline) : Tidal Averaged Plots, Wet Season Spring Tide
Appendix 3	Case 3 (1st Scenario)
Table 5	Case 3 (1st Scenario) : Tidal Averaged Tables - Dry Season Neap Tide
Table 6	Case 3 (1st Scenario) : Tidal Averaged Tables - Dry Season Spring Tide
Table 7	Case 3 (1st Scenario) : Tidal Averaged Tables - Wet Season Neap Tide
Table 8	Case 3 (1st Scenario) : Tidal Averaged Tables - Wet Season Spring Tide
Figure 7	Case 3 (1st Scenario) : Time History Plots - Dry Season Neap Tide
Figure 8	Case 3 (1st Scenario) : Time History Plots - Dry Season Spring Tide
Figure 9	Case 3 (1st Scenario) : Time History Plots - Wet Season Neap Tide
Figure 10	Case 3 (1st Scenario) : Time History Plots - Wet Season Spring Tide

LIST OF FIGURES (cont'd)

Appendix 4	Case 5 (Full Scenario)
Table 9	Case 5 (Full Scenario) : Tidal Averaged Tables - Dry Season Neap Tide
Table 10	Case 5 (Full Scenario) : Tidal Averaged Tables - Dry Season Spring Tide
Table 11	Case 5 (Full Scenario) : Tidal Averaged Tables - Wet Season Neap Tide
Table 12	Case 5 (Full Scenario) : Tidal Averaged Tables - Wet Season Spring Tide
Figure 11	Case 5 (Full Scenario) : Time History Plots - Dry Season Neap Tide
Figure 12	Case 5 (Full Scenario) : Time History Plots - Dry Season Spring Tide
Figure 13	Case 5 (Full Scenario) : Time History Plots - Wet Season Neap Tide
Figure 14	Case 5 (Full Scenario) : Time History Plots - Wet Season Spring Tide





APPENDIX 1

CASE 1 (EXISTING)

FIGURE 3

CASE 1 (EXISTING) : DRY SEASON NEAP TIDE

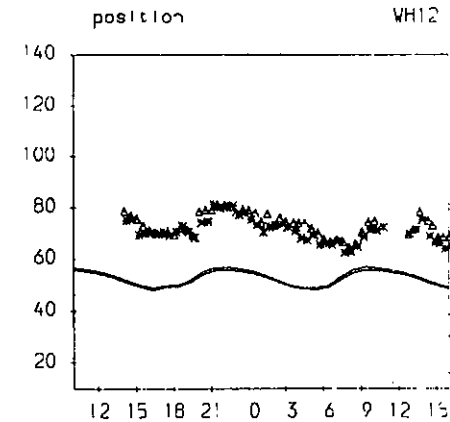
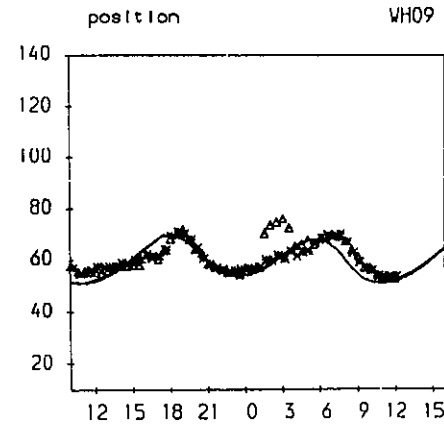
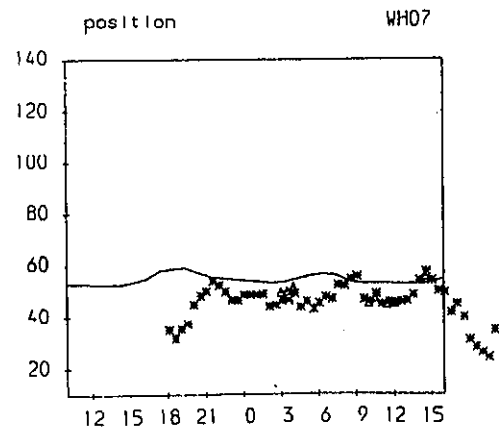
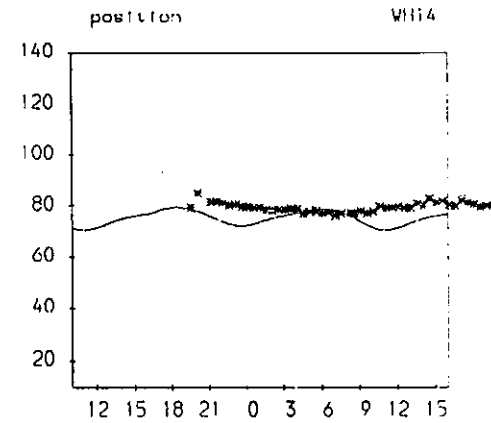
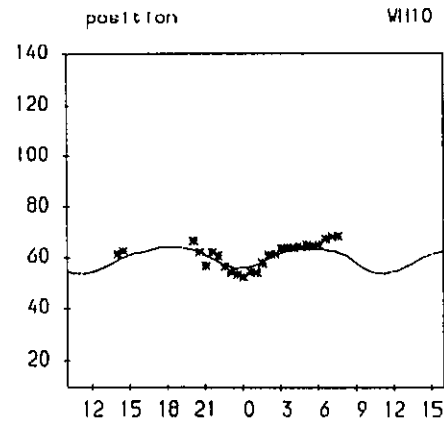
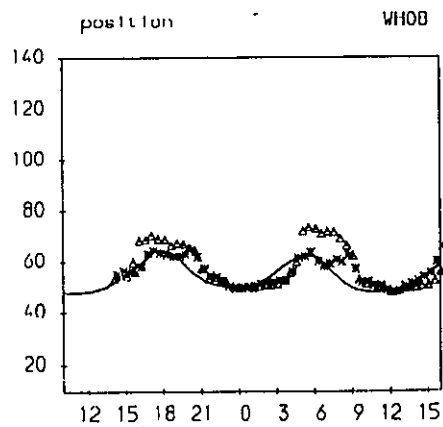
Green Island Dry Neap calibration 12/11/93

Dissolved Oxygen (% saturation) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



Green Island Dry Neap calibration 12/11/93

Dissolved Oxygen (% saturation) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer

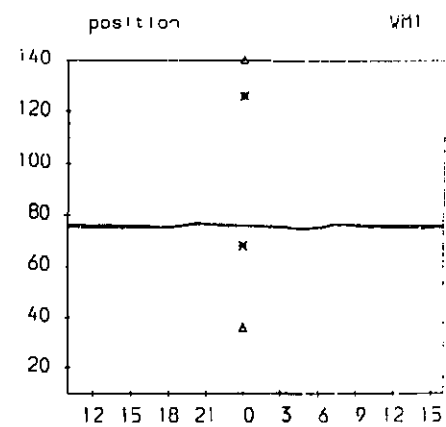
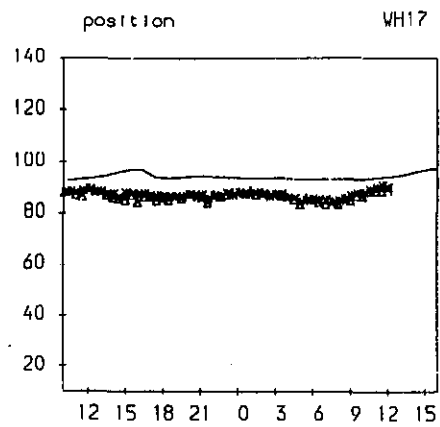
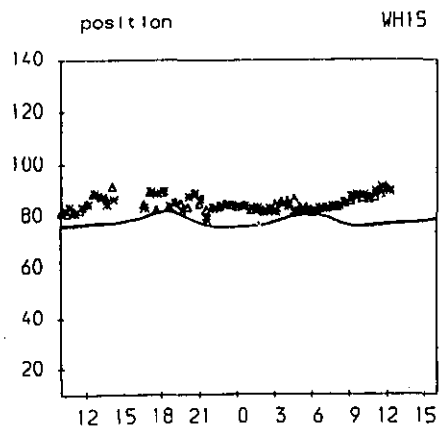
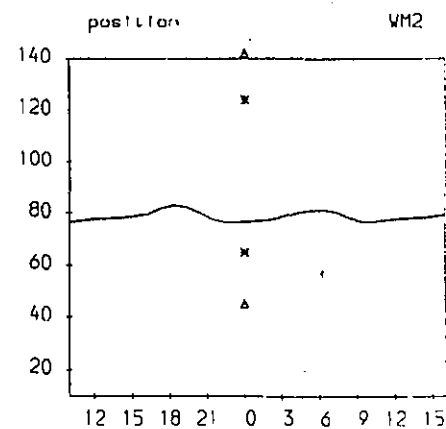
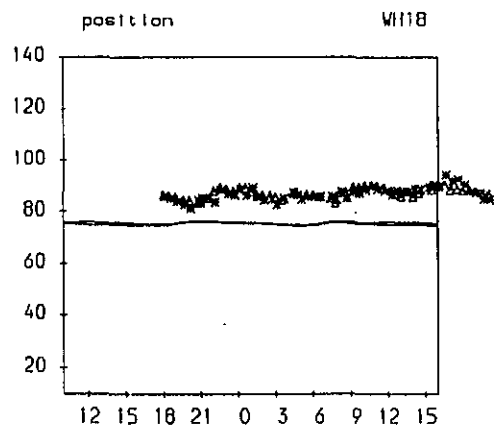
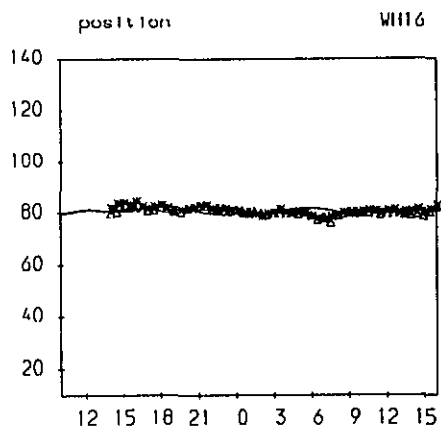


FIG 3

Green Island Dry Neap calibration 12/11/93

Dissolved Oxygen (% saturation) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer

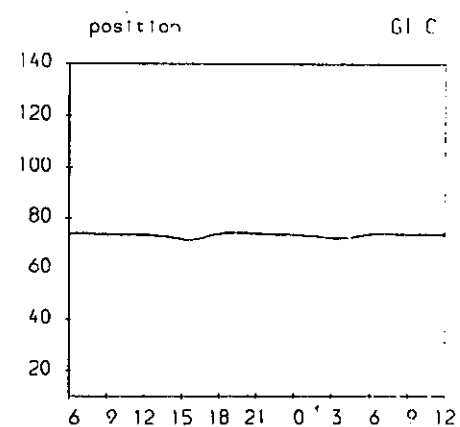
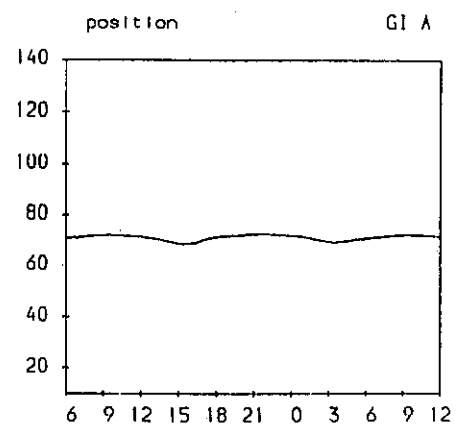
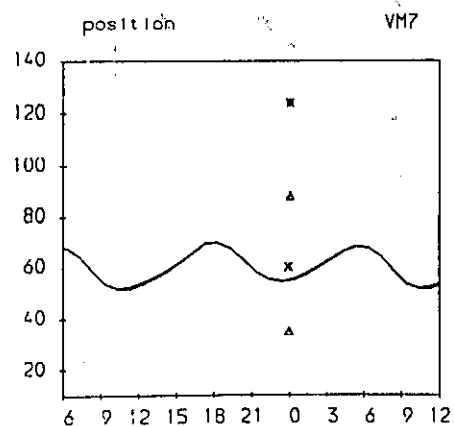
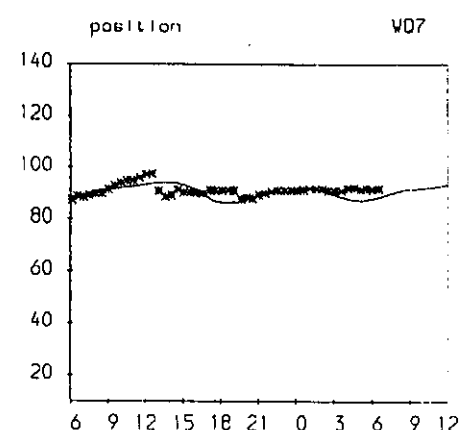
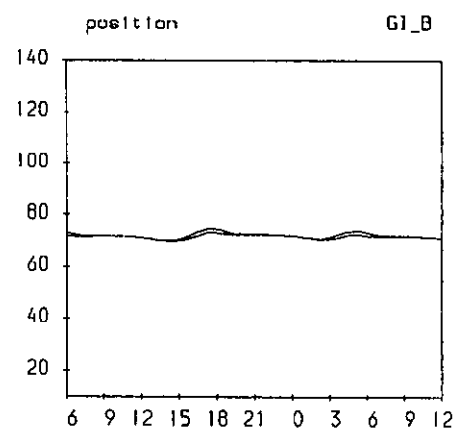
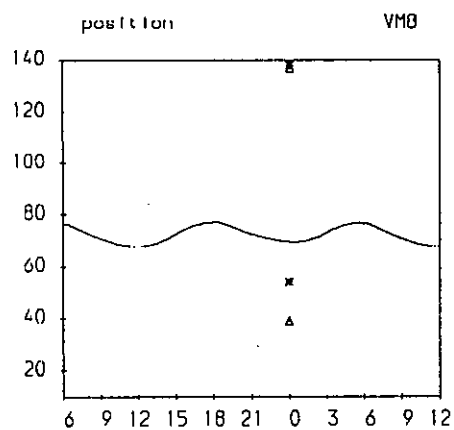


Fig 3

Green Island Dry Neap calibration 12/11/93

Salinity (g/kg) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer

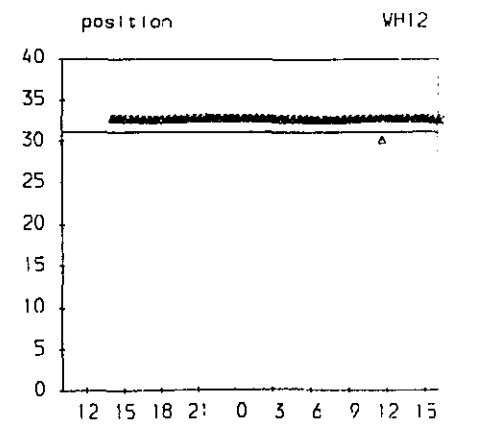
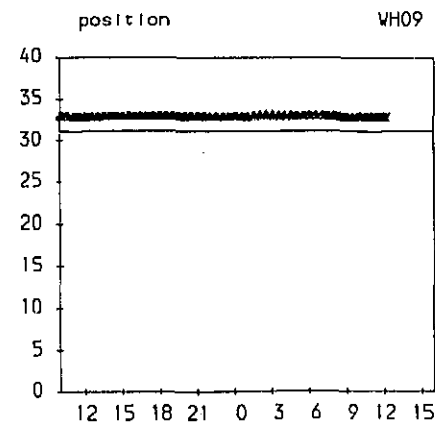
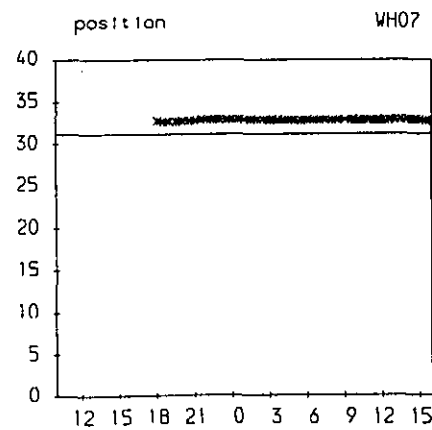
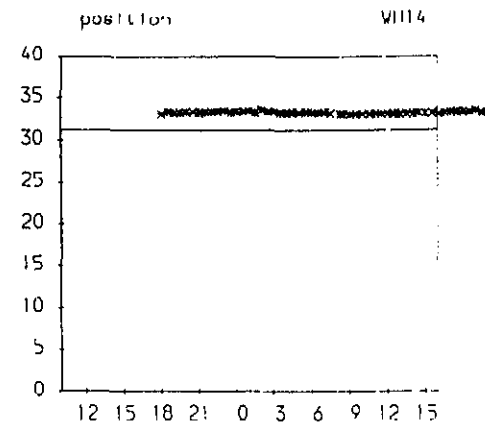
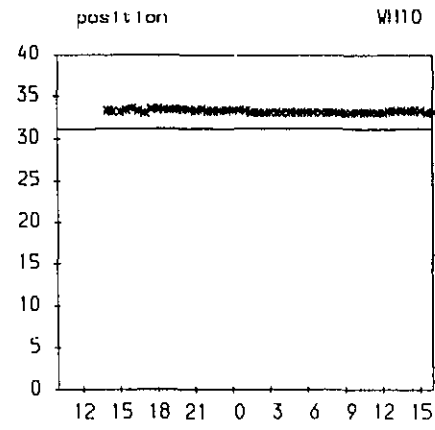
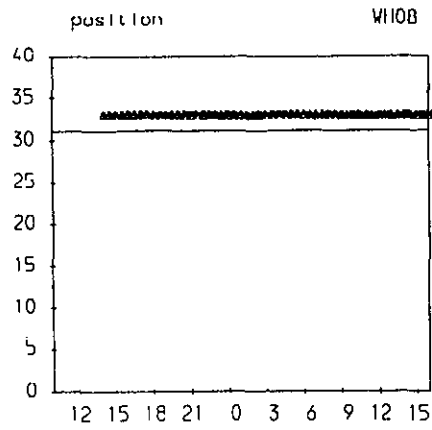


Fig 3

Green Island Dry Neap calibration 12/11/93

Salinity (g/kg) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer

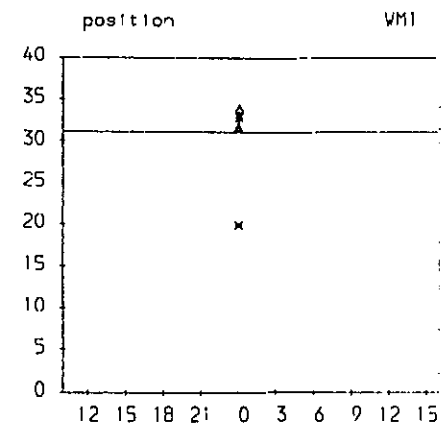
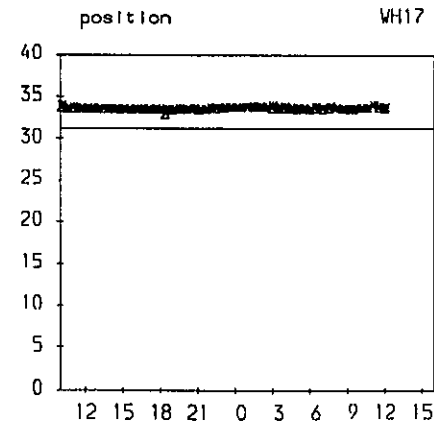
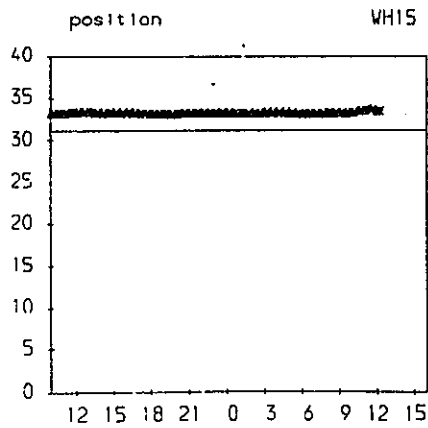
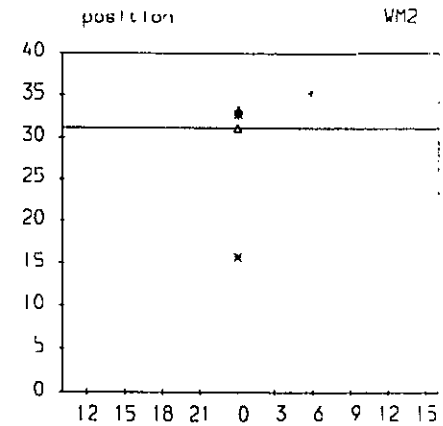
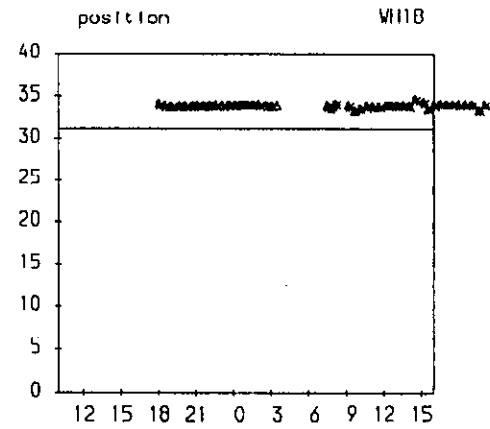
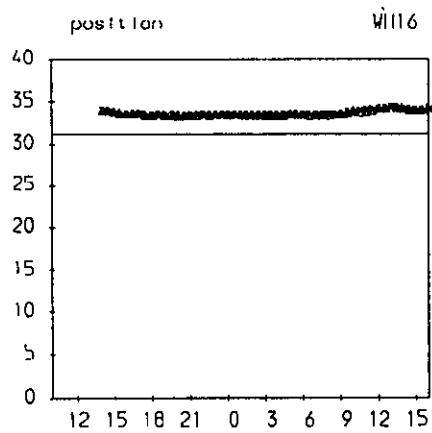


Fig. 2

Green Island Dry Neap calibration 12/11/93

Salinity (g/kg) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer

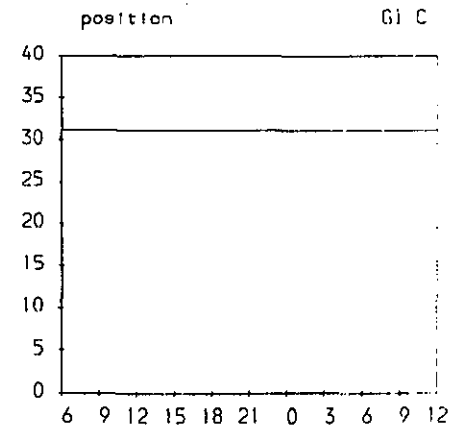
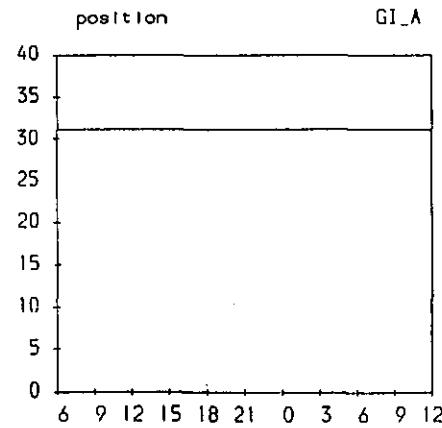
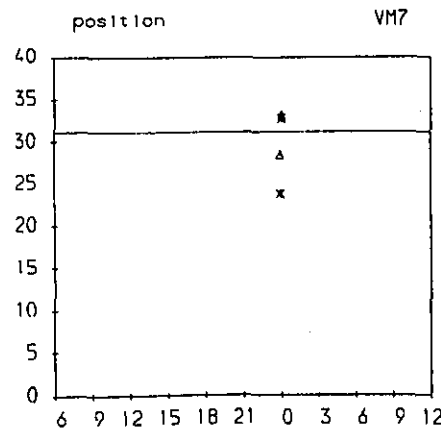
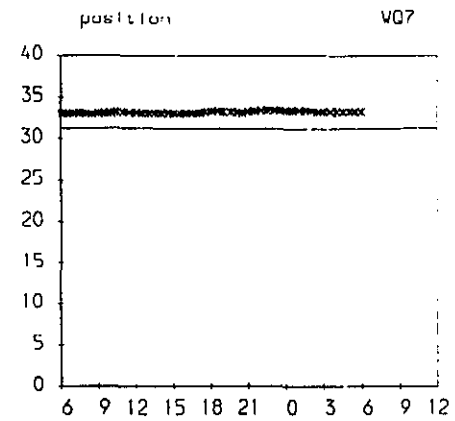
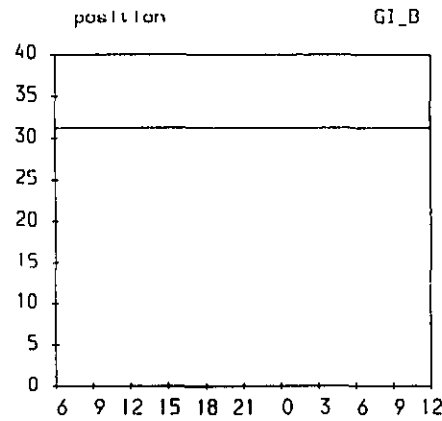
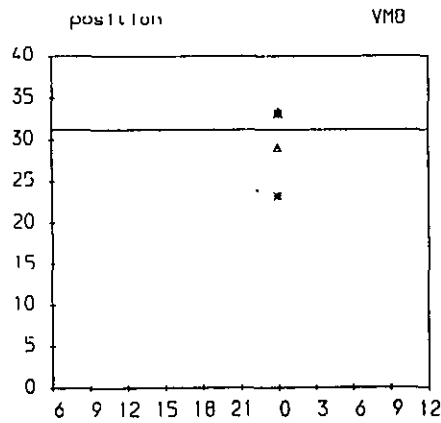


Fig 3

Green Island Dry Neap calibration 12/11/93

temperature (degrees C) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer

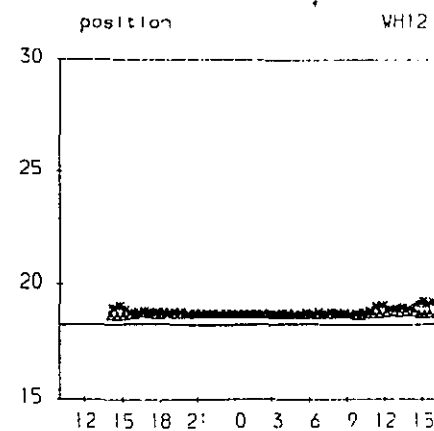
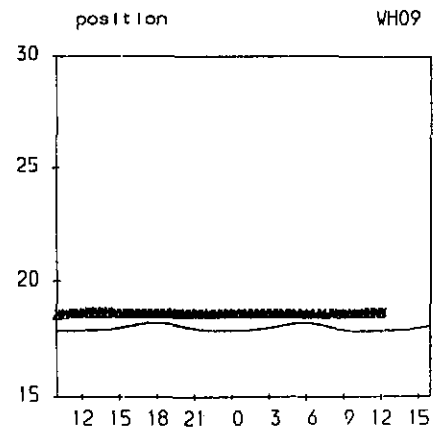
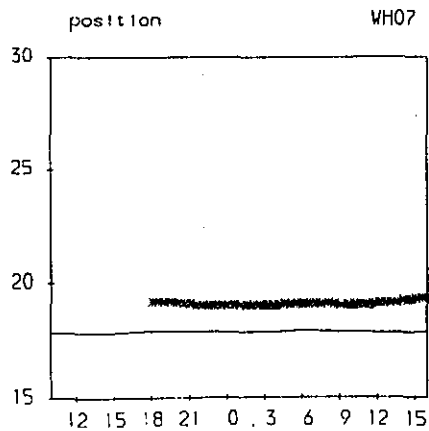
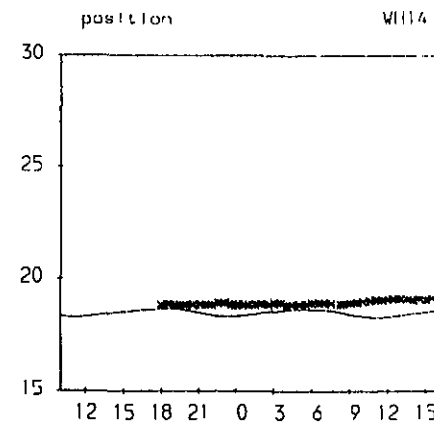
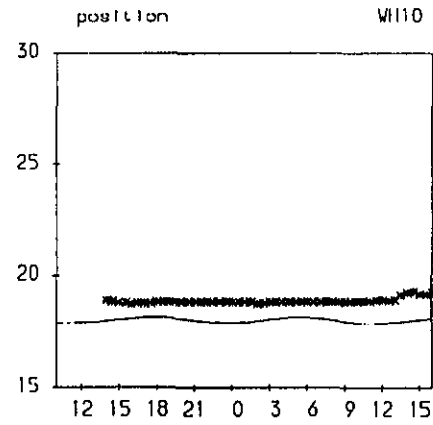
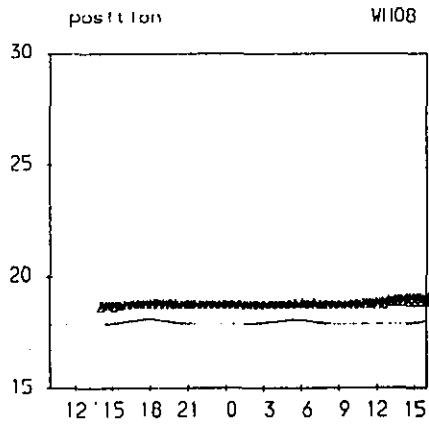


Fig 3

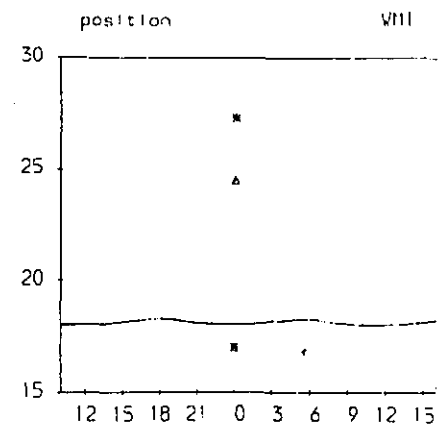
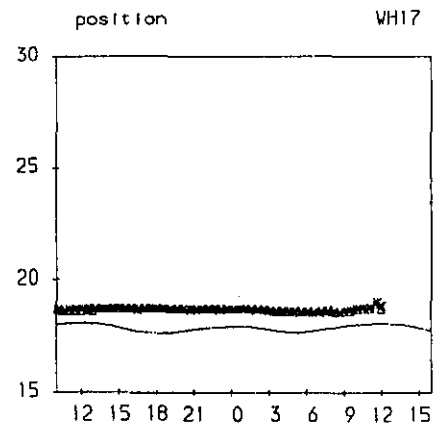
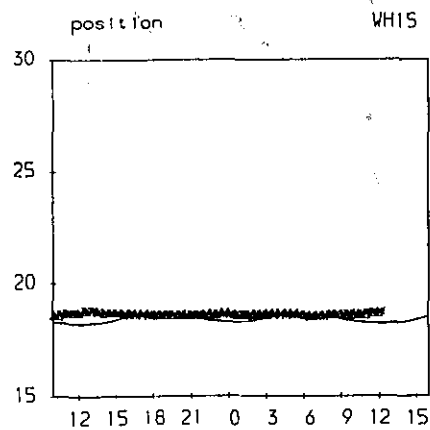
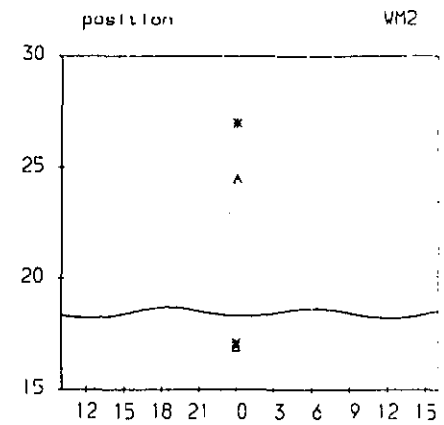
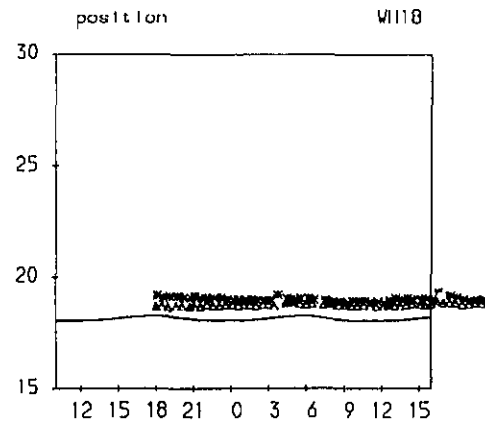
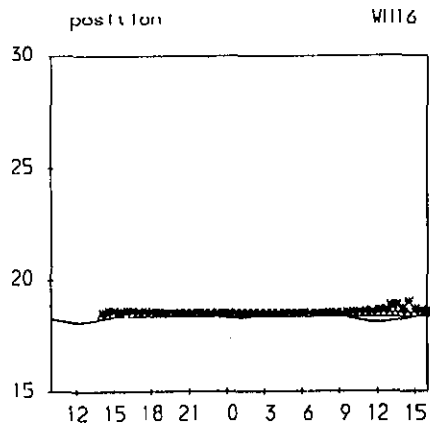
Green Island Dry Neap calibration 12/11/93

Temperature (degrees C) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



FA 3

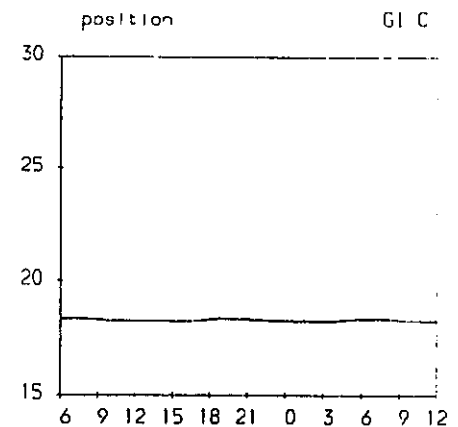
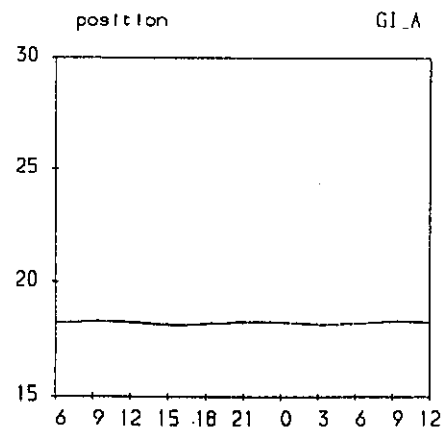
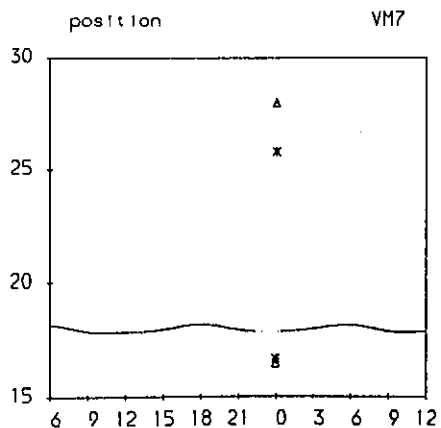
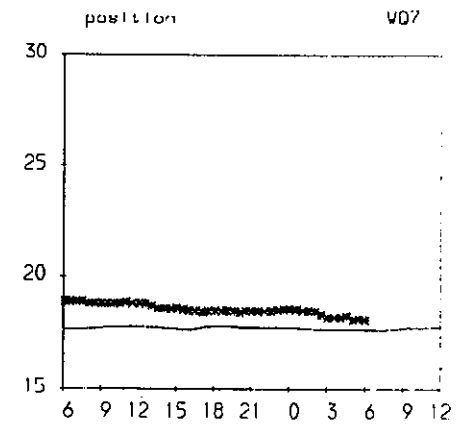
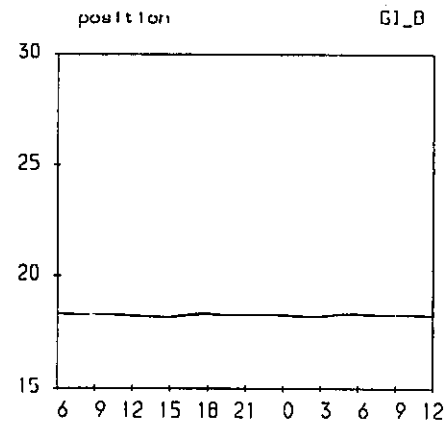
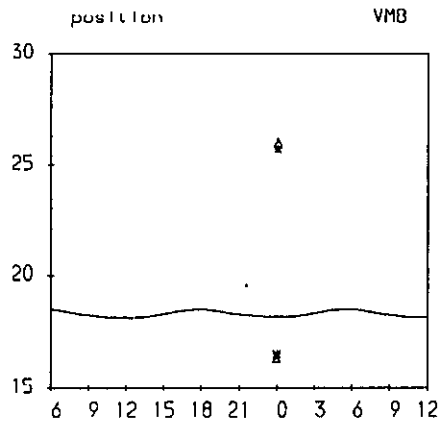
Green Island Dry Neap calibration 12/11/93

temperature (degrees C) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



51.2

Green Island Dry Neap calibration 12/11/93

BOD (mg/l) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer

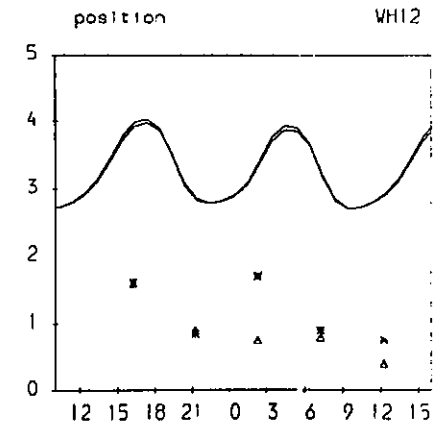
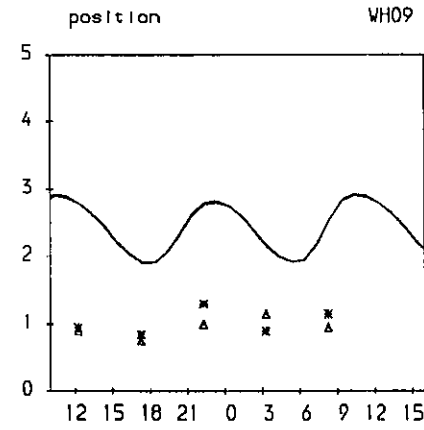
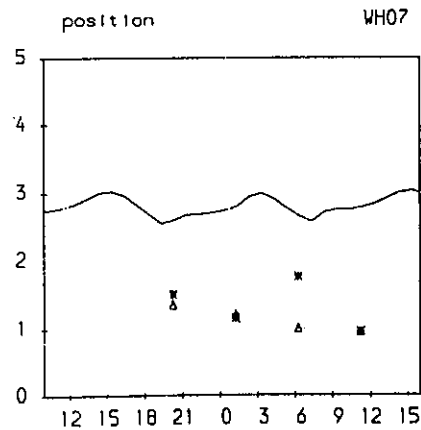
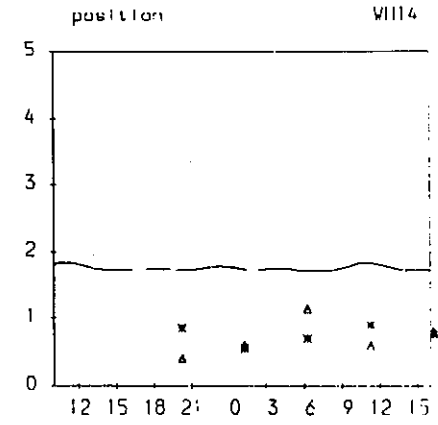
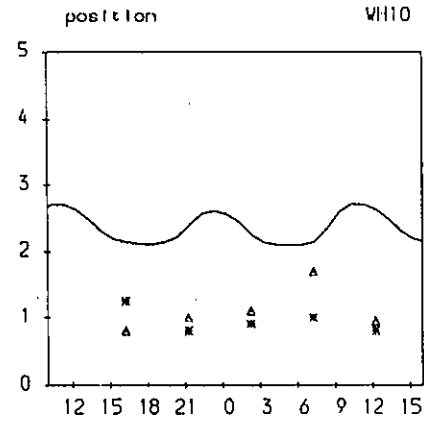
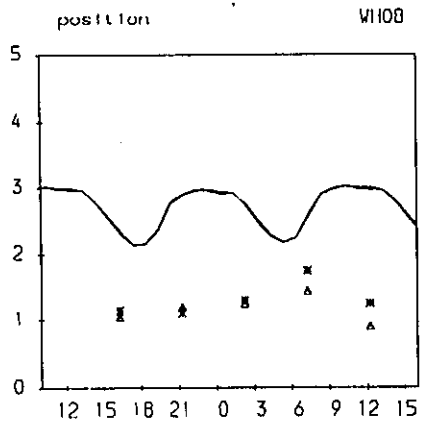


Fig 3

Green Island Dry Neap calibration 12/11/93

BOD (mg/l) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer

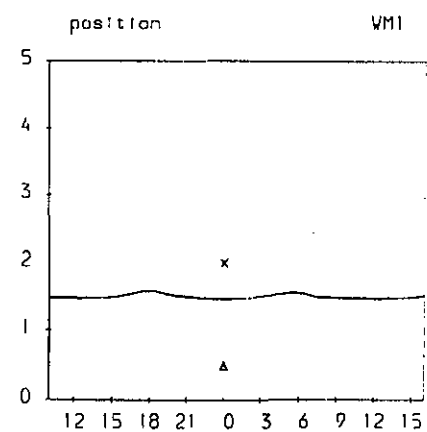
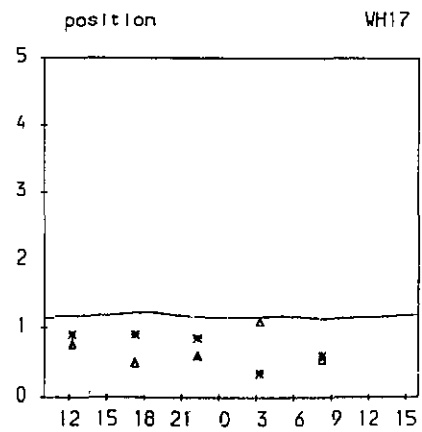
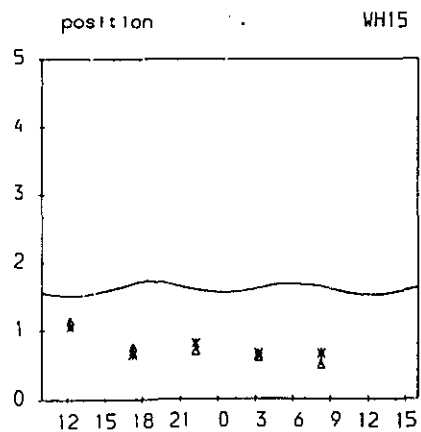
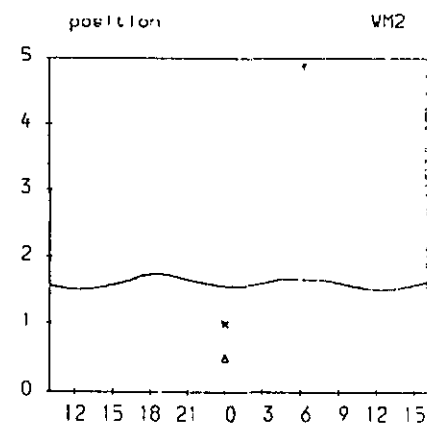
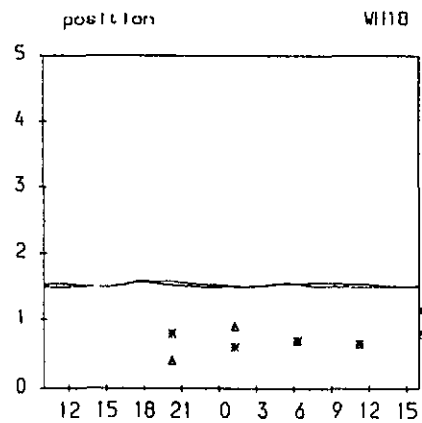
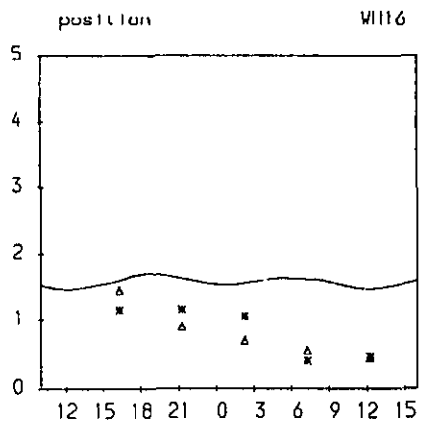


Fig 3

Green Island Dry Neap calibration 12/11/93

BOU (mg/l) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer

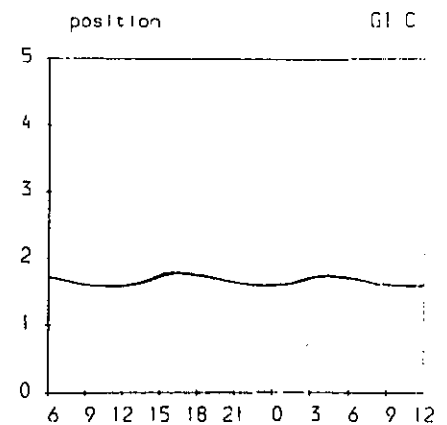
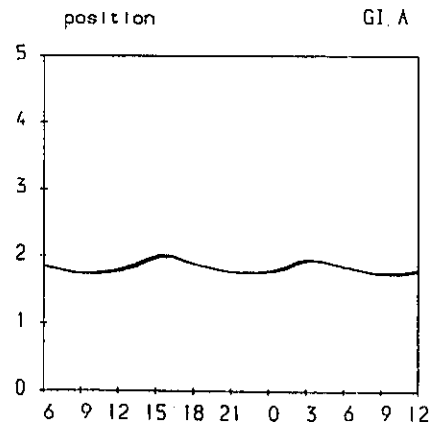
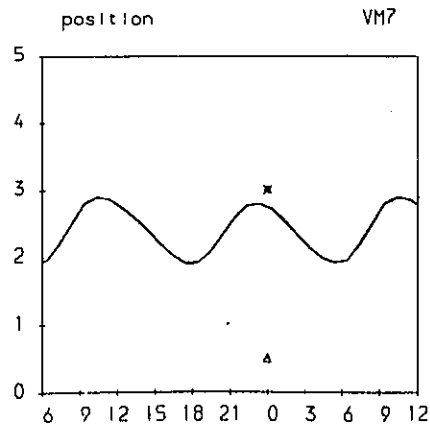
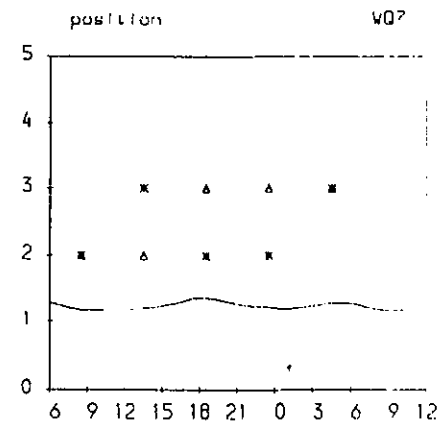
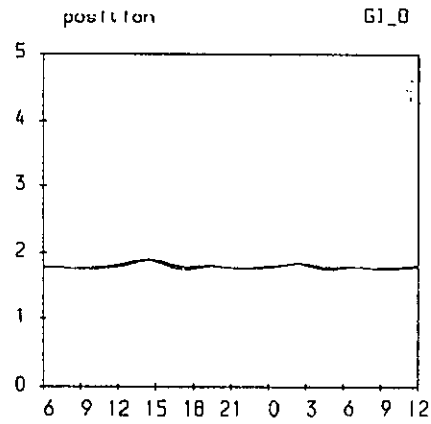
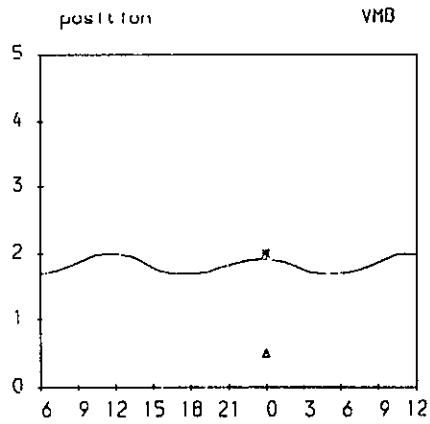


Fig 3



Green Island Dry Neap calibration 12/11/93

Ammoniacal Nitrogen (mg N/L) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer

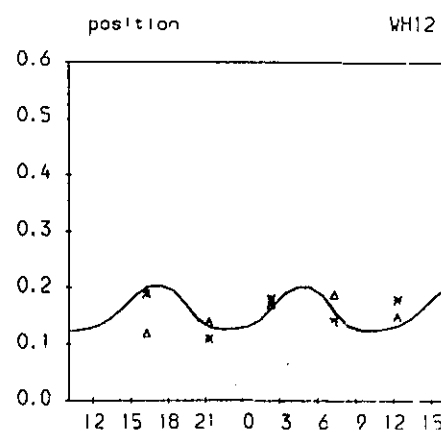
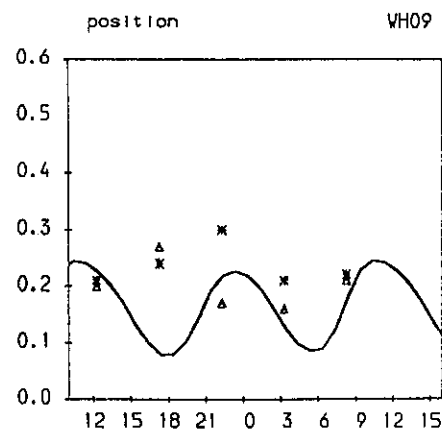
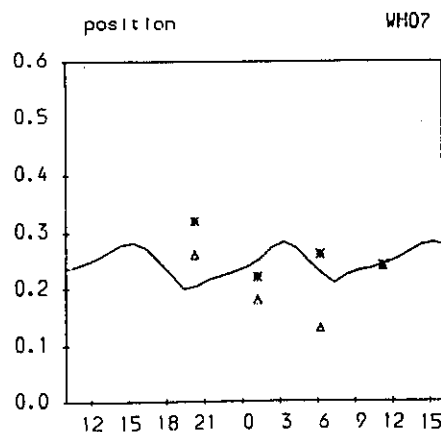
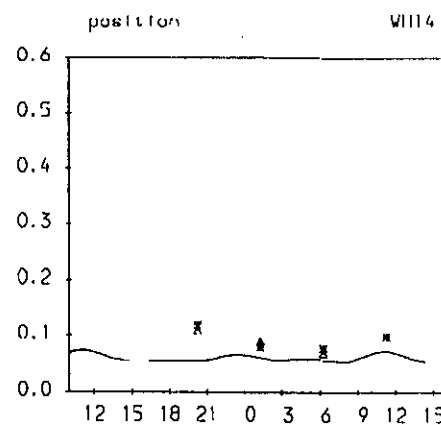
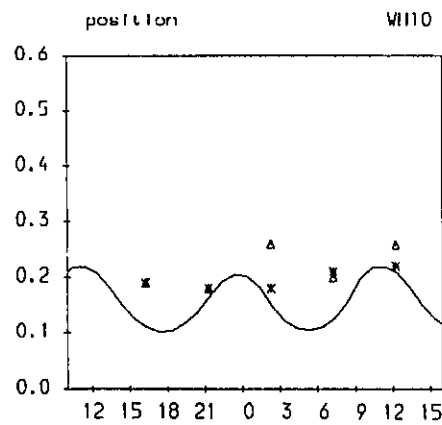
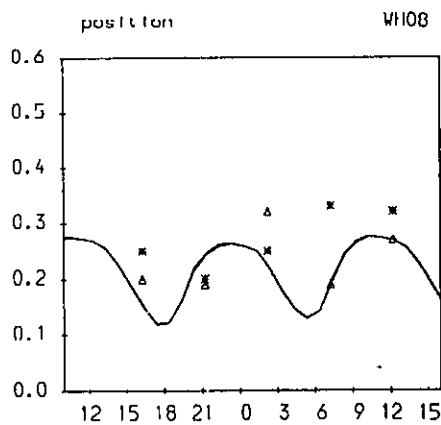


Fig 2

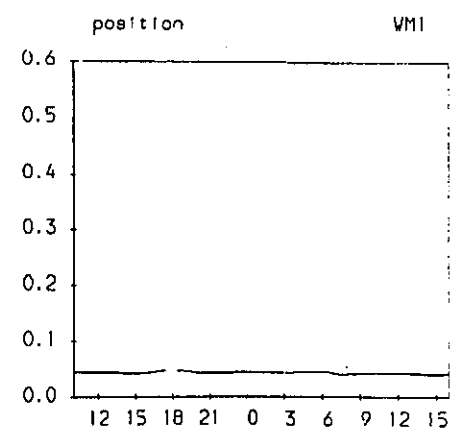
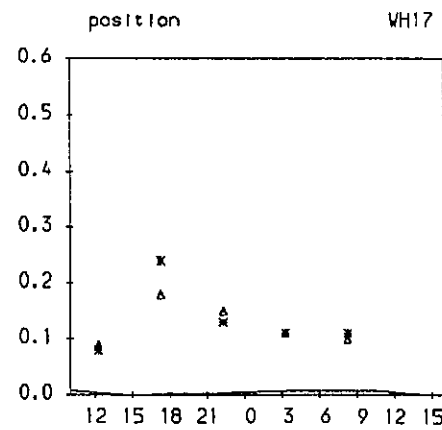
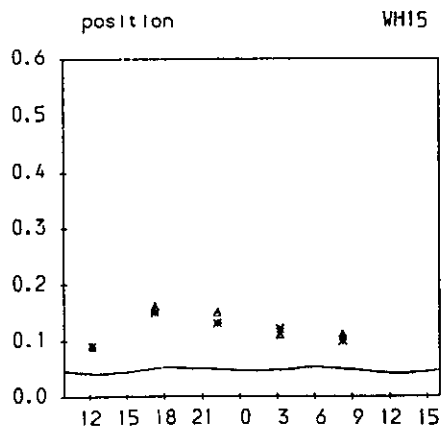
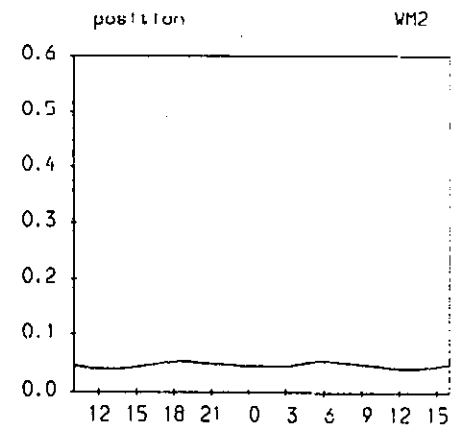
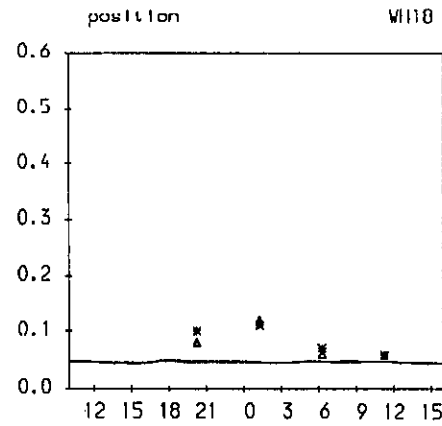
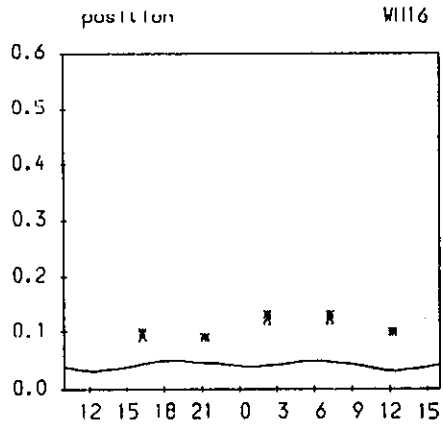
Green Island Dry Neap calibration 12/11/93

Ammoniacal Nitrogen (mg N/l) against me

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



Green Island Dry Neap calibration 12/11/93

Ammoniacal Nitrogen (mg N/L) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer

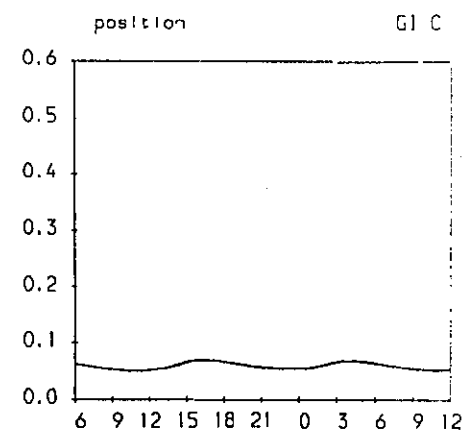
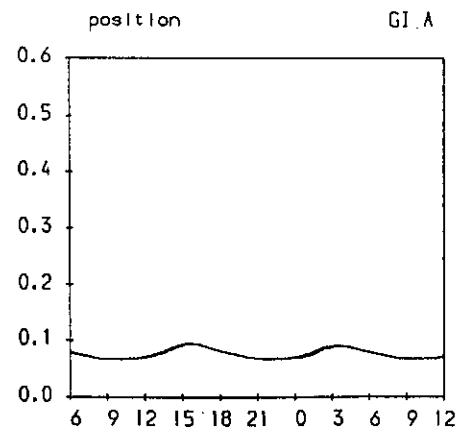
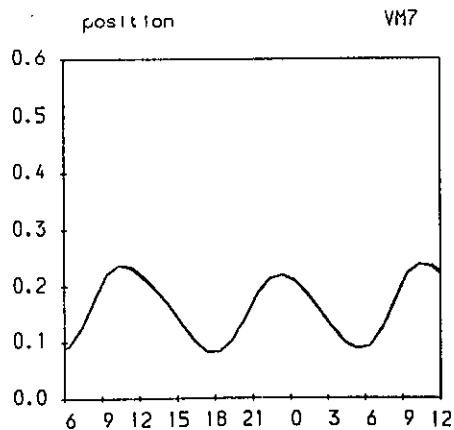
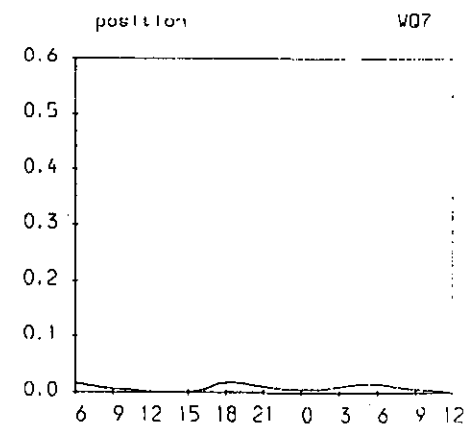
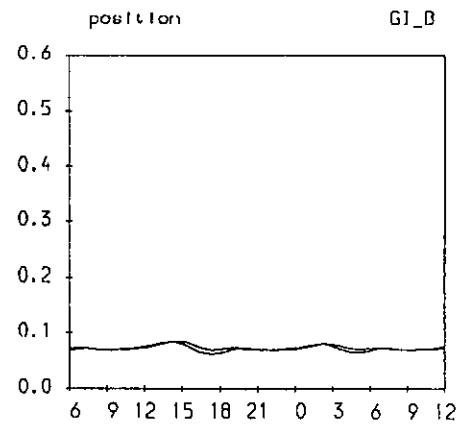
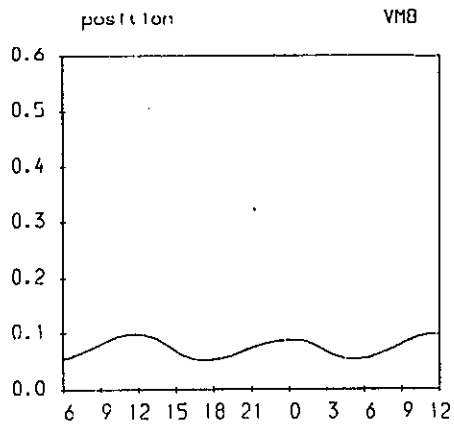


Fig 2

Green Island Dry Neap calibration 12/11/93

Oxidised Nitrogen (mg N/l) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer

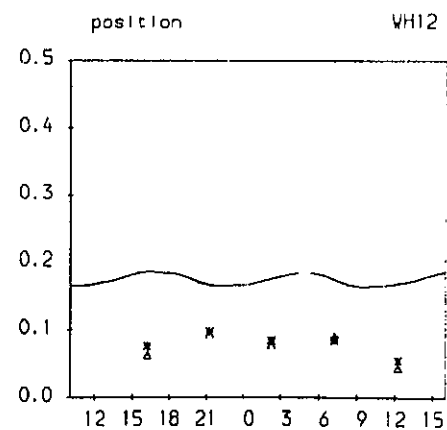
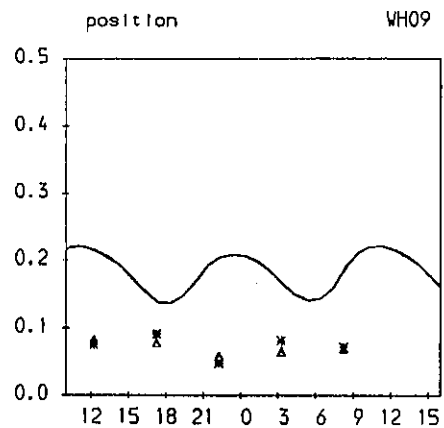
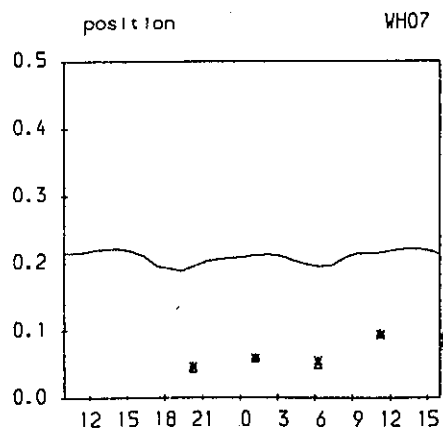
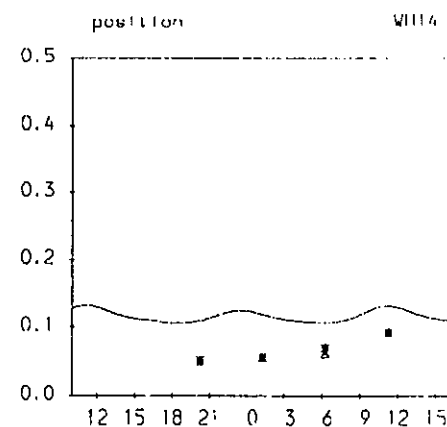
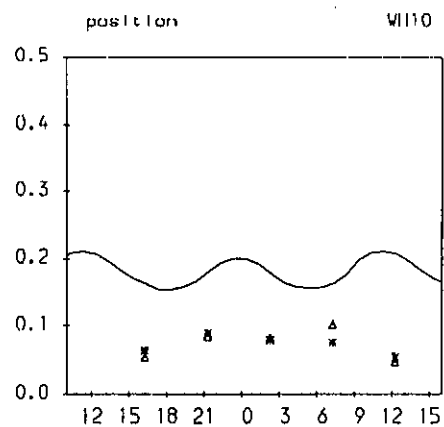
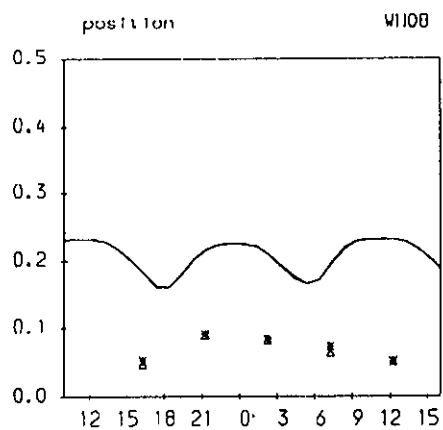


Fig 3

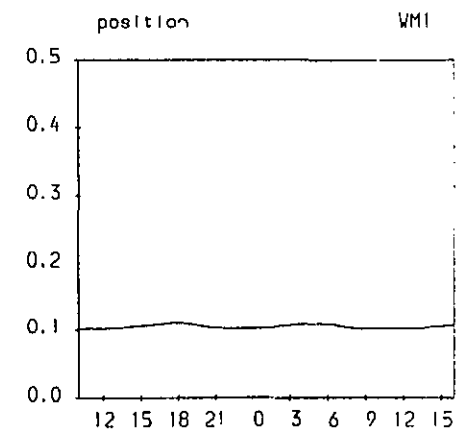
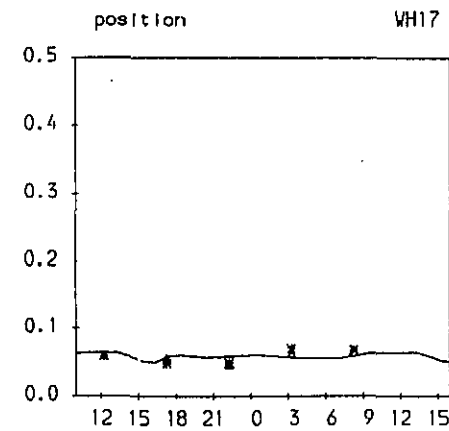
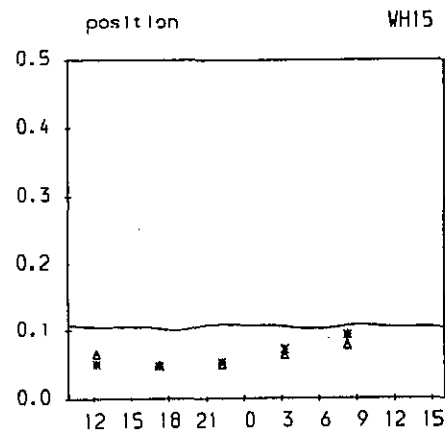
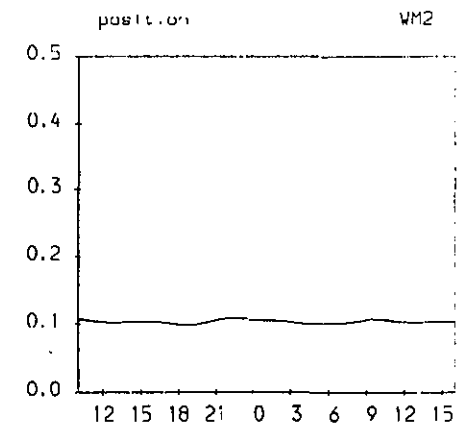
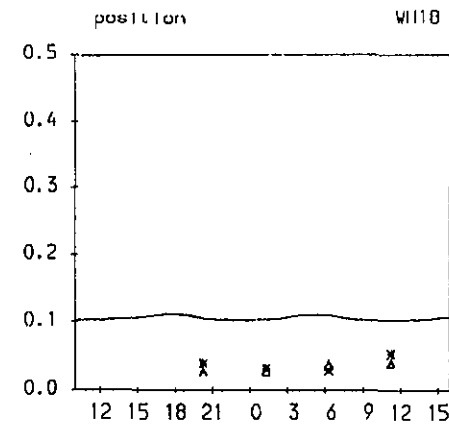
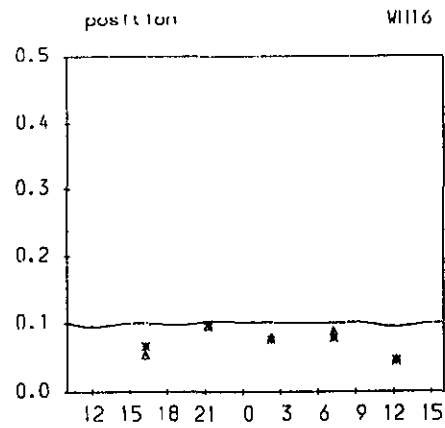
Green Island Dry Neap calibration 12/11/93

Oxidised Nitrogen (mg N/l) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



2 1/2

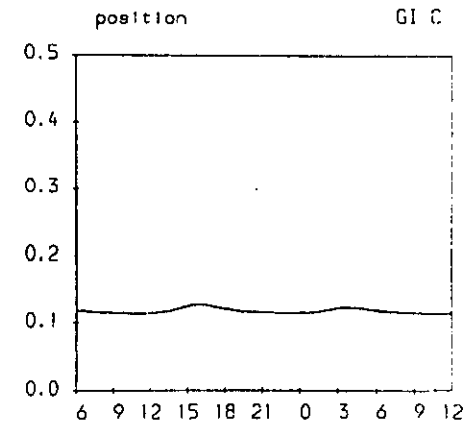
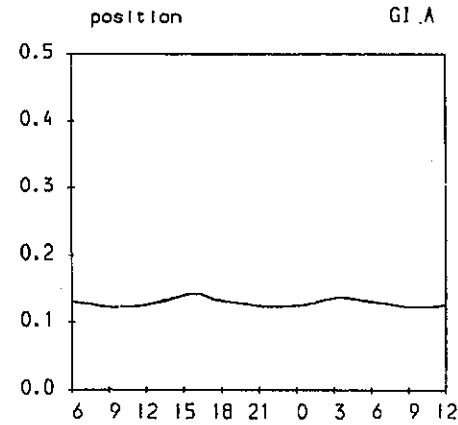
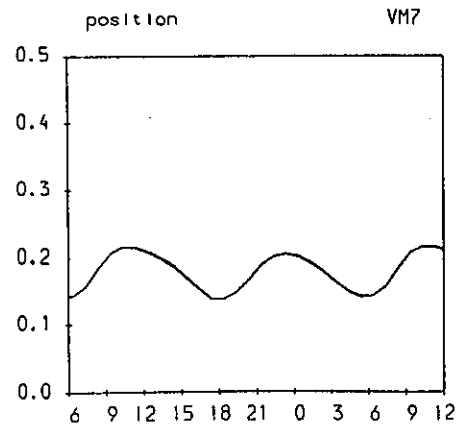
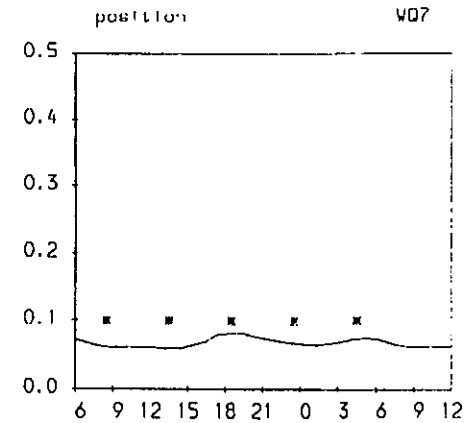
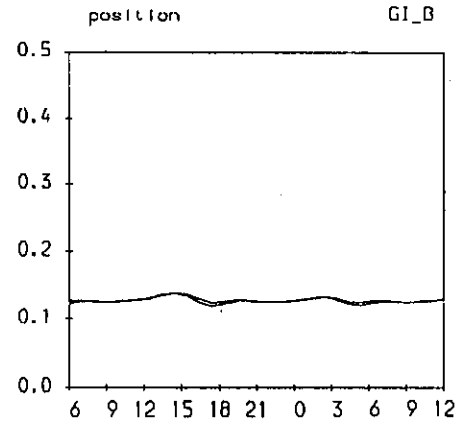
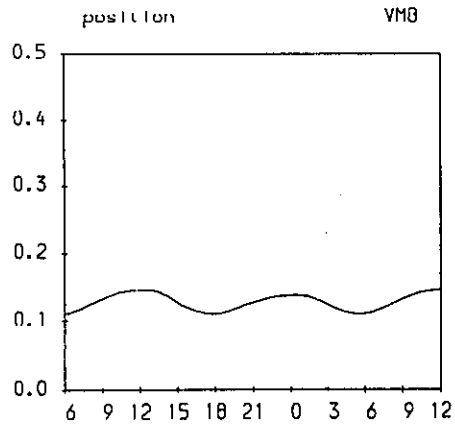
Green Island Dry Neap calibration 12/11/93

Oxidised Nitrogen (mg N/l) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



2 7/4

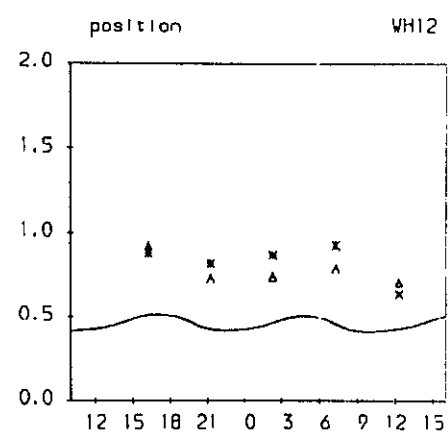
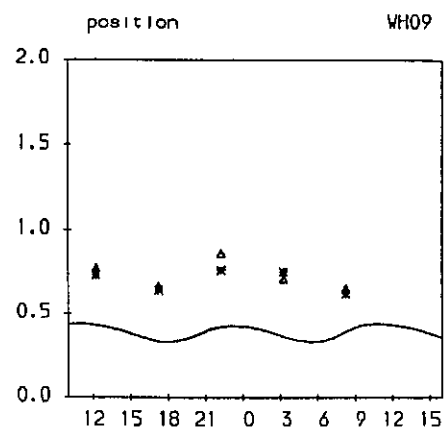
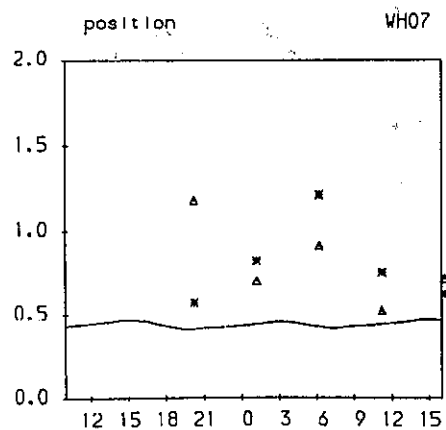
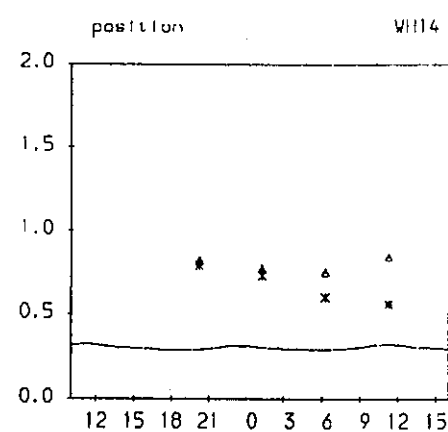
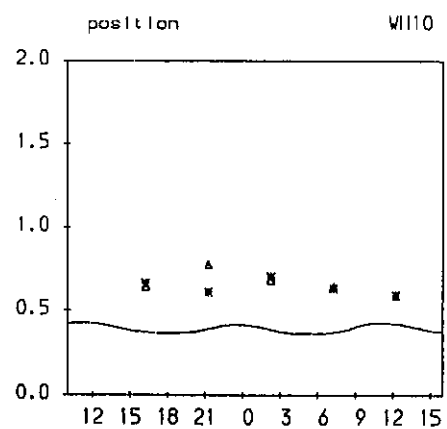
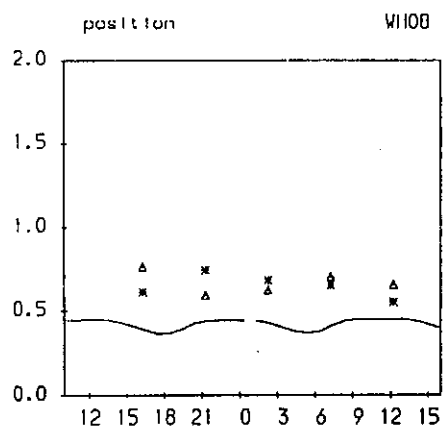
Green Island Dry Neap calibration 12/11/93

Organic Nitrogen (mg N/L) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



FA 2

Green Island Dry Neap calibration 12/11/93

Organic Nitrogen (mg N/U) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer

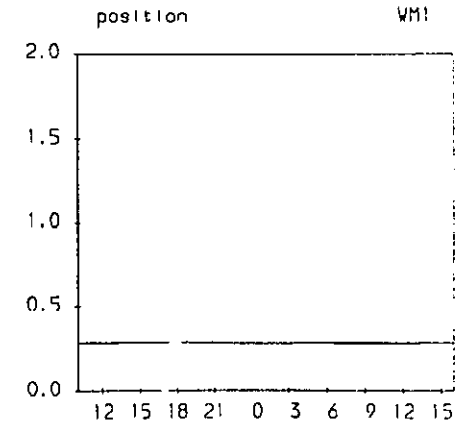
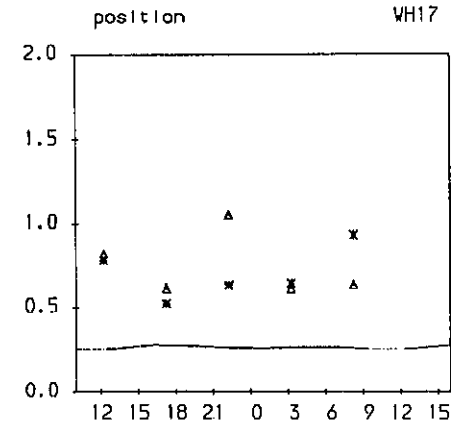
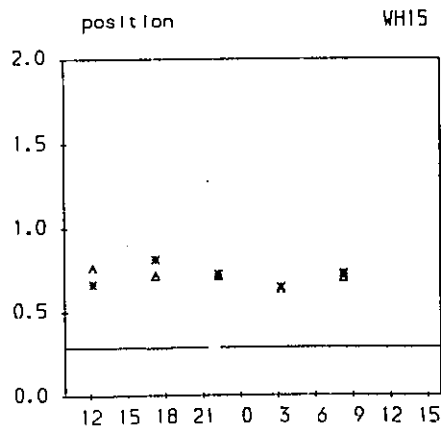
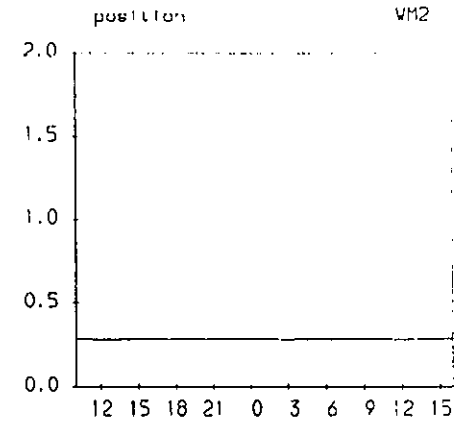
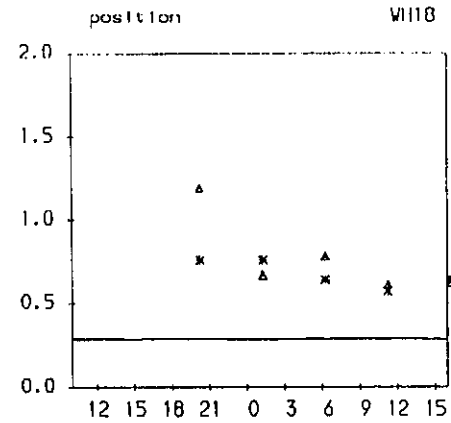
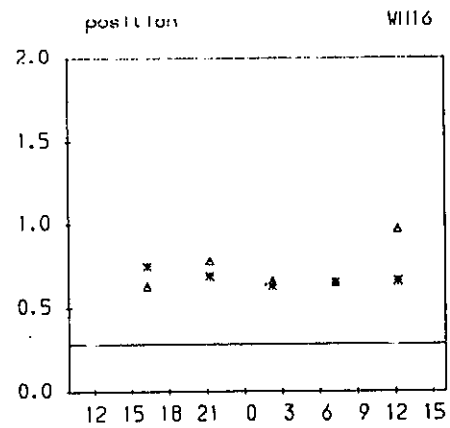


Fig 3

Green Island Dry Neap calibration 12/11/93

Organic Nitrogen (mg N/l) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer

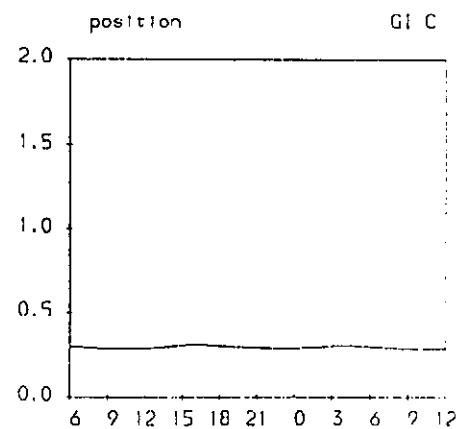
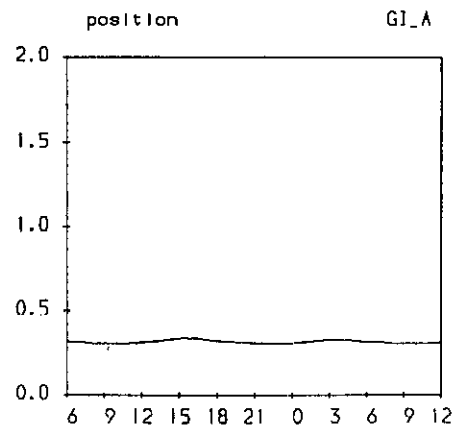
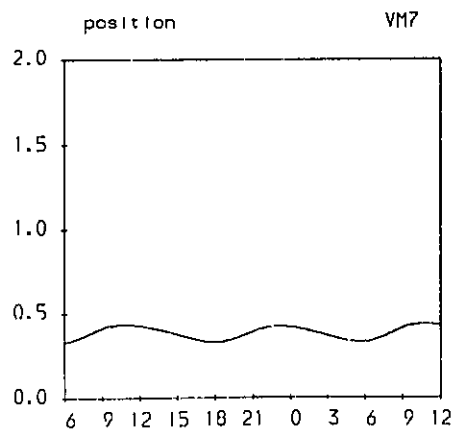
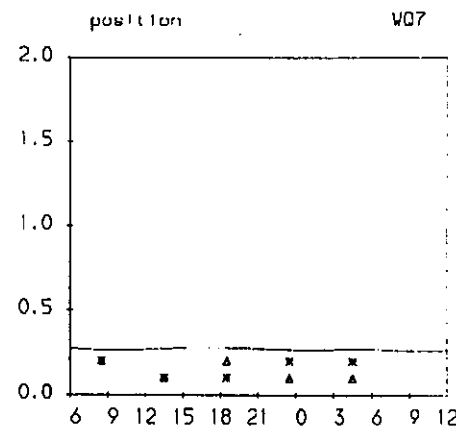
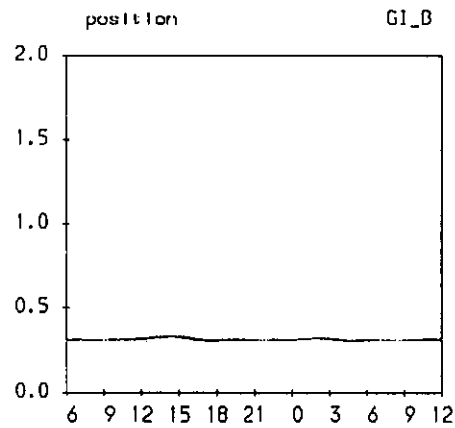
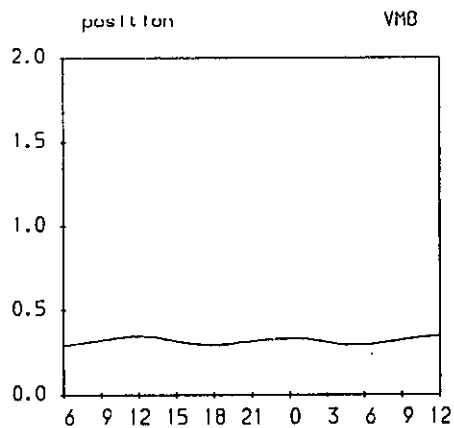


Fig 3

Green Island Dry Neap calibration 12/11/93

Chlorophyll (ug/l) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer

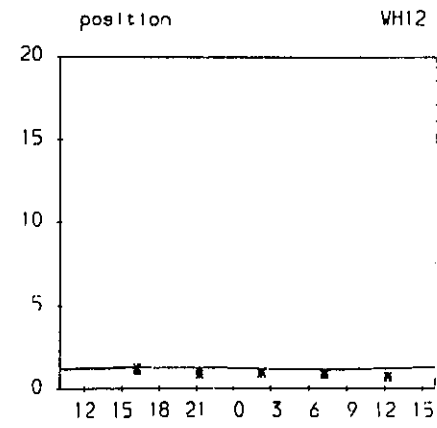
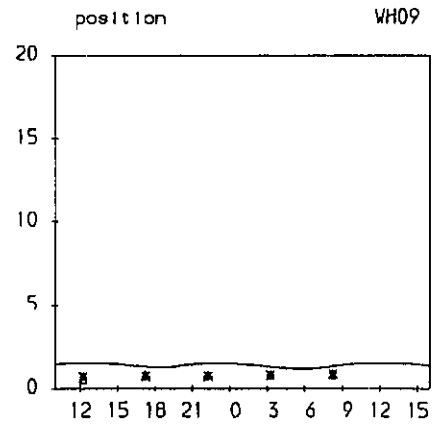
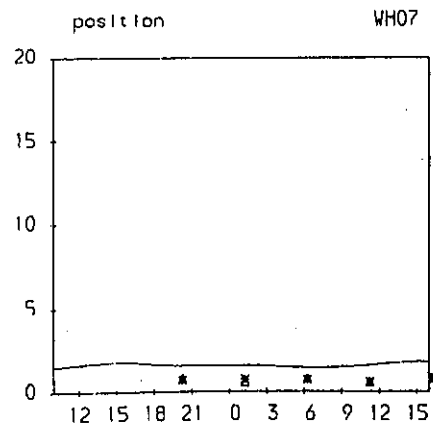
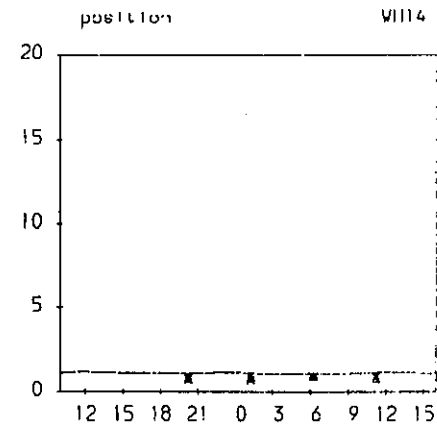
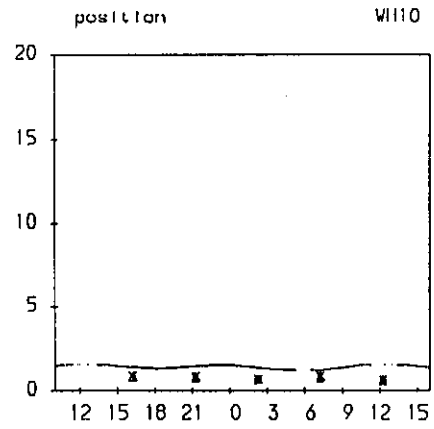
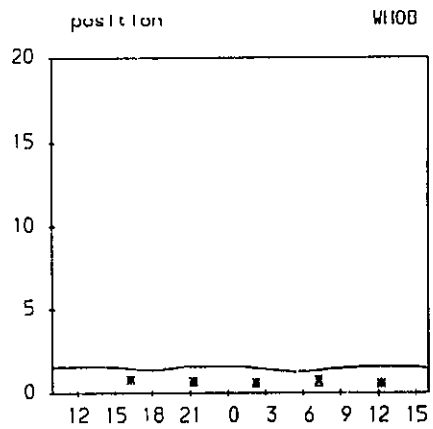


Fig 3

Green Island Dry Neap calibration 12/11/93

Chlorophyll (ug/l) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer

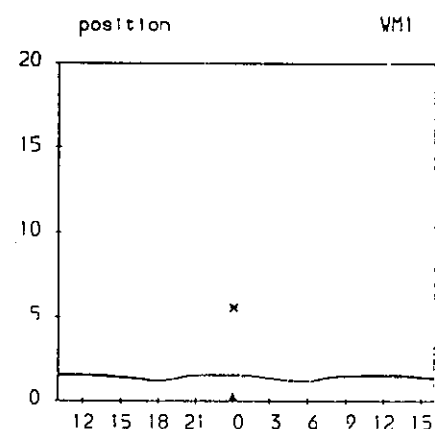
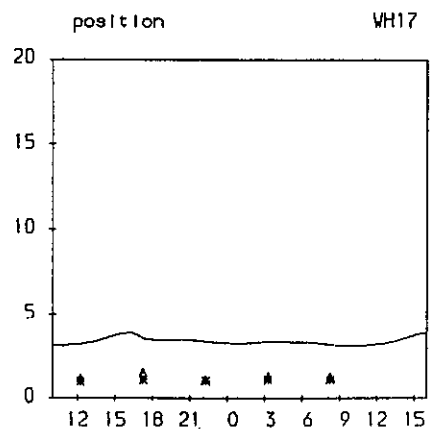
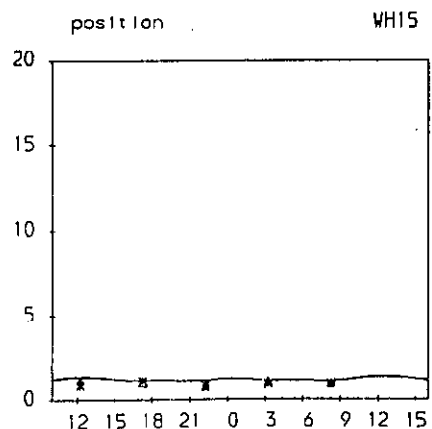
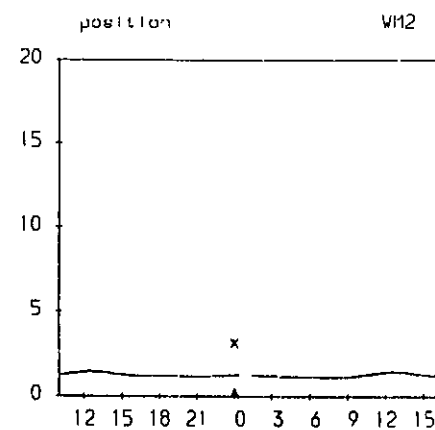
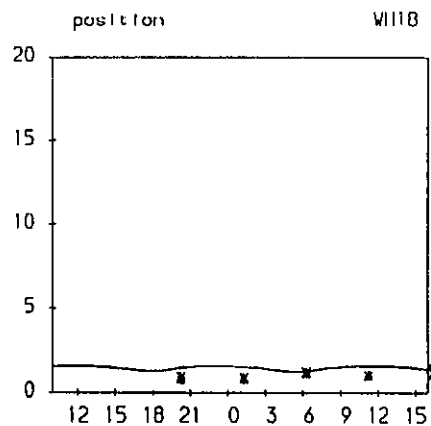
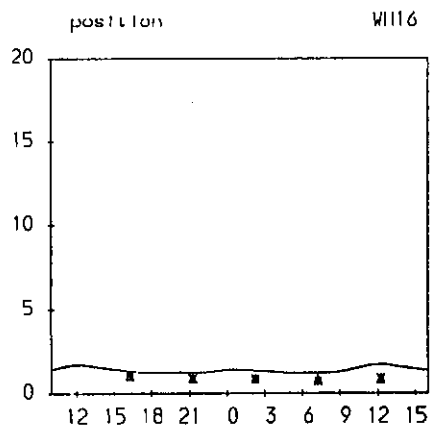


Fig. 2

Green Island Dry Neap calibration 12/11/93

Chlorophyll (ug/l) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer

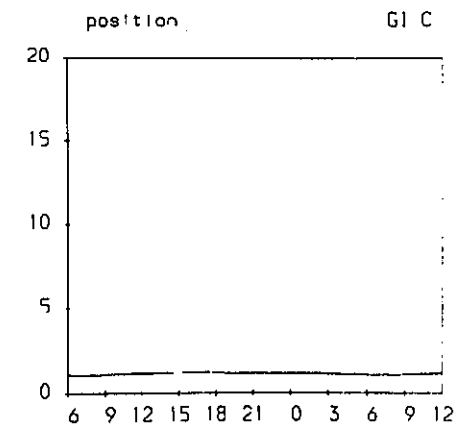
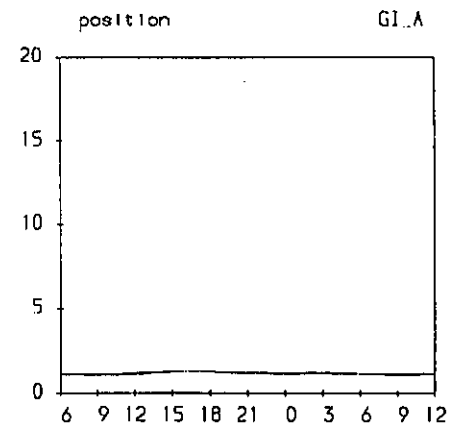
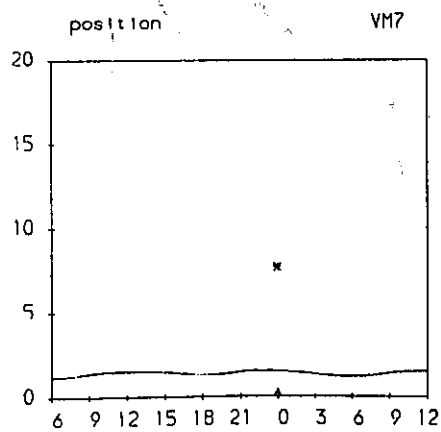
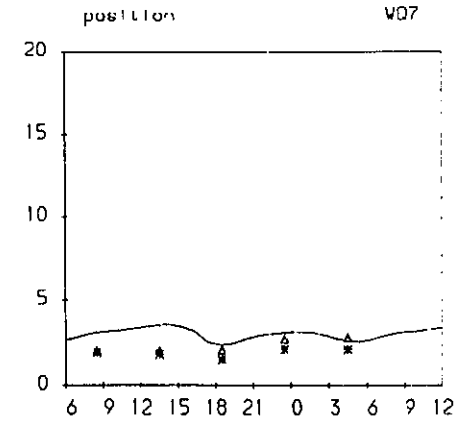
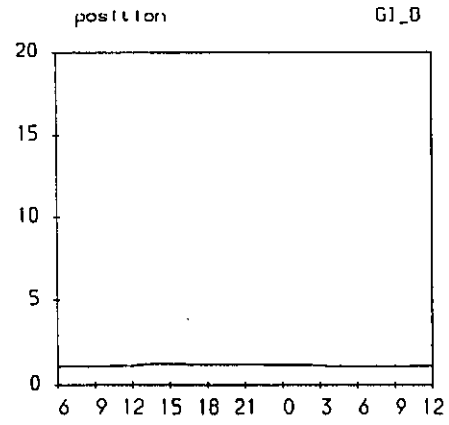
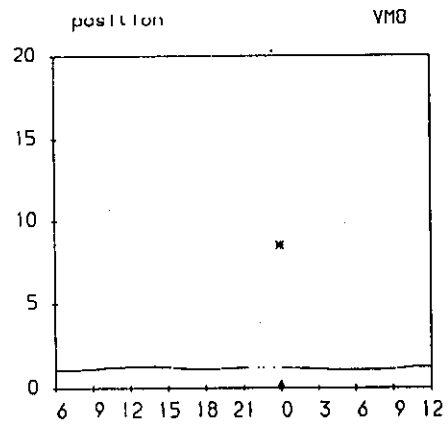


Fig 30

Green Island Dry Neap calibration 12/11/93

Suspended Solids (mg/l) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer

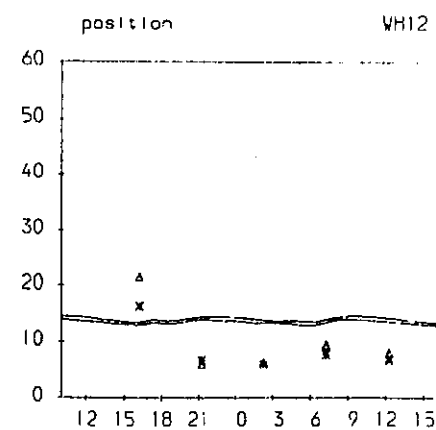
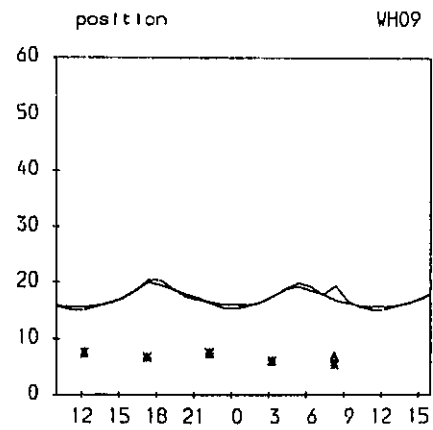
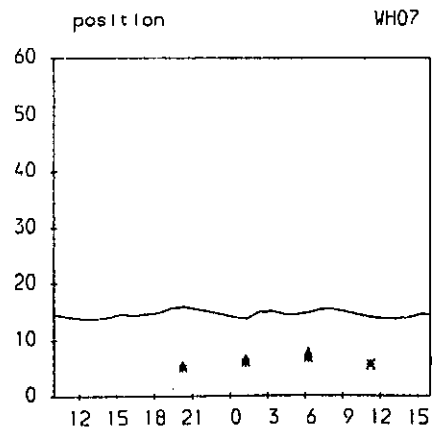
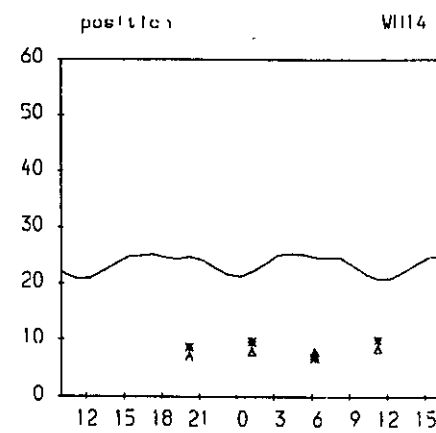
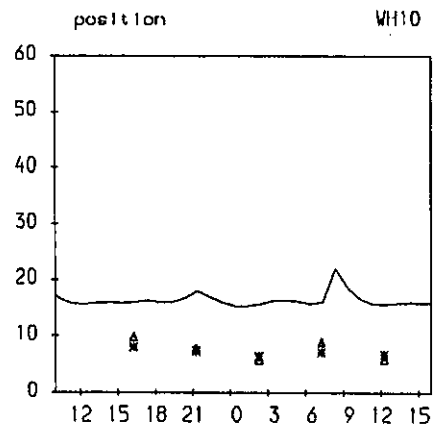
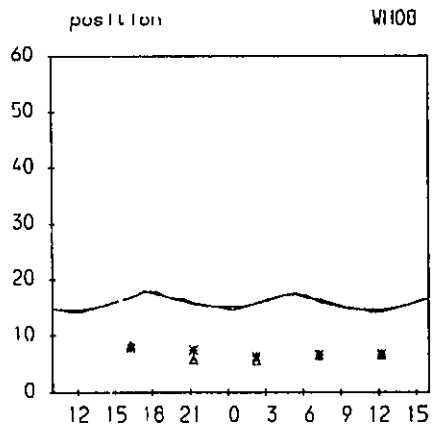


Fig 2

Green Island Dry Neap calibration 12/11/93

Suspended Solids (mg/l) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer

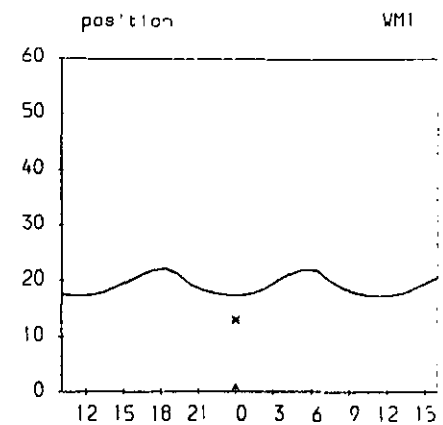
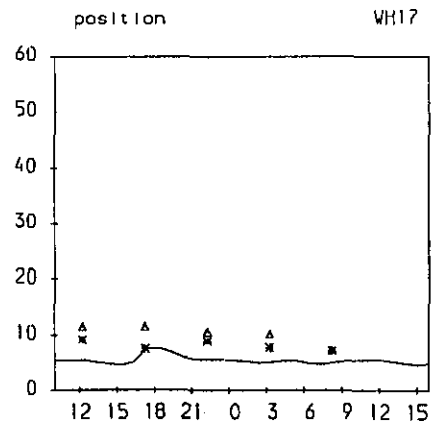
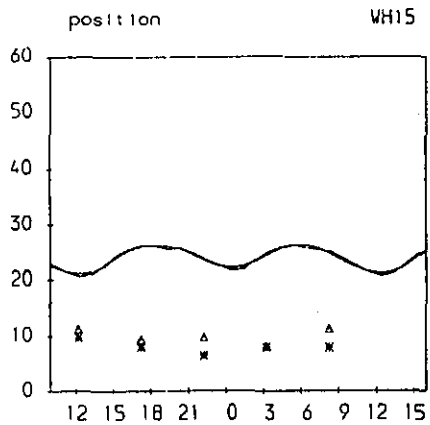
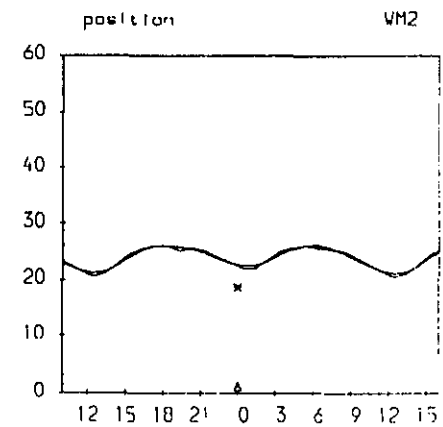
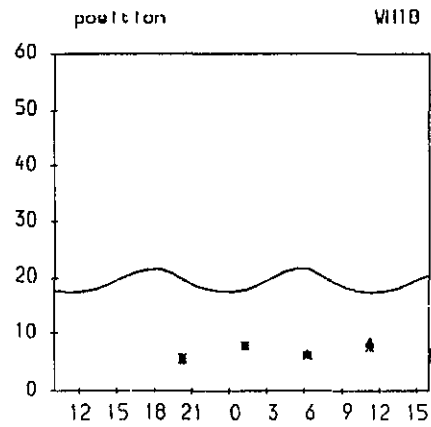
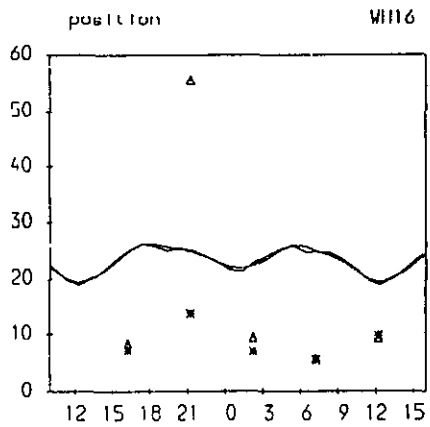


Fig 3

Green Island Dry Neap calibration 12/11/93

Suspended Solids (mg/l) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer

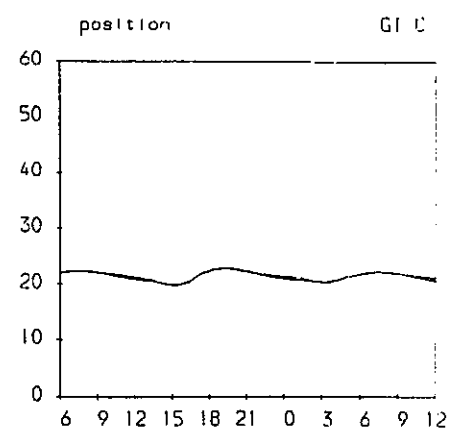
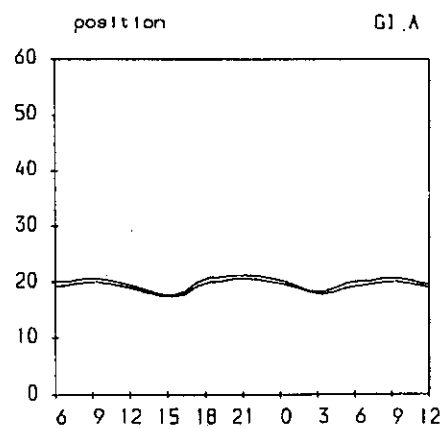
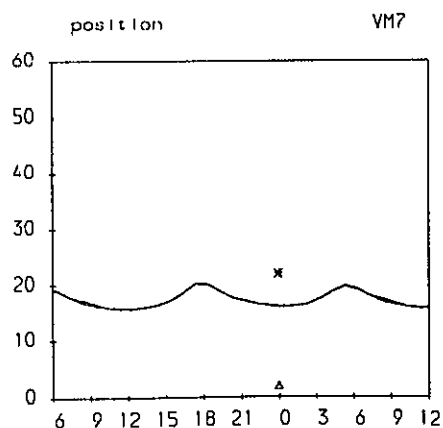
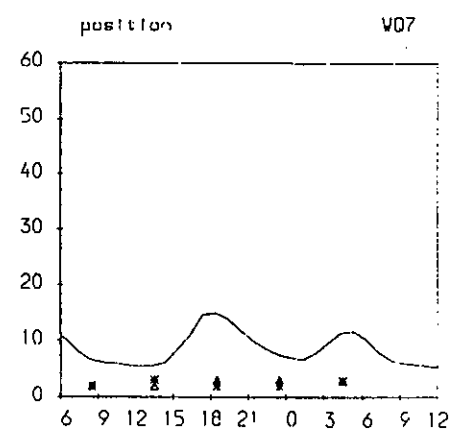
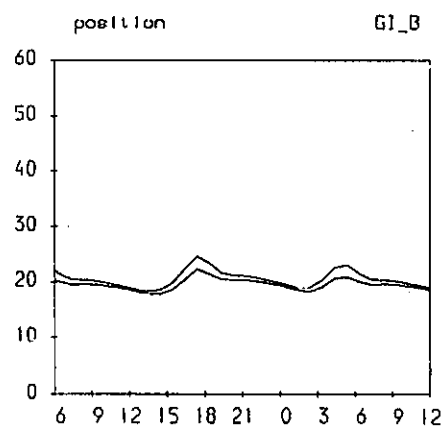
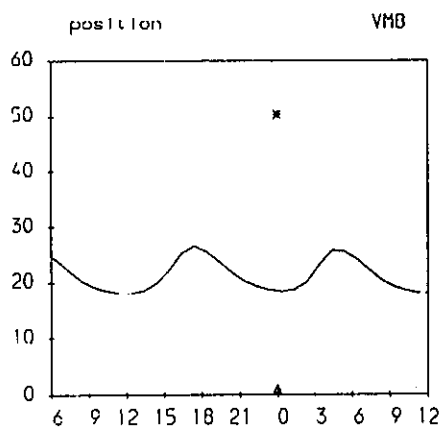


FIG 3

Green Island Dry Neap calibration 12/11/93

E.Coli (no/100ml) against time

(log to base 10 on y-axis)

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer

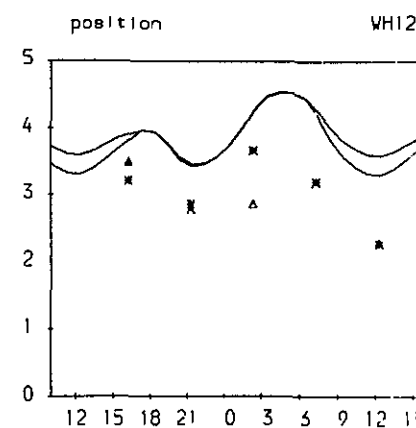
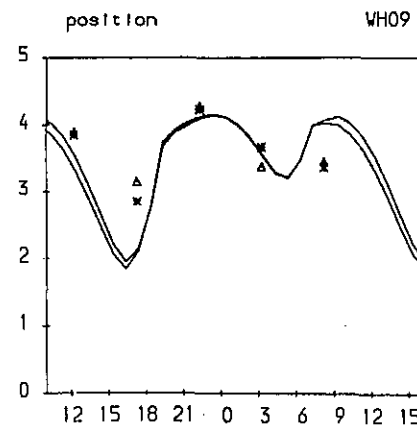
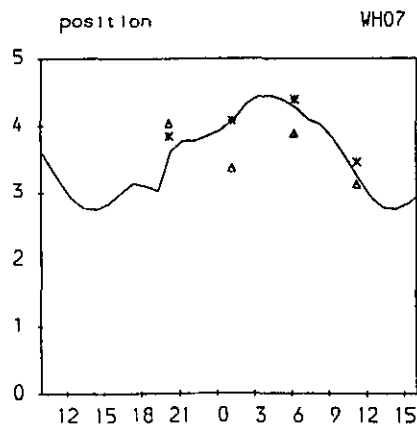
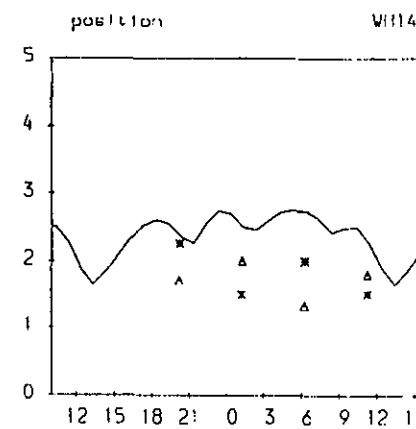
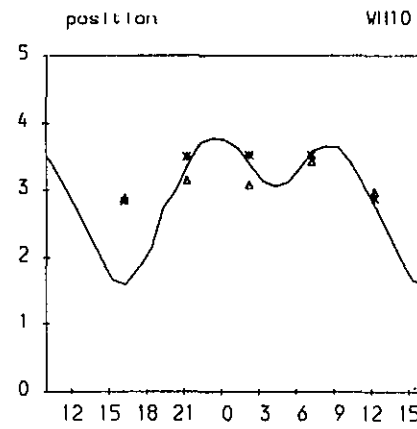
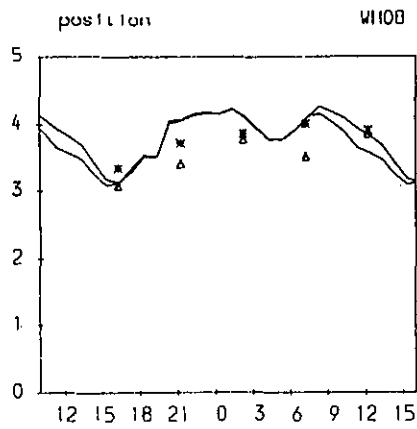


Fig 3

Green Island Dry Neap calibration 12/11/93

E.Coli (no/100ml) against time

(log to base 10 on y-axis)

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer

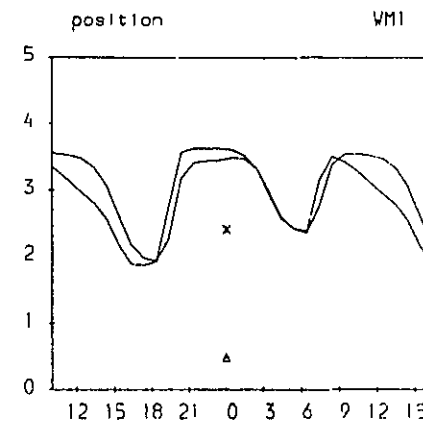
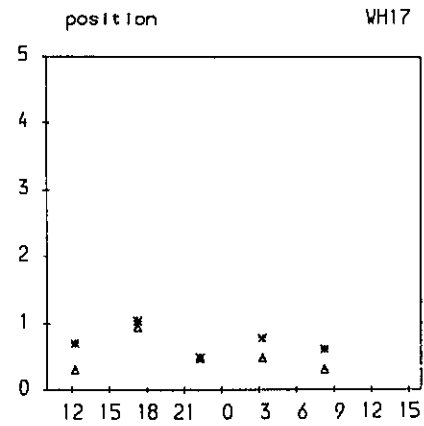
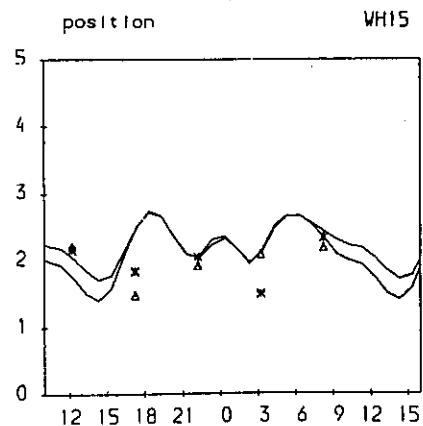
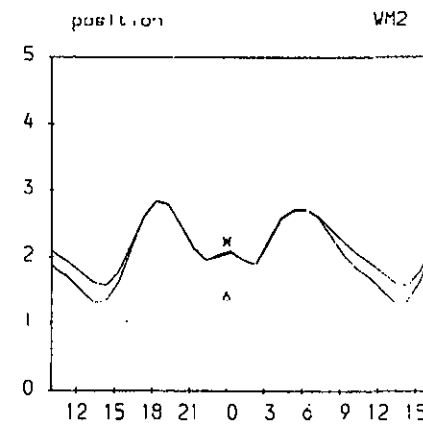
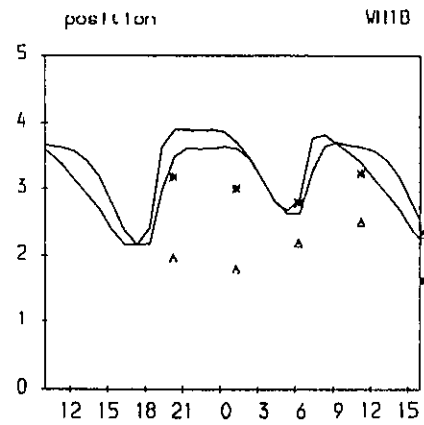
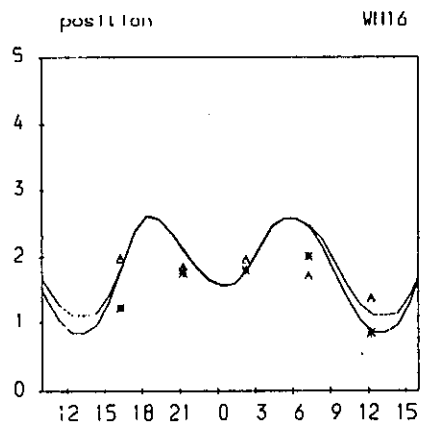


Fig 3

Green Island Dry Neap calibration 12/11/93

E.Coli (no/100ml) against time (log to base 10 on y-axis)

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer

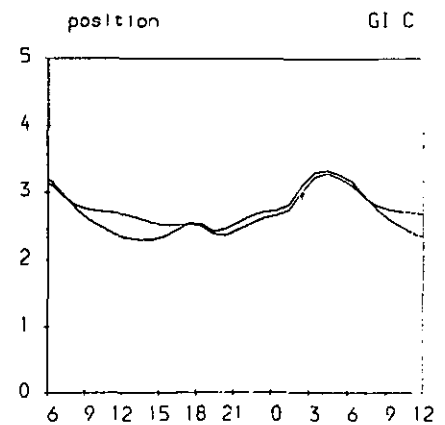
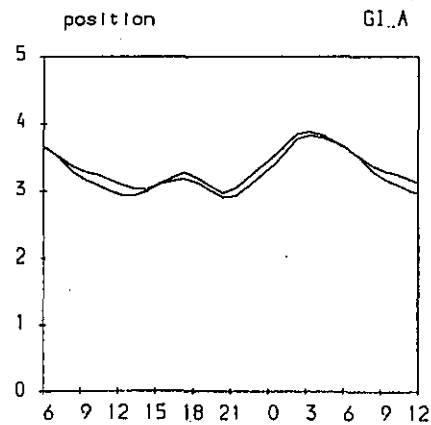
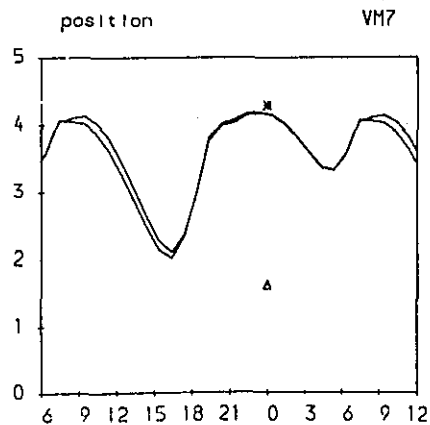
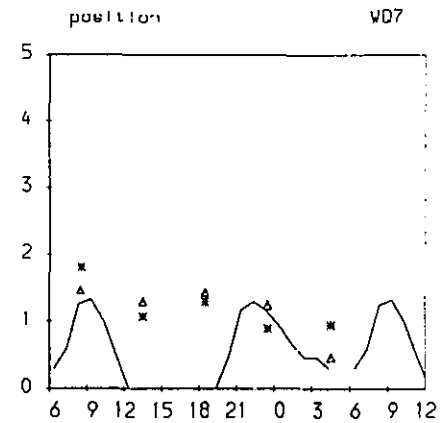
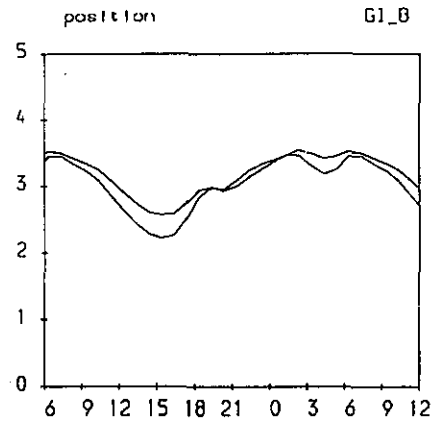
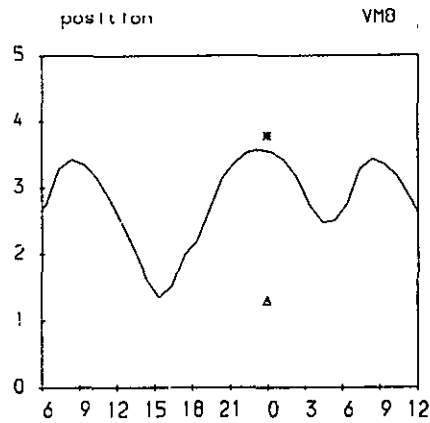


Fig 3

FIGURE 4

CASE 1 (EXISTING) : DRY SEASON SPRING TIDE

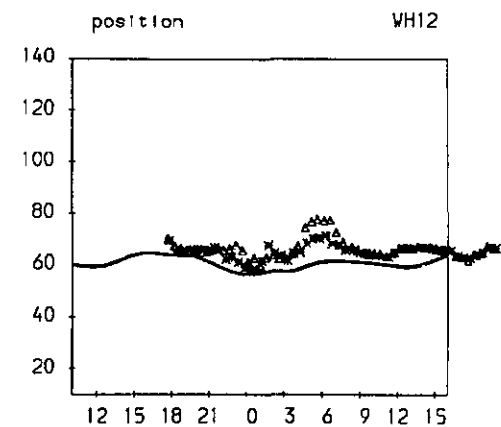
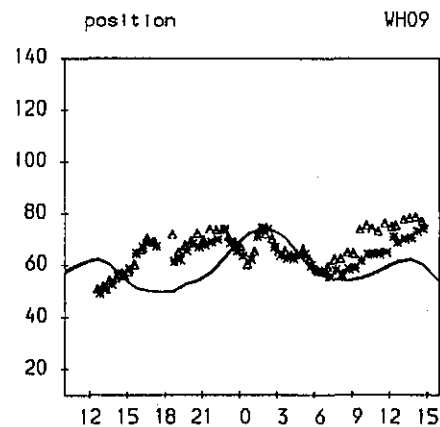
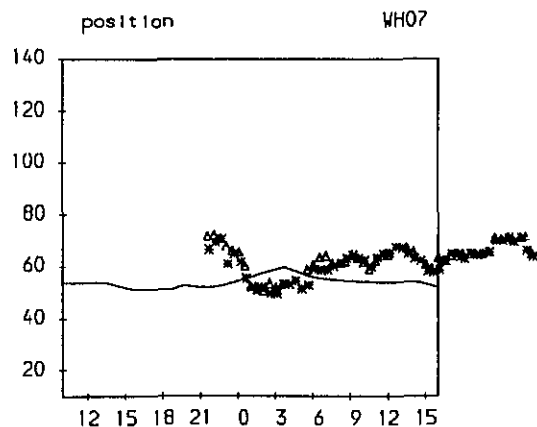
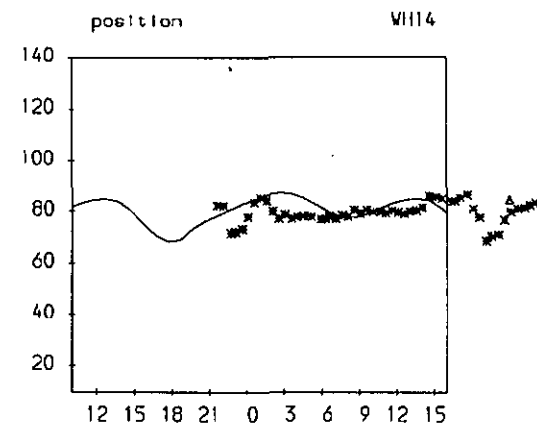
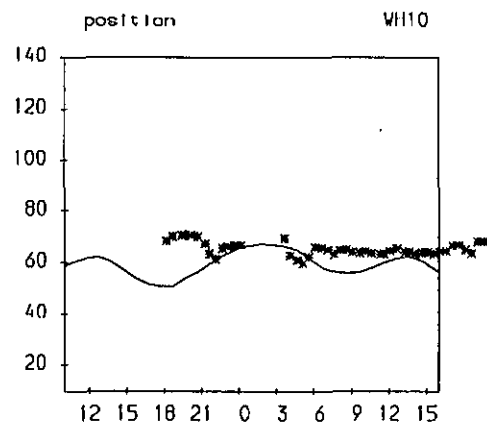
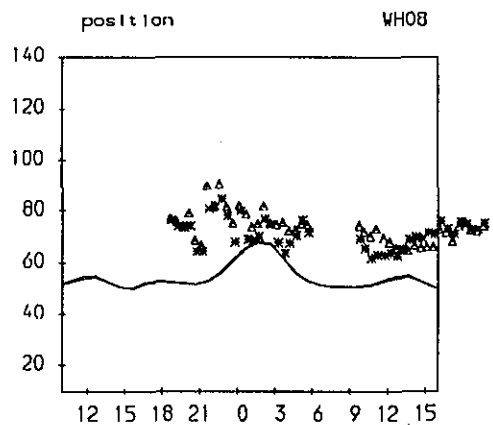
Green Island Dry Spring calibration 28/11/93

Dissolved Oxygen (% saturation) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



7/3
7

Green Island Dry Spring calibration 28/11/93

Dissolved Oxygen (% saturation) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer

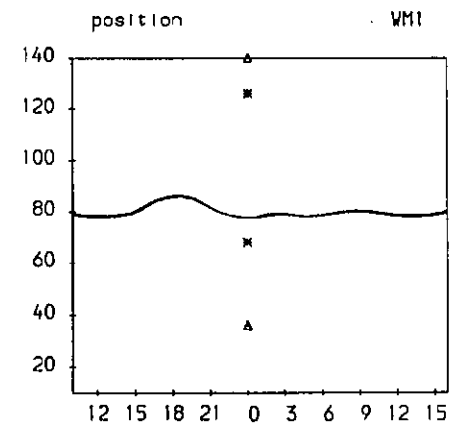
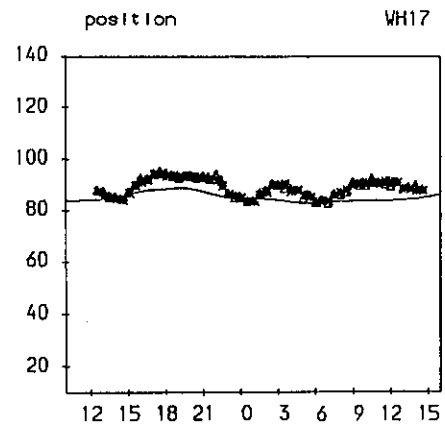
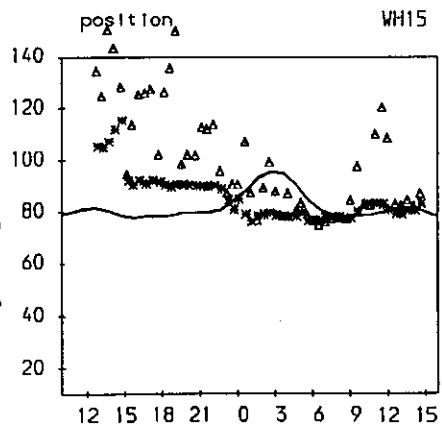
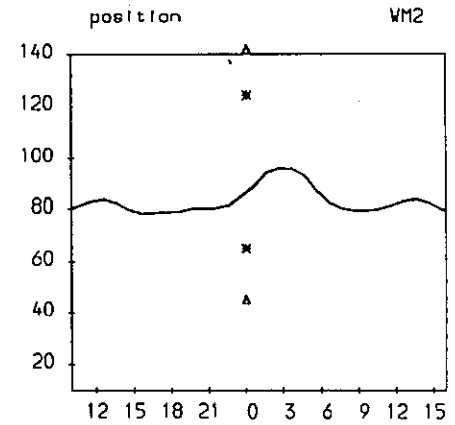
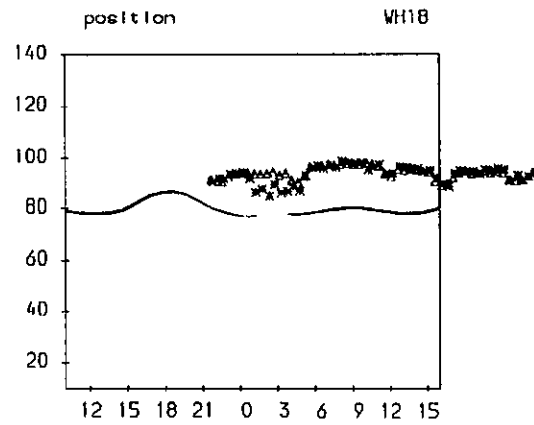
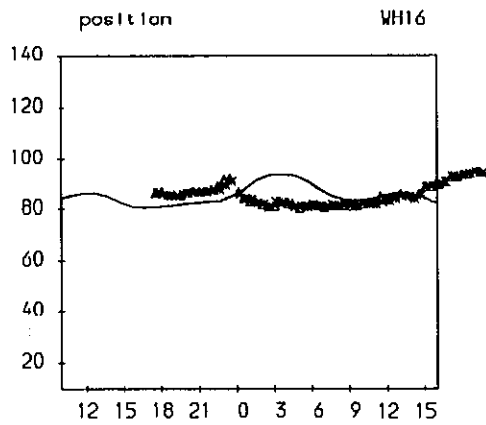


Fig 4

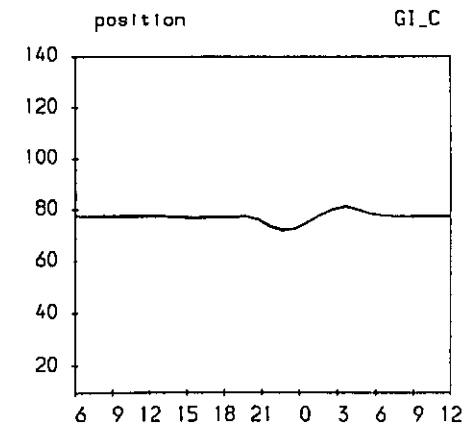
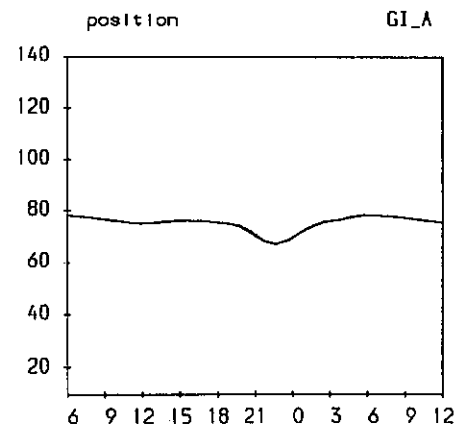
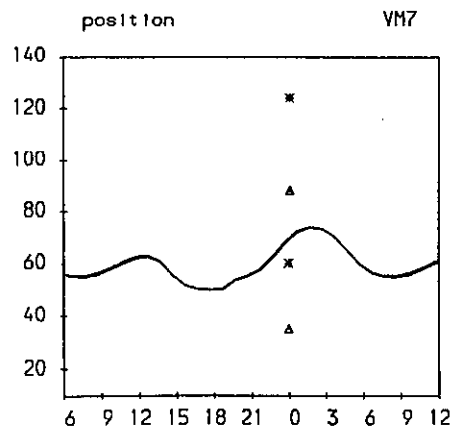
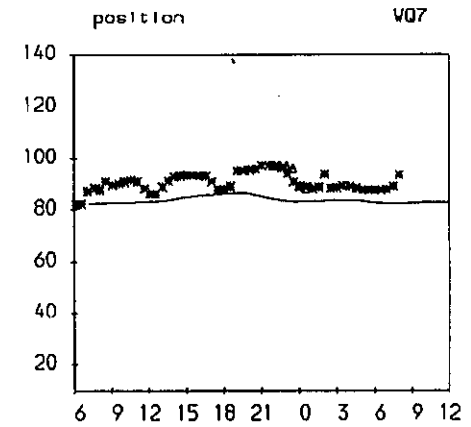
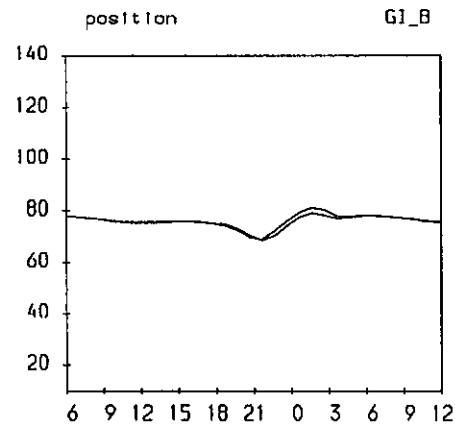
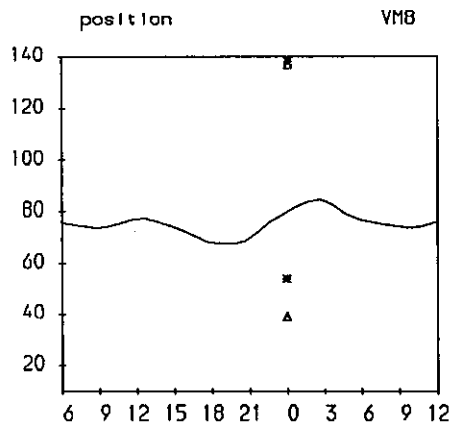
Green Island Dry Spring calibration 28/11/93

Dissolved Oxygen (% saturation) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



fn 4

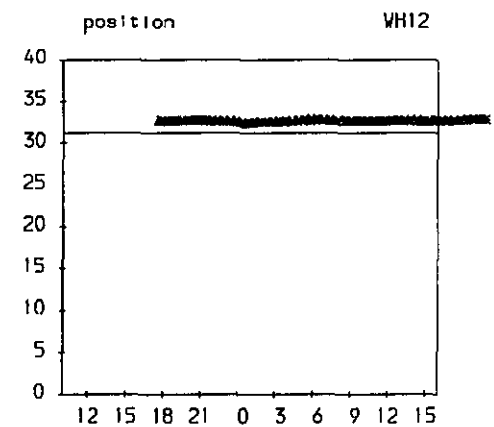
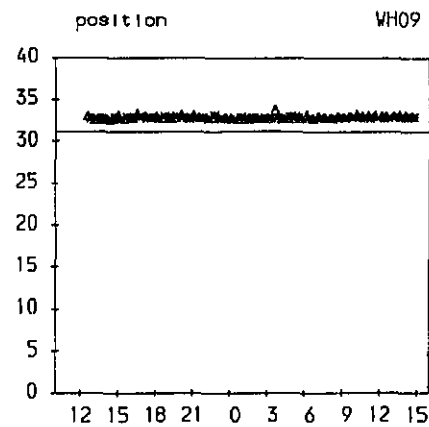
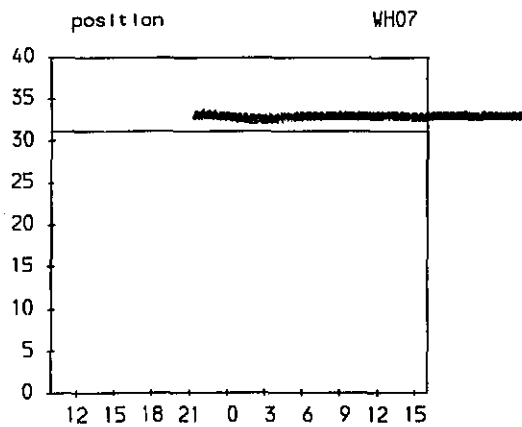
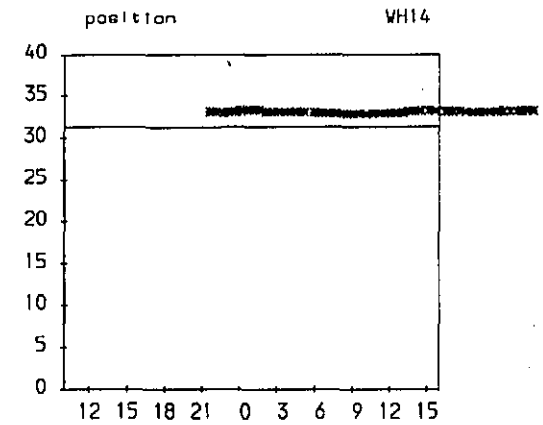
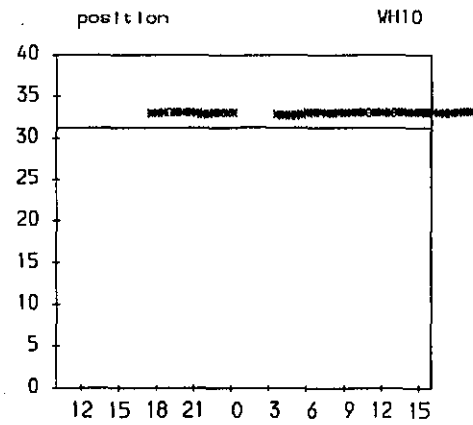
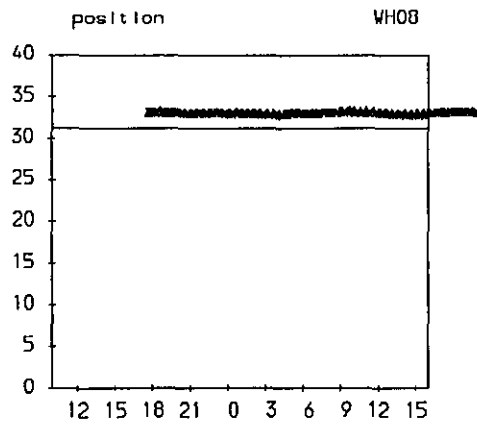
Green Island Dry Spring calibration 28/11/93

Salinity (g/kg) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



11 74

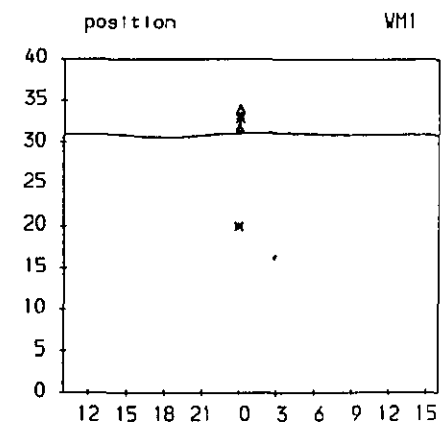
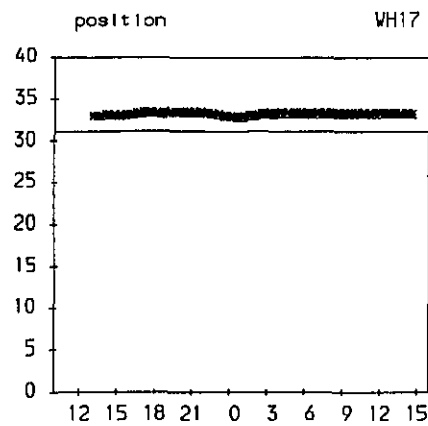
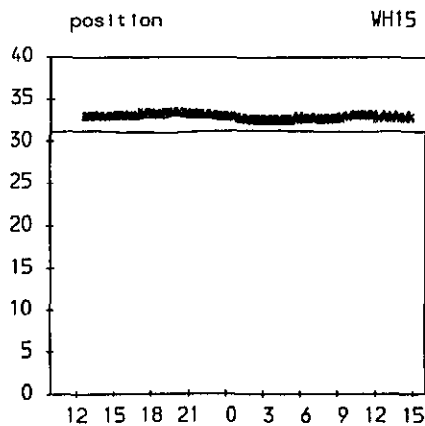
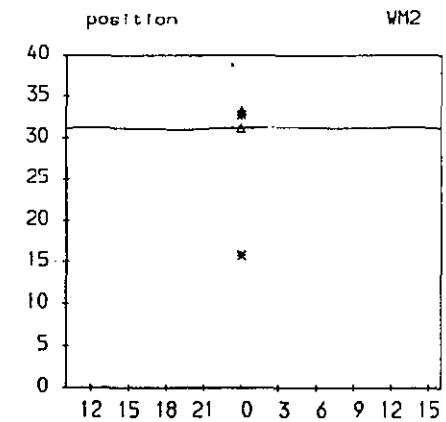
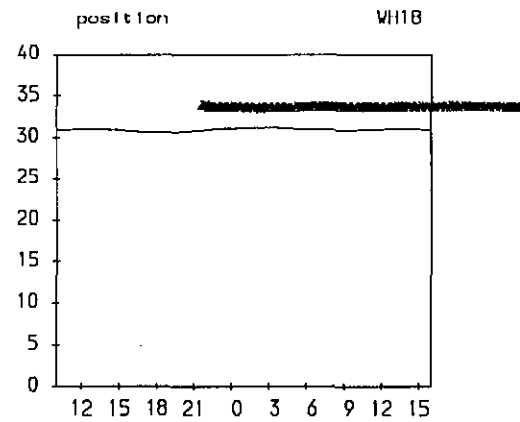
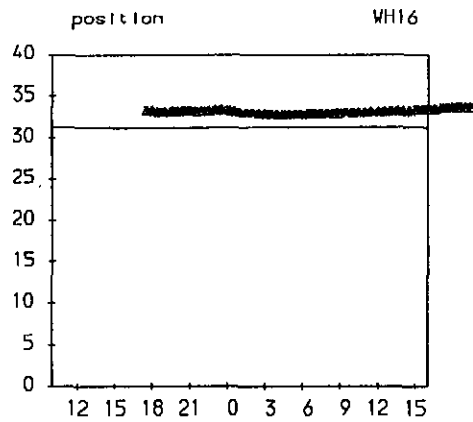
Green Island Dry Spring calibration 28/11/93

Salinity (g/kg) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



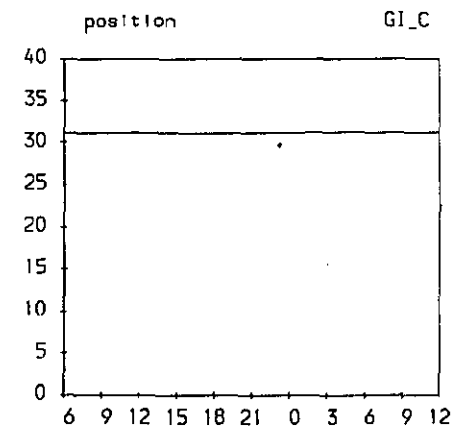
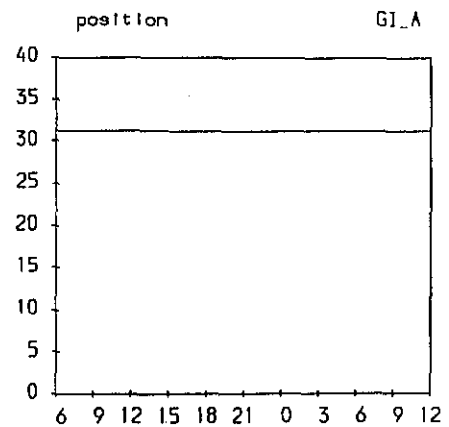
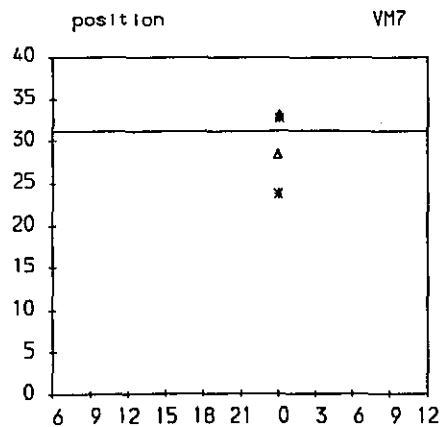
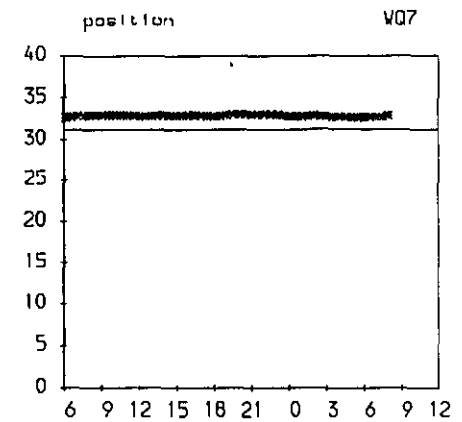
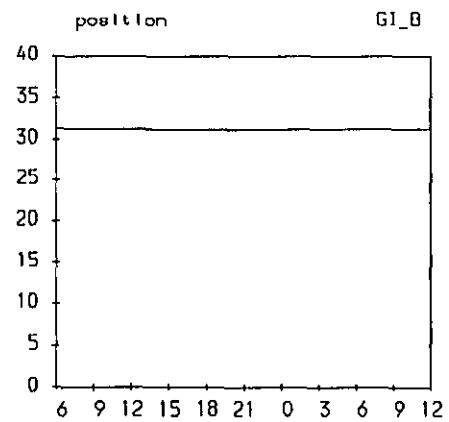
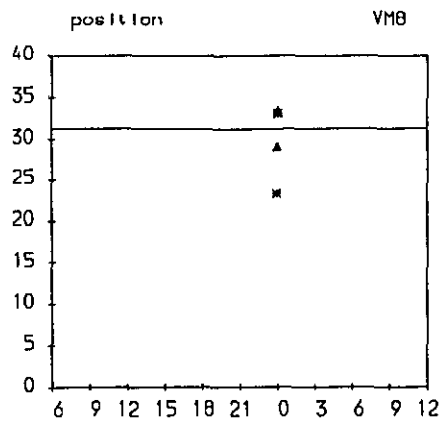
Green Island Dry Spring calibration 28/11/93

Salinity (g/kg) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



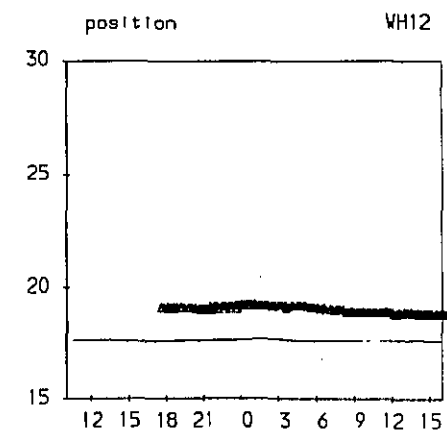
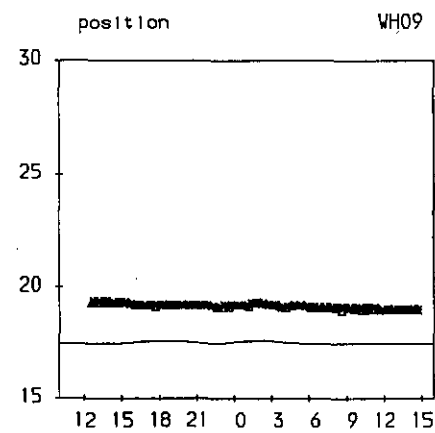
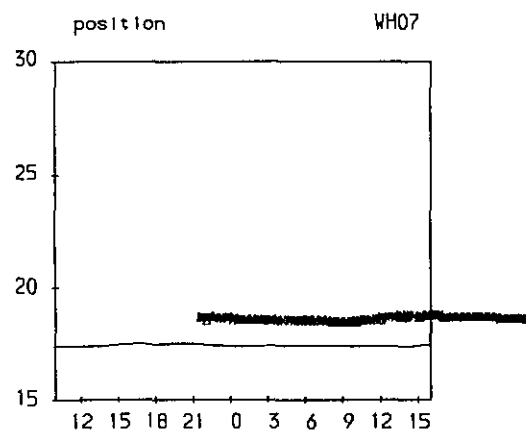
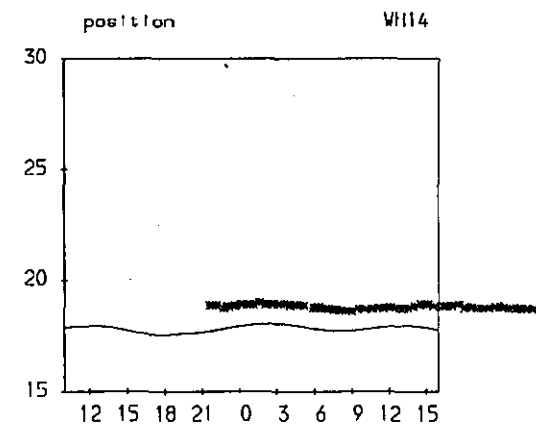
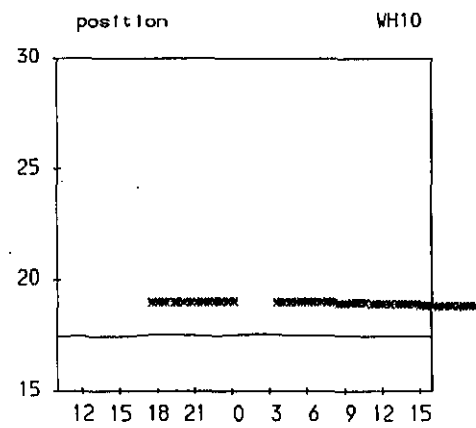
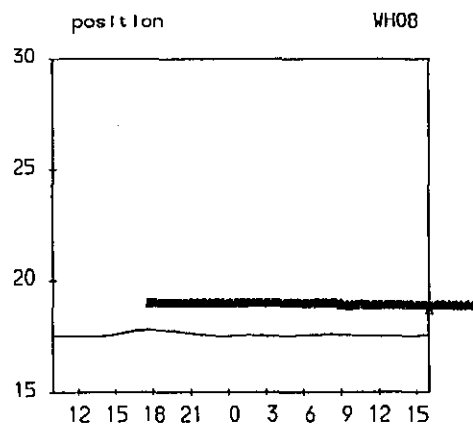
Green Island Dry Spring calibration 28/11/93

Temperature (degrees C) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



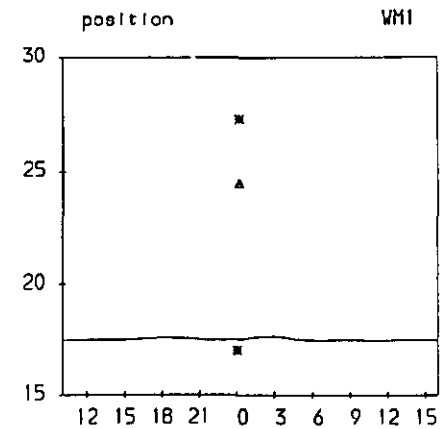
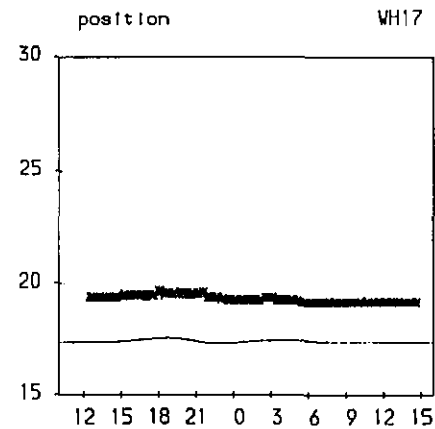
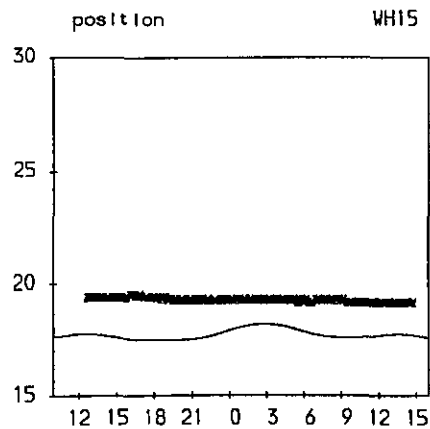
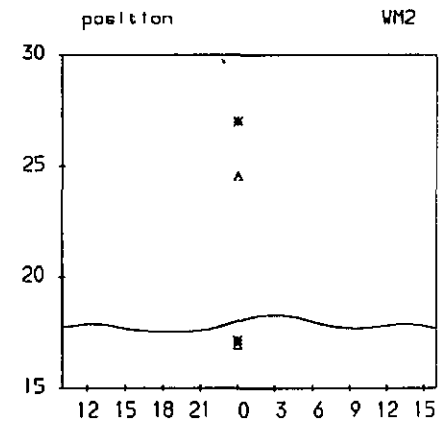
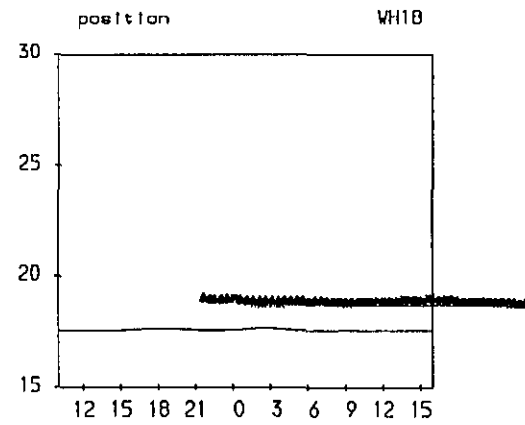
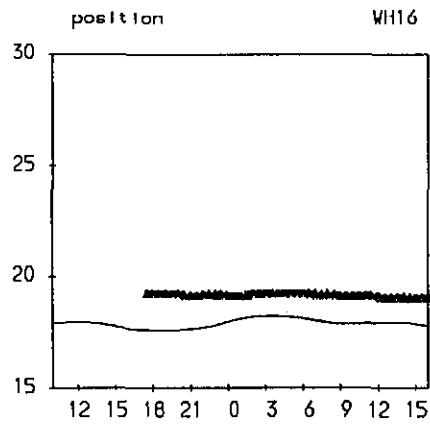
Green Island Dry Spring calibration 28/11/93

Temperature (degrees C) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



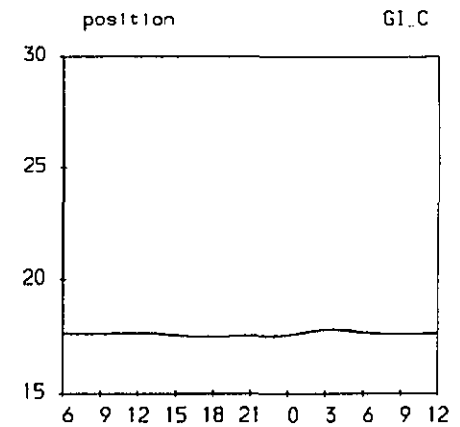
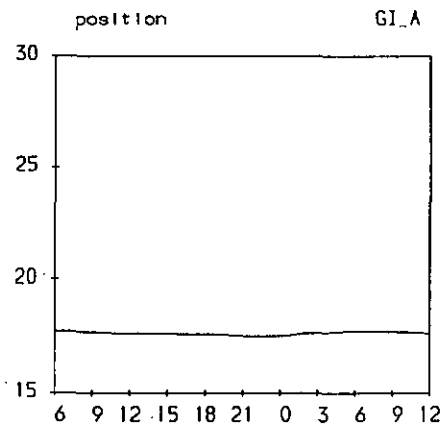
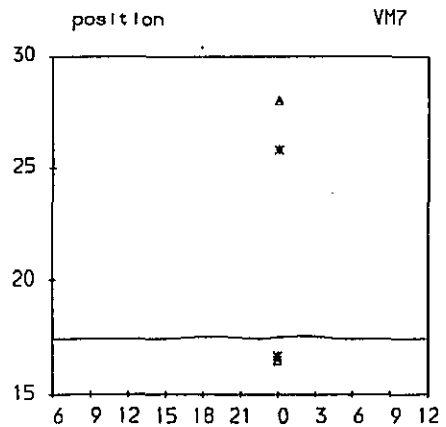
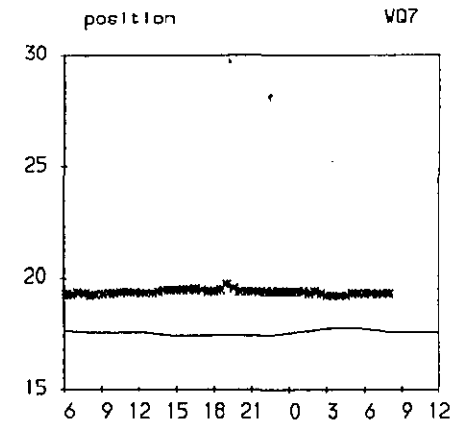
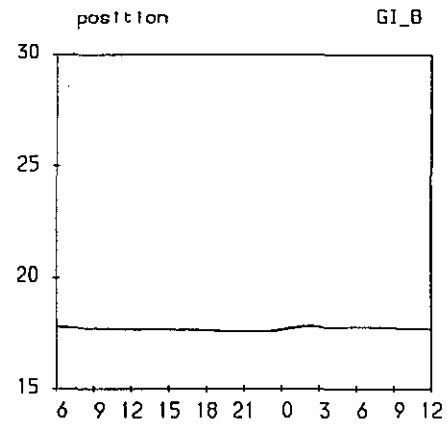
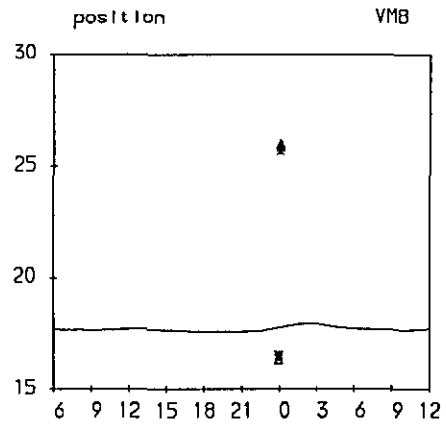
Green Island Dry Spring calibration 28/11/93

Temperature (degrees C) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



11/74

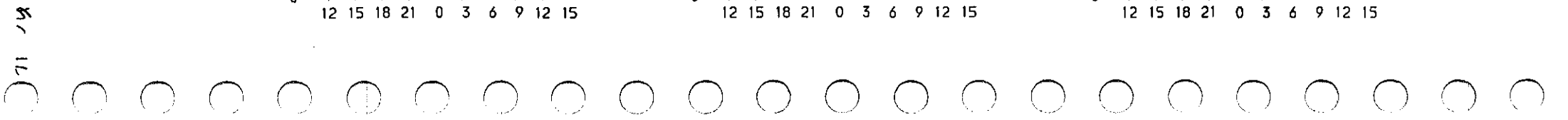
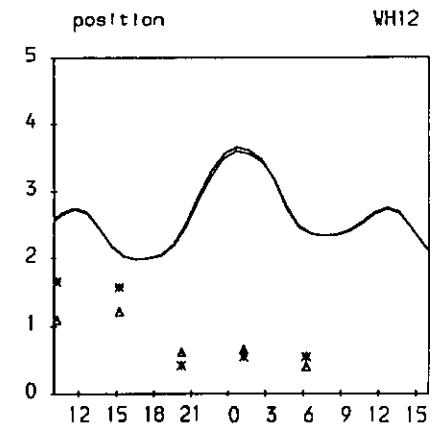
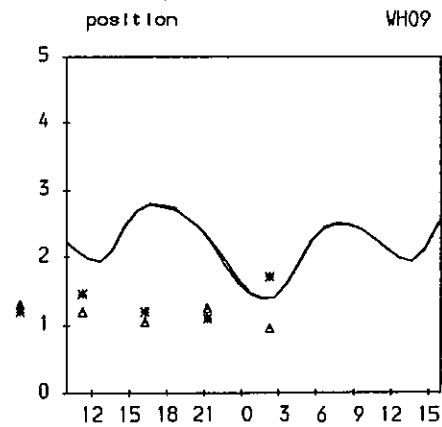
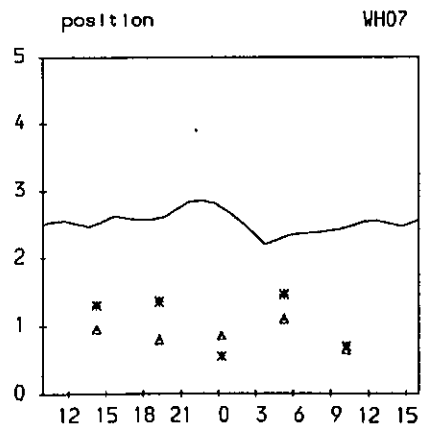
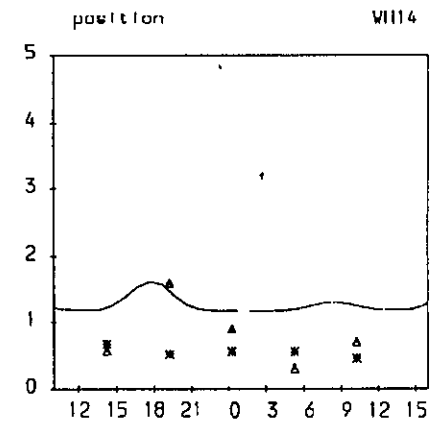
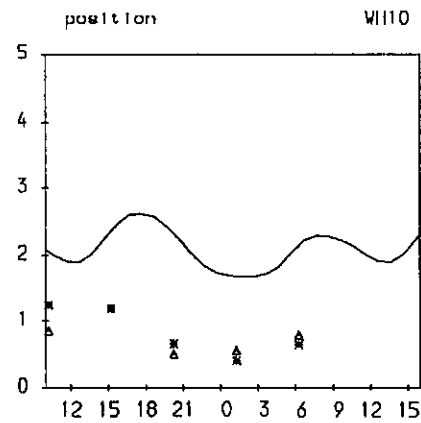
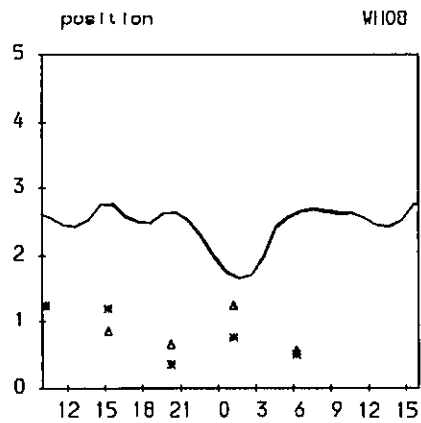
Green Island Dry Spring calibration 28/11/93

BOD (mg/L) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



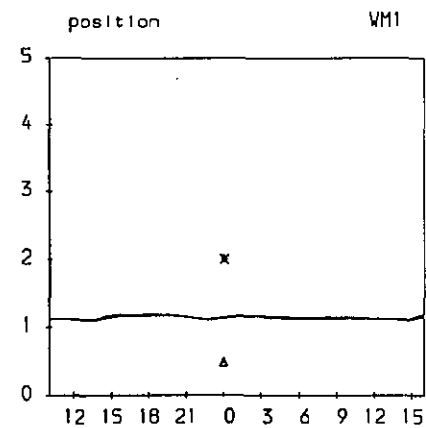
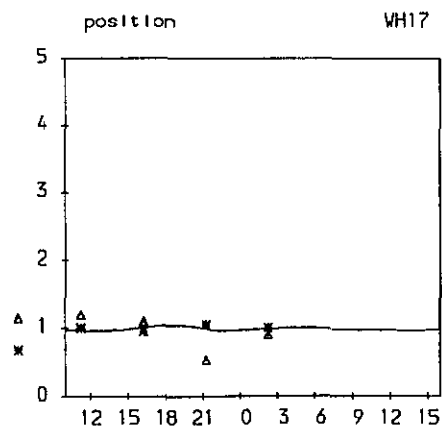
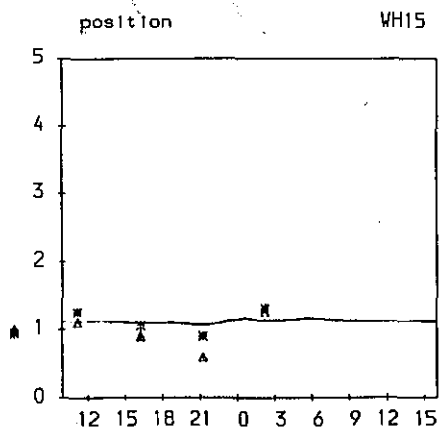
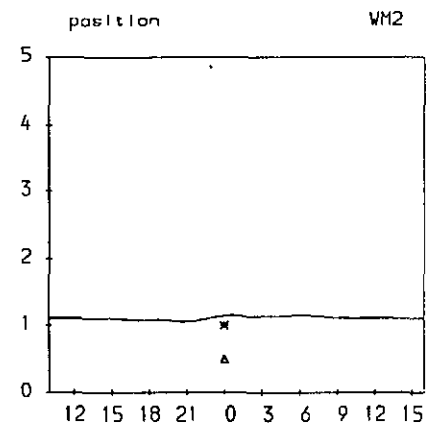
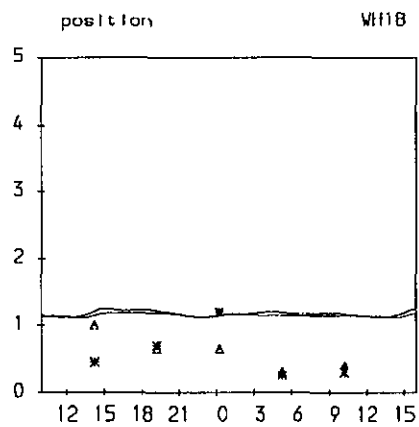
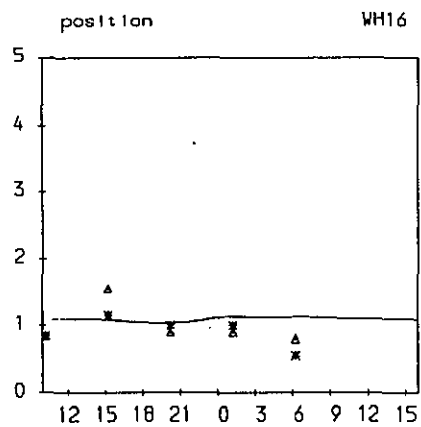
Green Island Dry Spring calibration 28/11/93

BOD (mg/l) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



5/11

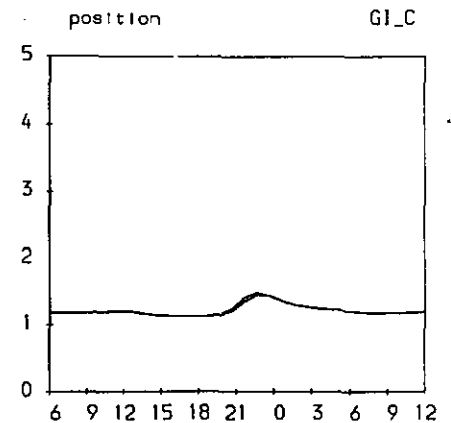
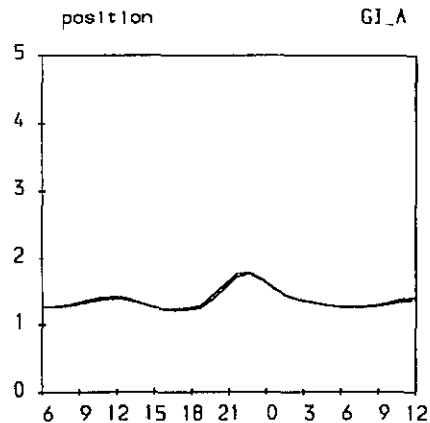
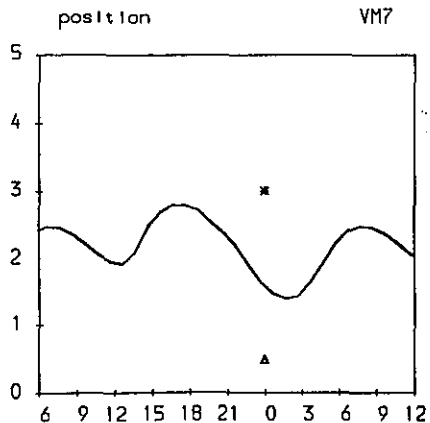
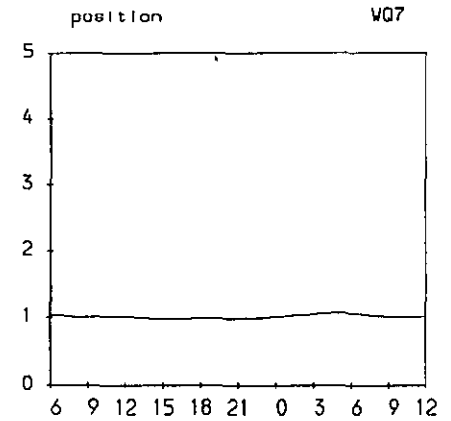
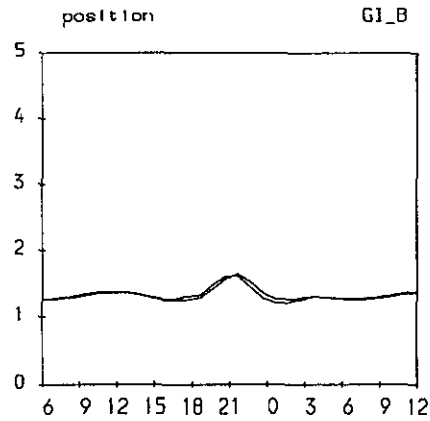
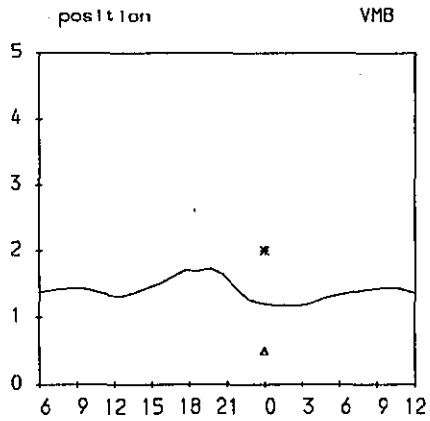
Green Island Dry Spring calibration 28/11/93

BOD (mg/L) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



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Green Island Dry Spring calibration 28/11/93

Ammoniacal Nitrogen (mg N/L) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer

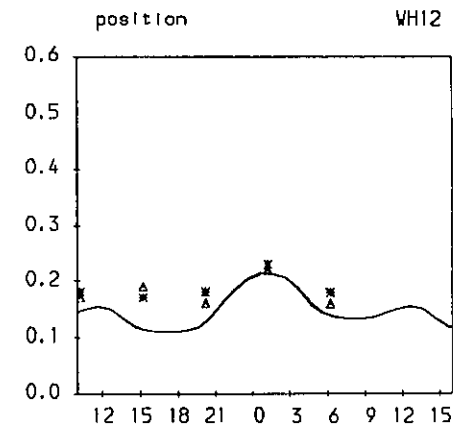
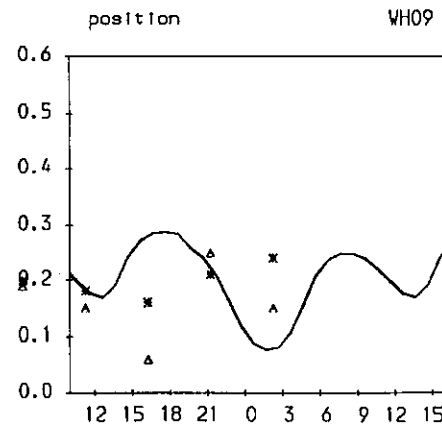
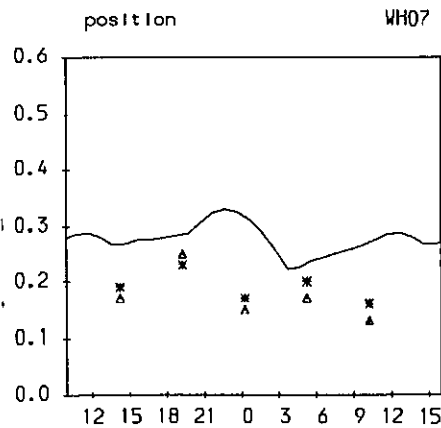
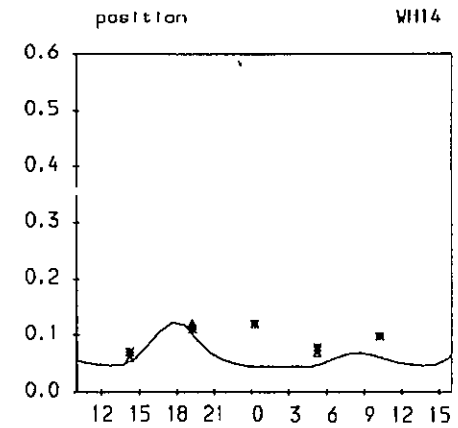
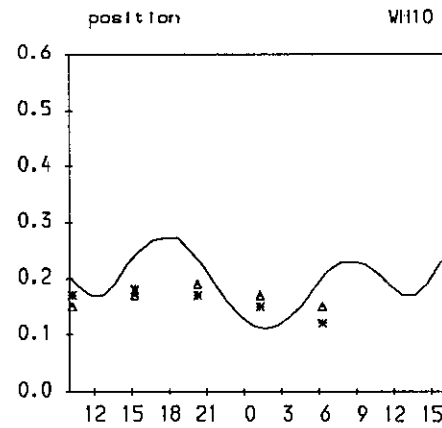
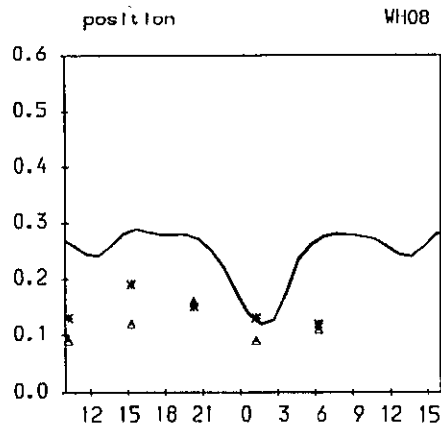


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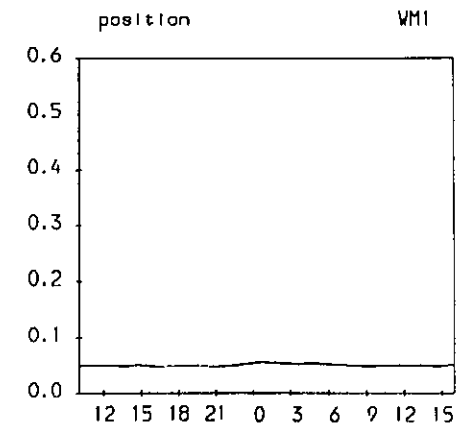
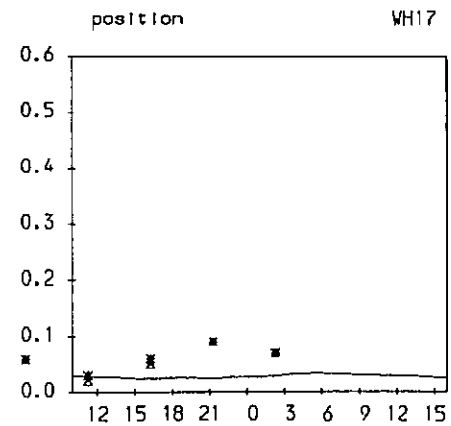
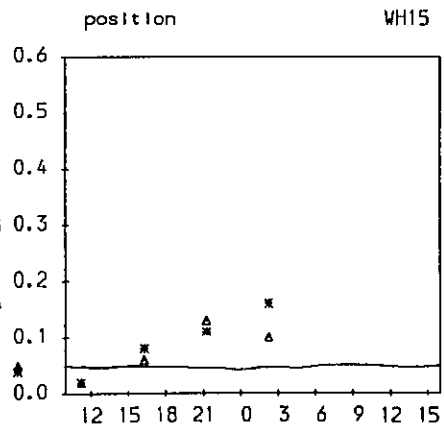
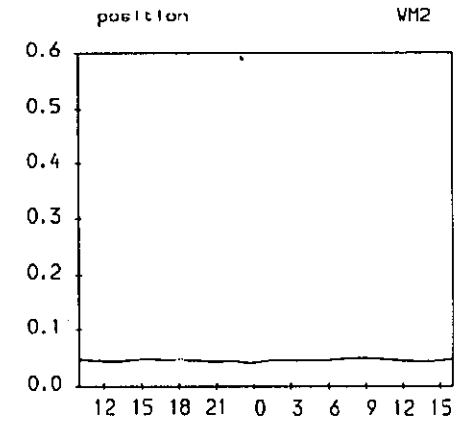
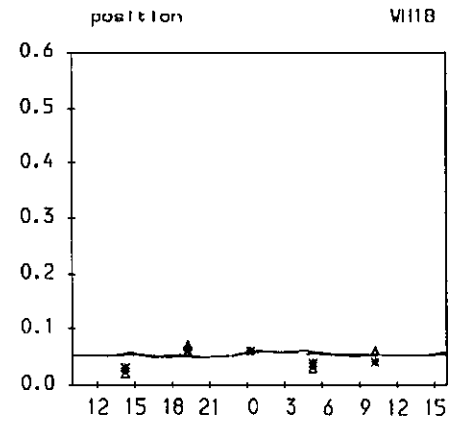
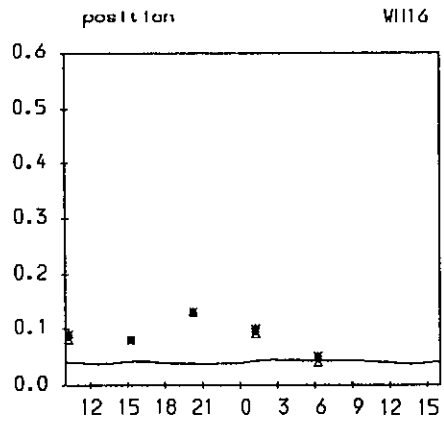
Green Island Dry Spring calibration 28/11/93

Ammoniacal Nitrogen (mg N/l) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



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Green Island Dry Spring calibration 28/11/93

Ammoniacal Nitrogen (mg N/l) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer

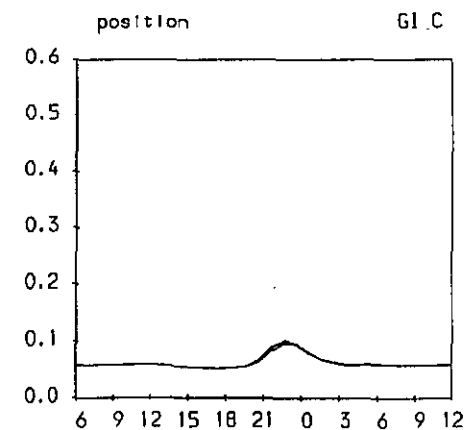
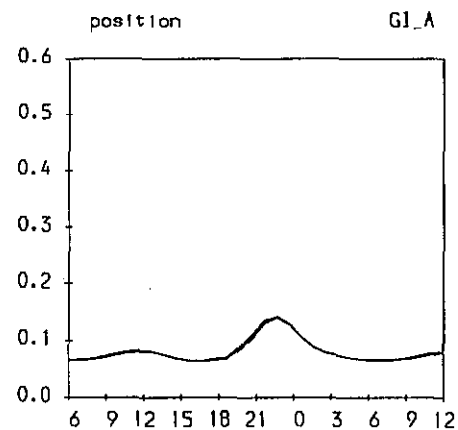
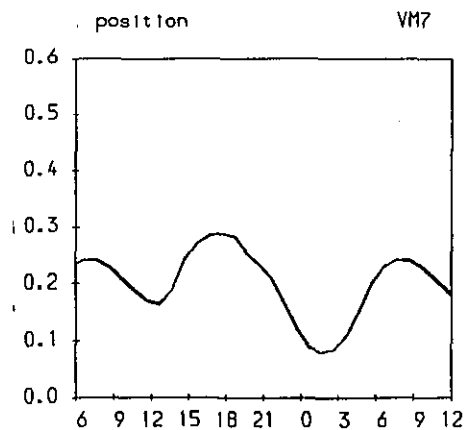
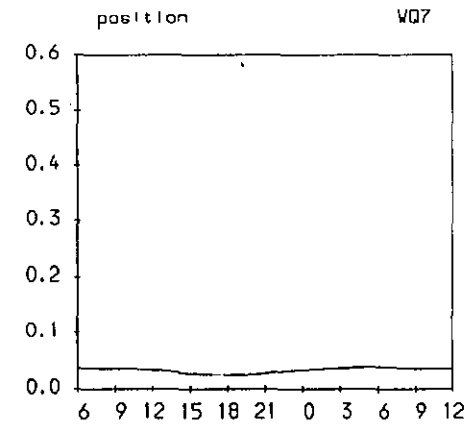
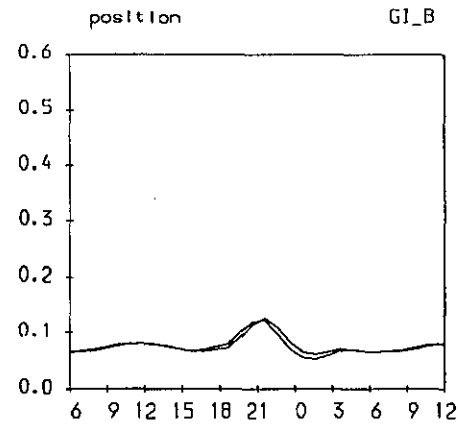
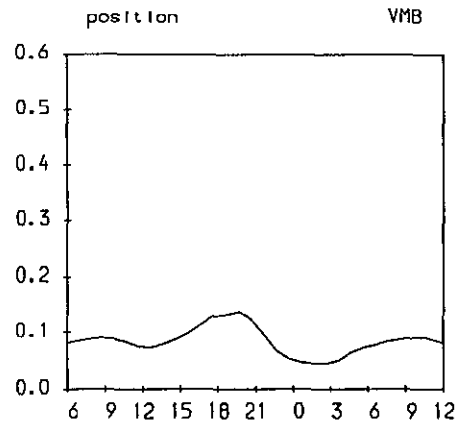


Fig 4

Green Island Dry Spring calibration 28/11/93

Oxidised Nitrogen (mg N/l) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer

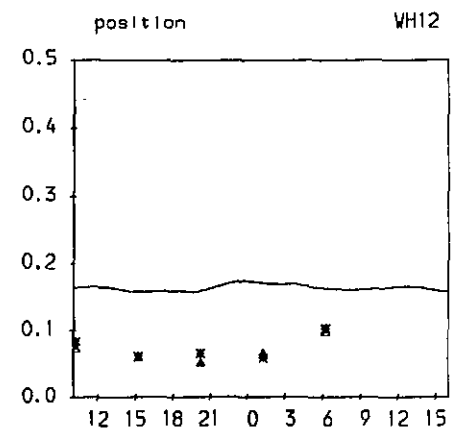
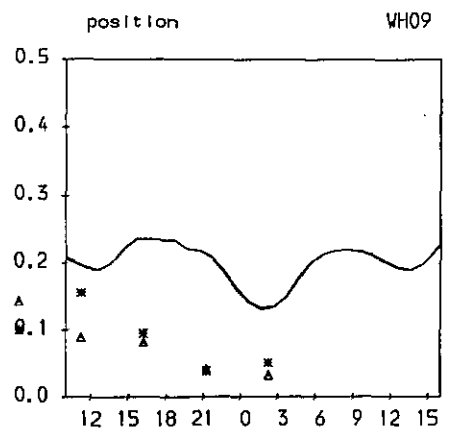
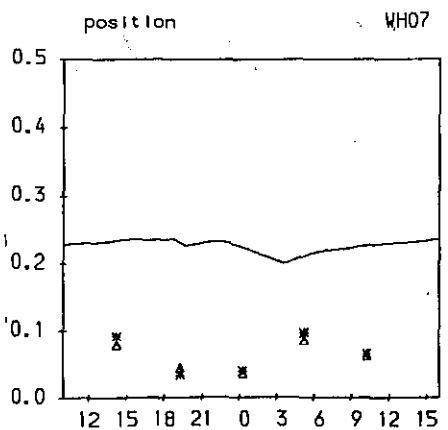
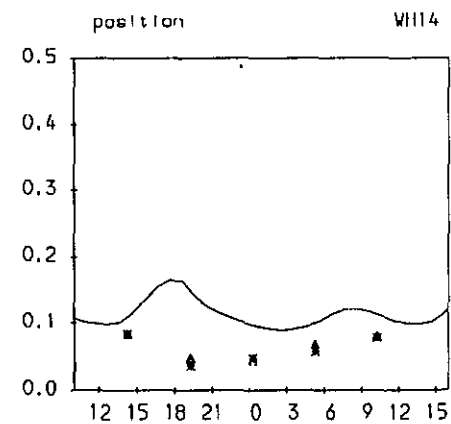
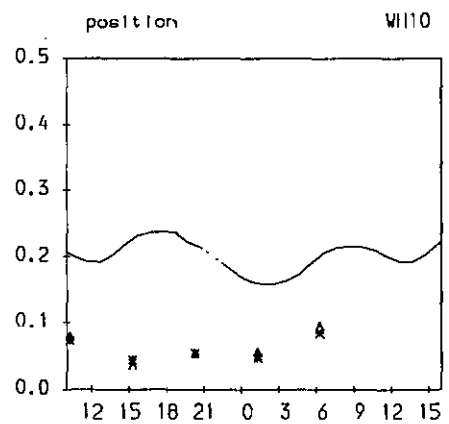
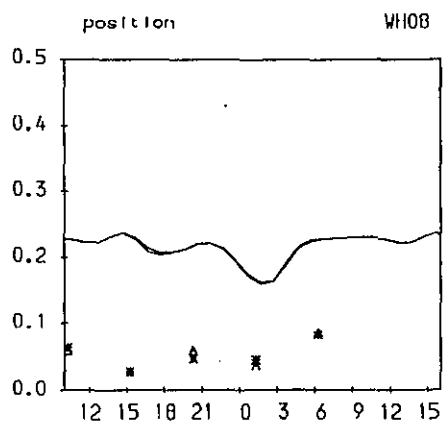


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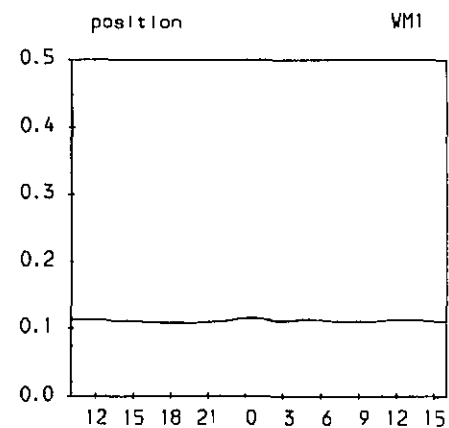
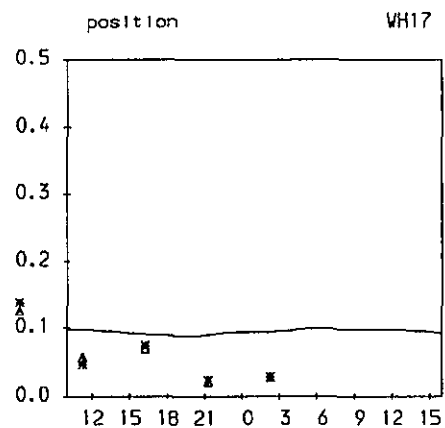
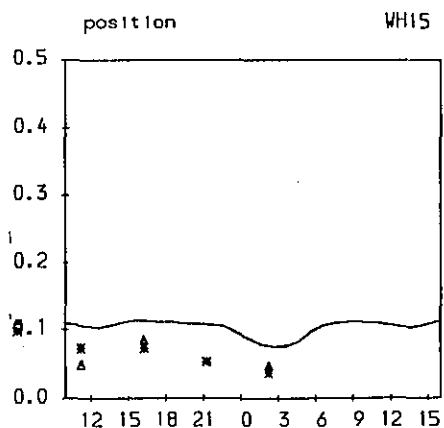
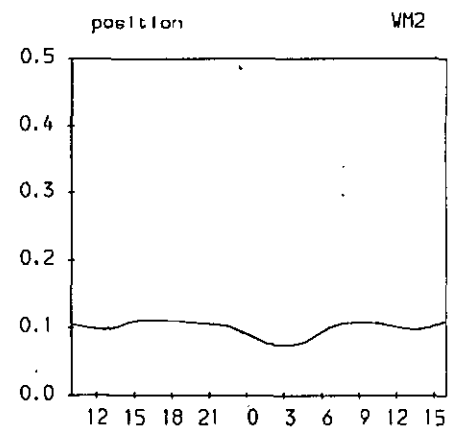
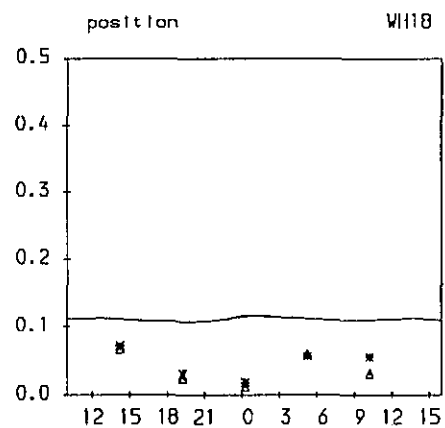
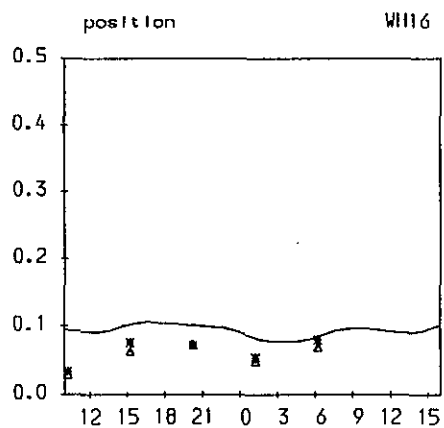
Green Island Dry Spring calibration 28/11/93

Oxidised Nitrogen (mg N/l) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



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Green Island Dry Spring calibration 28/11/93

Oxidised Nitrogen (mg N/L) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer

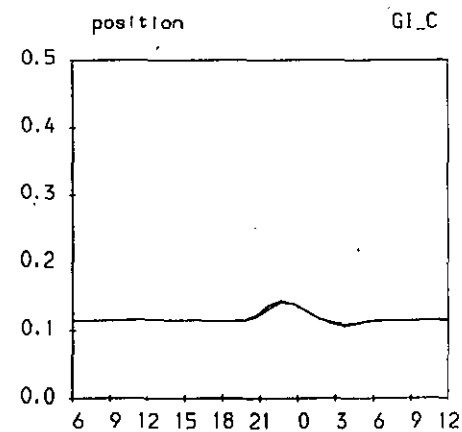
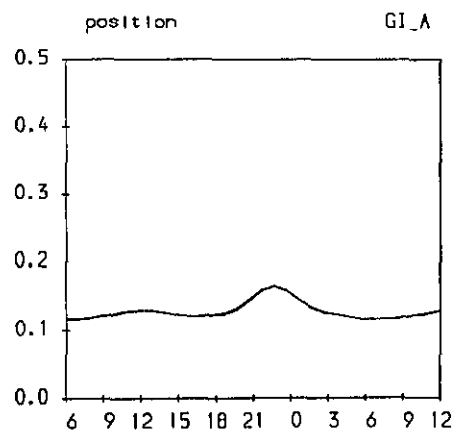
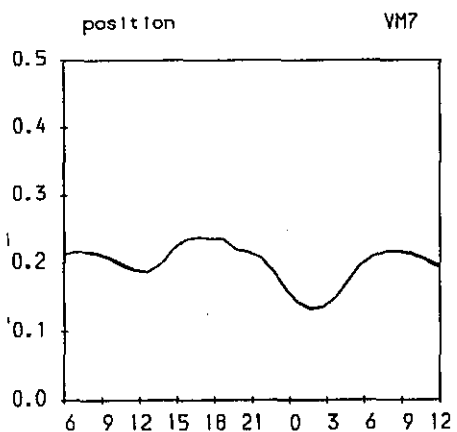
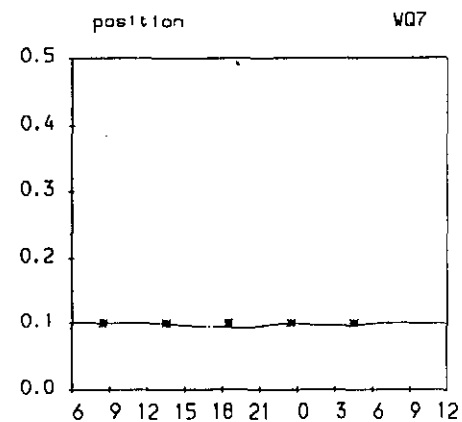
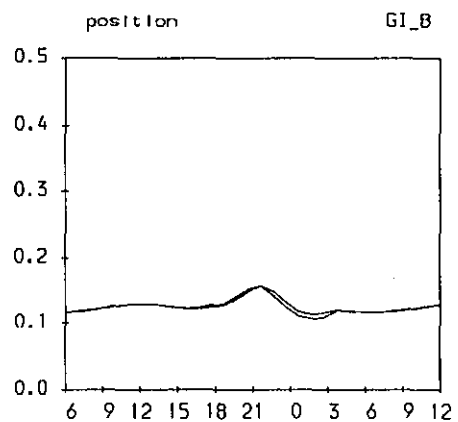
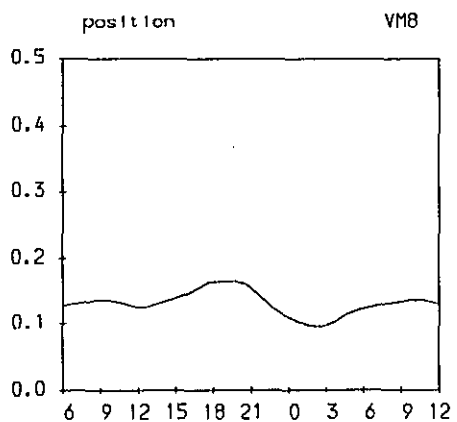


Fig 4

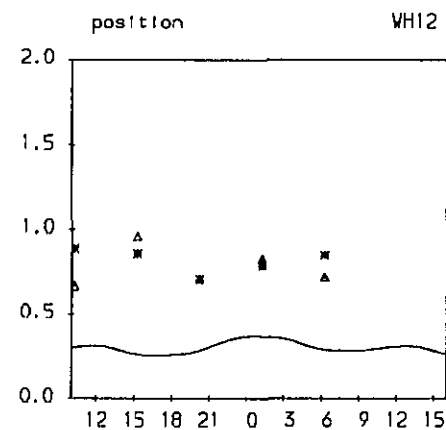
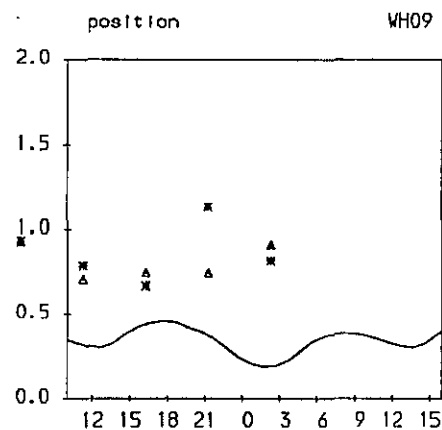
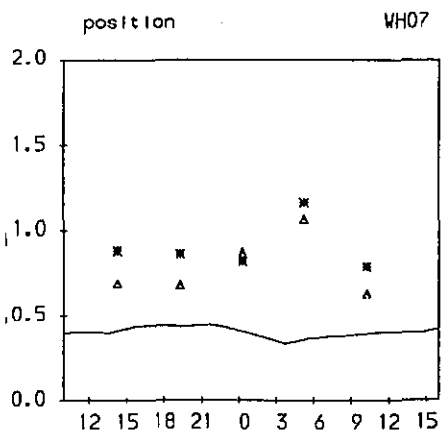
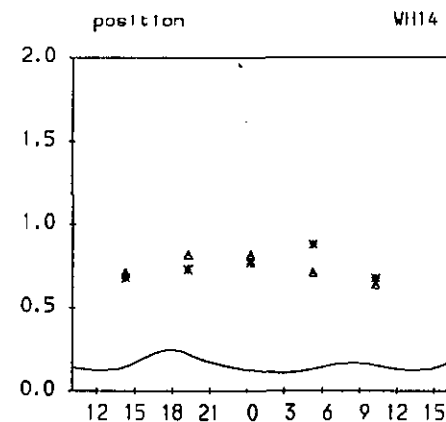
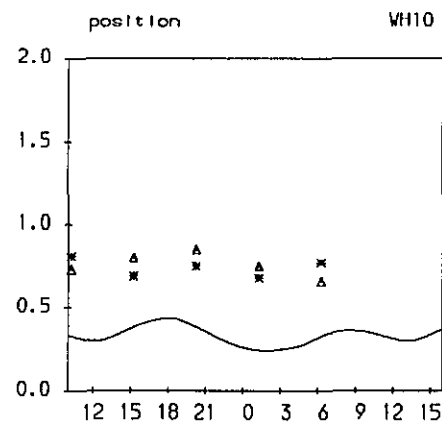
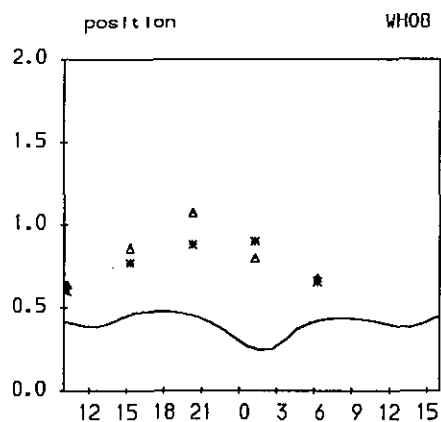
Green Island Dry Spring calibration 28/11/93

Organic Nitrogen (mg N/L) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



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Green Island Dry Spring calibration 28/11/93

Organic Nitrogen (mg N/l) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer

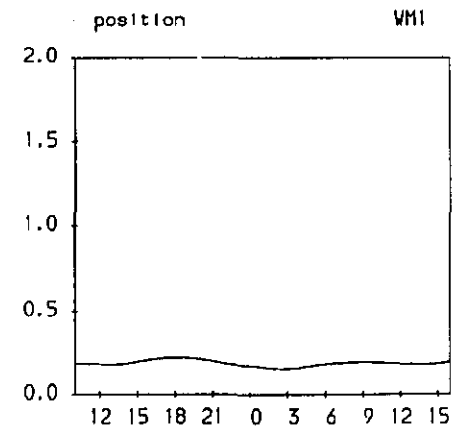
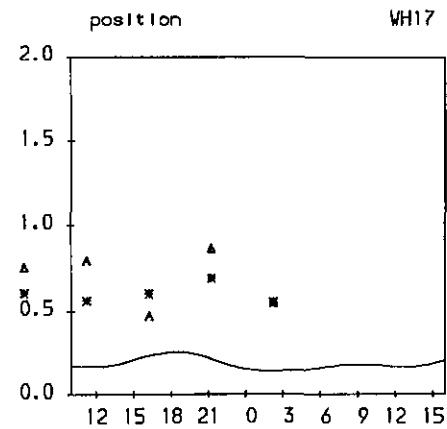
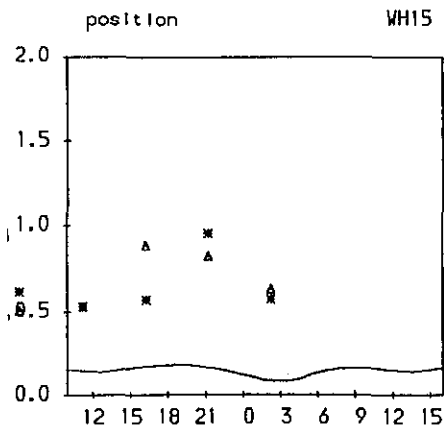
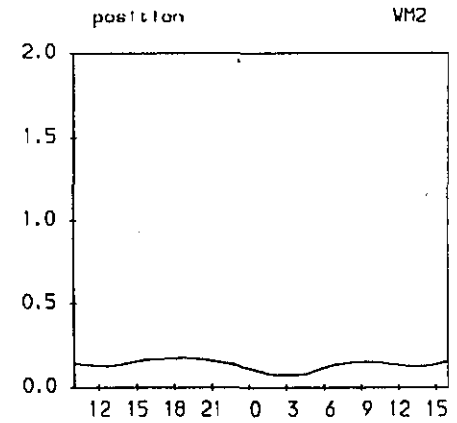
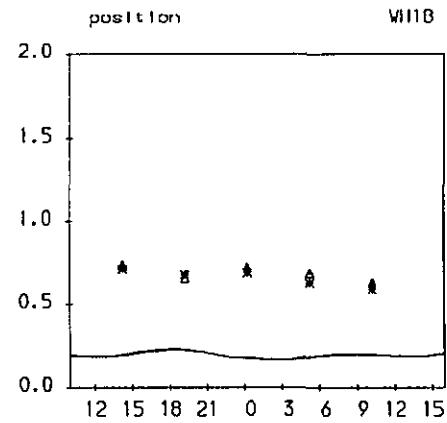
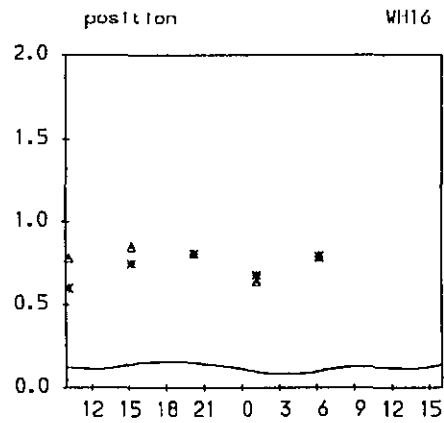


Fig 4

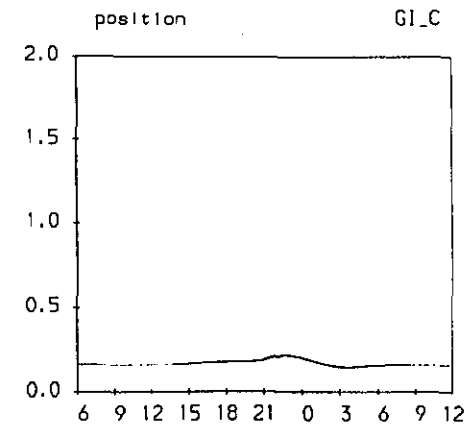
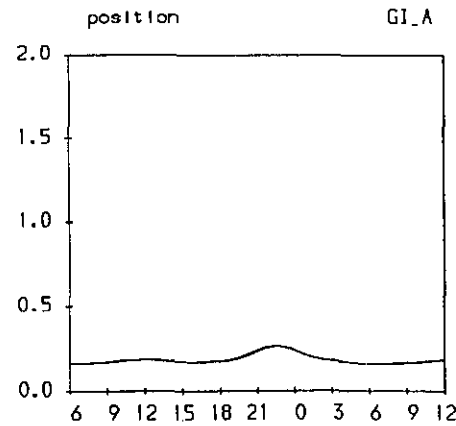
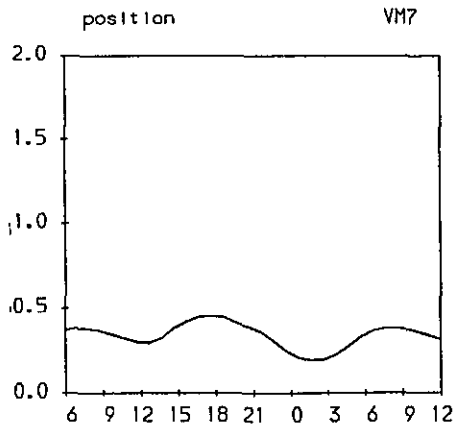
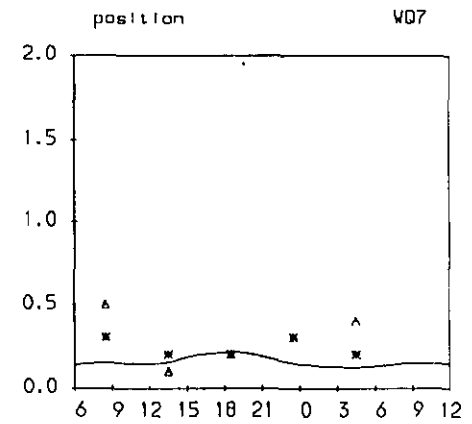
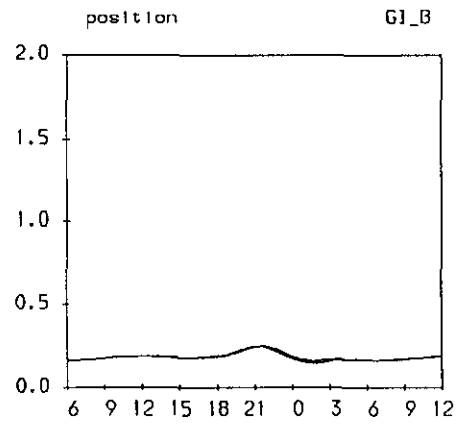
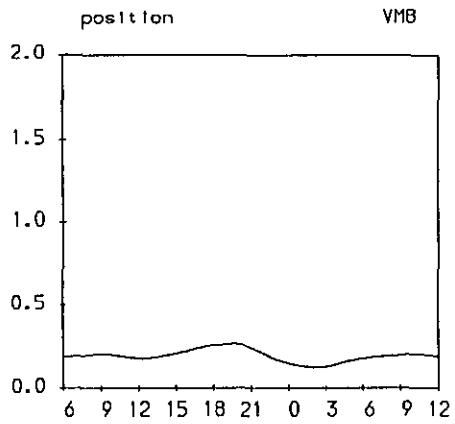
Green Island Dry Spring calibration 28/11/93

Organic Nitrogen (mg N/l) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



4 mg

Green Island Dry Spring calibration 28/11/93

Chlorophyll (ug/l) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer

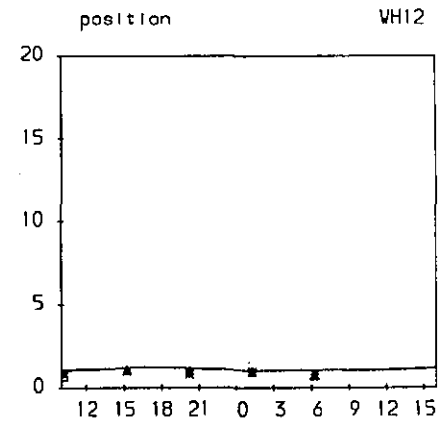
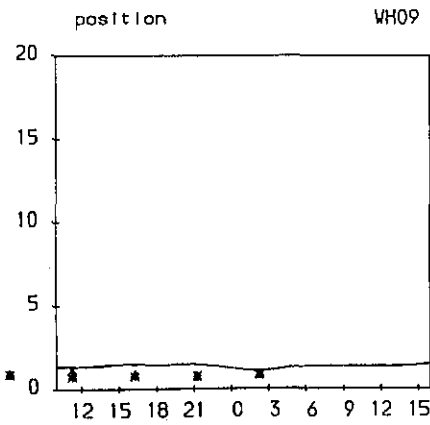
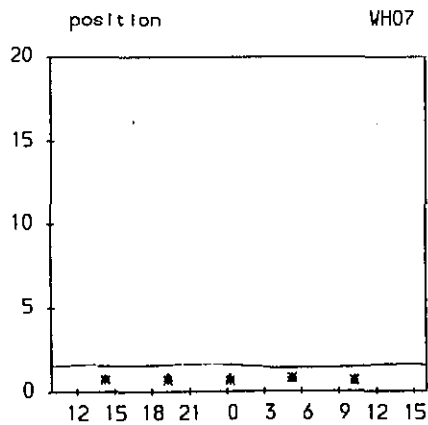
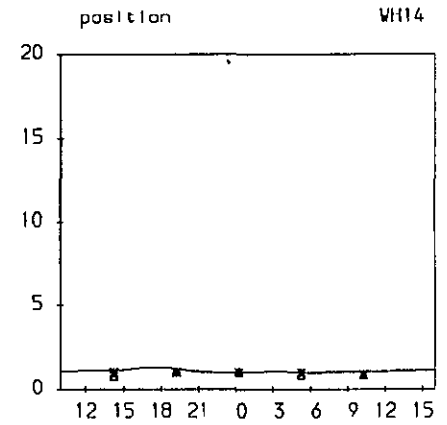
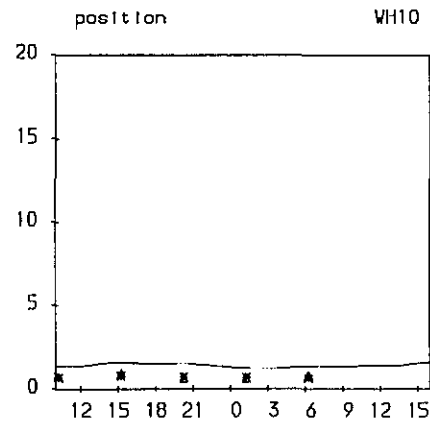
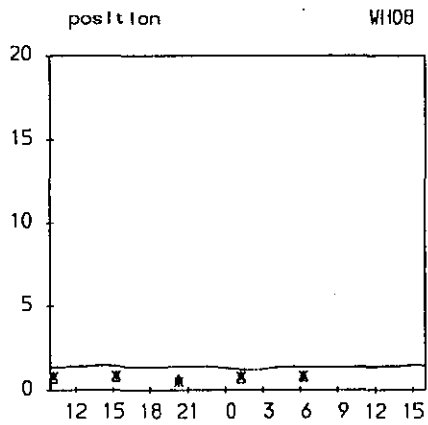


Fig 4

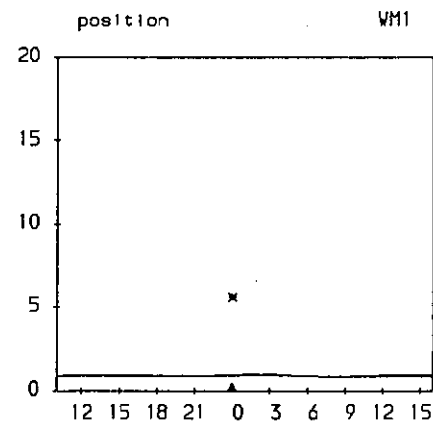
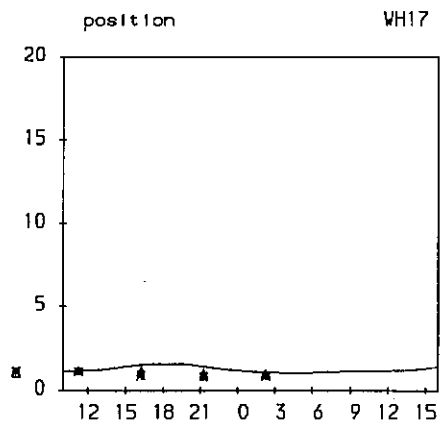
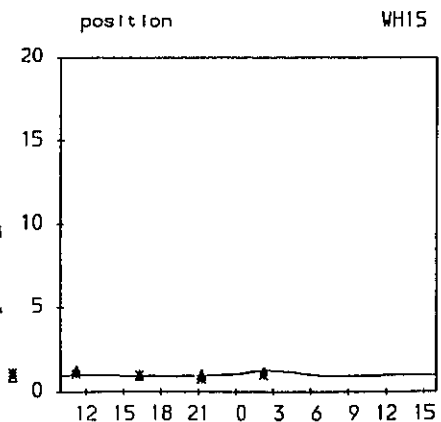
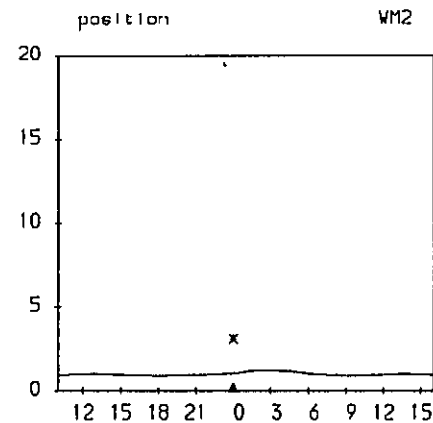
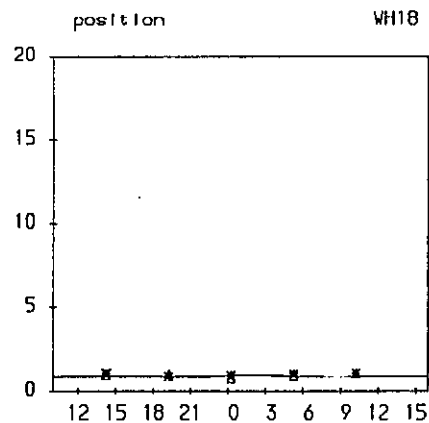
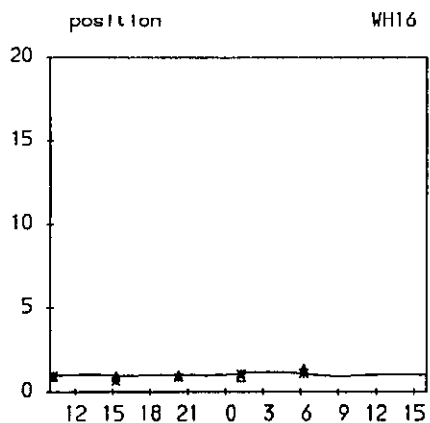
Green Island Dry Spring calibration 28/11/93

Chlorophyll (ug/l) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



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Green Island Dry Spring calibration 28/11/93

Chlorophyll (ug/l) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer

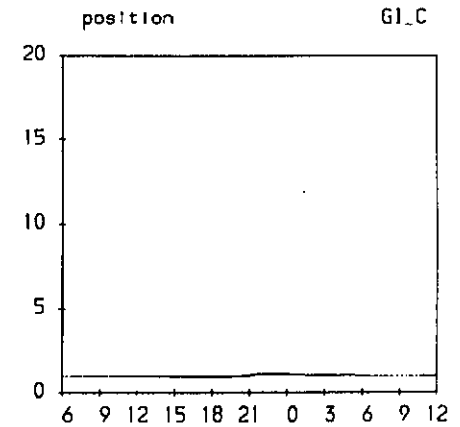
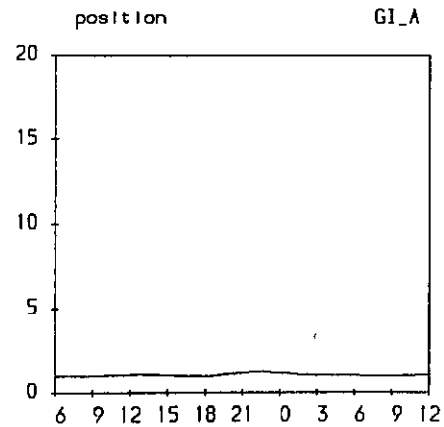
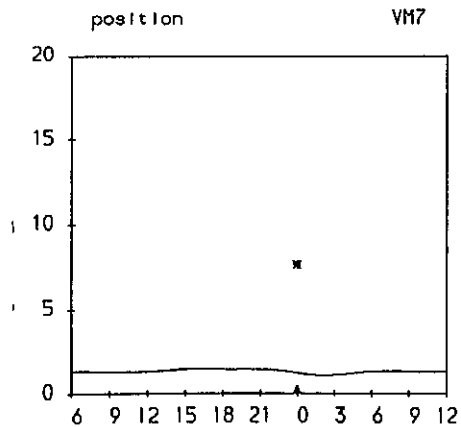
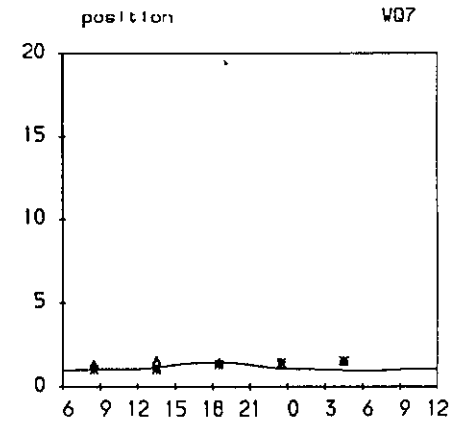
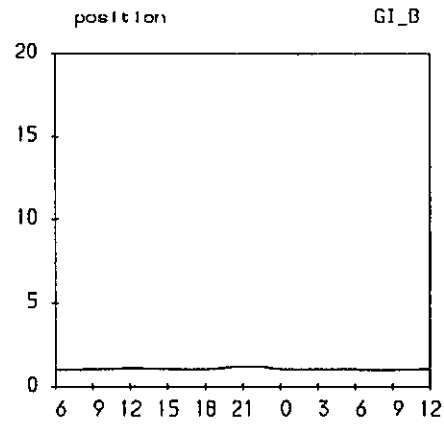
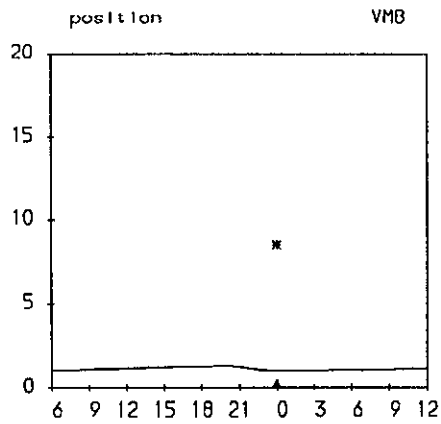


Fig 4

Green Island Dry Spring calibration 28/11/93

Suspended Solids (mg/l) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer

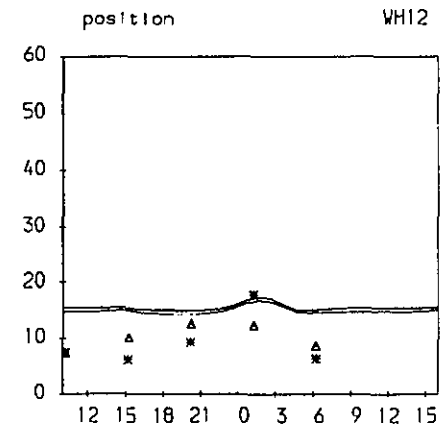
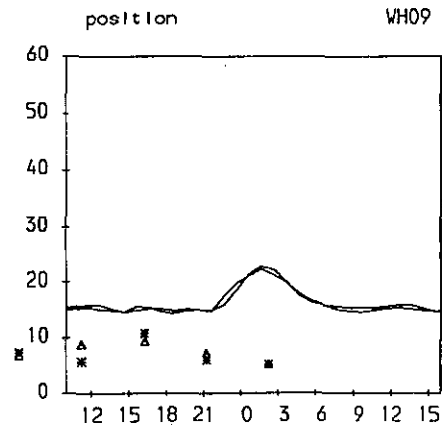
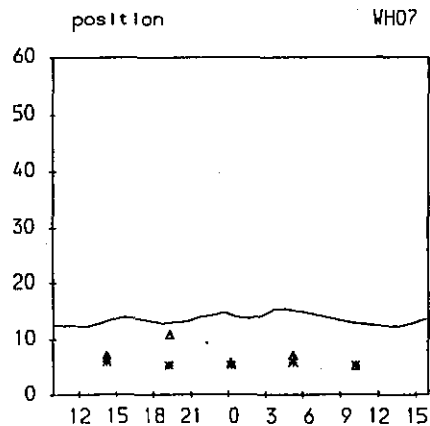
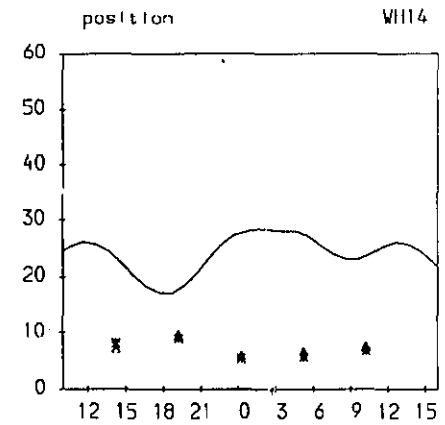
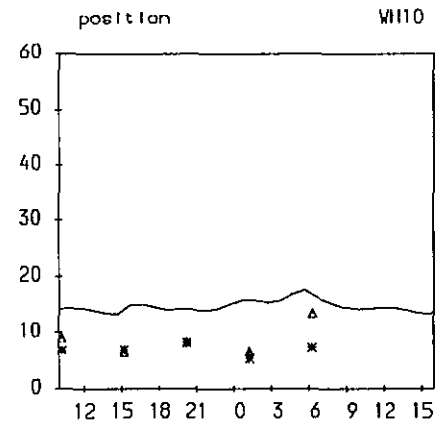
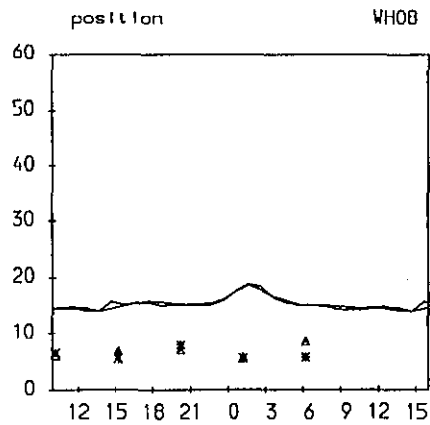


fig 4

Green Island Dry Spring calibration 28/11/93

Suspended Solids (mg/L) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer

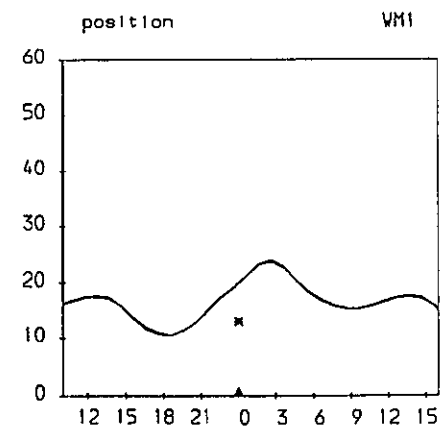
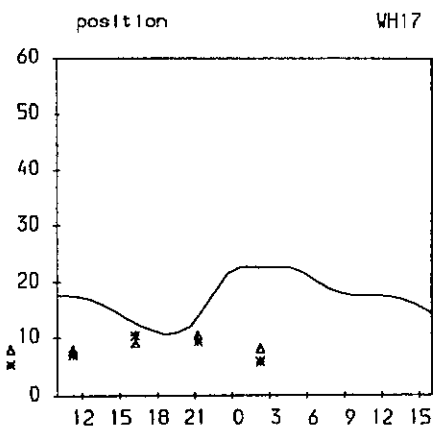
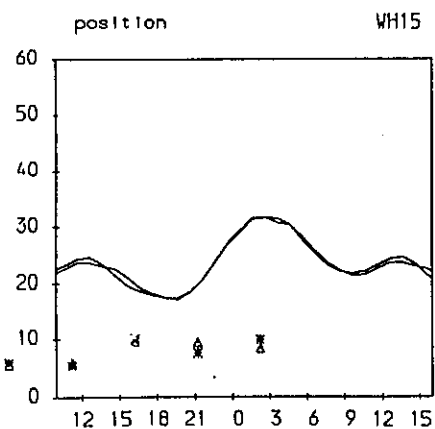
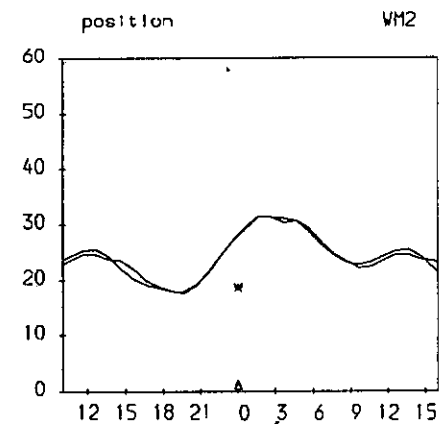
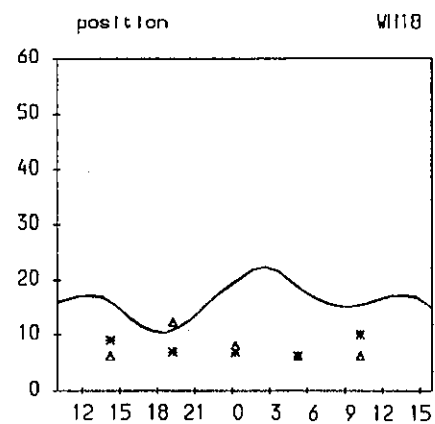
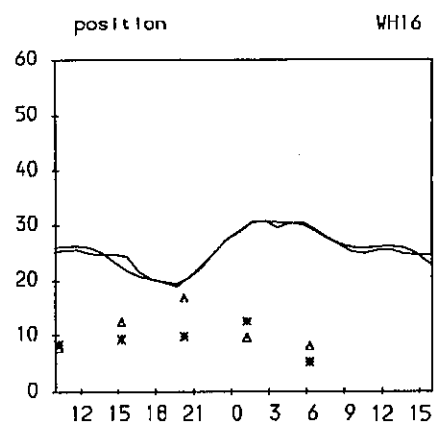


Fig 4

Green Island Dry Spring calibration 28/11/93

Suspended Solids (mg/L) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer

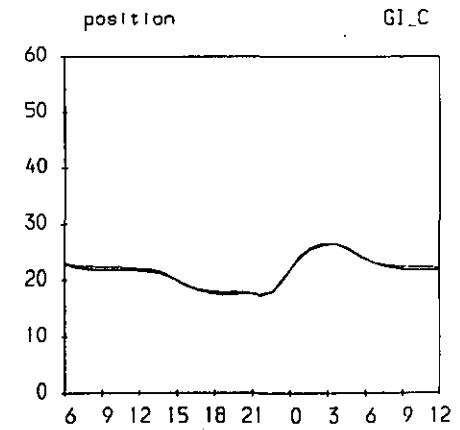
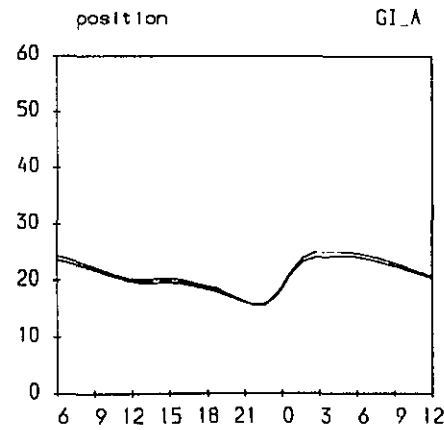
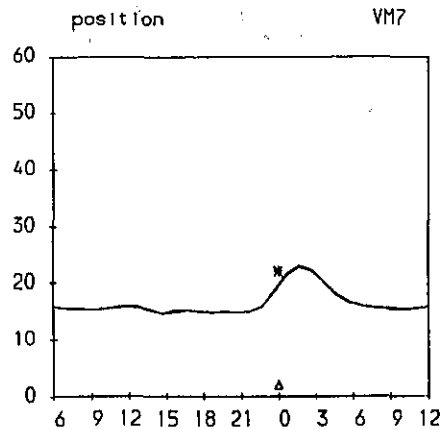
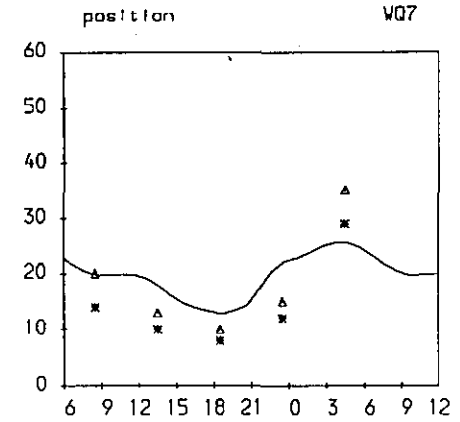
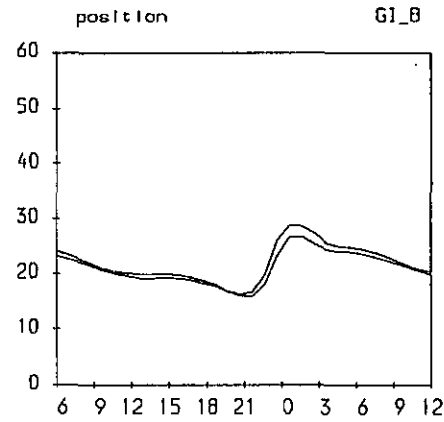
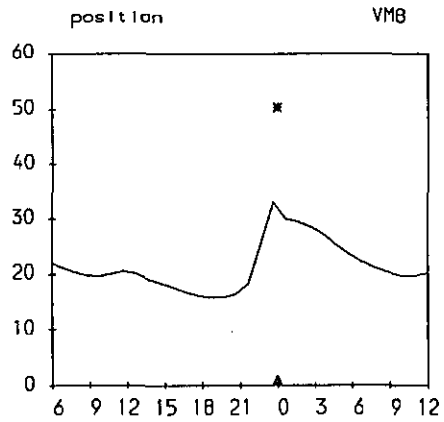


Fig 4

Green Island Dry Spring calibration 28/11/93

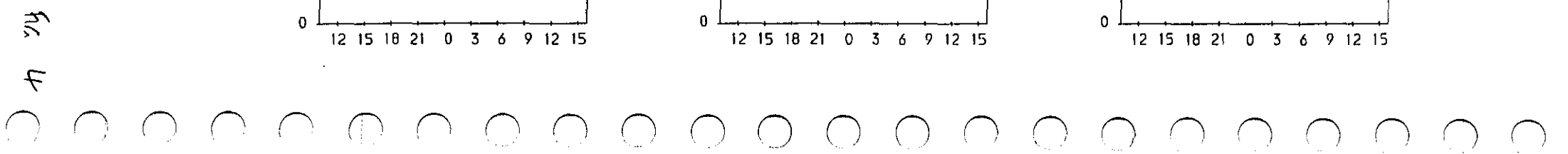
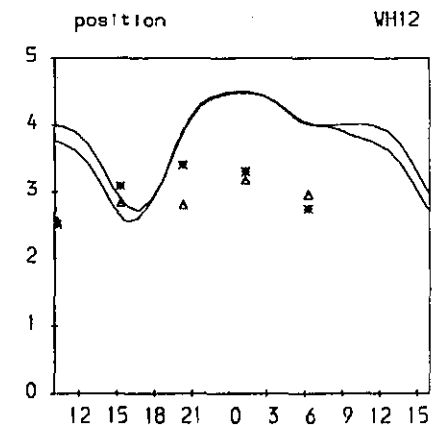
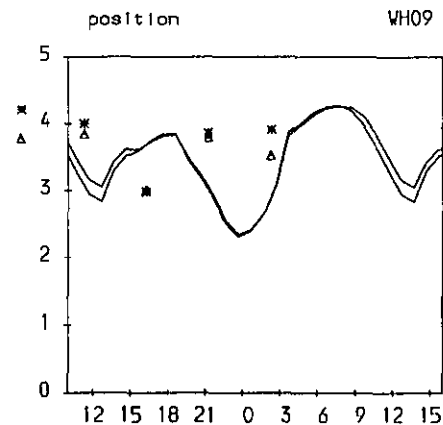
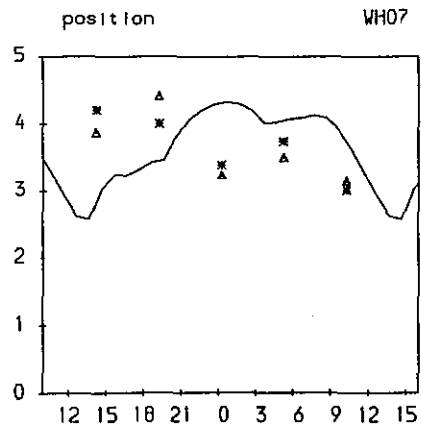
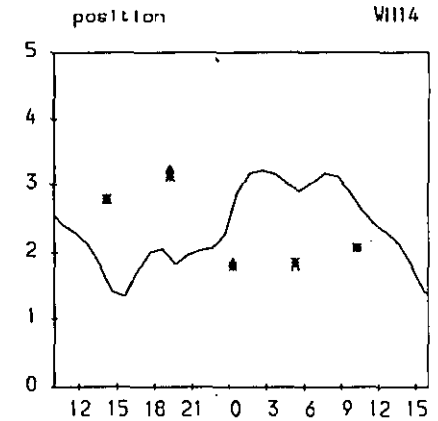
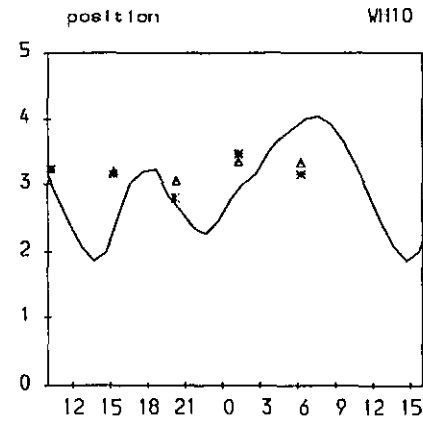
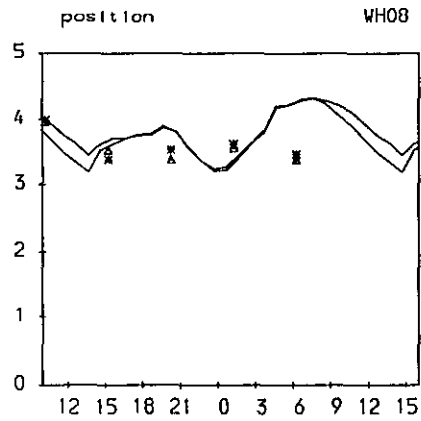
E.Coli (no/100ml) against time

(log to base 10 on y-axis)

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



Green Island Dry Spring calibration 28/11/93

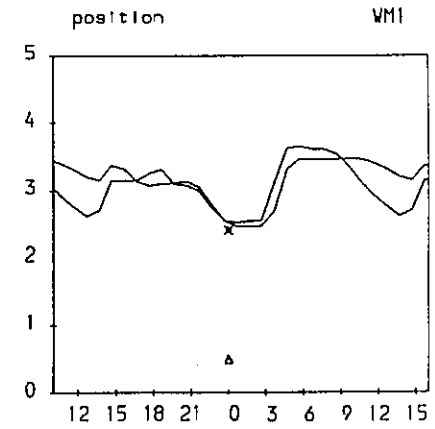
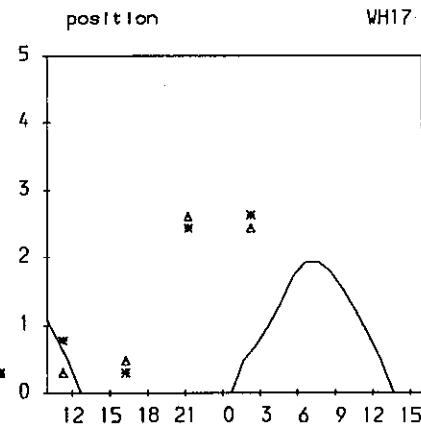
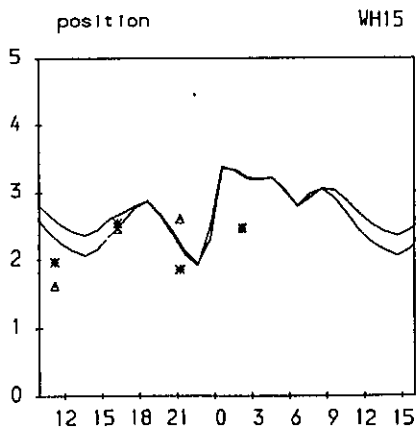
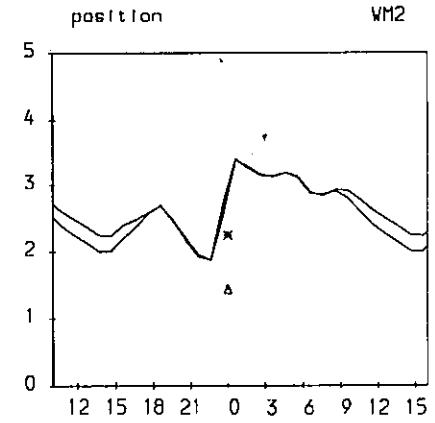
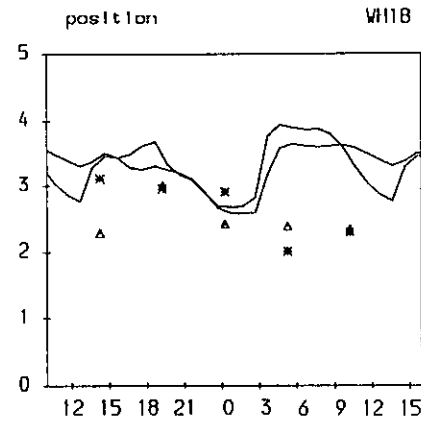
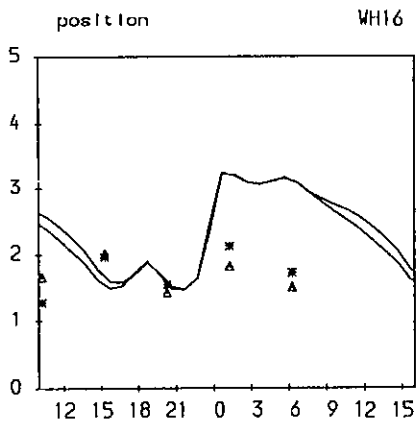
E.Coli (no/100ml) against time

(log to base 10 on y-axis)

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



4 24

Green Island Dry Spring calibration 28/11/93

E.Coli (no/100ml) against time (log to base 10 on y-axis)

2 Layer, 100m grid — Predicted

Observed symbols: * Upper layer, Δ Lower layer

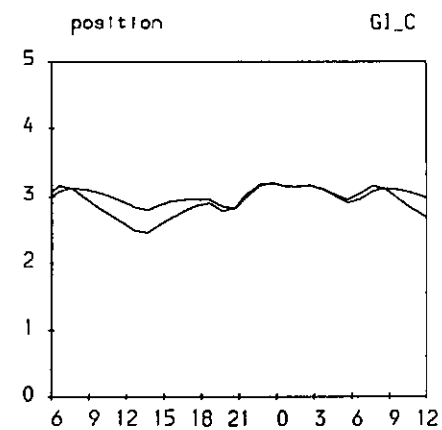
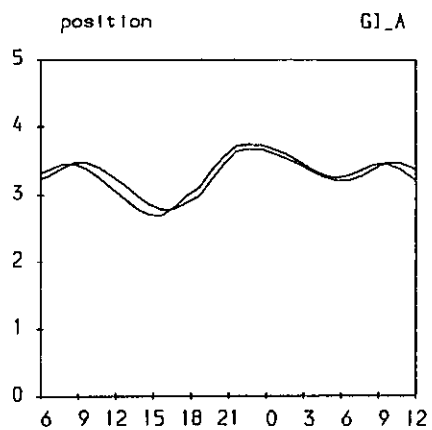
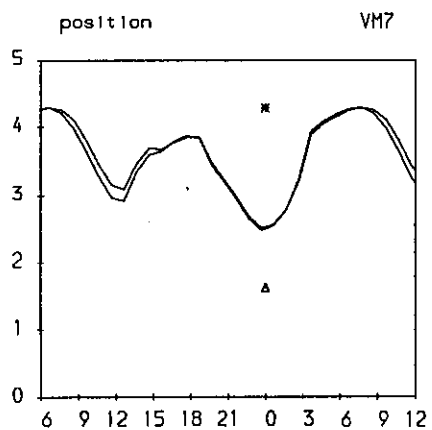
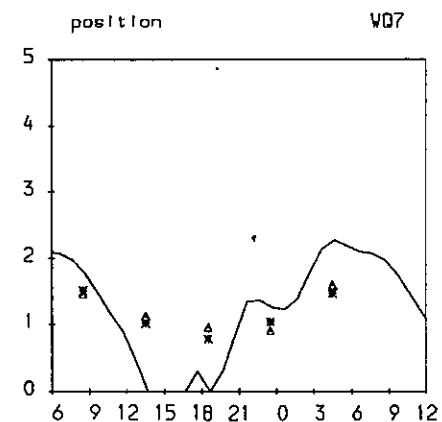
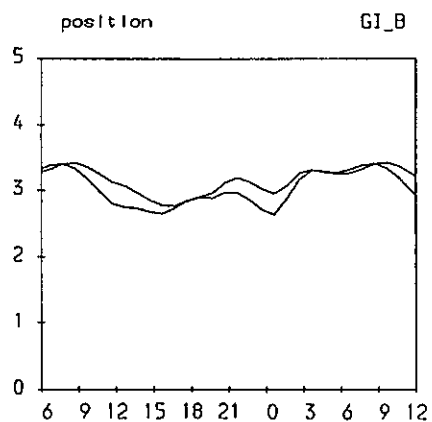
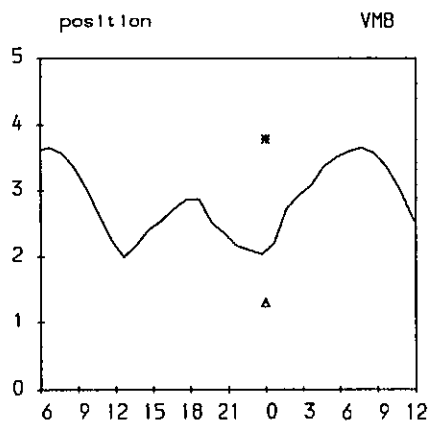


Fig 4

FIGURE 5

CASE 1 (EXISTING) : WET SEASON NEAP TIDE

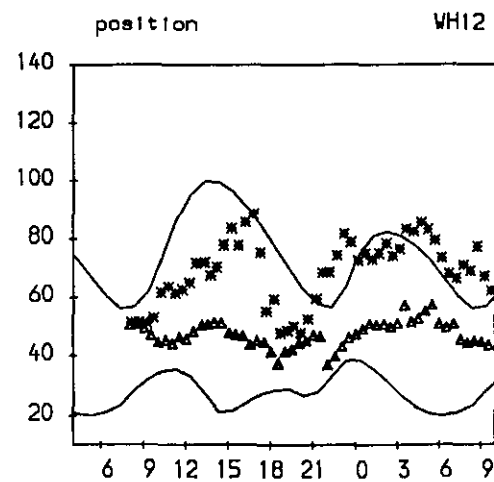
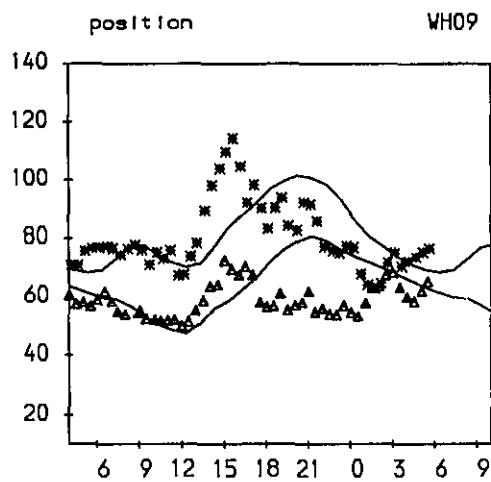
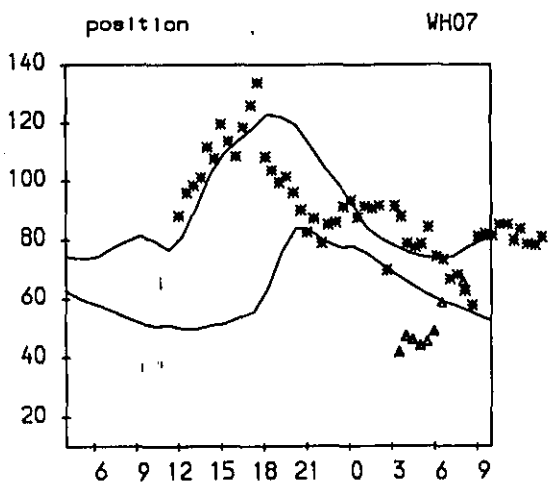
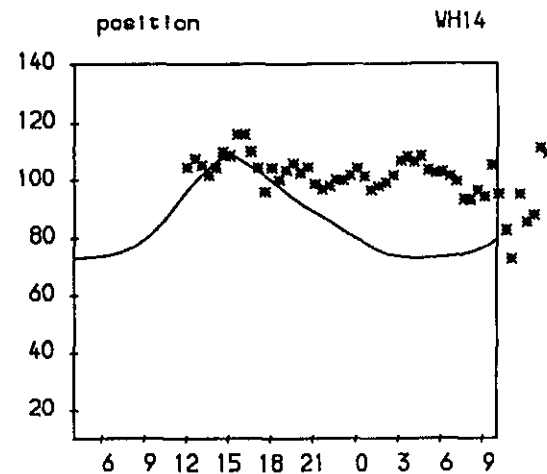
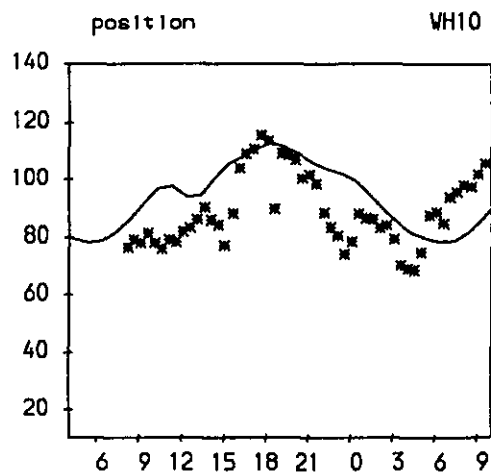
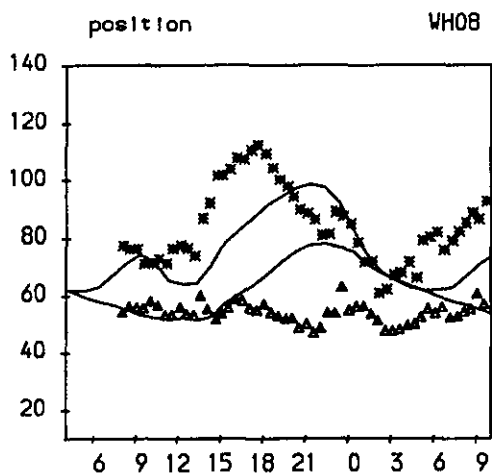
Green Island Wet Neap calibration 12/11/93

Dissolved Oxygen (% saturation) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



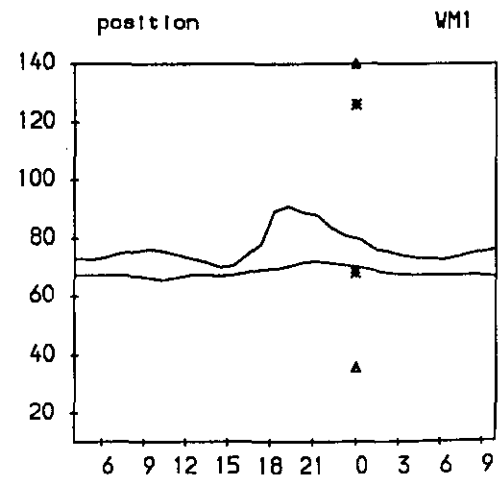
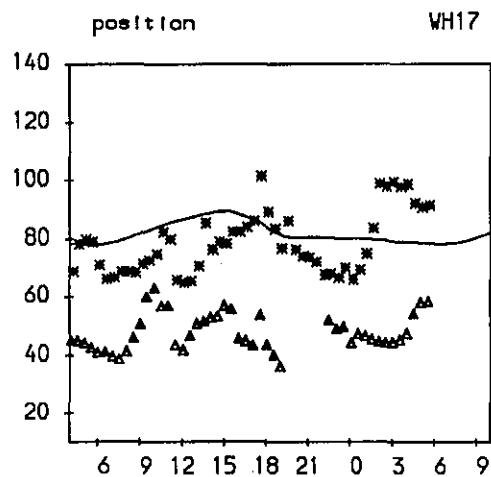
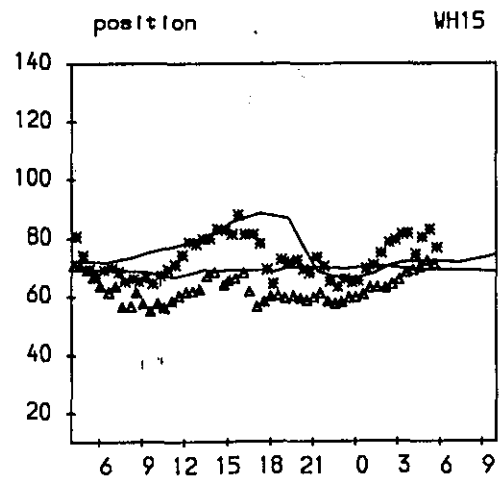
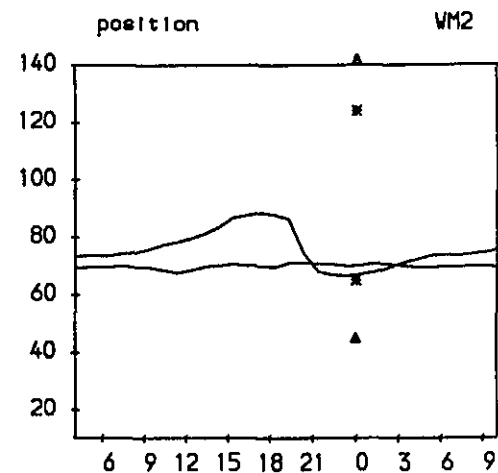
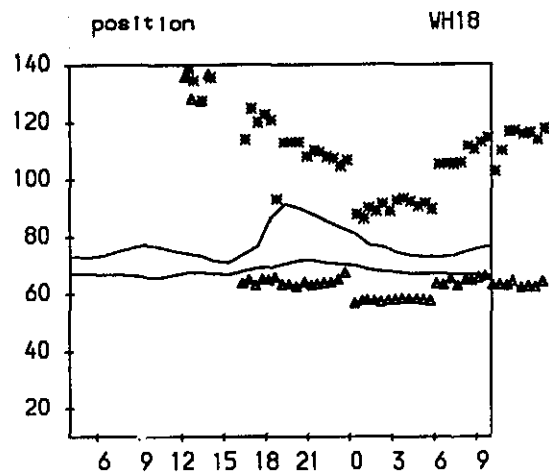
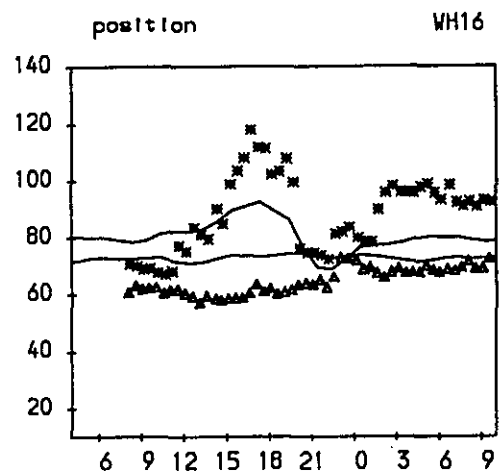
Green Island Wet Neap calibration 12/11/93

Dissolved Oxygen (% saturation) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



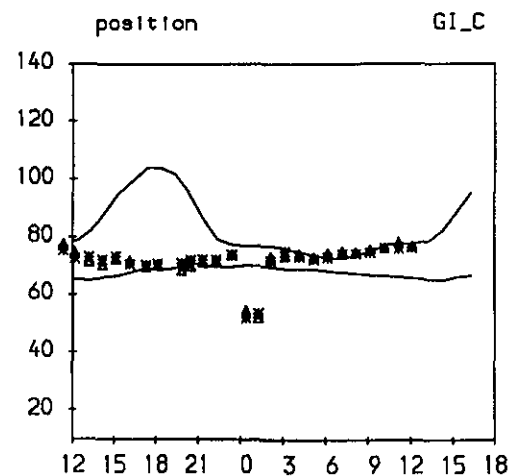
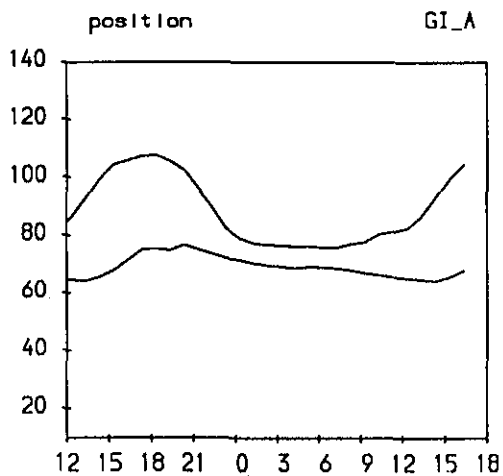
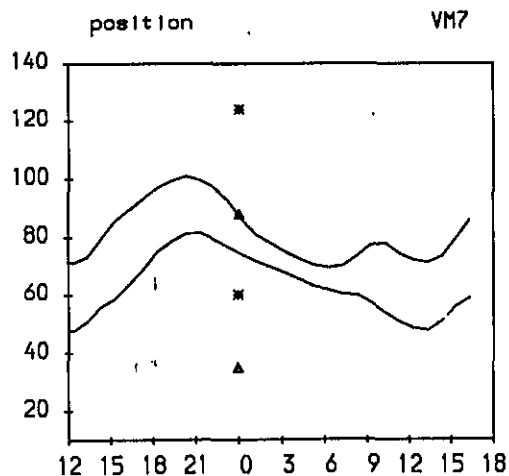
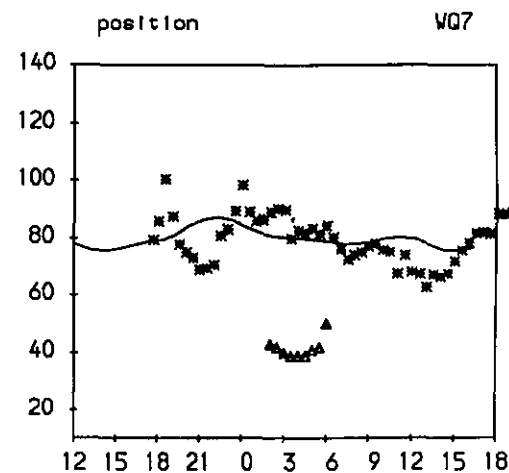
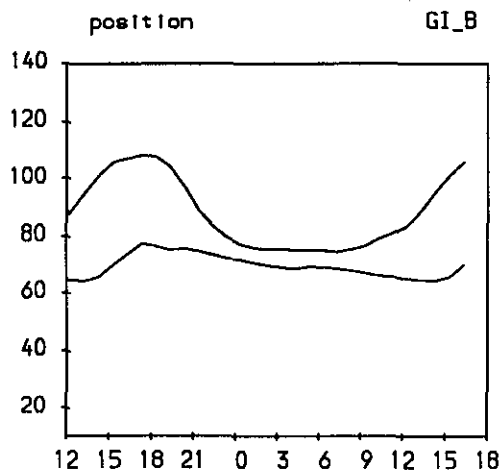
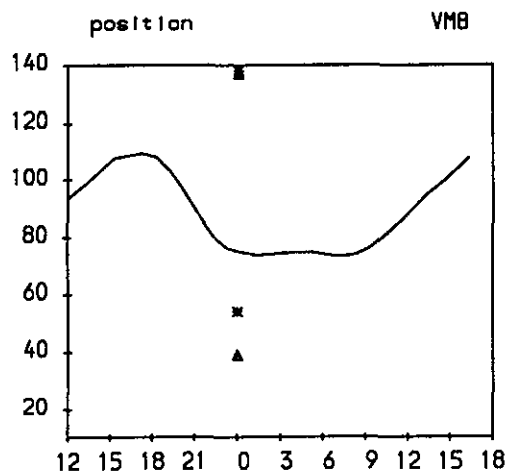
Green Island Wet Neap calibration 12/11/93

Dissolved Oxygen (% saturation) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



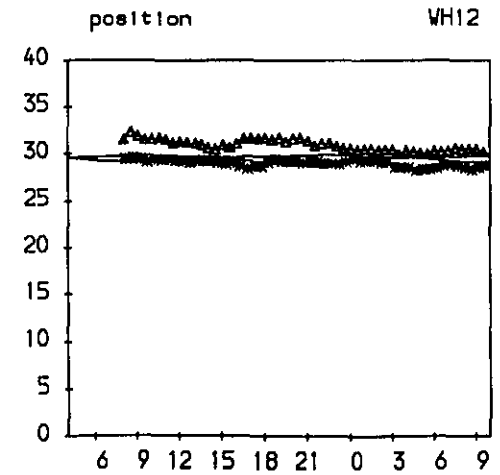
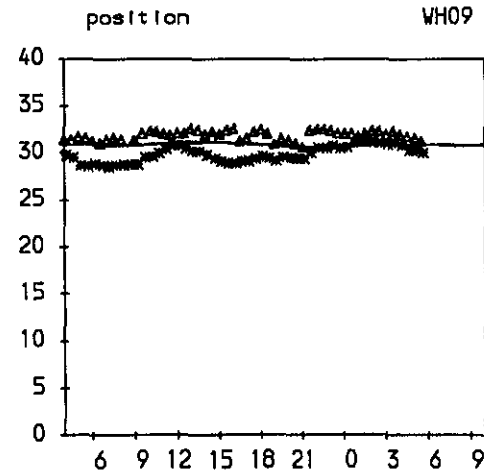
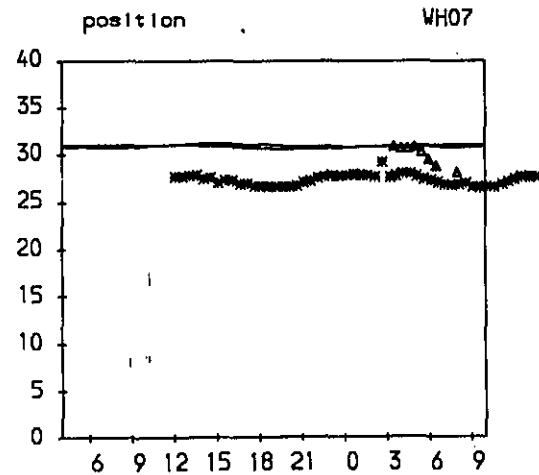
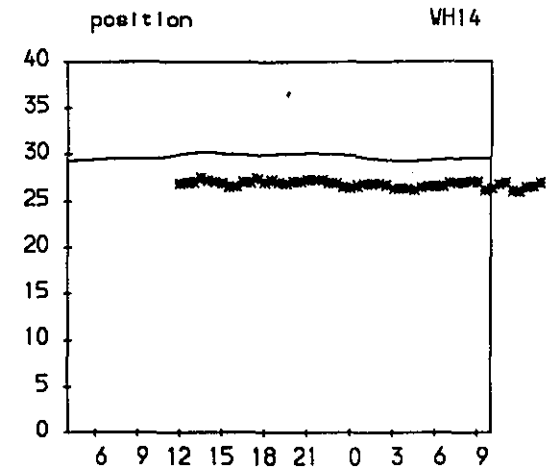
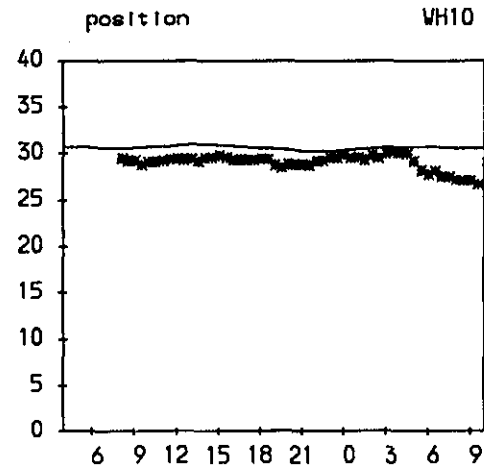
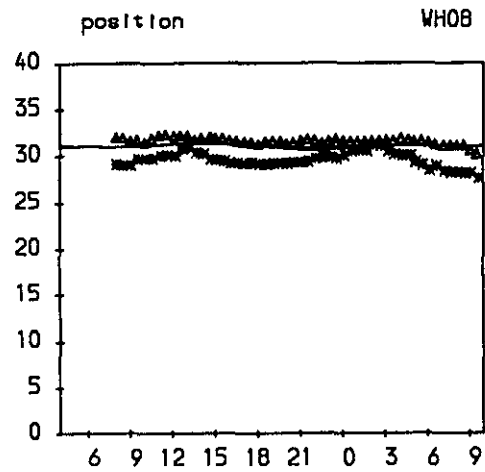
Green Island Wet Neap calibration 12/11/93

Salinity (g/kg) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



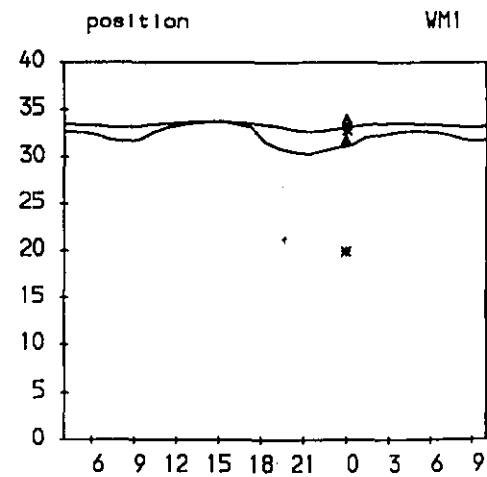
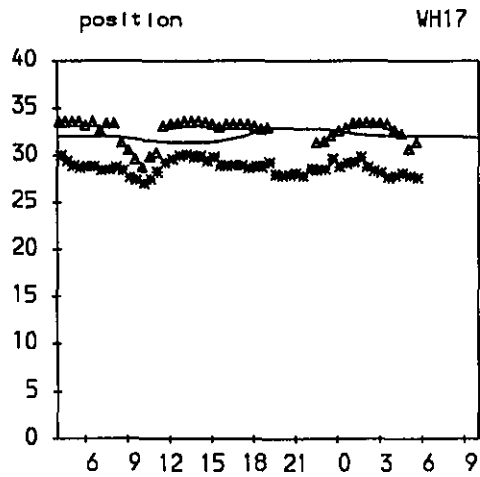
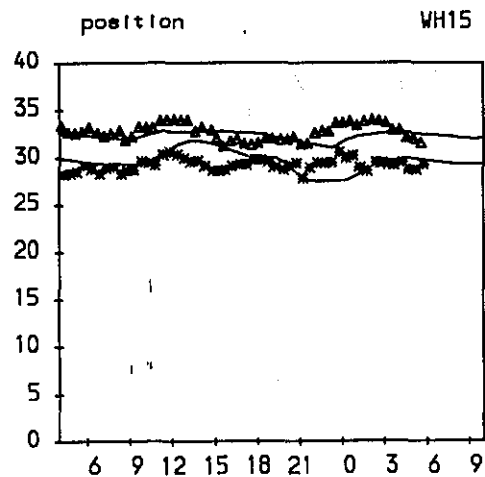
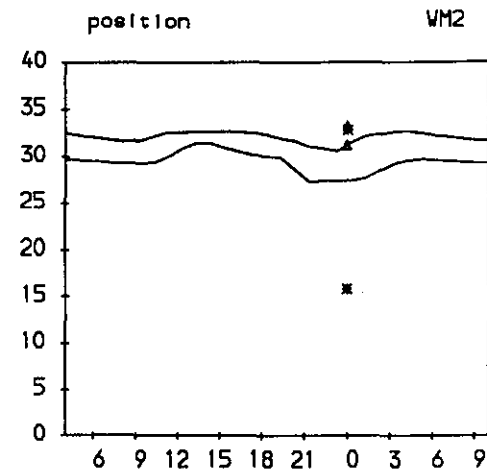
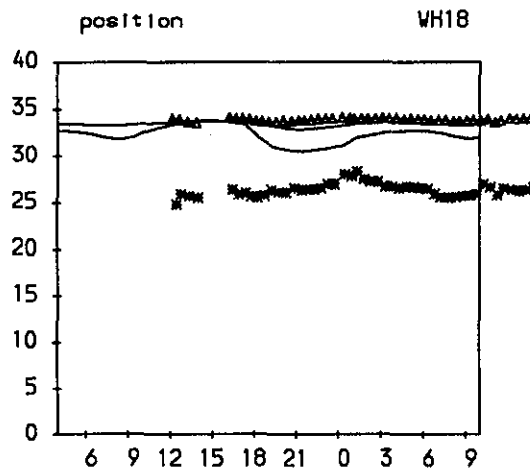
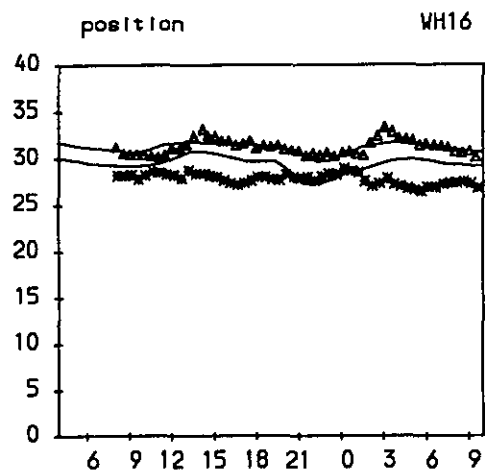
Green Island Wet Neap calibration 12/11/93

Salinity (g/kg) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



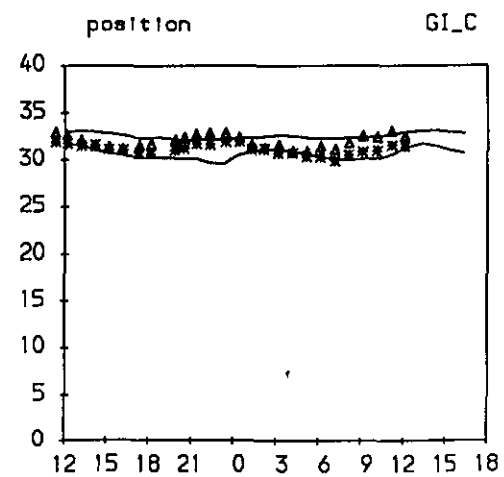
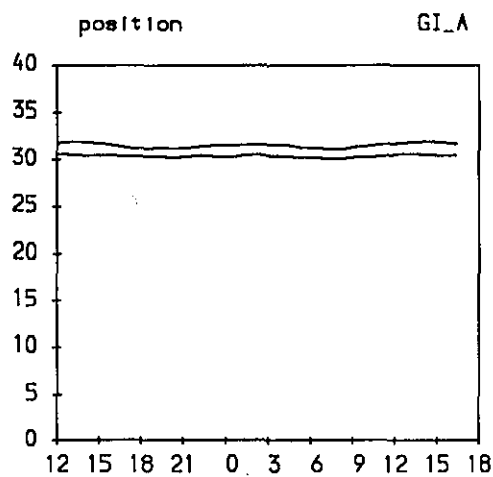
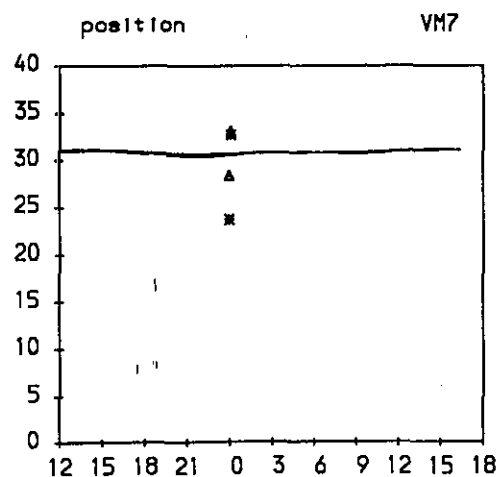
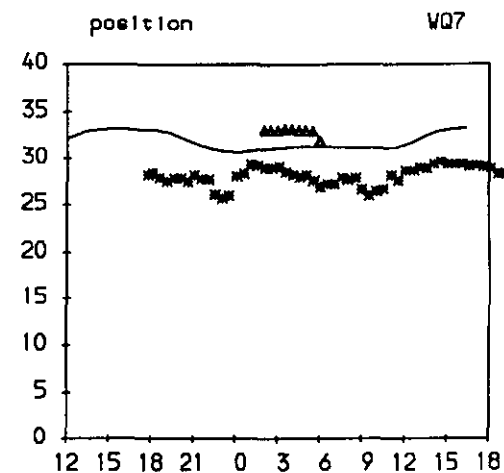
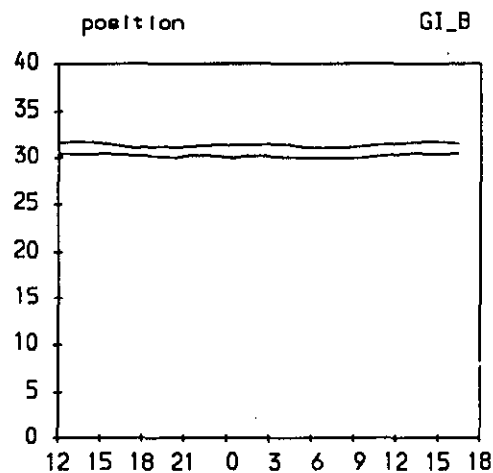
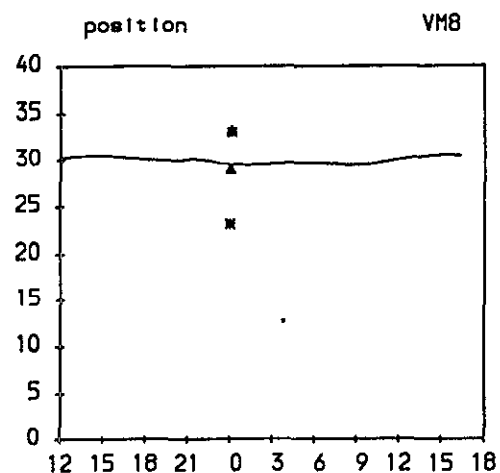
Green Island Wet Neap calibration 12/11/93

Salinity (g/kg) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



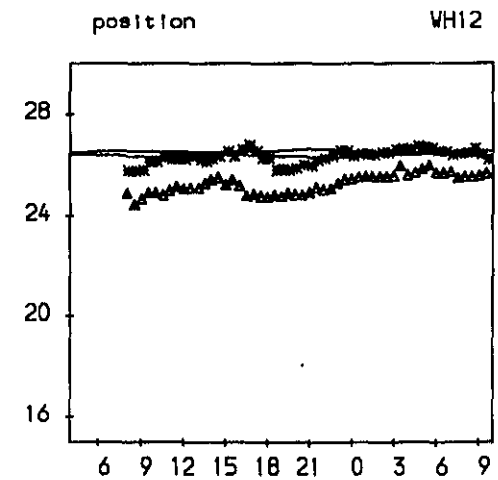
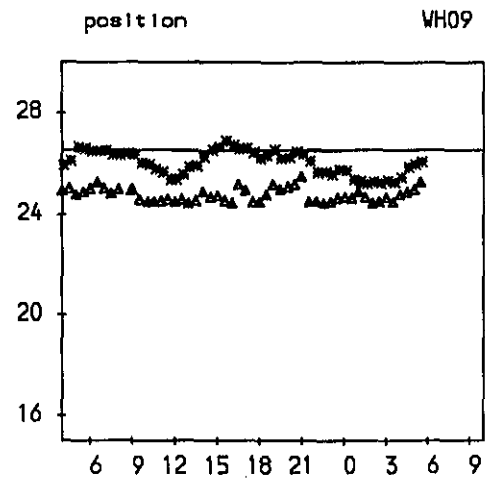
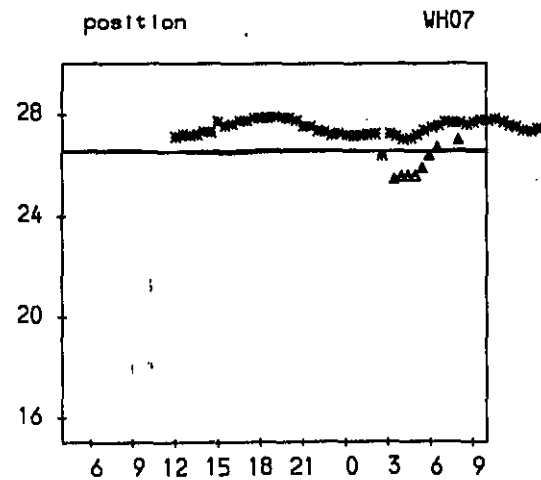
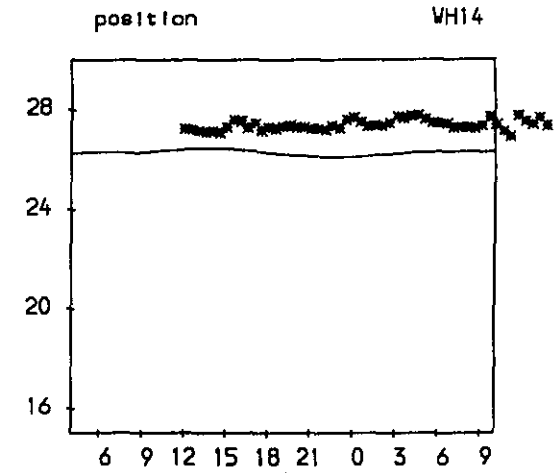
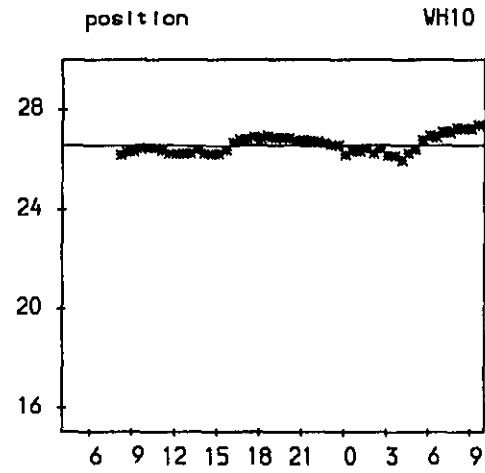
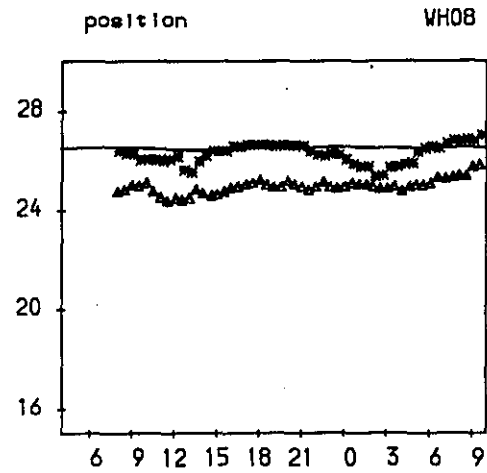
Green Island Wet Neap calibration 12/11/93

Temperature (degrees C) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



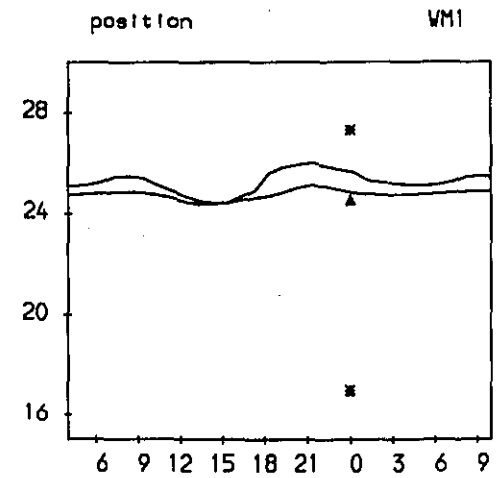
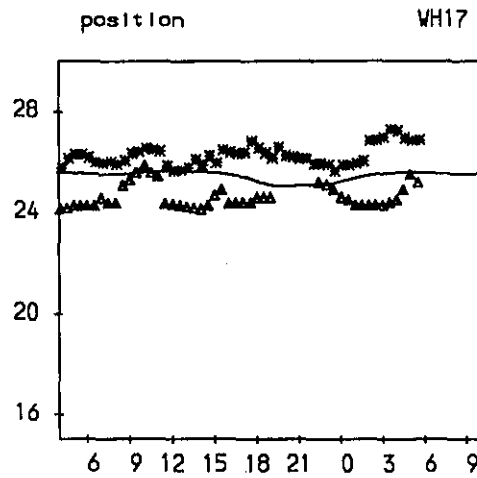
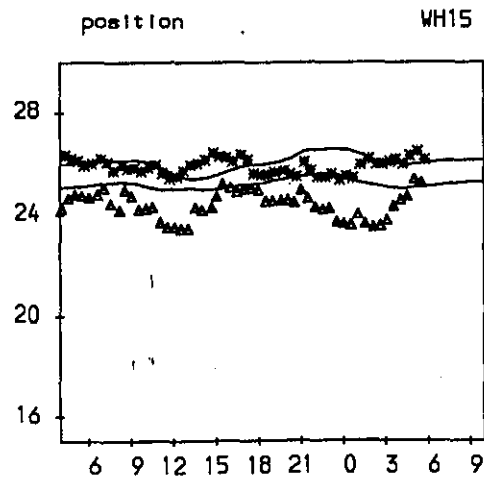
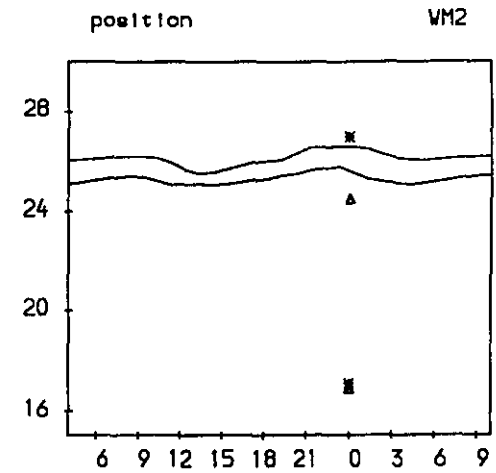
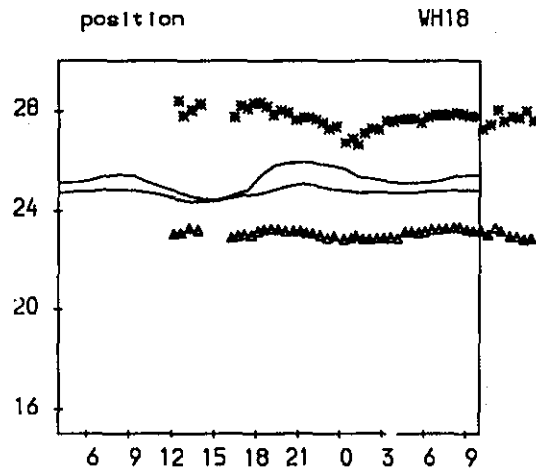
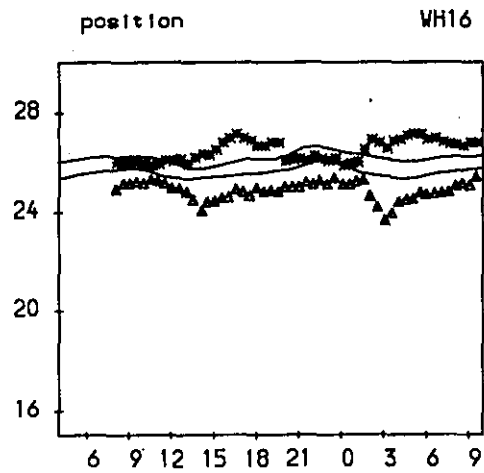
Green Island Wet Neap calibration 12/11/93

Temperature (degrees C) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



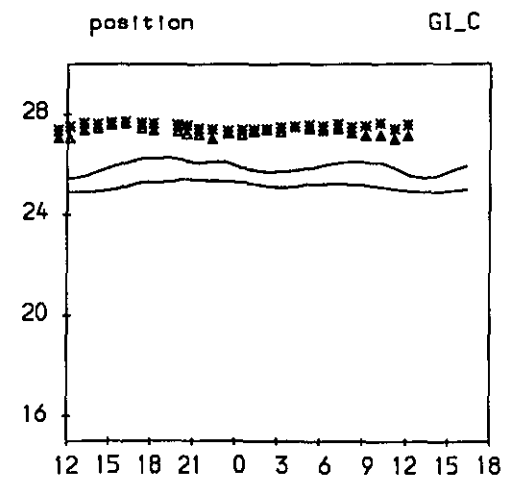
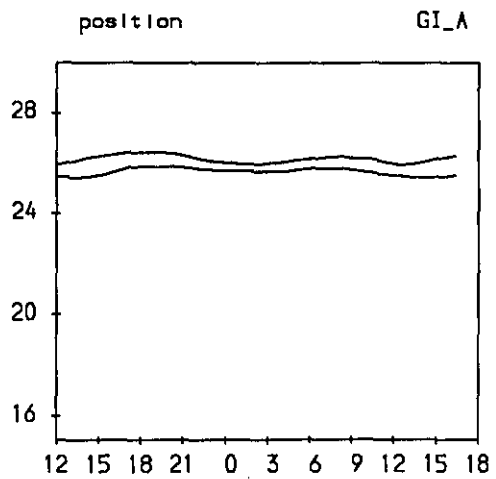
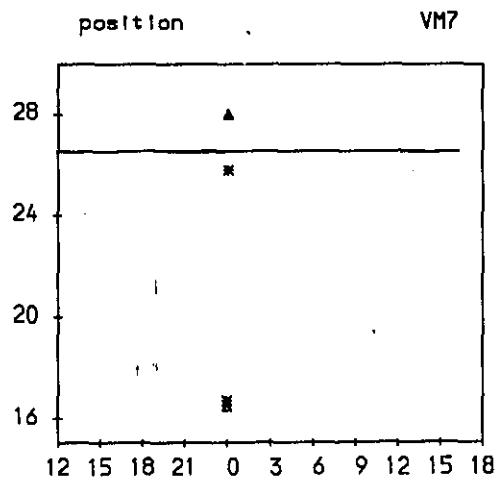
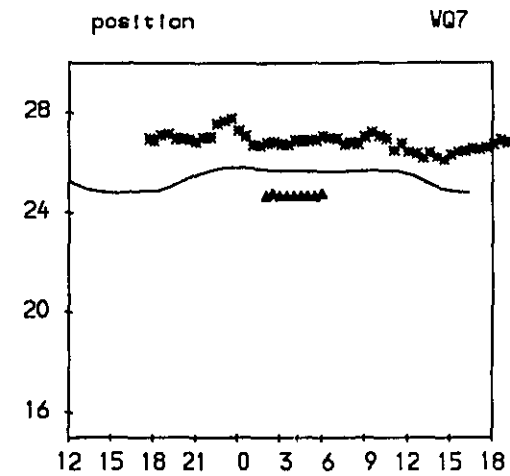
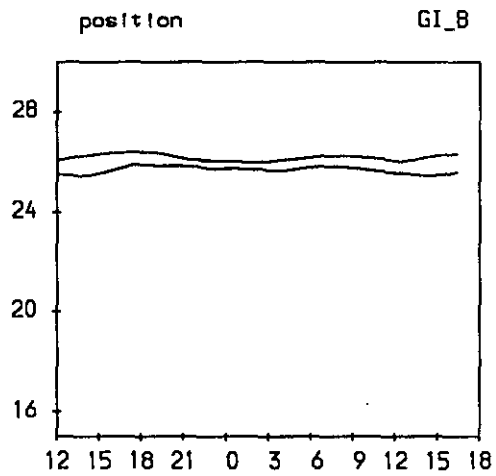
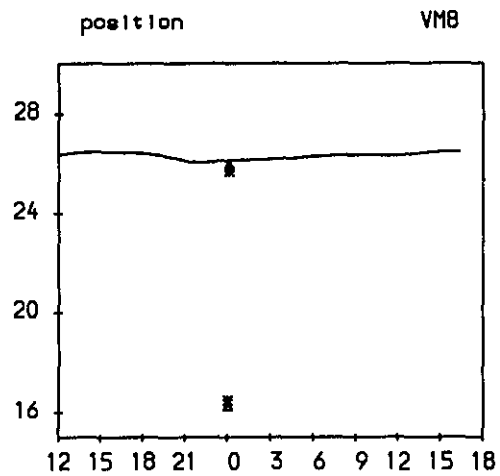
Green Island Wet Neap calibration 12/11/93

Temperature (degrees C) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



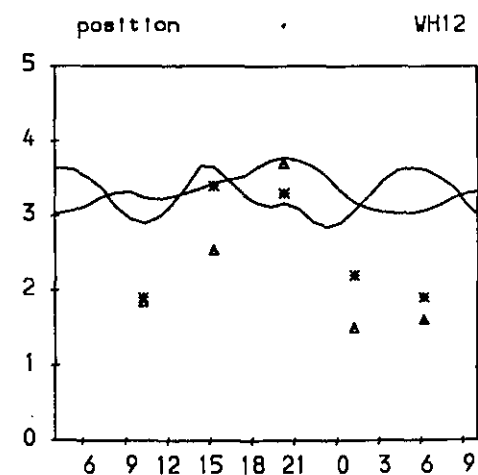
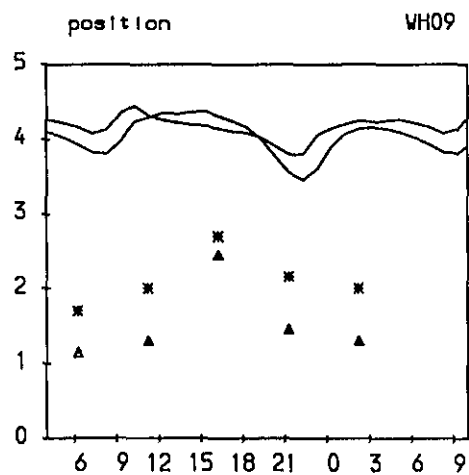
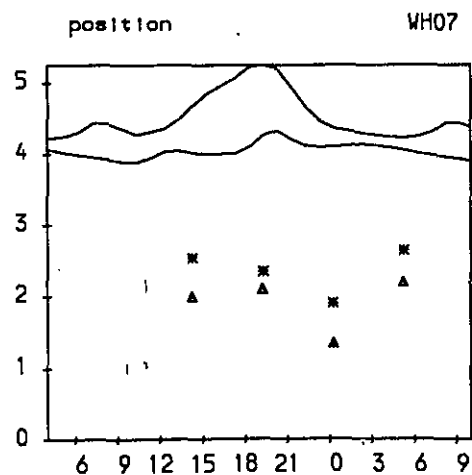
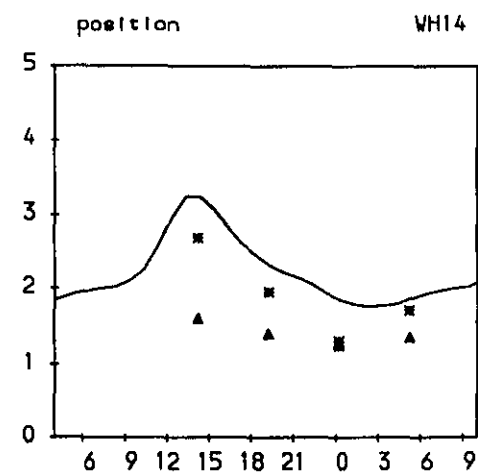
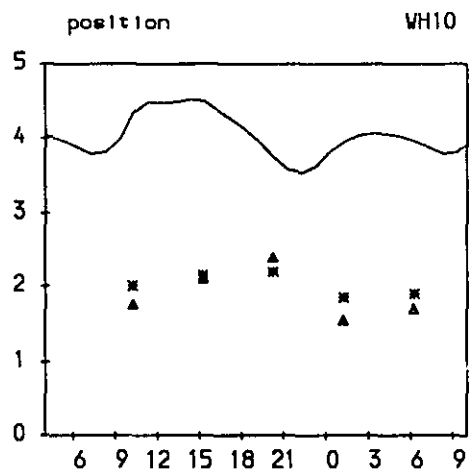
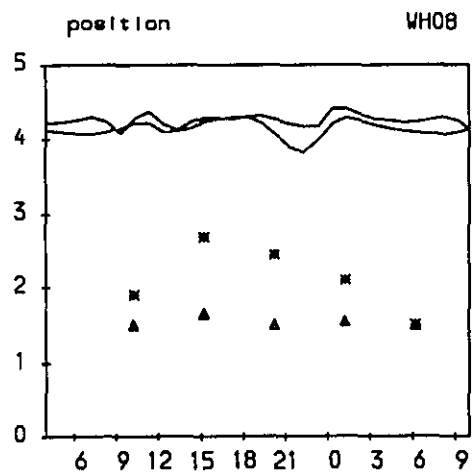
Green Island Wet Neap calibration 12/11/93

BOD (mg/l) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



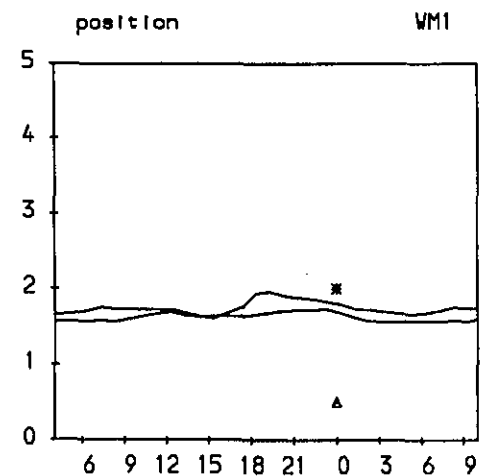
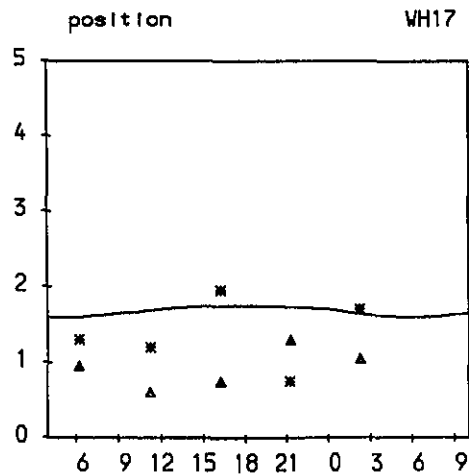
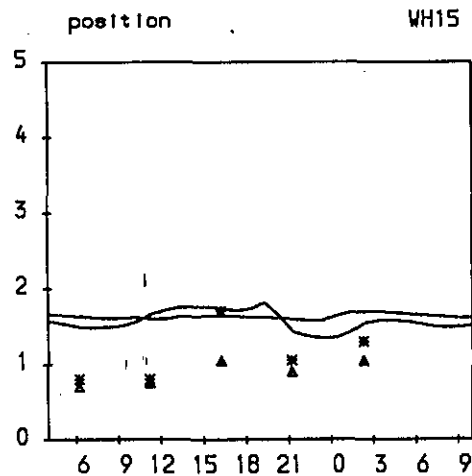
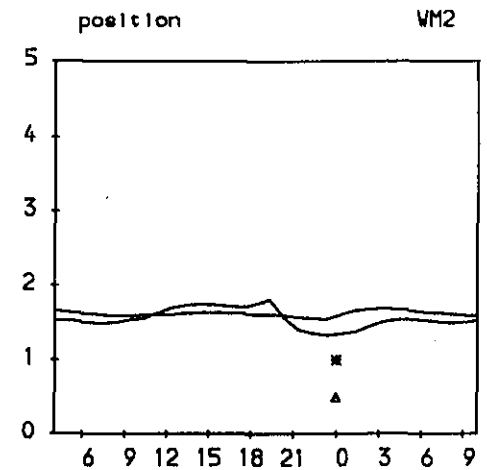
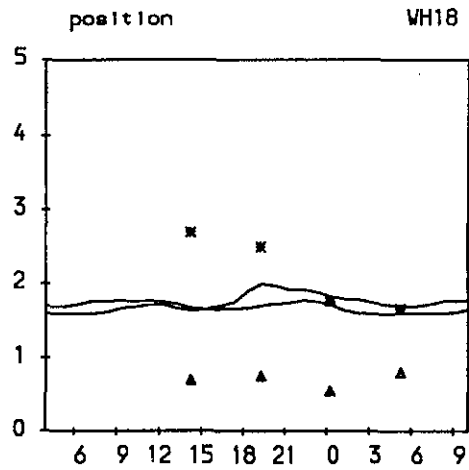
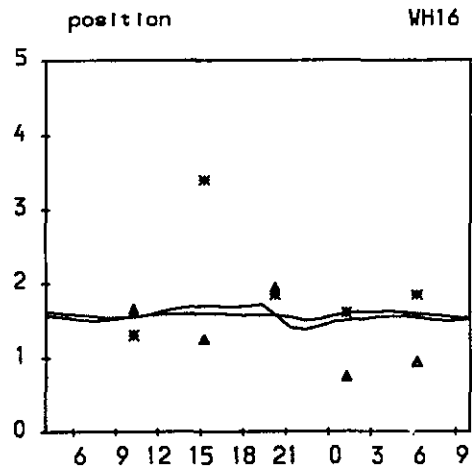
Green Island Wet Neap calibration 12/11/93

BOD (mg/L) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



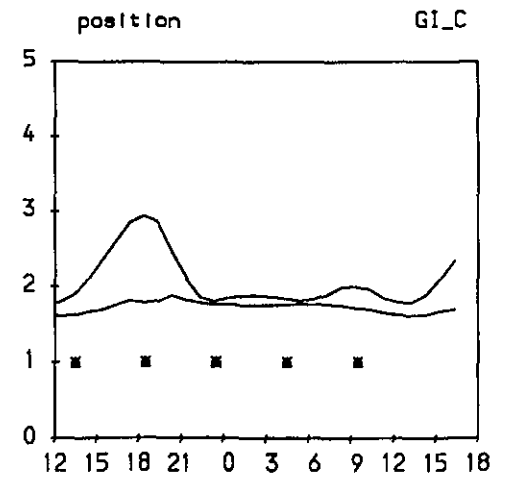
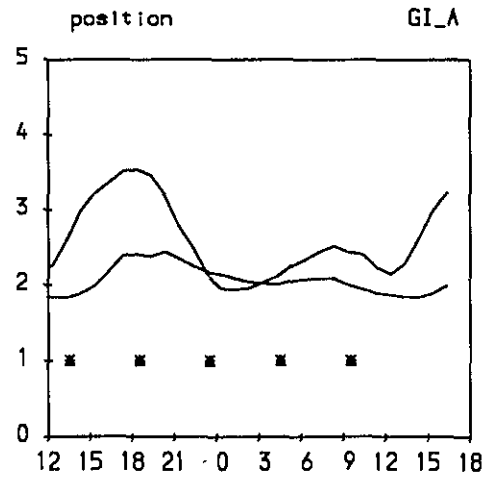
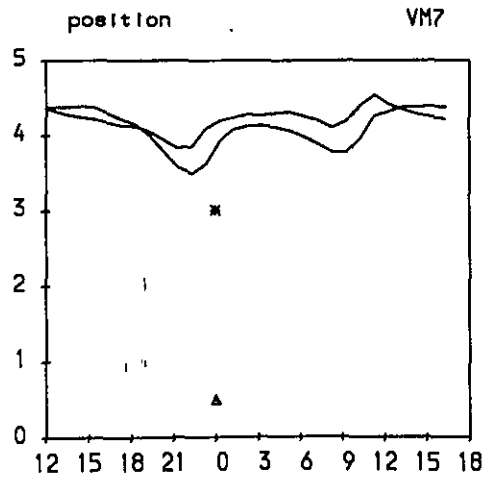
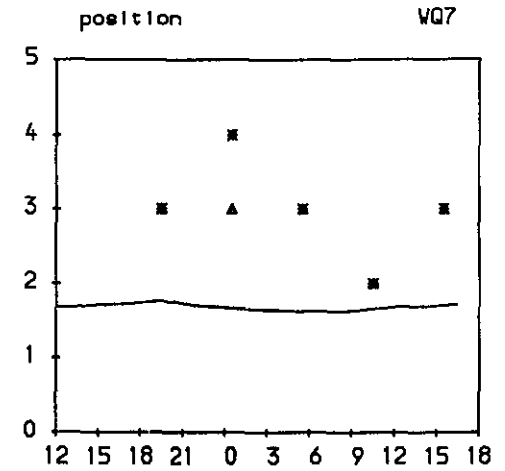
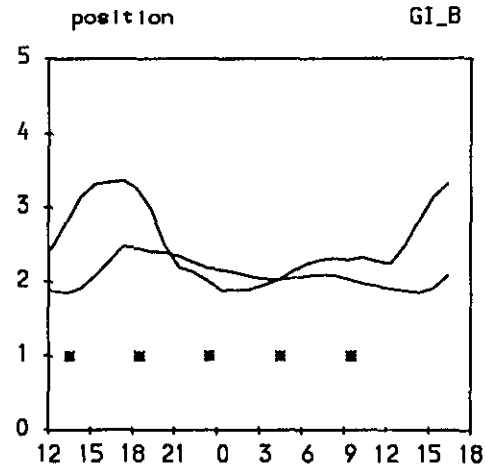
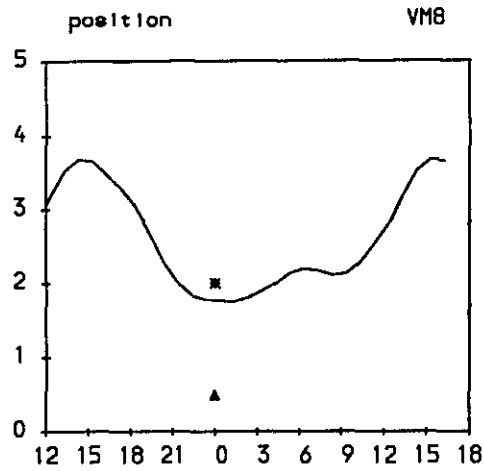
Green Island Wet Neap calibration 12/11/93

BOD (mg/L) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



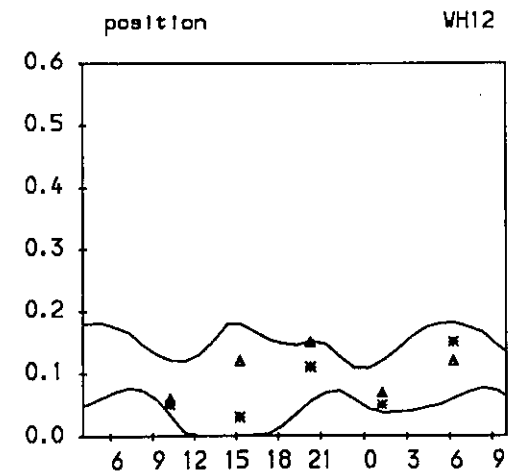
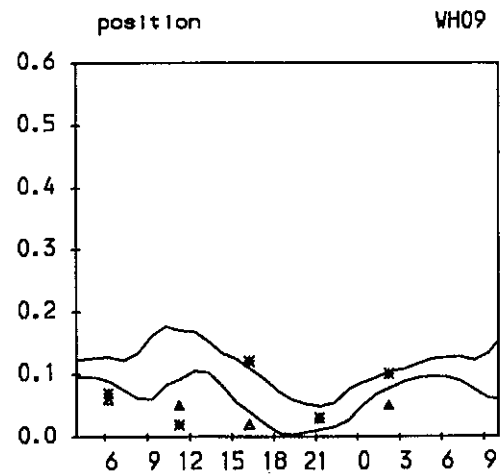
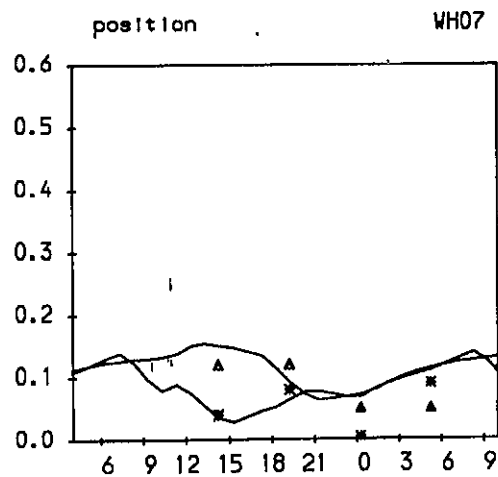
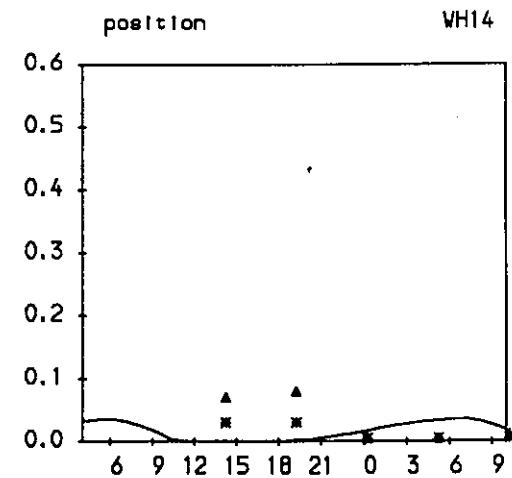
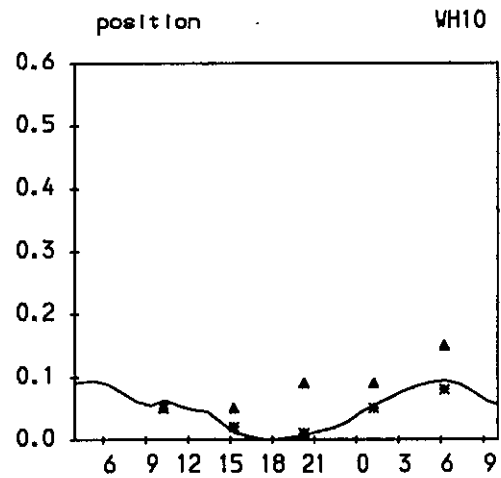
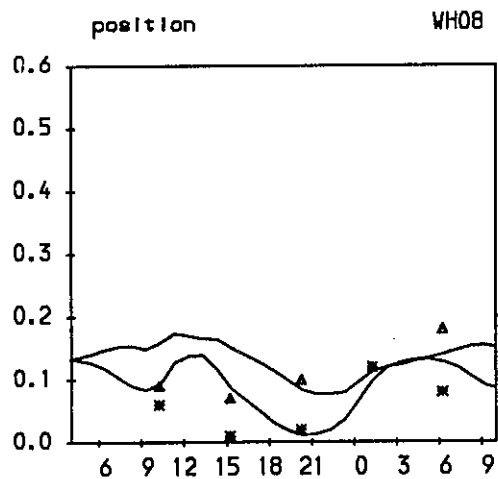
Green Island Wet Neap calibration 12/11/93

Ammoniacal Nitrogen (mg N/l) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



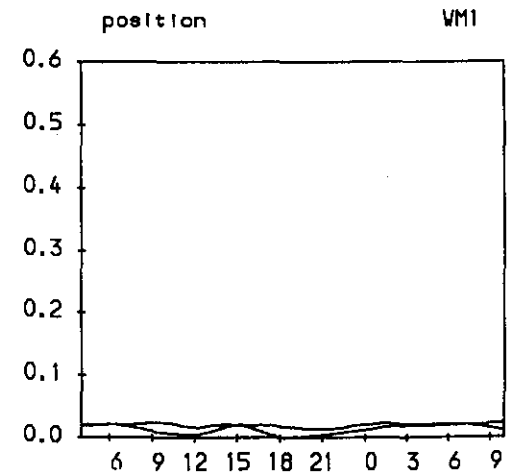
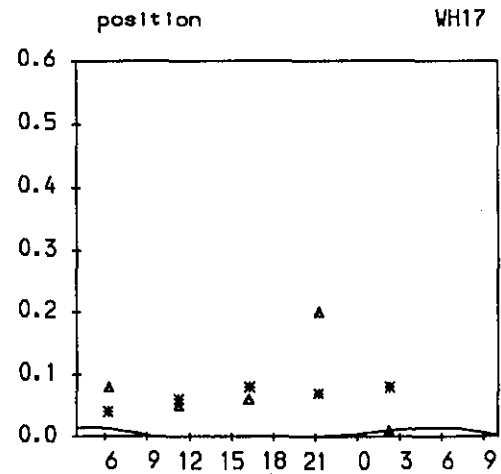
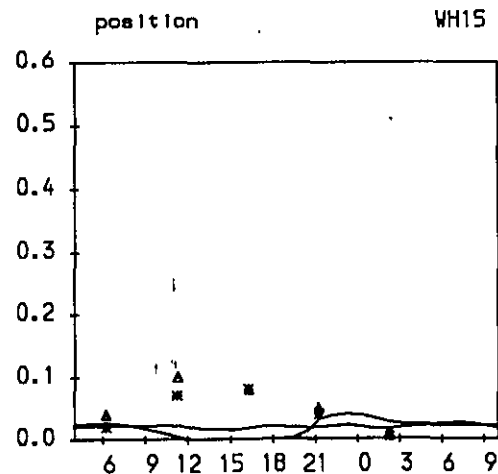
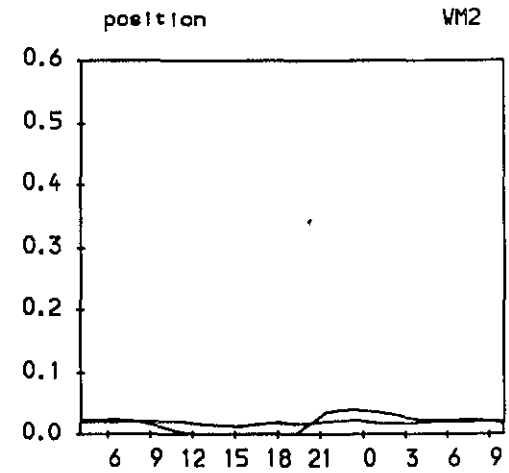
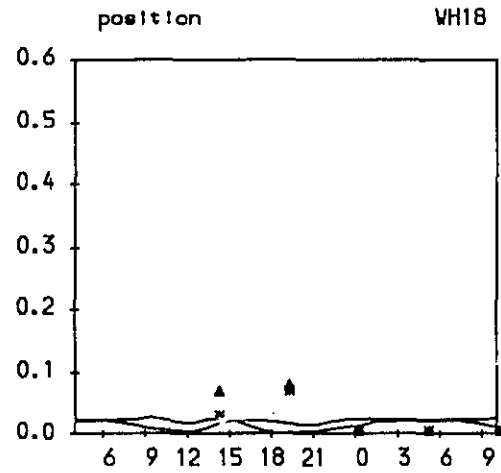
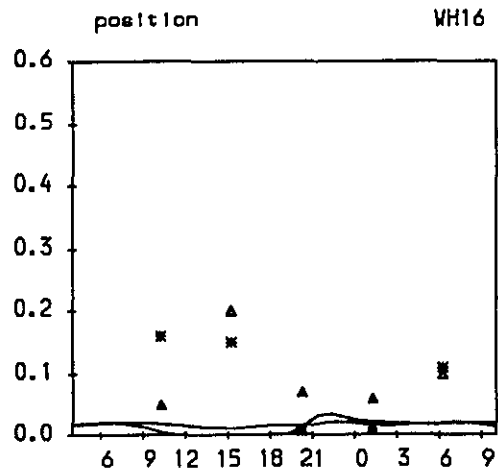
Green Island Wet Neap calibration 12/11/93

Ammoniacal Nitrogen (mg N/L) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



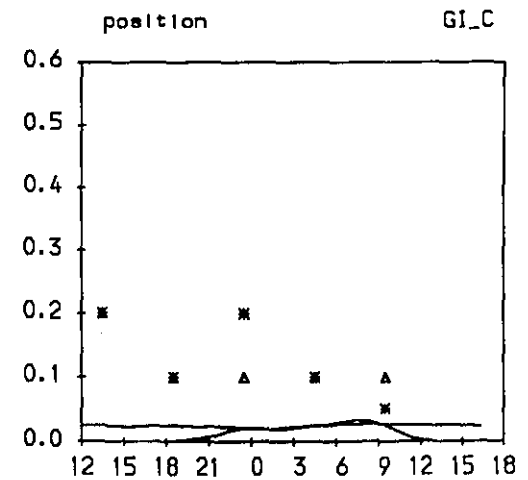
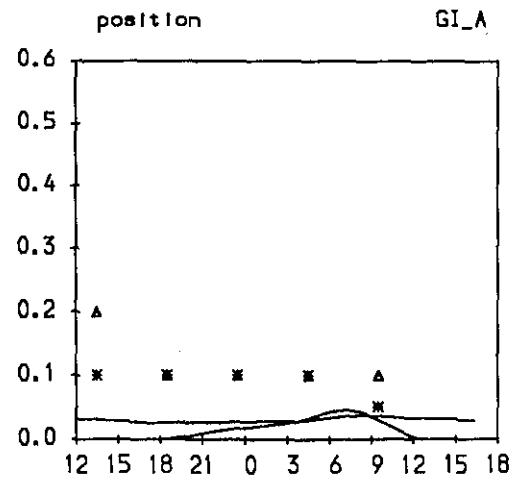
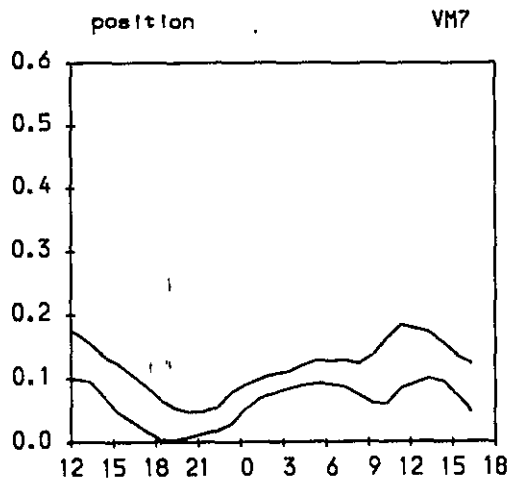
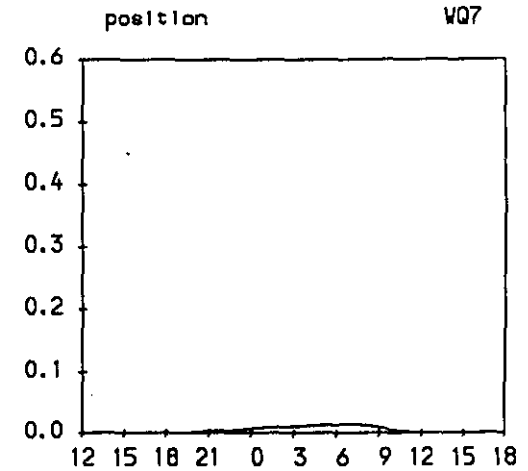
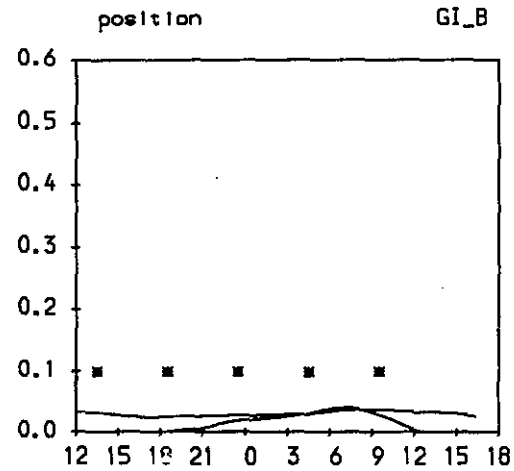
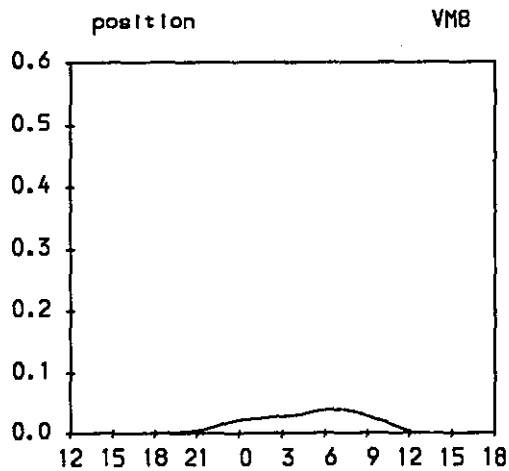
Green Island Wet Neap calibration 12/11/93

Ammoniacal Nitrogen (mg N/L) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



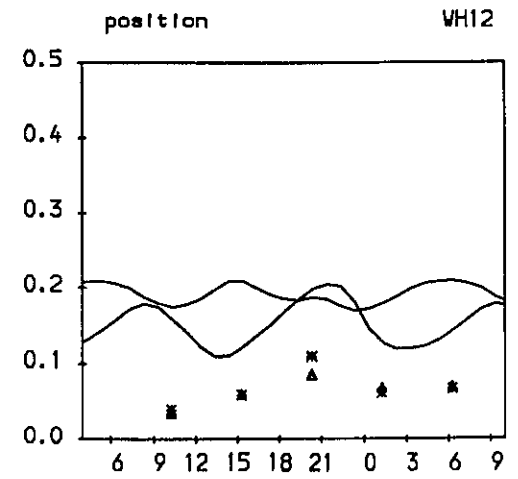
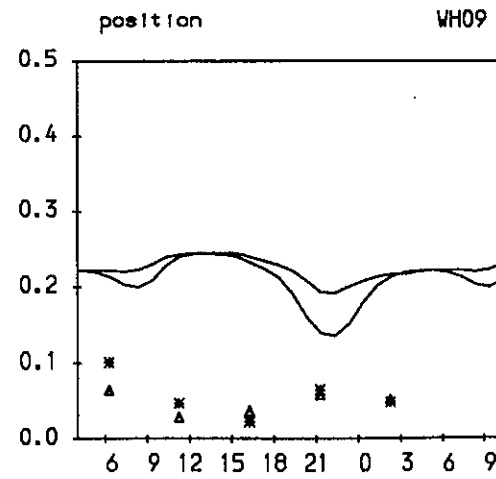
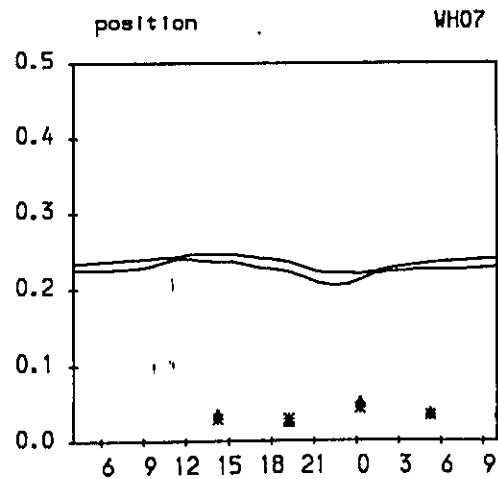
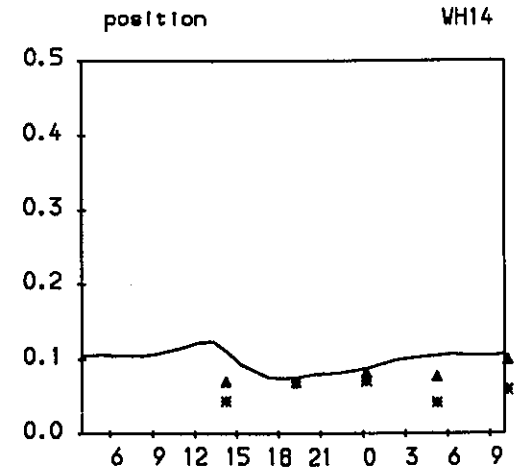
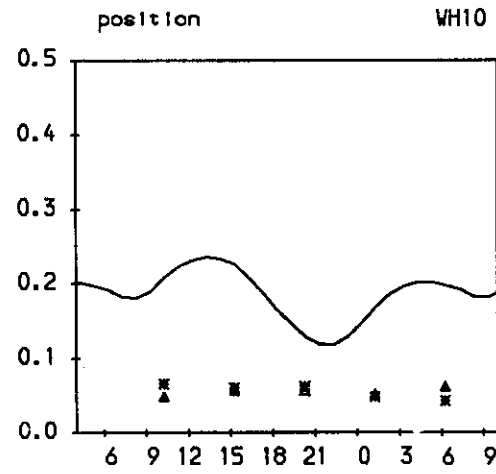
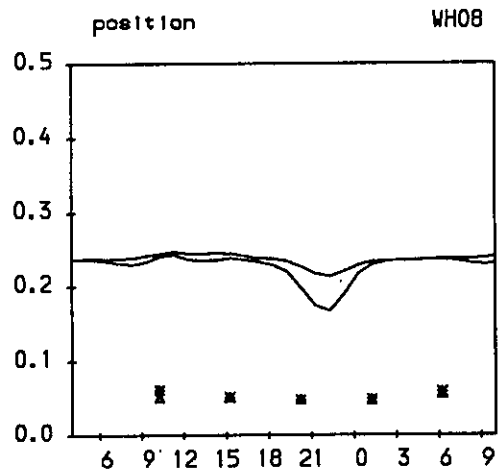
Green Island Wet Neap calibration 12/11/93

Oxidised Nitrogen (mg N/L) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



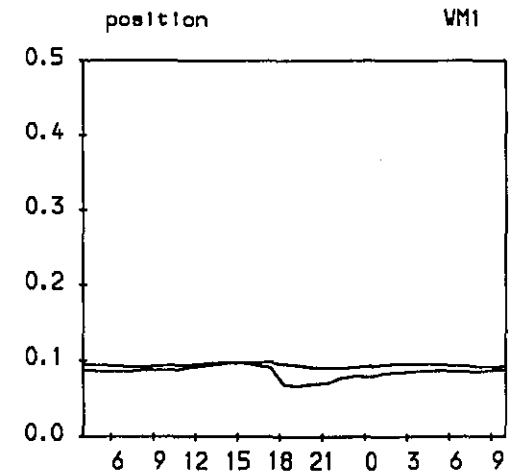
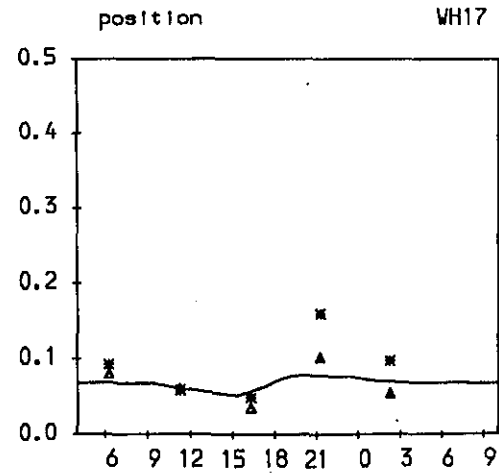
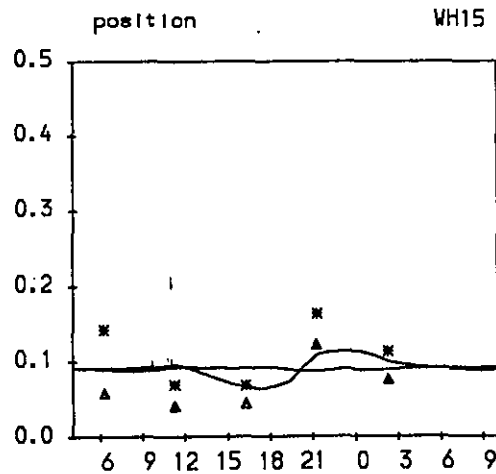
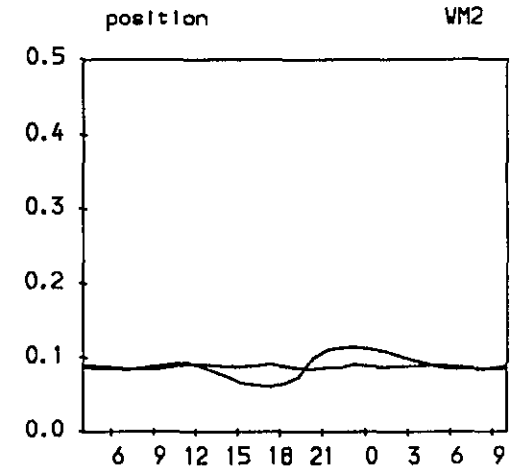
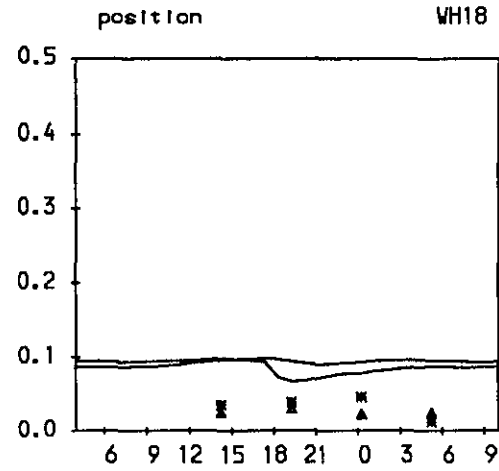
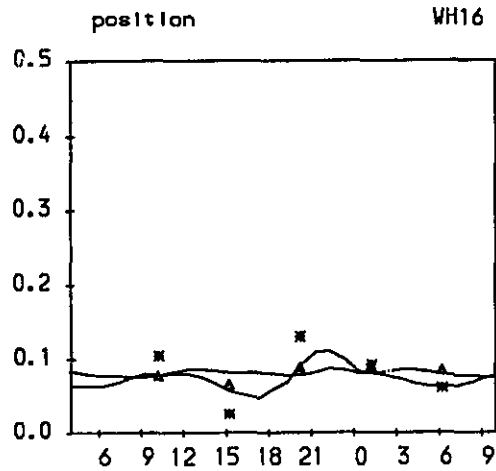
Green Island Wet Neap calibration 12/11/93

Oxidised Nitrogen (mg N/l) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



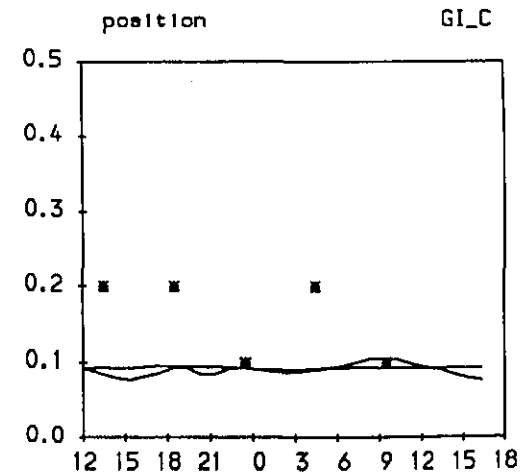
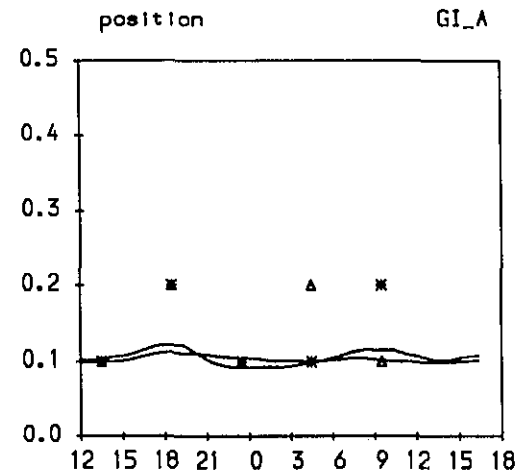
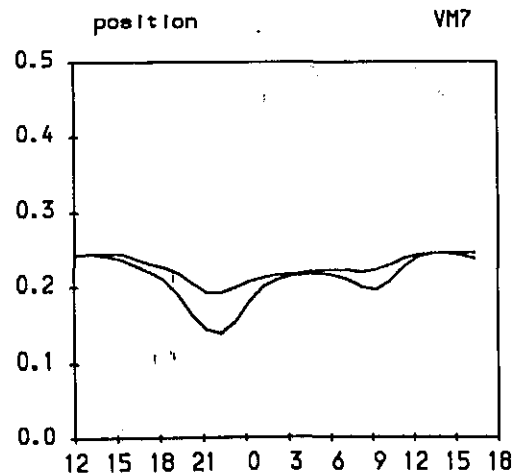
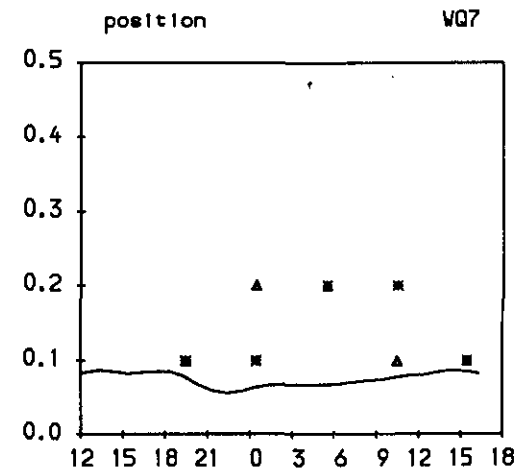
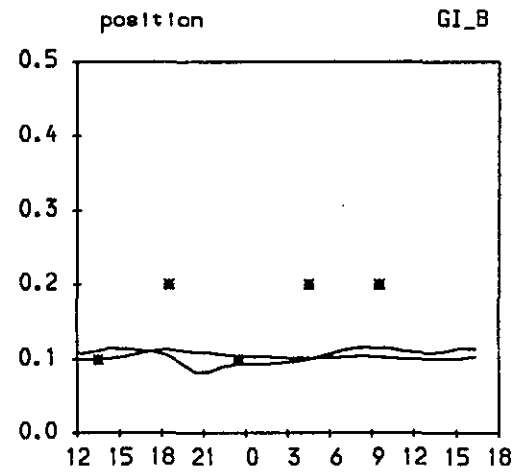
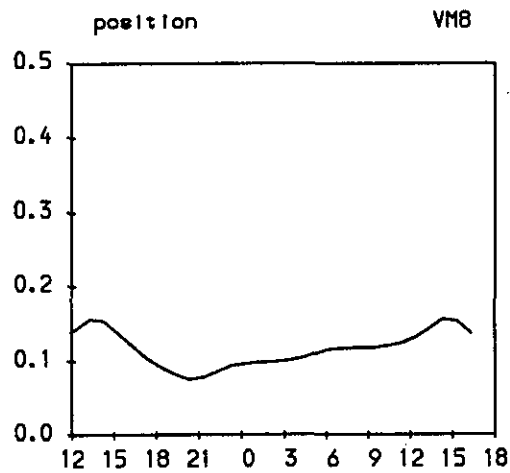
Green Island Wet Neap calibration 12/11/93

Oxidised Nitrogen (mg N/l) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



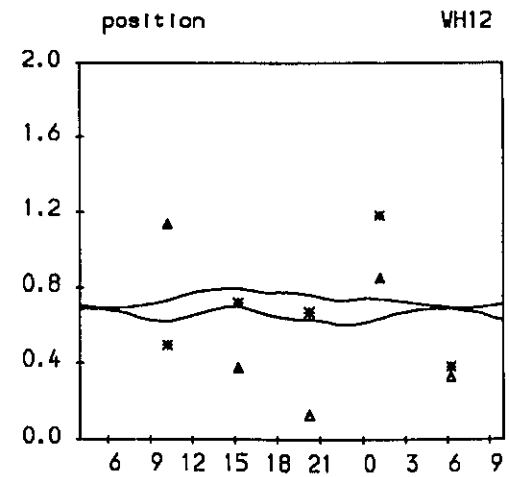
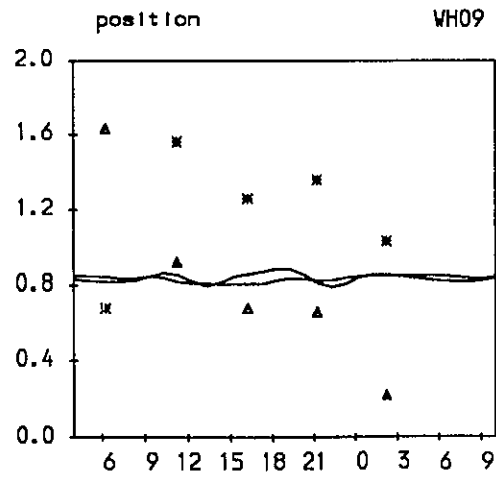
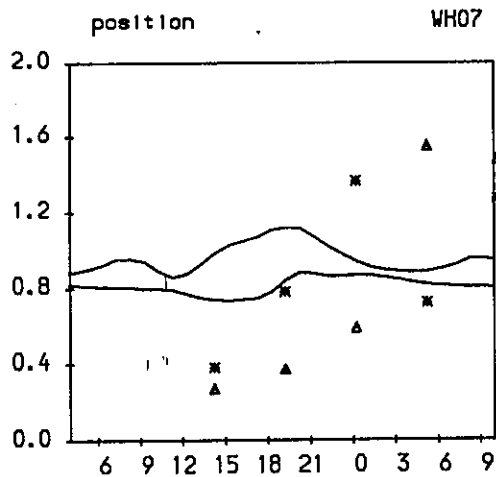
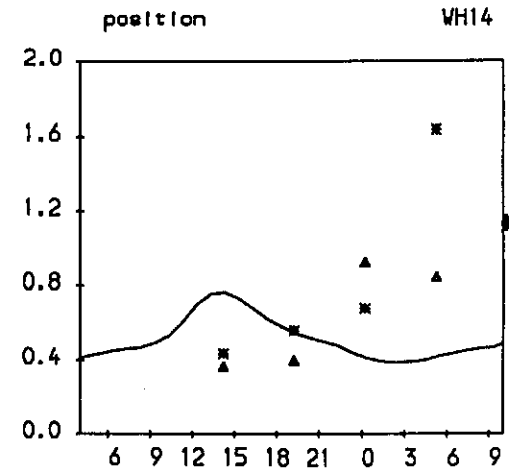
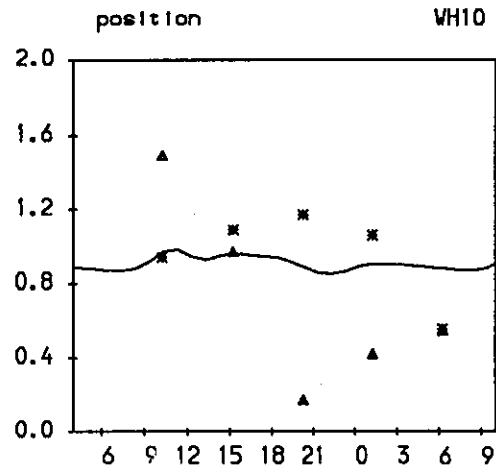
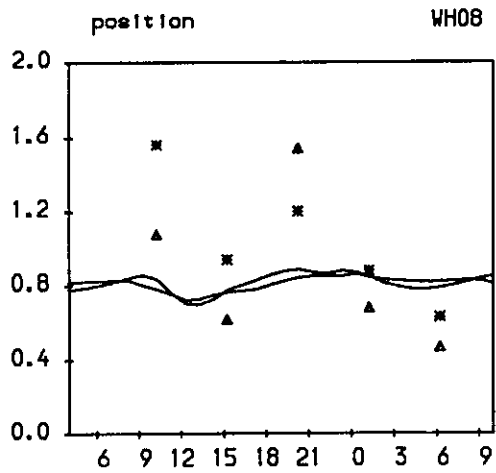
Green Island Wet Neap calibration 12/11/93

Organic Nitrogen (mg N/L) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



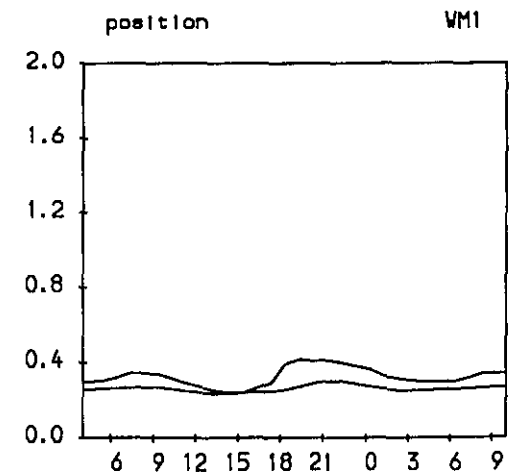
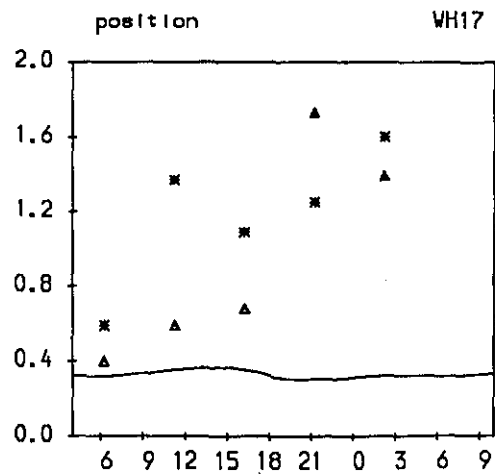
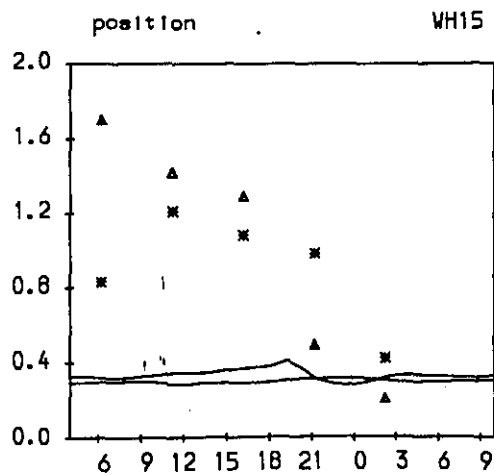
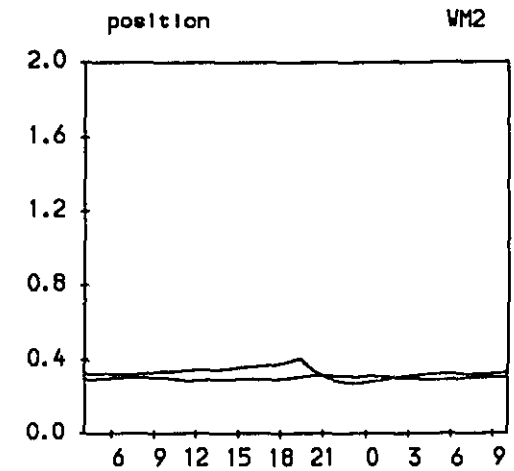
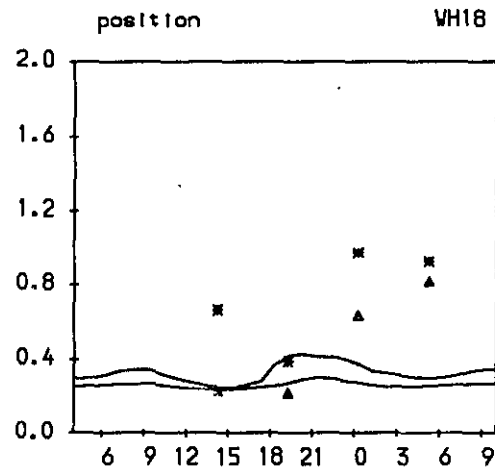
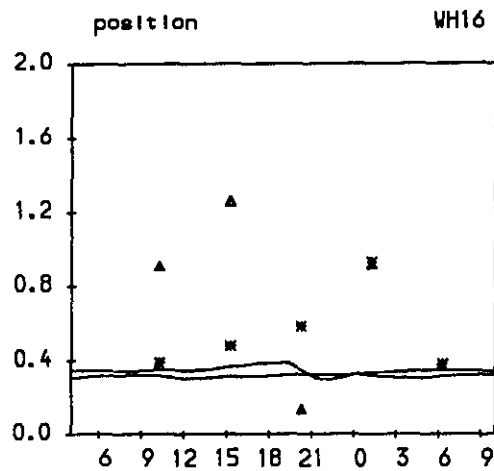
Green Island Wet Neap calibration 12/11/93

Organic Nitrogen (mg N/L) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



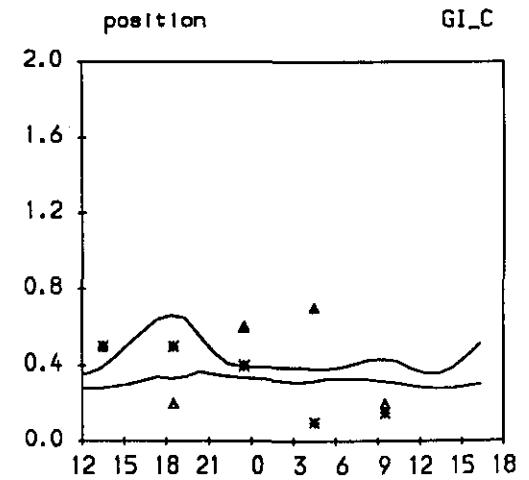
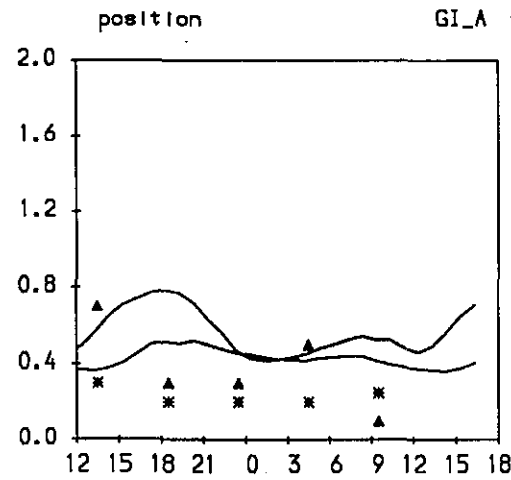
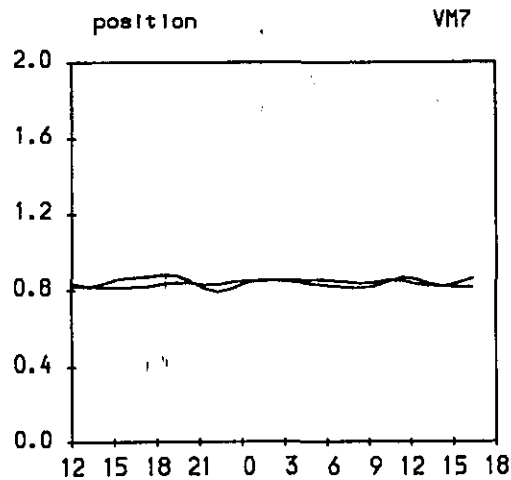
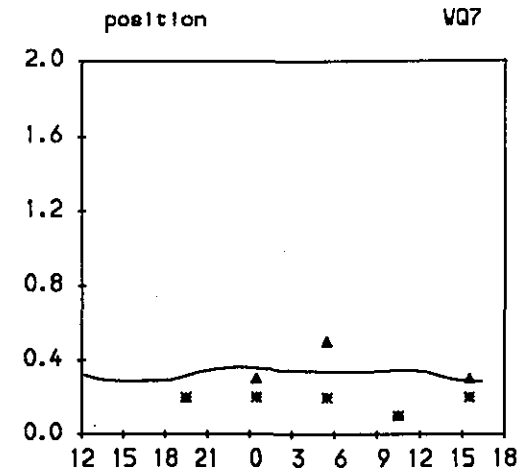
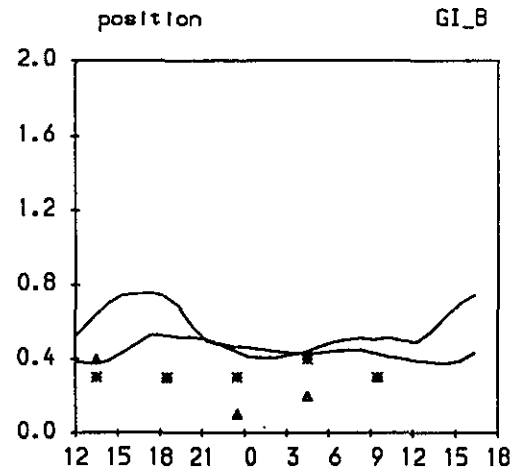
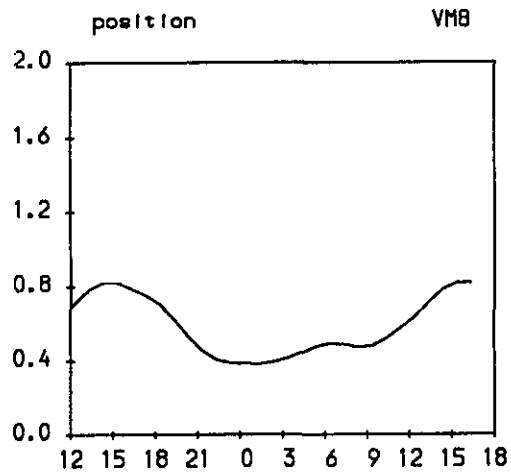
Green Island Wet Neap calibration 12/11/93

Organic Nitrogen (mg N/L) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



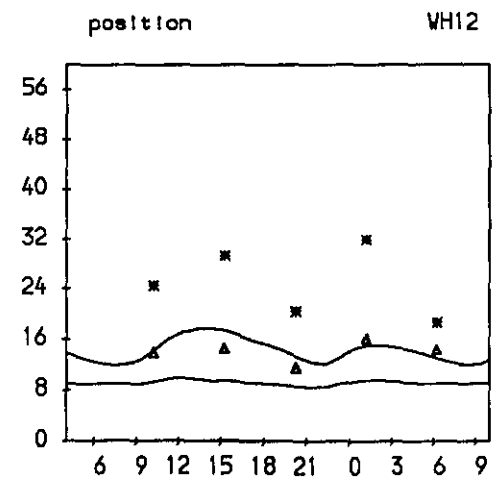
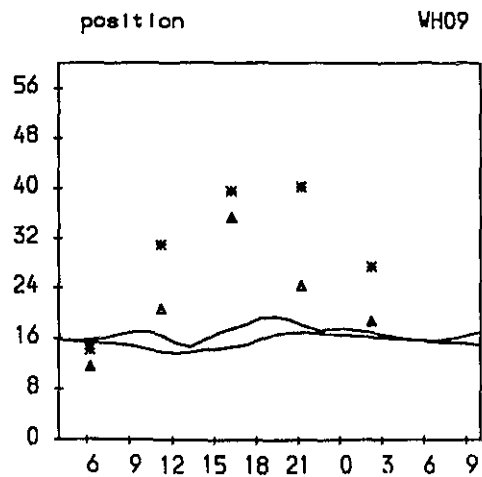
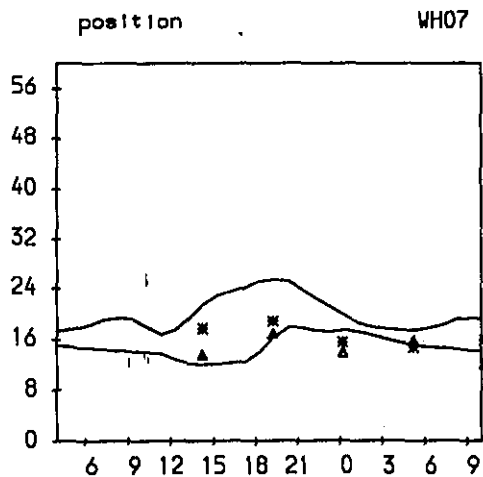
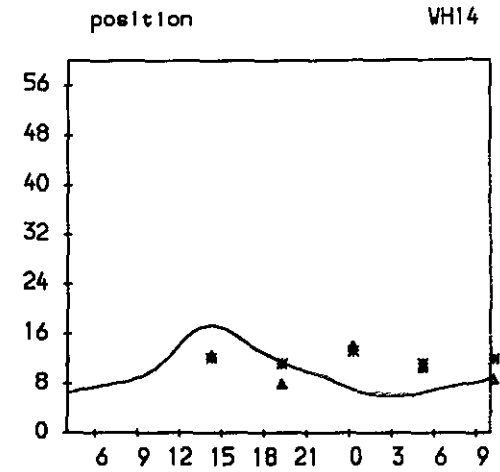
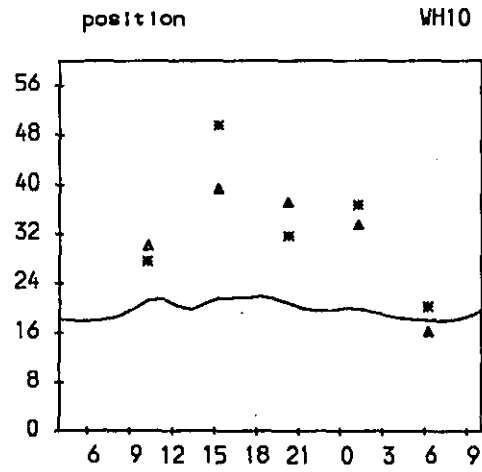
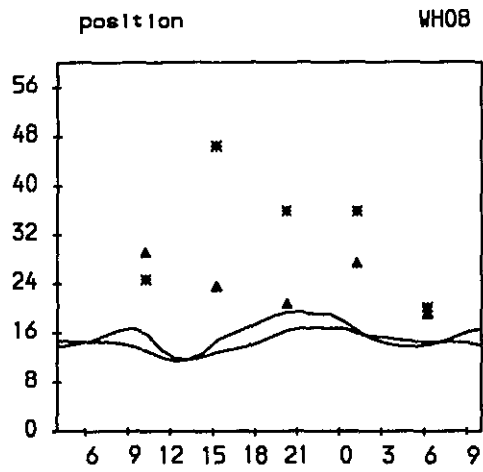
Green Island Wet Neap calibration 12/11/93

Chlorophyll (ug/l) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



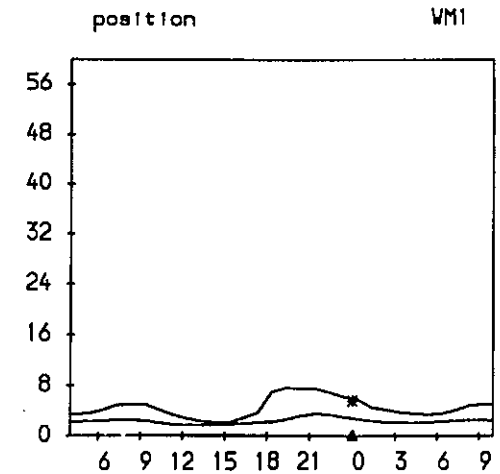
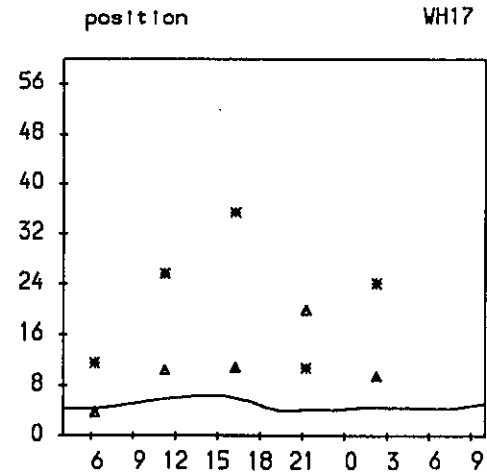
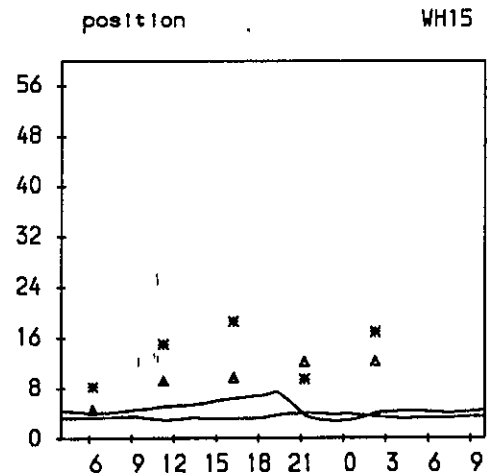
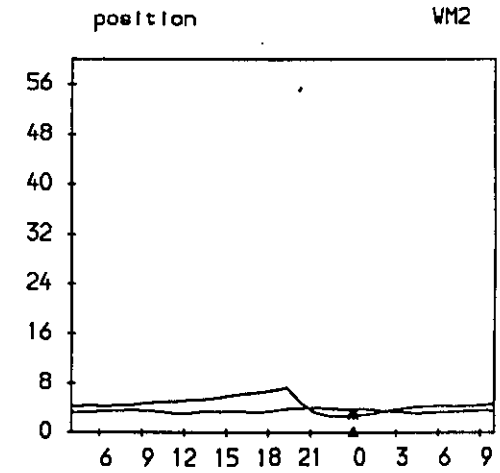
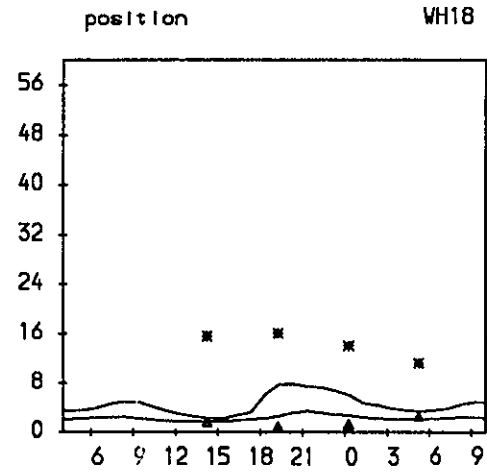
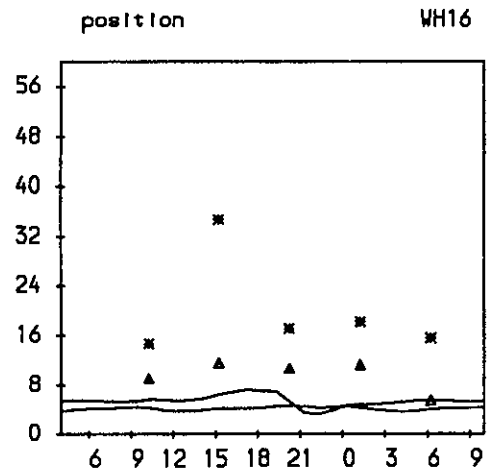
Green Island Wet Neap calibration 12/11/93

Chlorophyll (ug/l) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



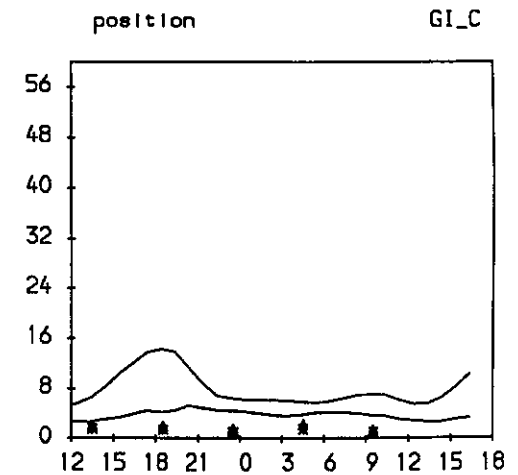
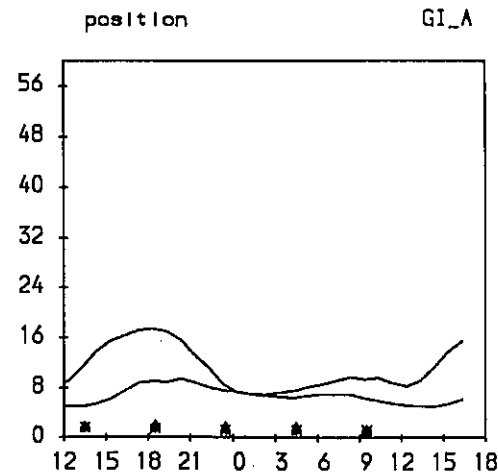
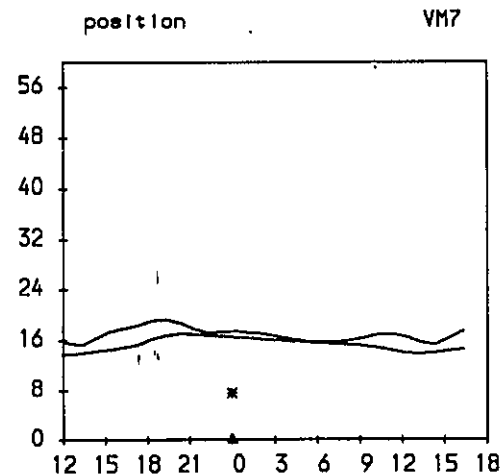
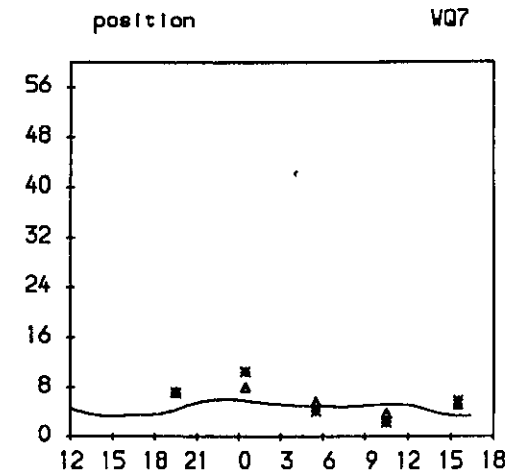
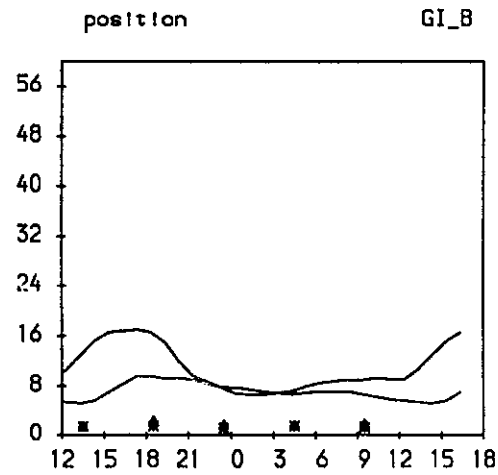
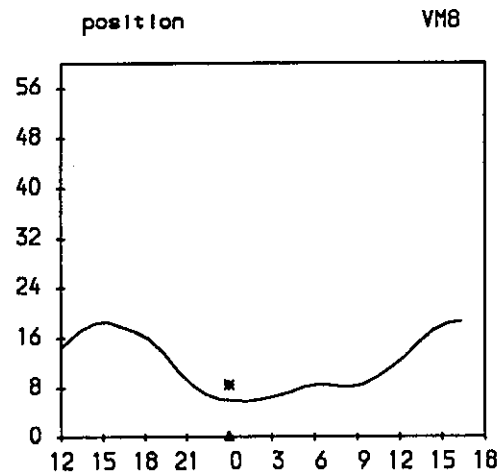
Green Island Wet Neap calibration 12/11/93

Chlorophyll (ug/L) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



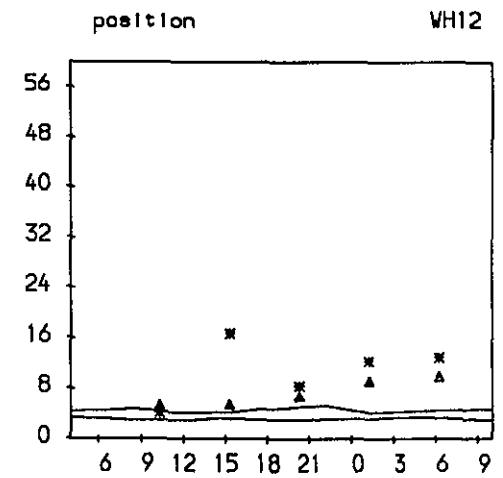
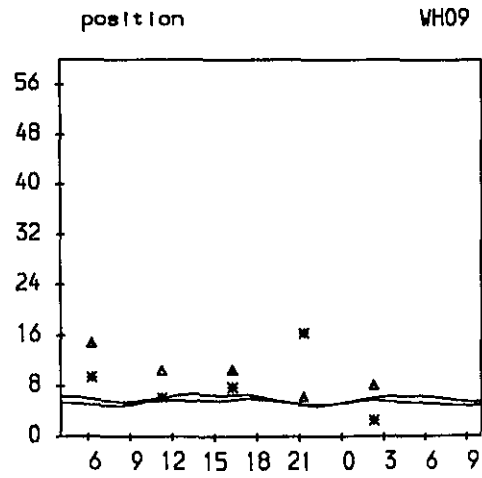
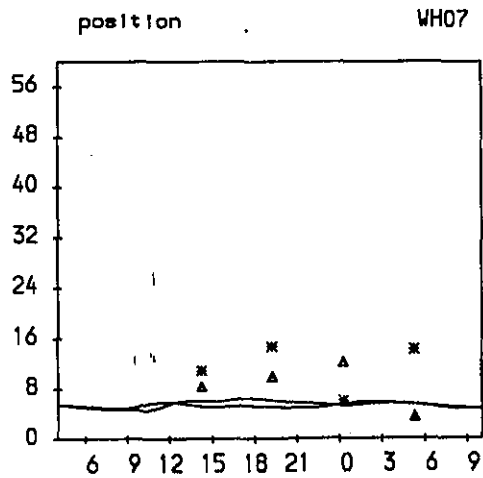
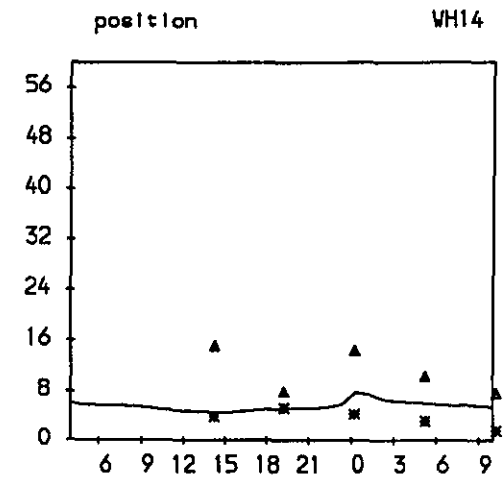
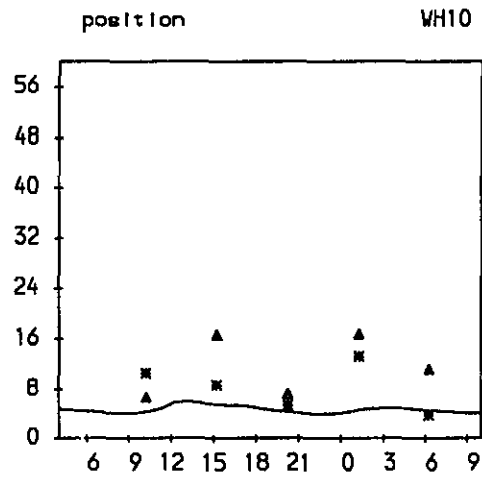
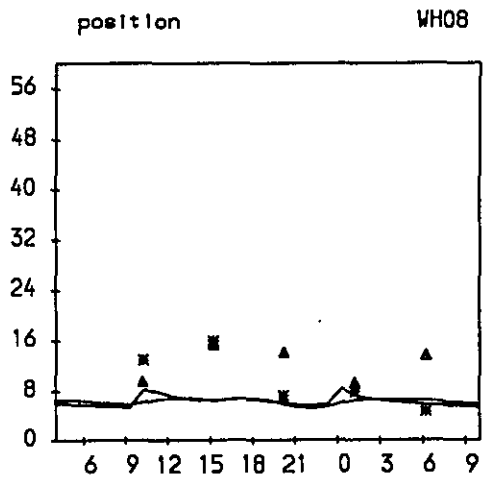
Green Island Wet Neap calibration 12/11/93

Suspended Solids (mg/l) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



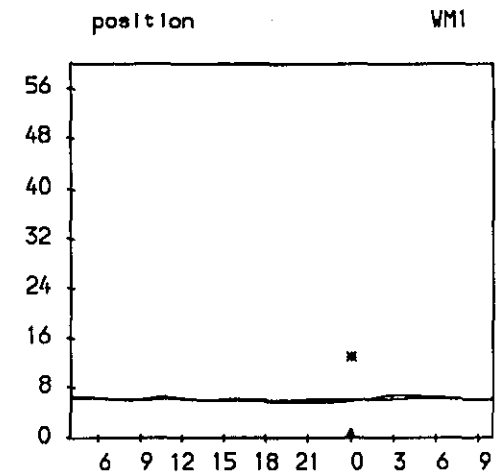
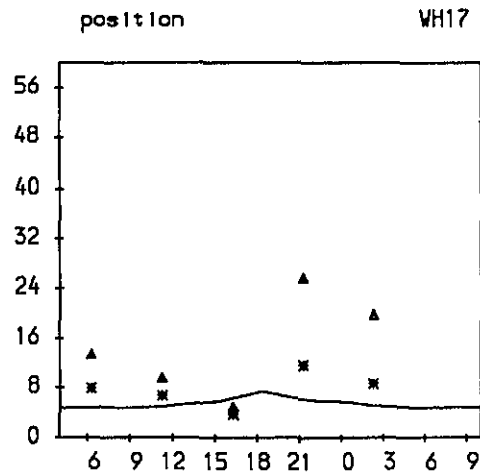
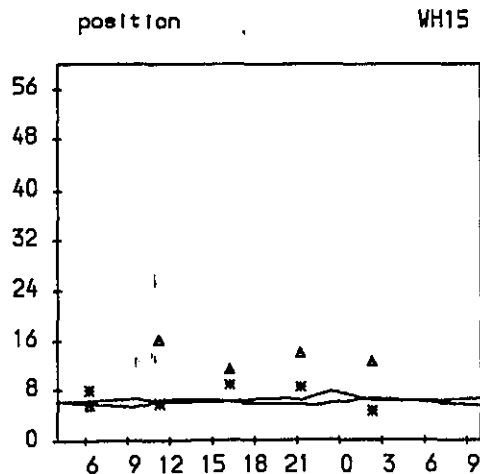
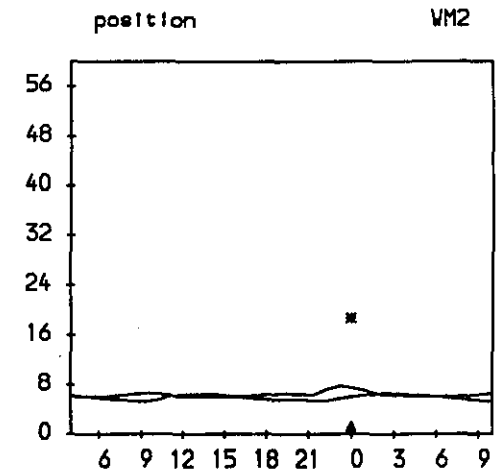
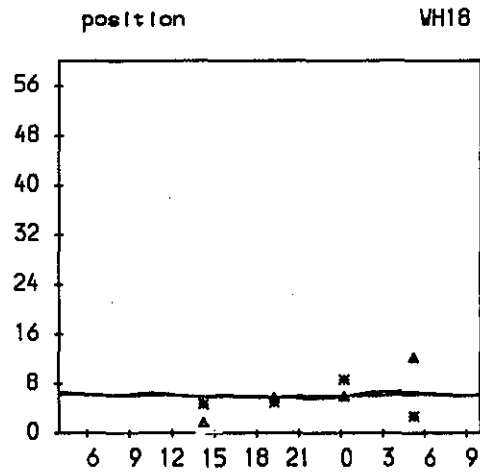
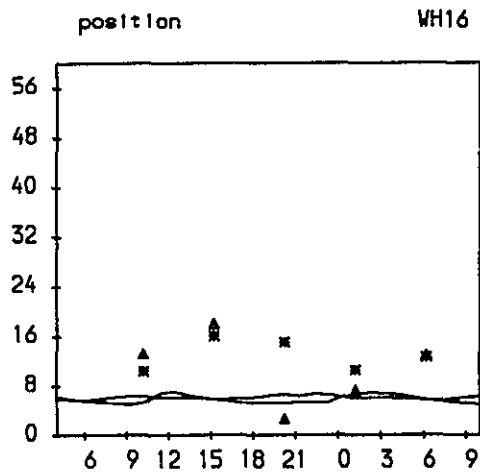
Green Island Wet Neap calibration 12/11/93

Suspended Solids (mg/L) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



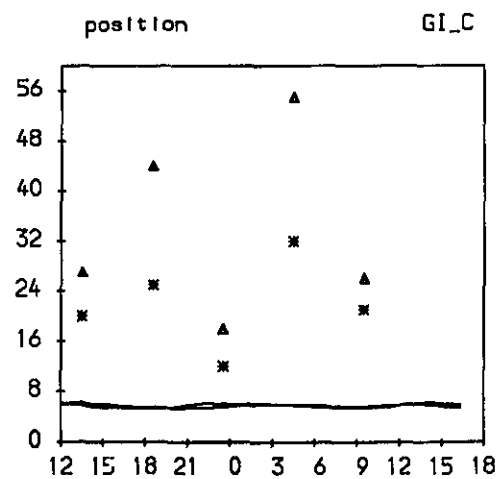
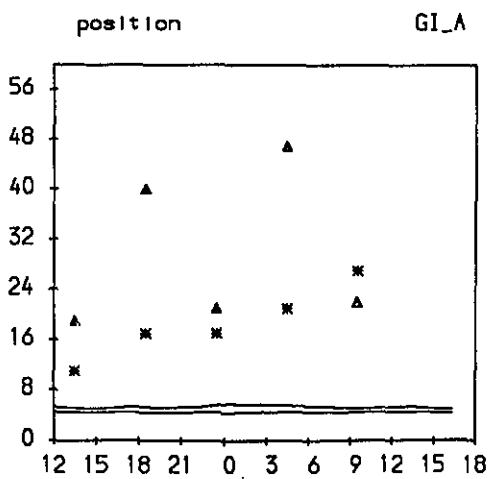
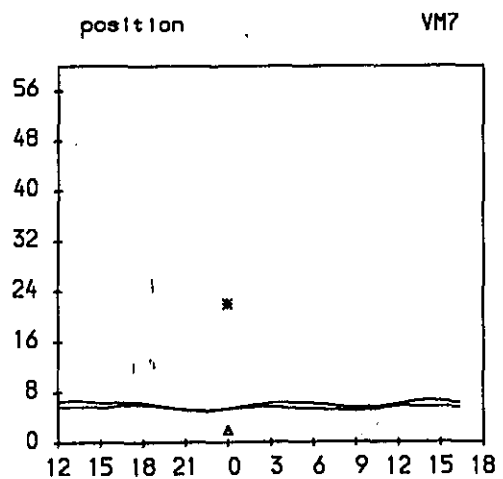
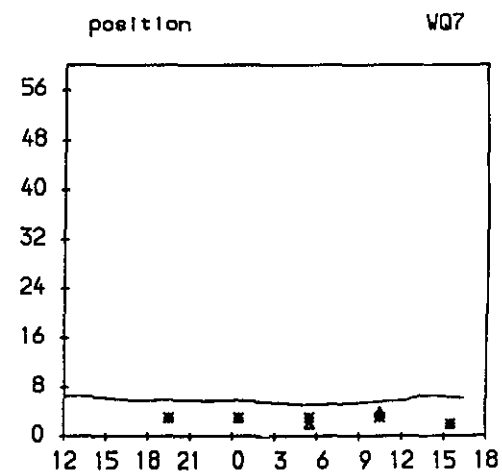
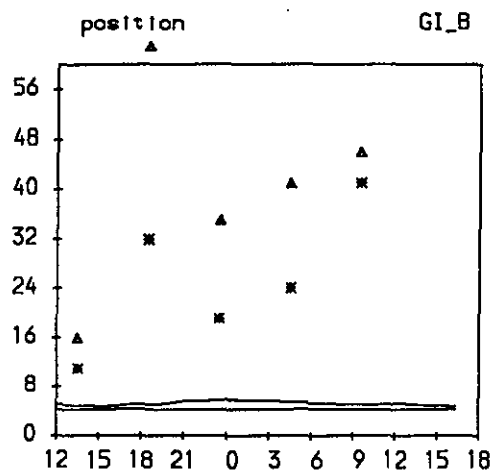
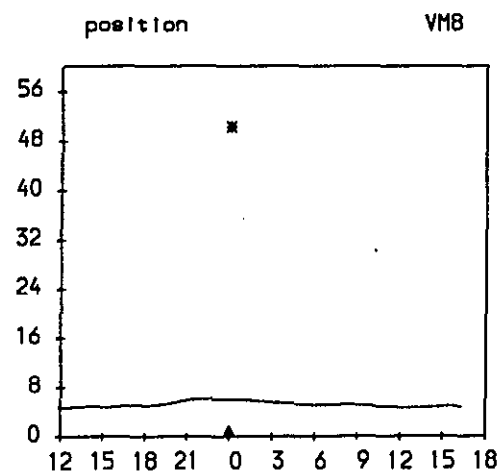
Green Island Wet Neap calibration 12/11/93

Suspended Solids (mg/L) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



Green Island Wet Neap calibration 12/11/93

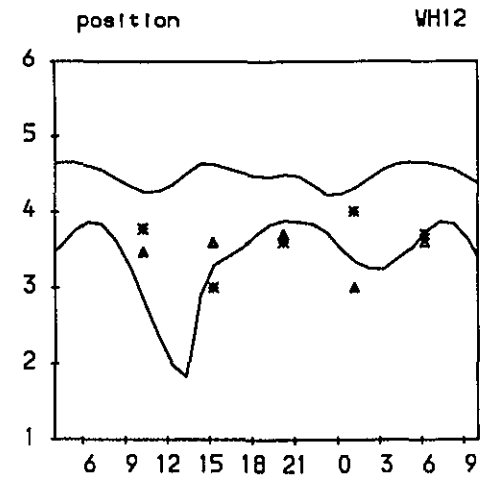
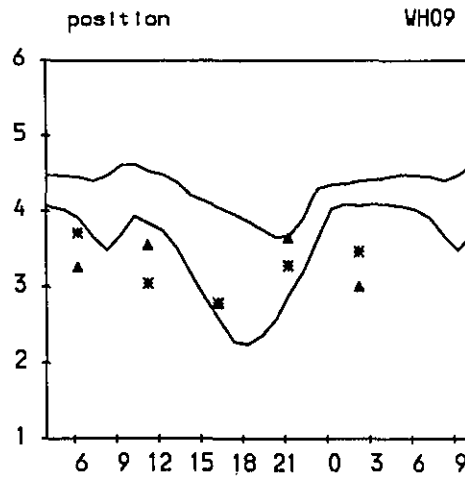
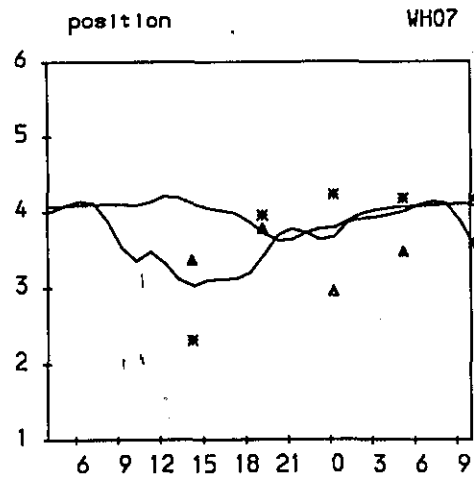
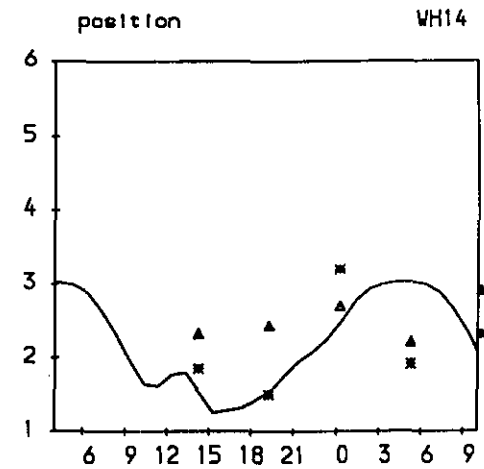
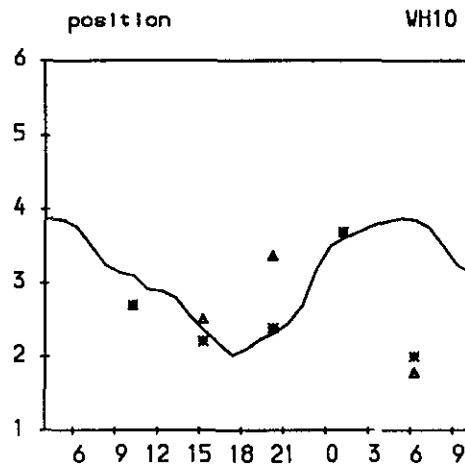
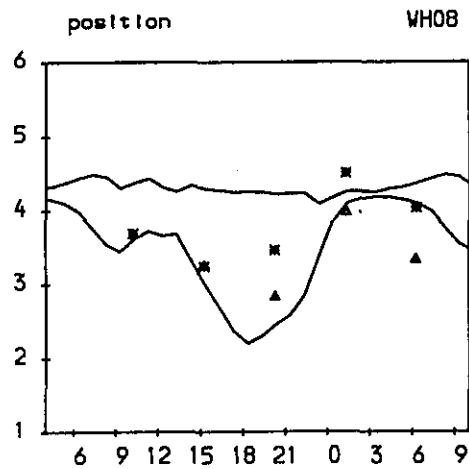
E.Coli (no/100ml) against time

(log to base 10 on y-axis)

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



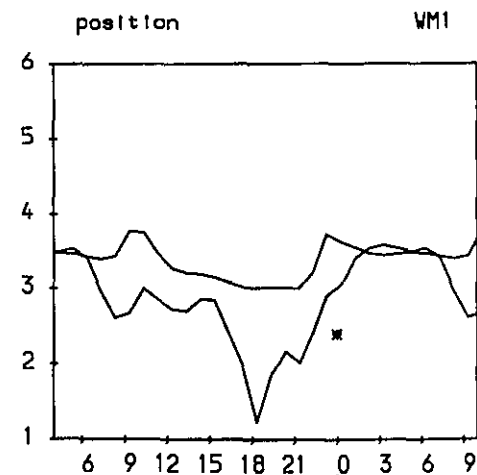
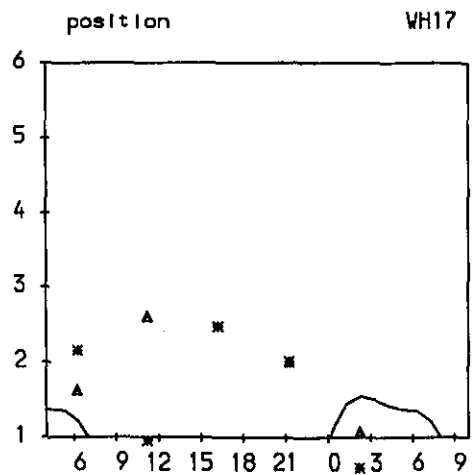
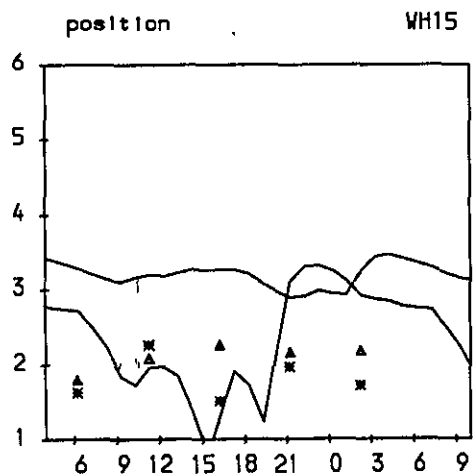
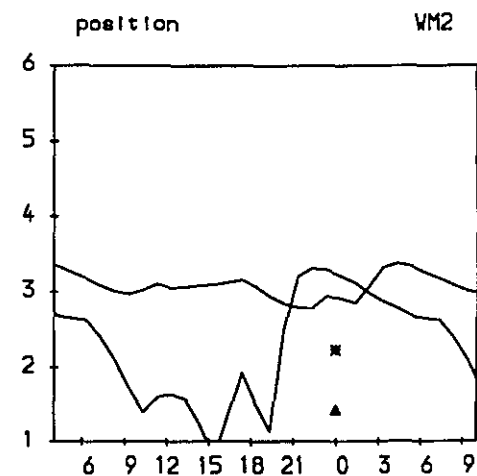
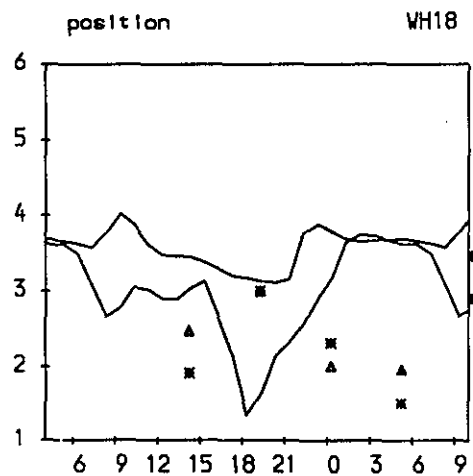
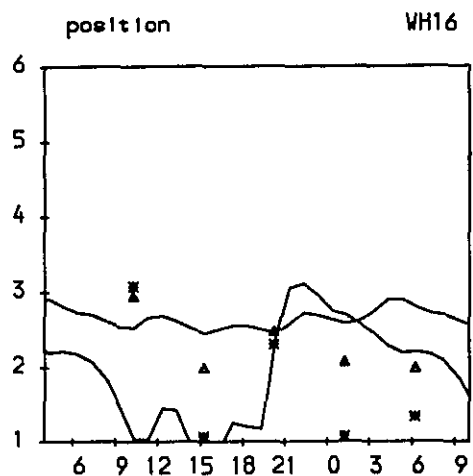
Green Island Wet Neap calibration 12/11/93

E.Coli (no/100ml) against time (log to base 10 on y-axis)

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



Green Island Wet Neap calibration 12/11/93

E.Coli (no/100ml) against time (log to base 10 on y-axis)

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer

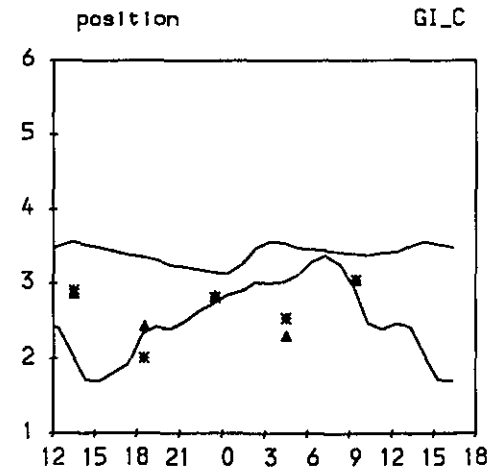
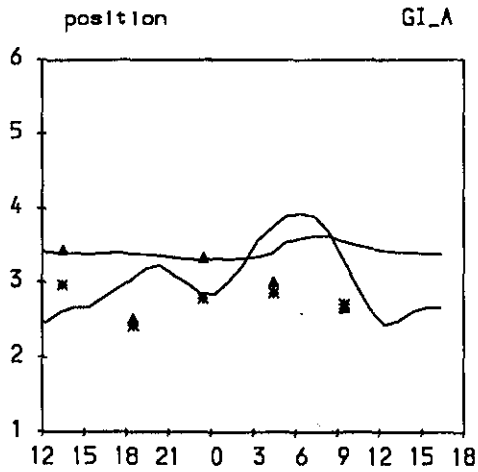
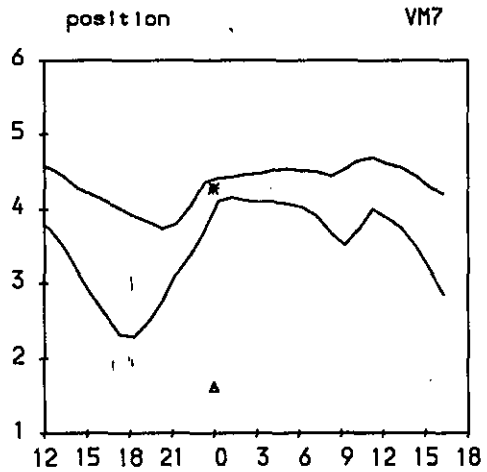
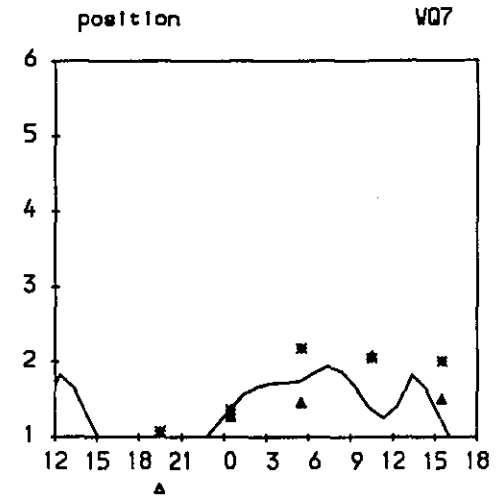
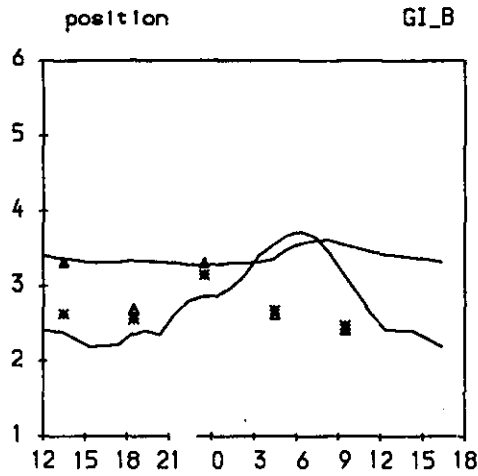
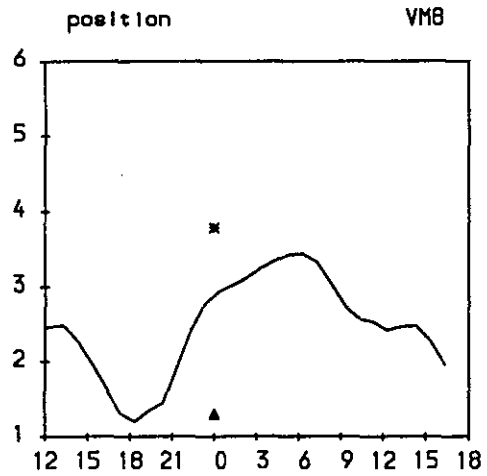


FIGURE 6

CASE 1 (EXISTING) : WET SEASON SPRING TIDE

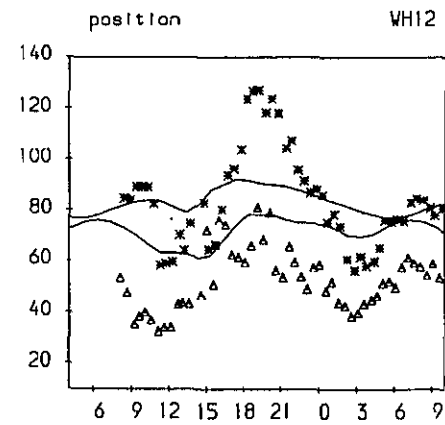
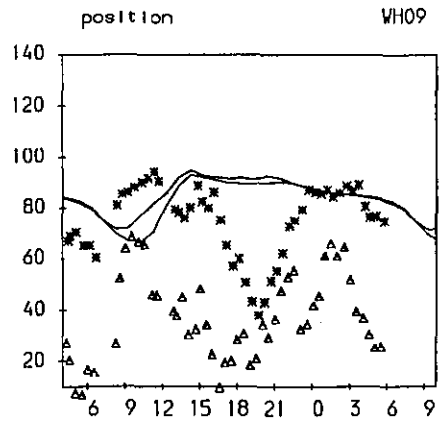
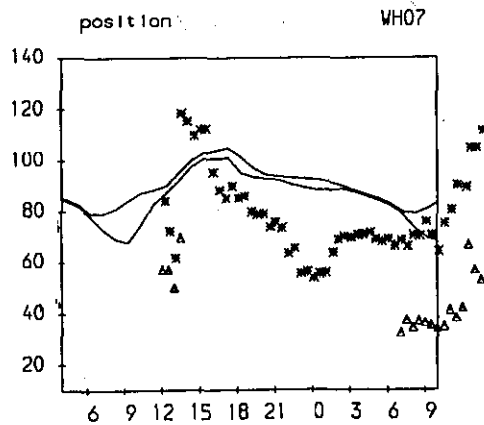
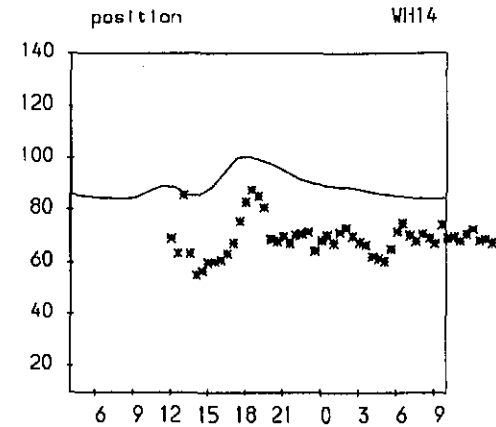
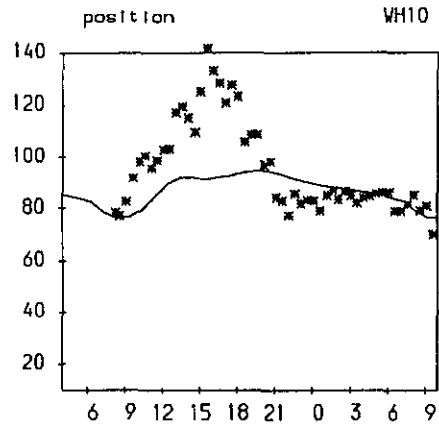
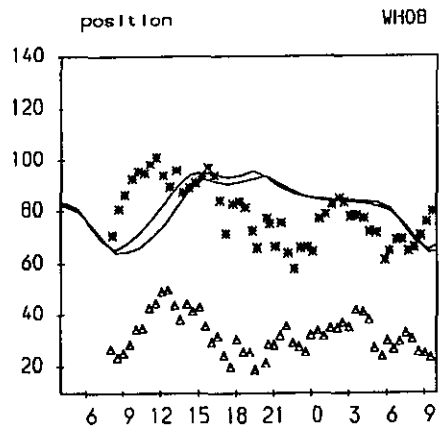
Green Island Wet Spring calibration 28/11/93

Dissolved Oxygen (% saturation) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



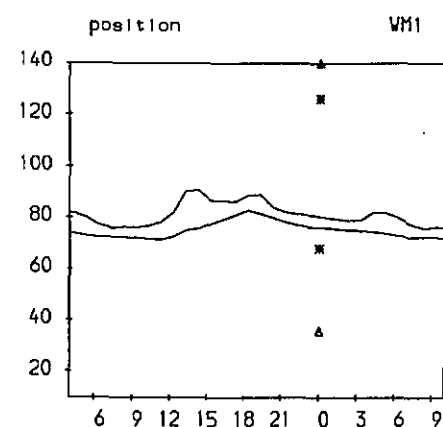
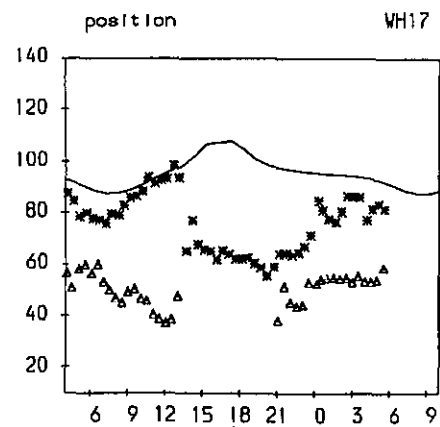
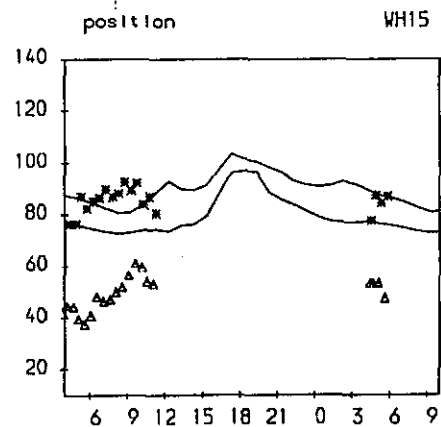
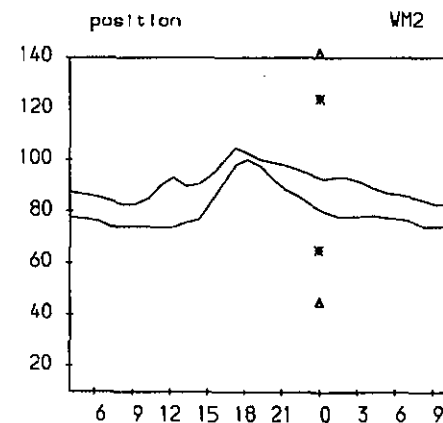
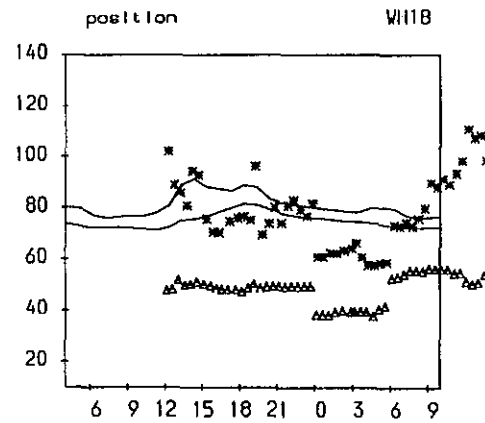
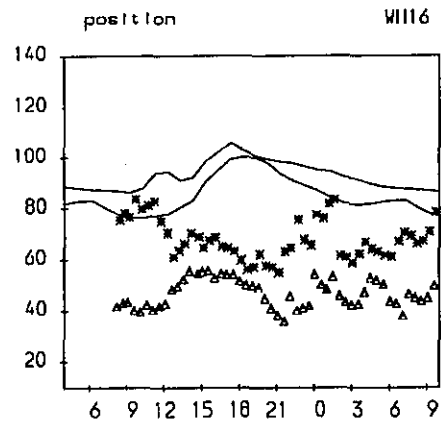
Green Island Wet Spring calibration 28/11/93

Dissolved Oxygen (% saturation) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



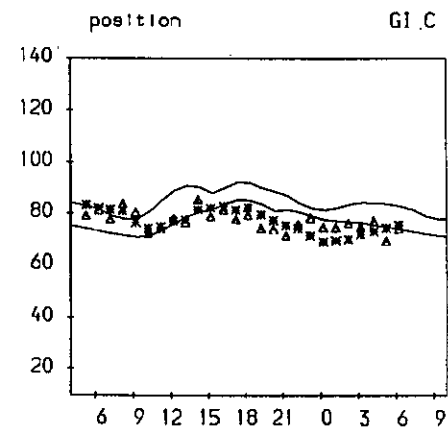
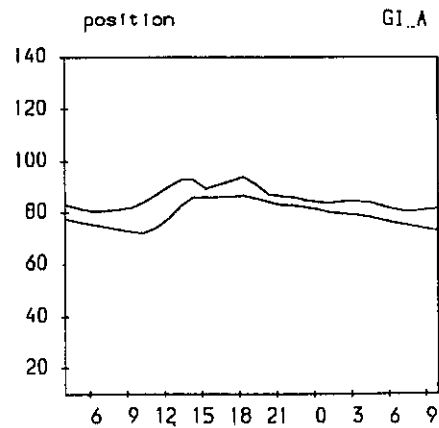
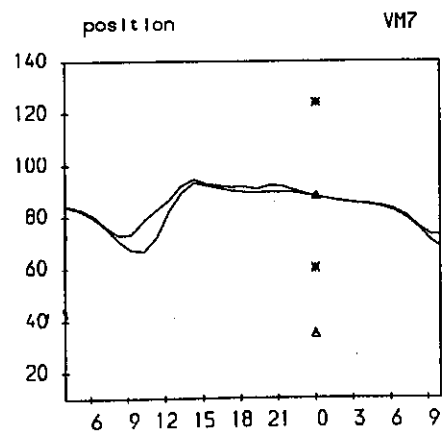
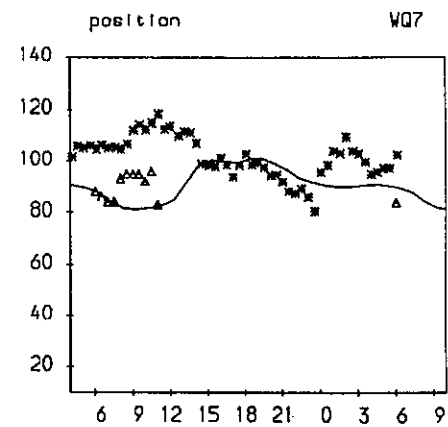
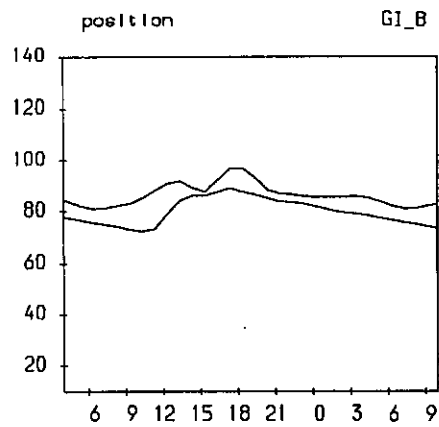
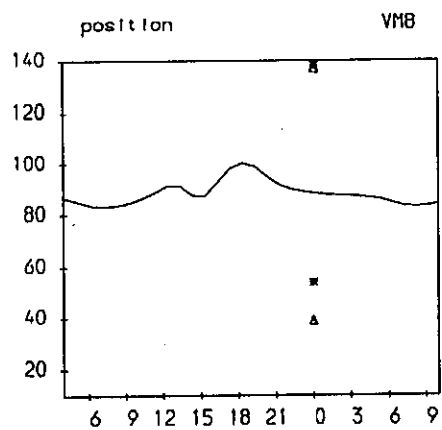
Green Island Wet Spring calibration 28/11/93

Dissolved Oxygen (% saturation) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



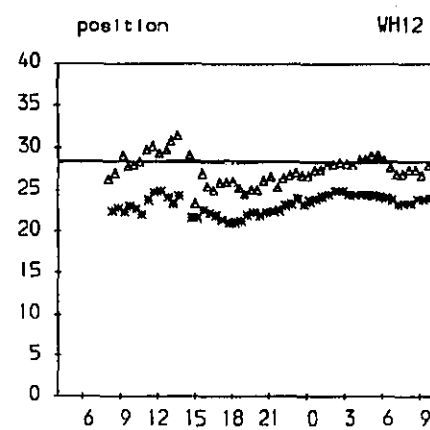
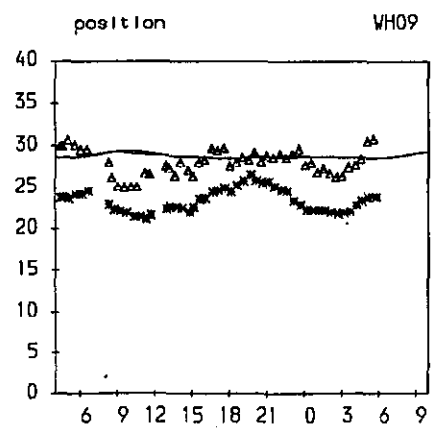
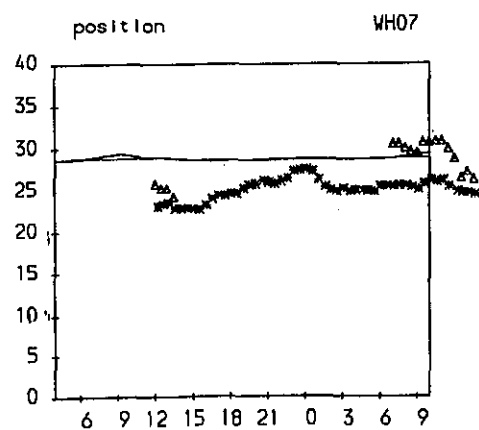
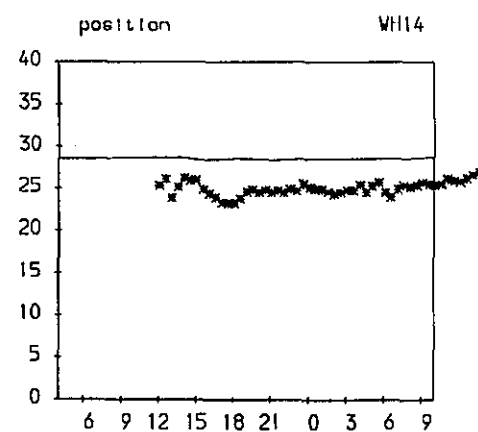
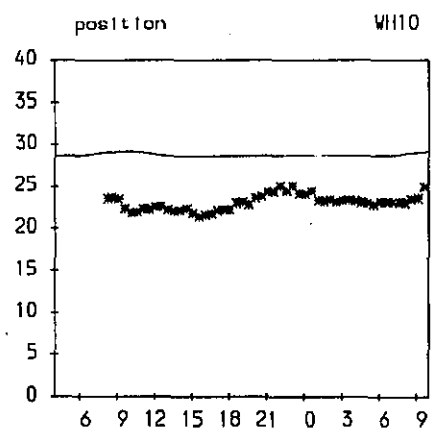
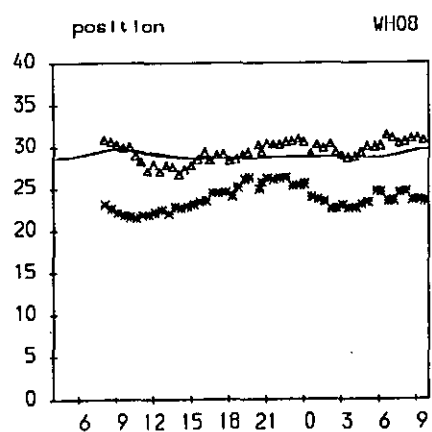
Green Island Wet Spring calibration 28/11/93

Salinity (g/kg) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



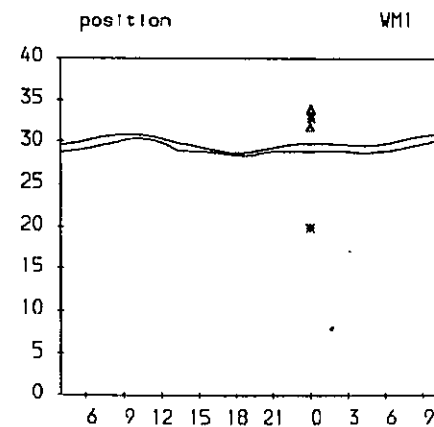
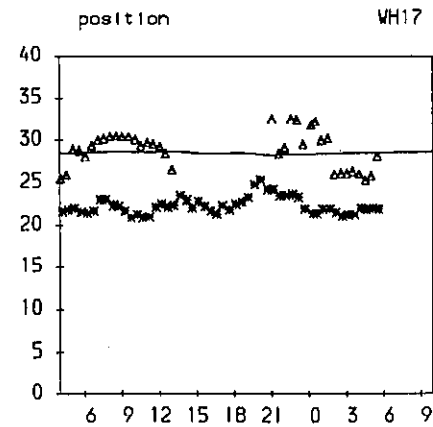
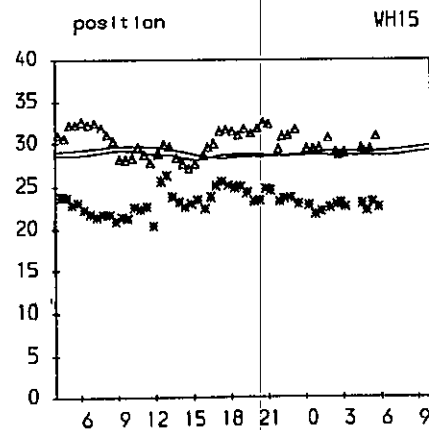
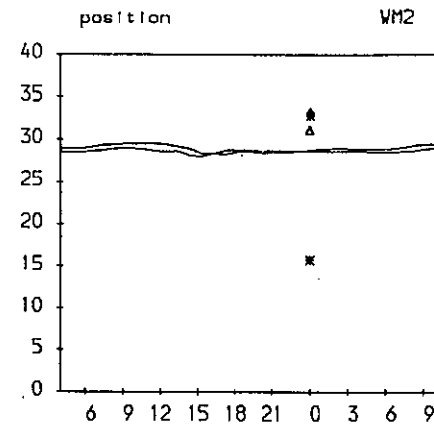
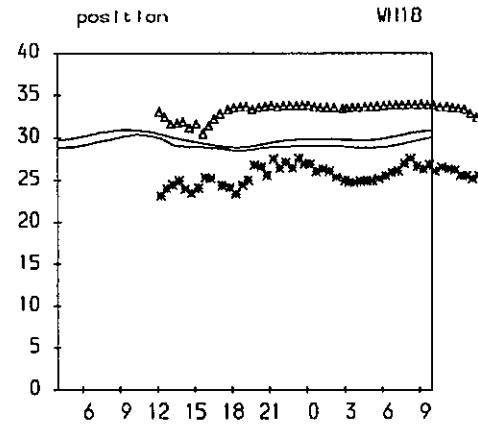
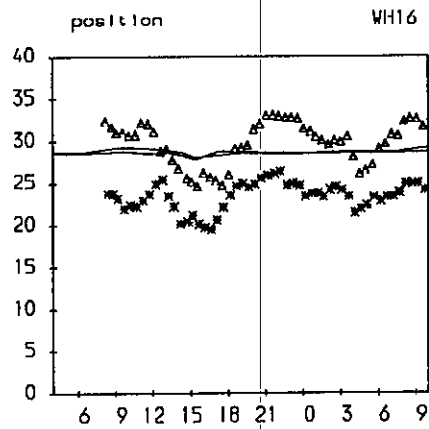
Green Island Wet Spring calibration 28/11/93

Salinity (g/kg) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



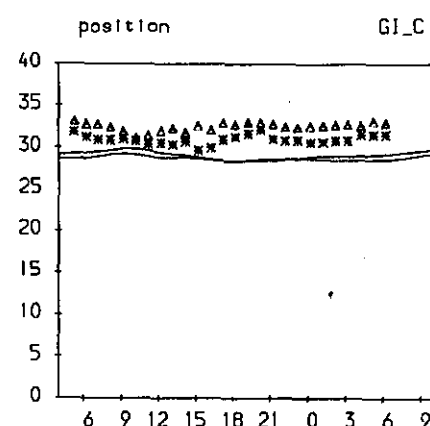
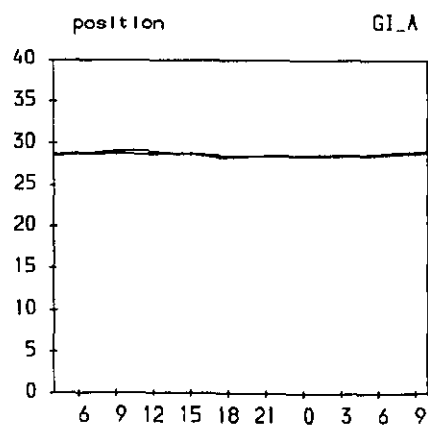
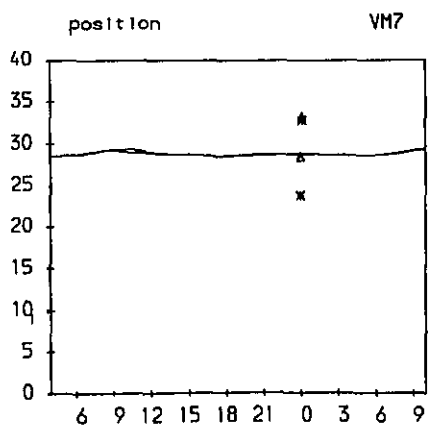
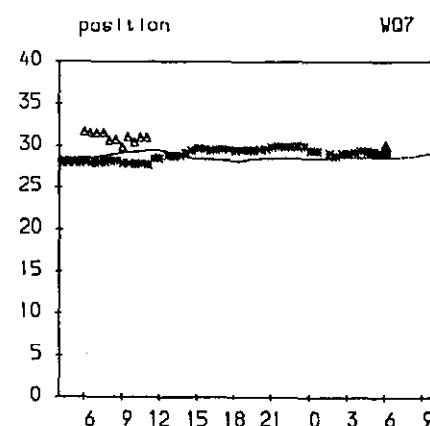
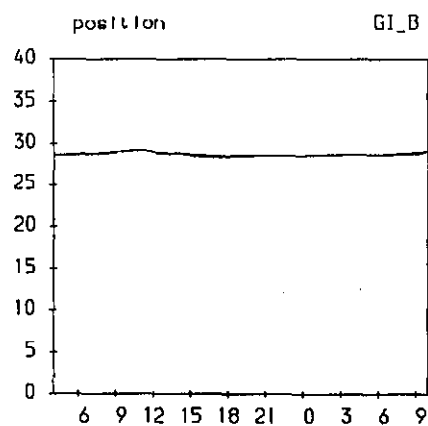
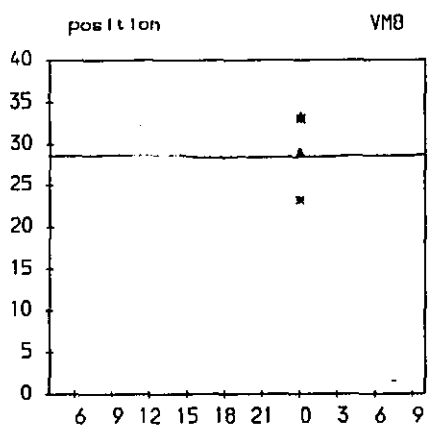
Green Island Wet Spring calibration 28/11/93

Salinity (g/kg) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



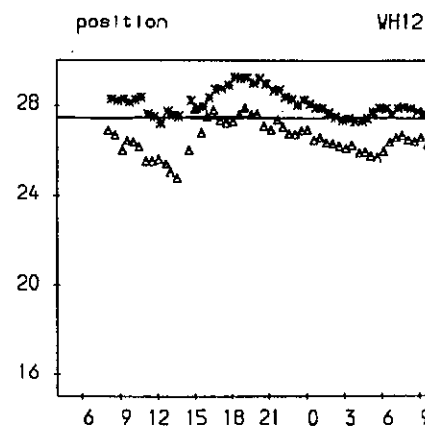
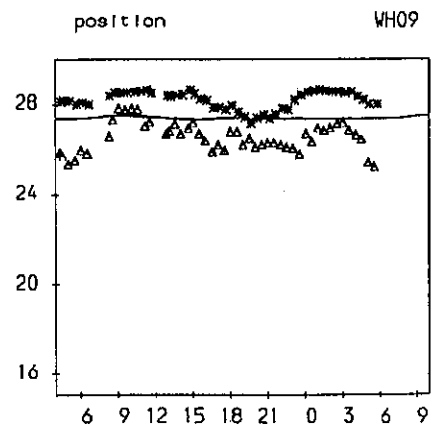
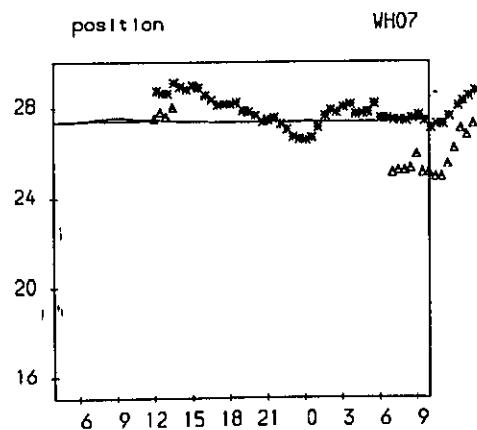
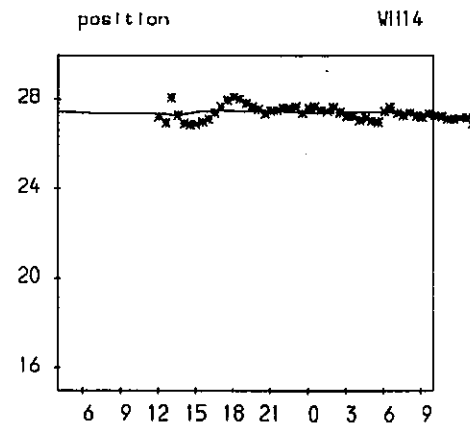
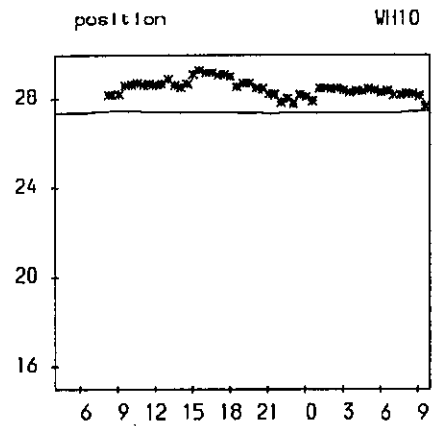
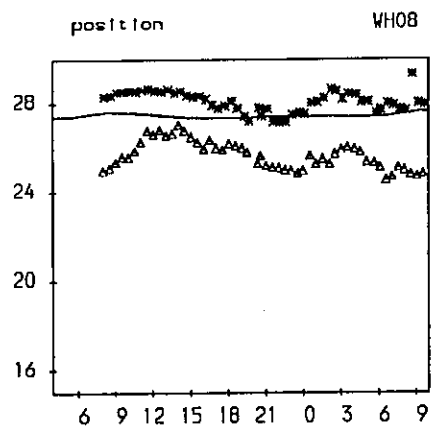
Green Island Wet Spring calibration 28/11/93

Temperature (degrees C) against time

2 Layer, 100m grid

—— Predicted

Observed symbols: * Upper layer, Δ Lower layer



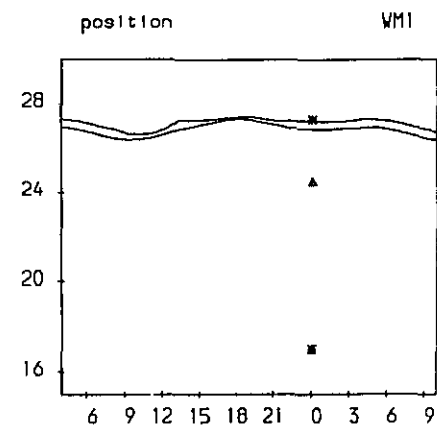
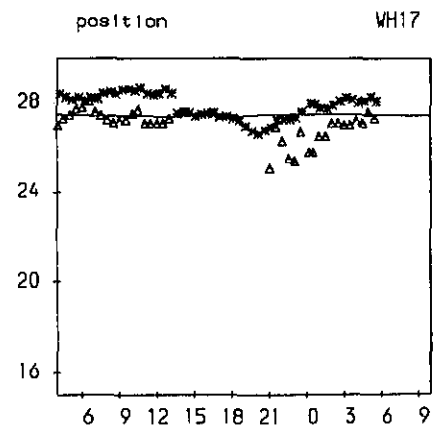
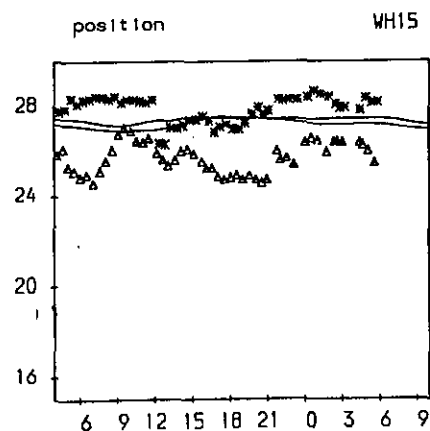
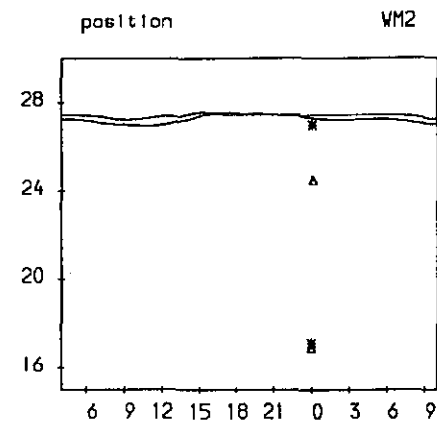
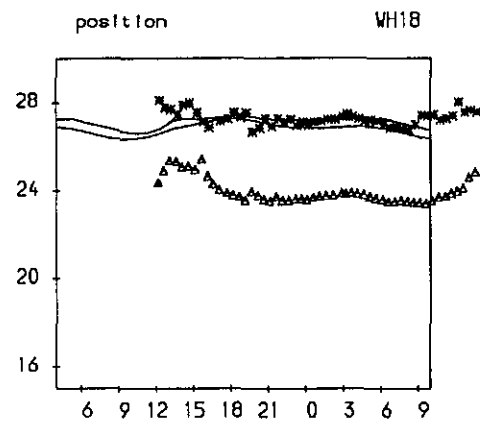
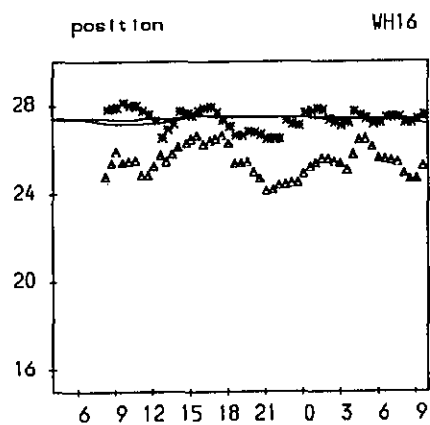
Green Island Wet Spring calibration 28/11/93

Temperature (degrees C) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



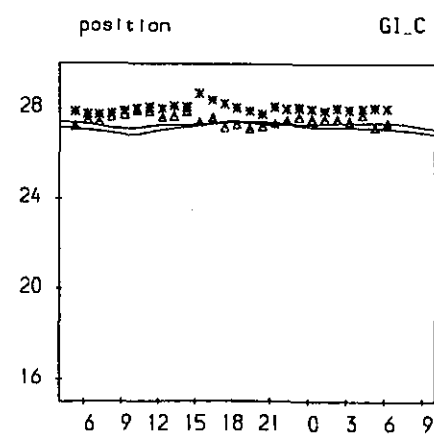
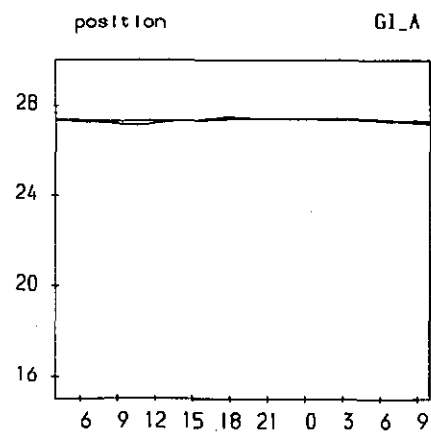
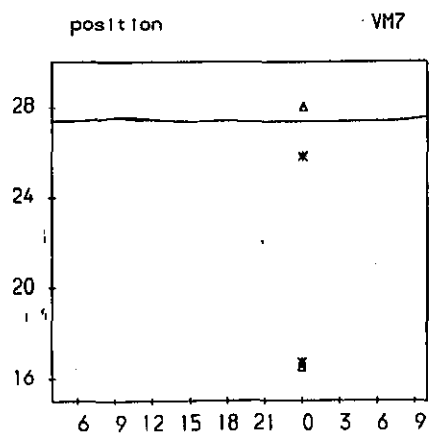
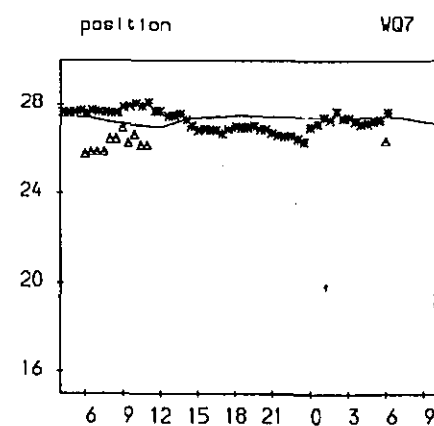
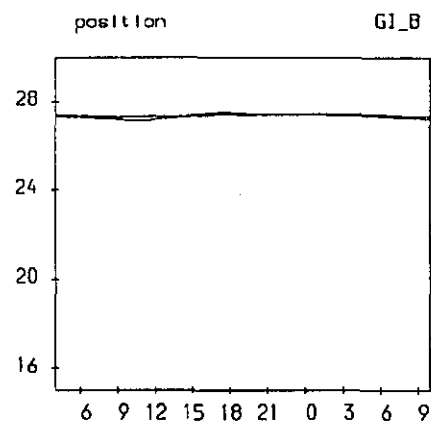
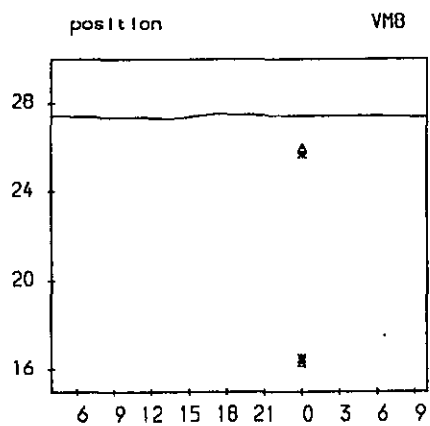
Green Island Wet Spring calibration 28/11/93

Temperature (degrees C) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



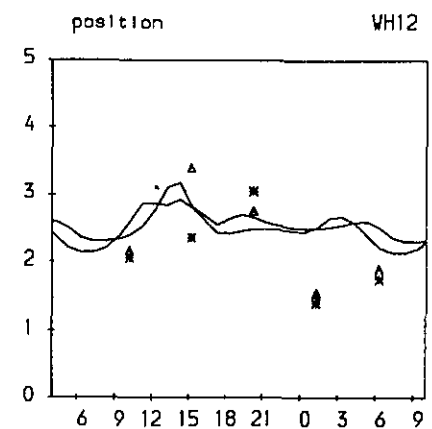
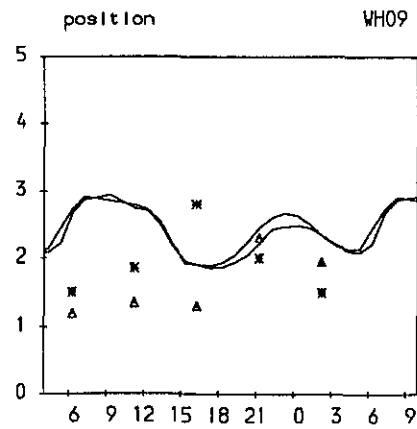
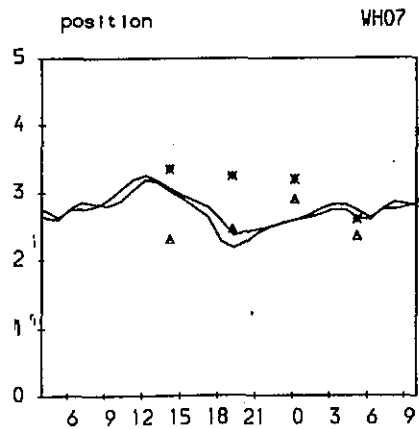
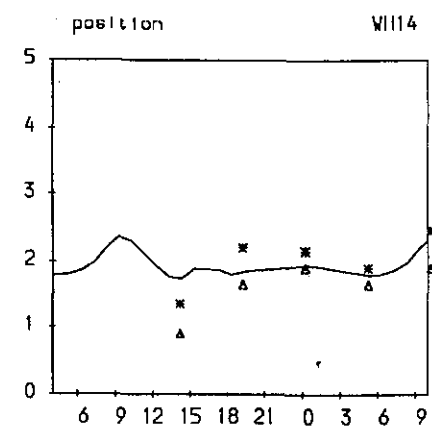
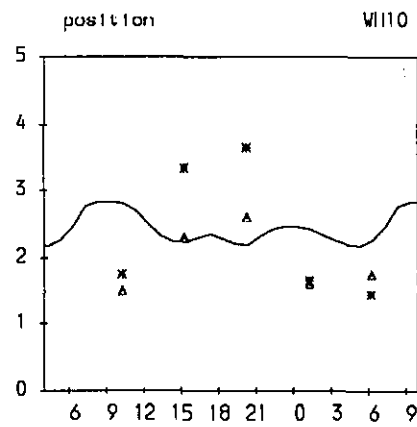
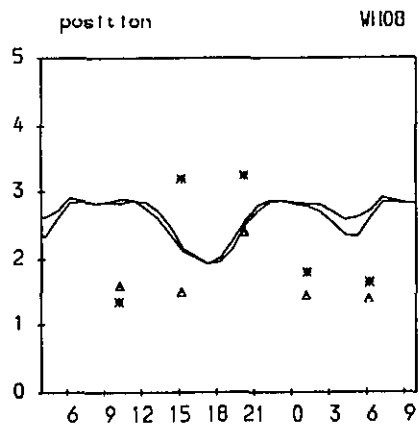
Green Island Wet Spring calibration 28/11/93

BOD (mg/L) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



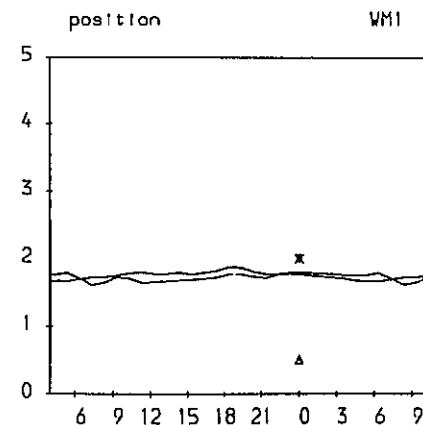
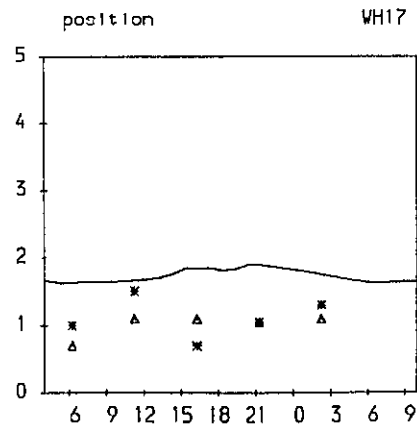
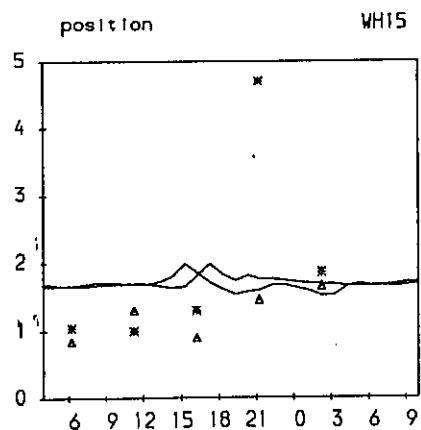
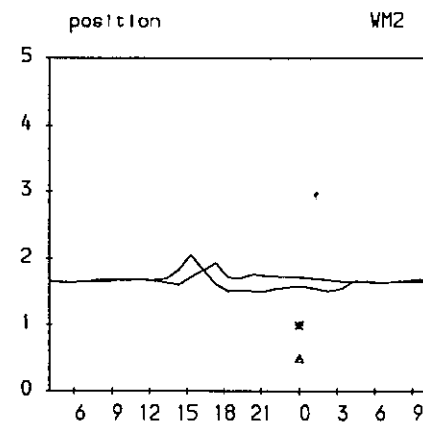
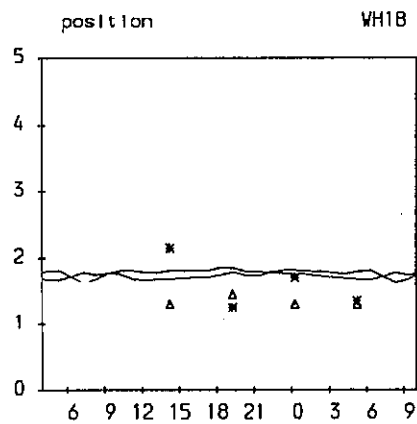
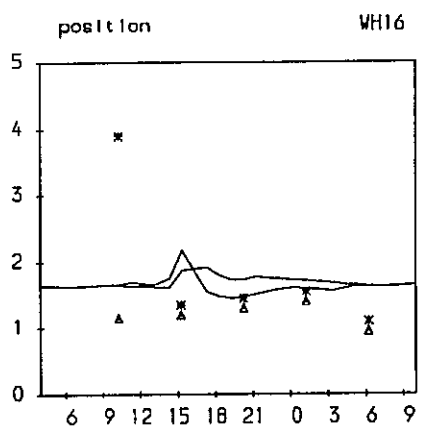
Green Island Wet Spring calibration 28/11/93

BOD (mg/L) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



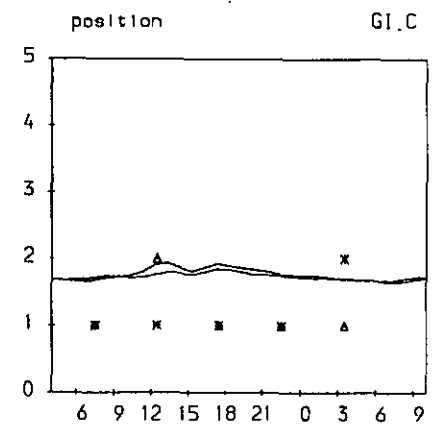
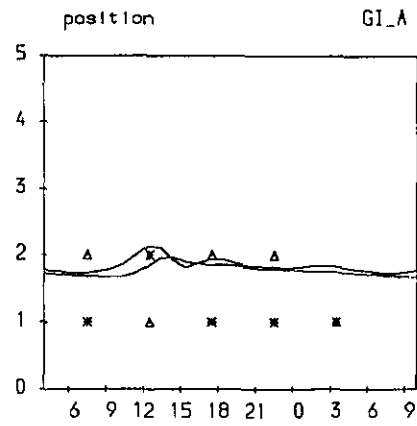
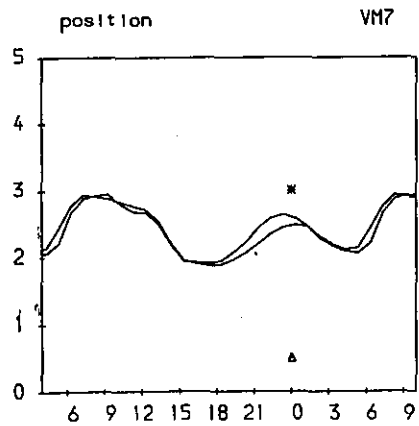
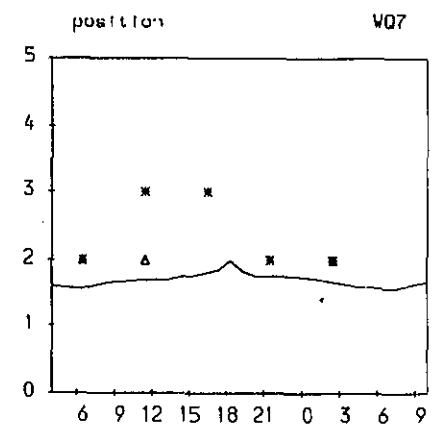
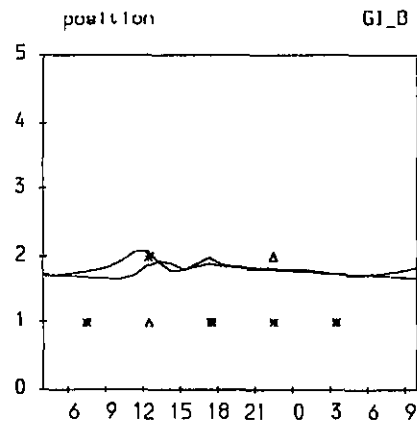
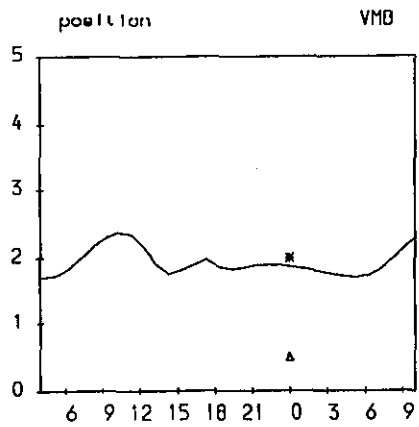
Green Island Wet Spring calibration 28/11/93

BOD (mg/L) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



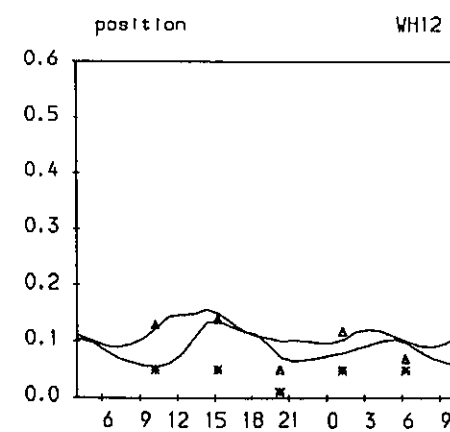
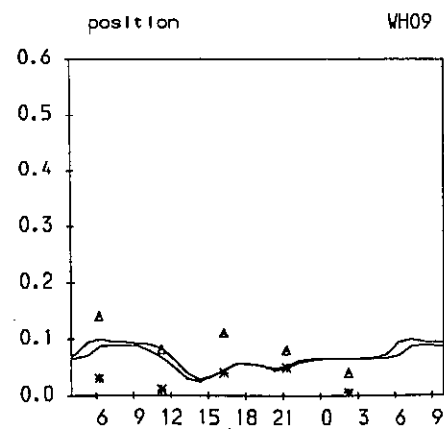
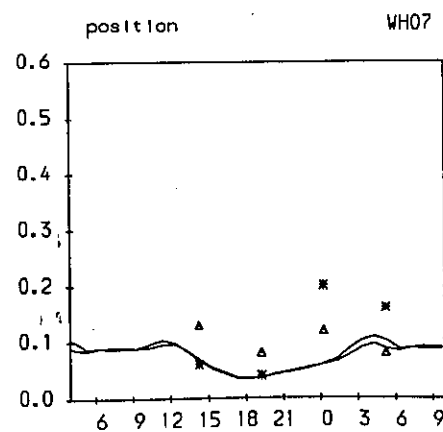
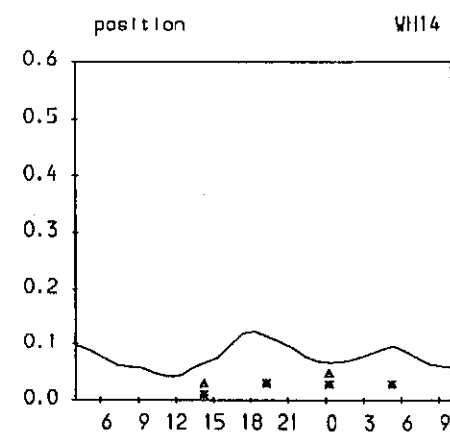
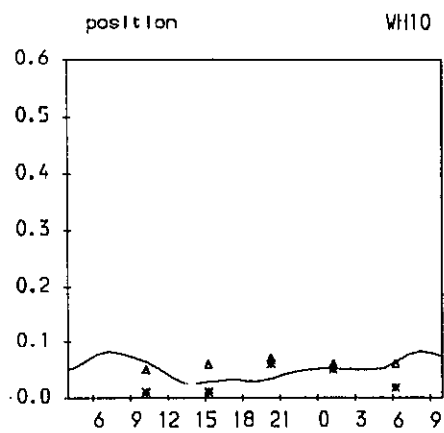
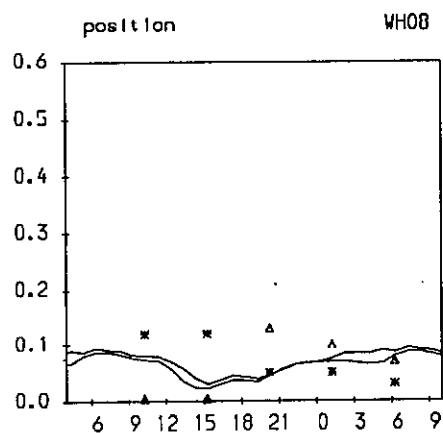
Green Island Wet Spring calibration 28/11/93

Ammoniacal Nitrogen (mg N/L) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



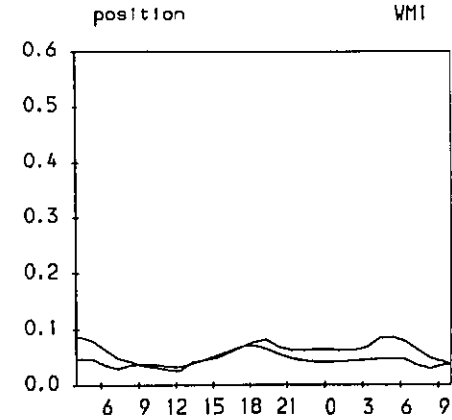
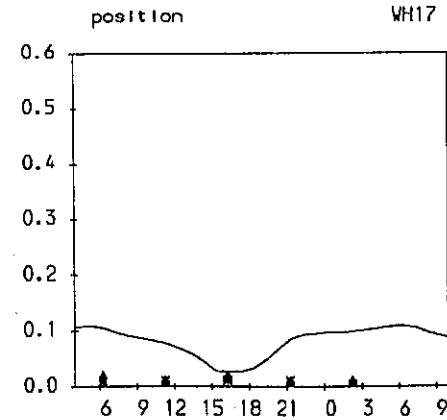
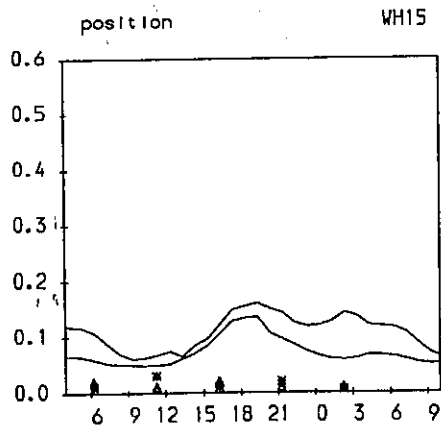
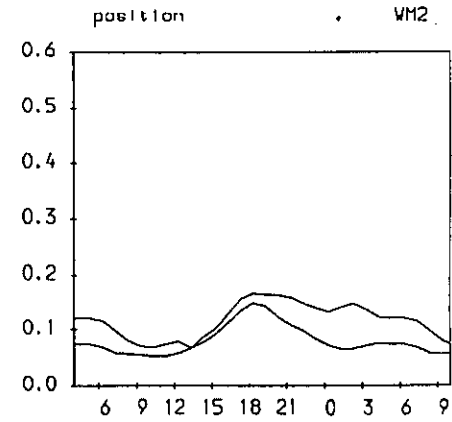
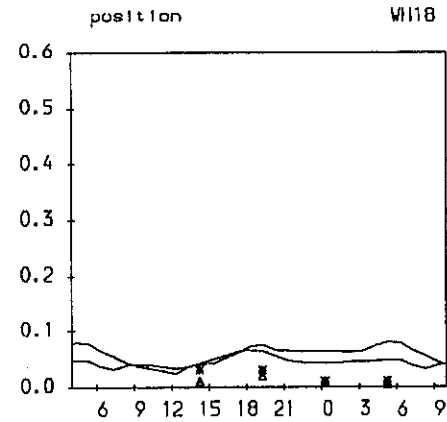
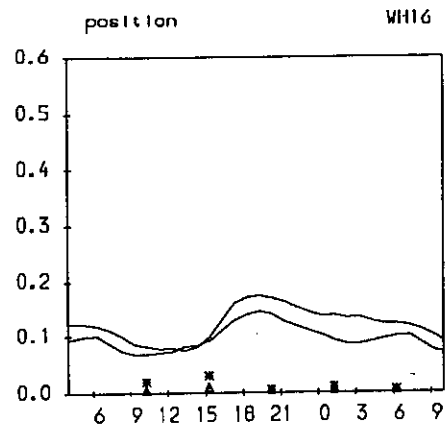
Green Island Wet Spring calibration 28/11/93

Ammoniacal Nitrogen (mg N/L) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



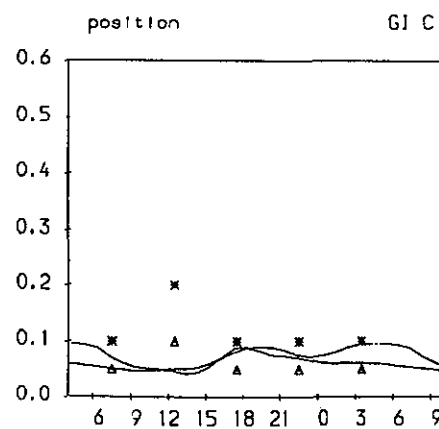
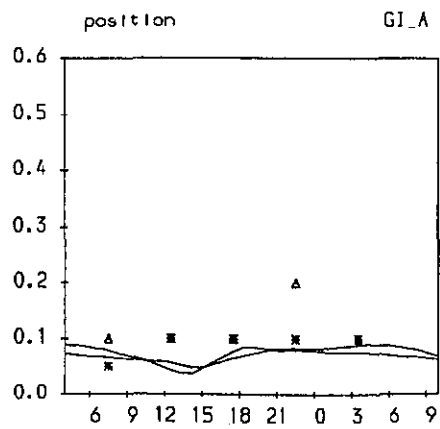
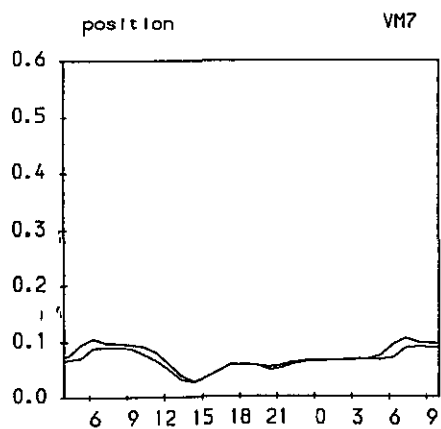
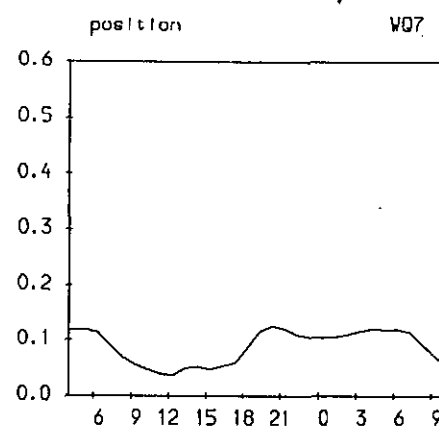
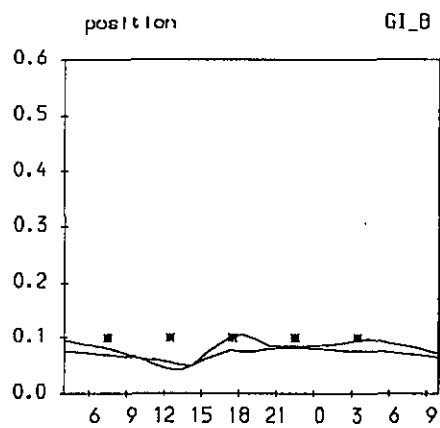
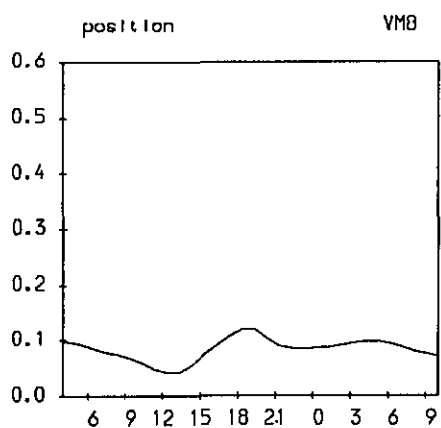
Green Island Wet Spring calibration 28/11/93

Ammoniacal Nitrogen (mg N/L) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



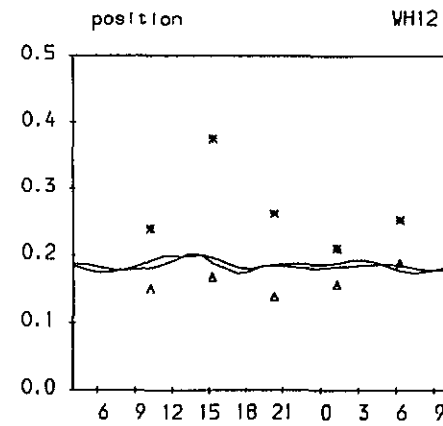
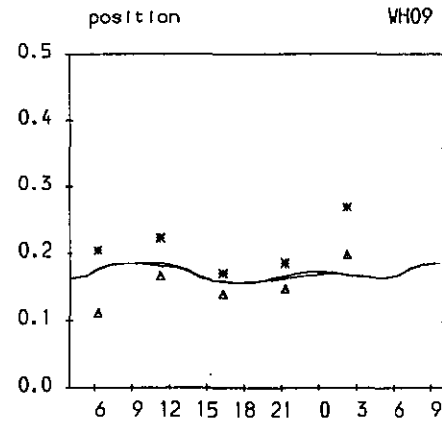
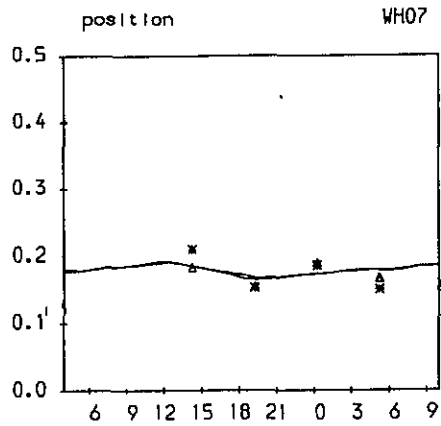
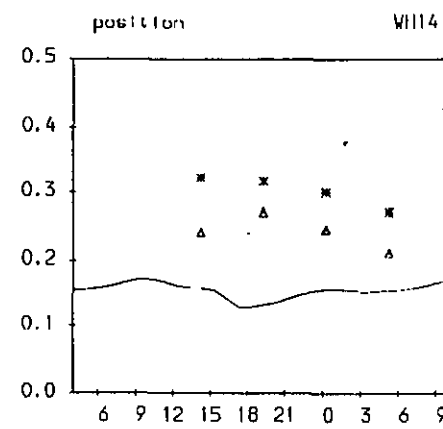
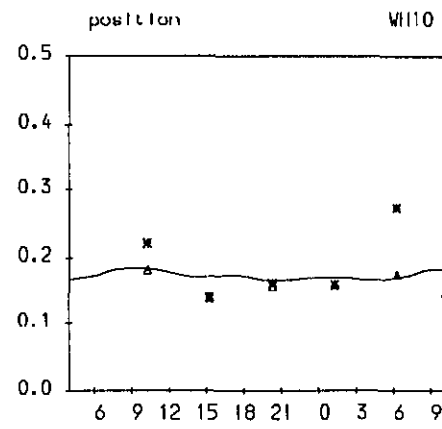
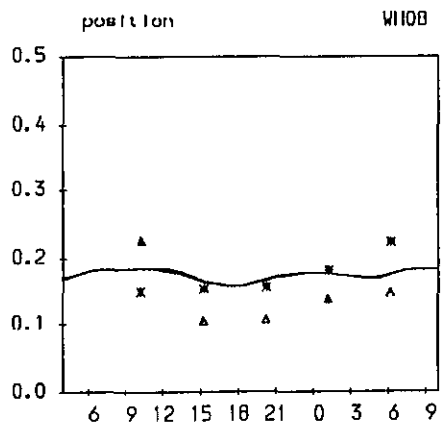
Green Island Wet Spring calibration 28/11/93

Oxidised Nitrogen (mg N/l) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



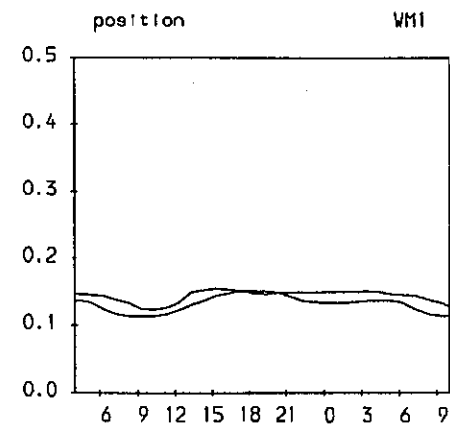
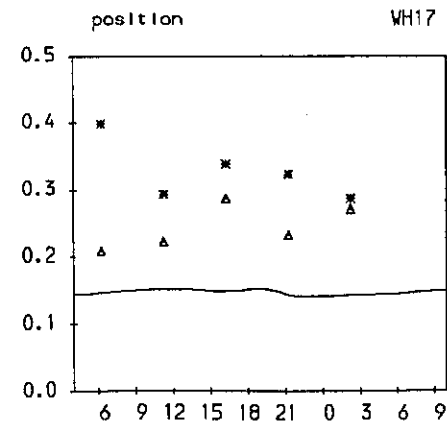
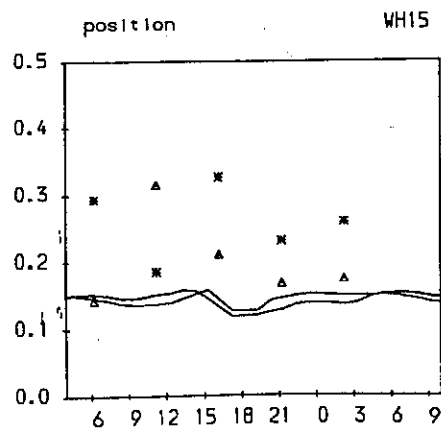
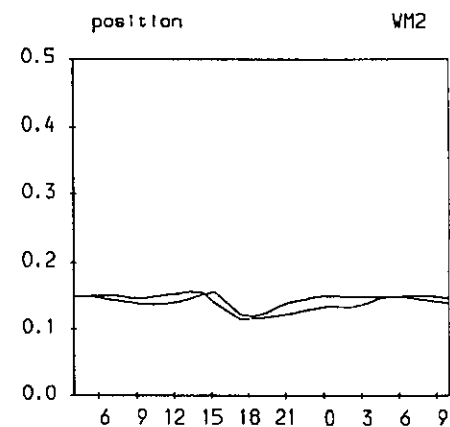
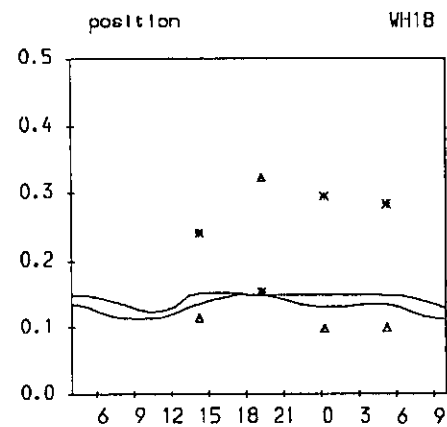
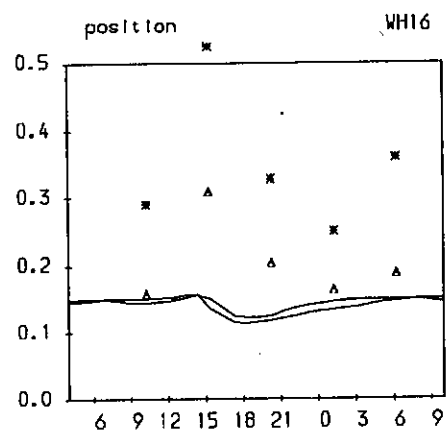
Green Island Wet Spring calibration 28/11/93

Oxidised Nitrogen (mg N/L) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



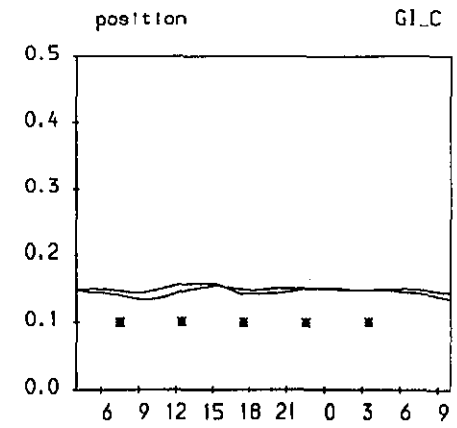
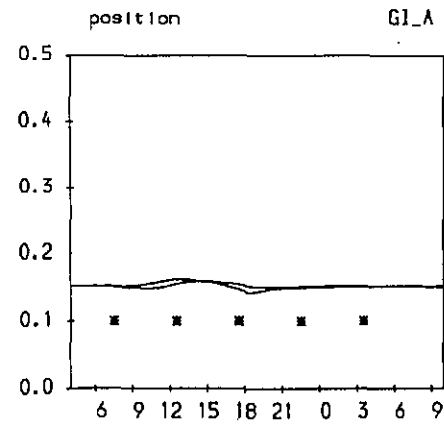
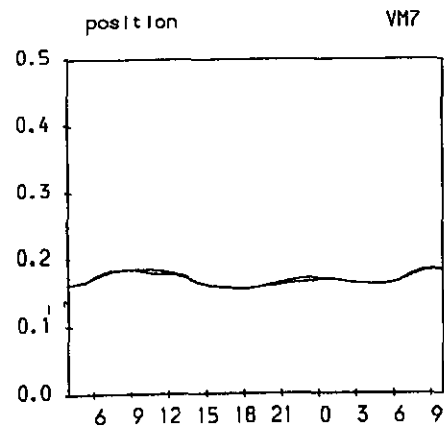
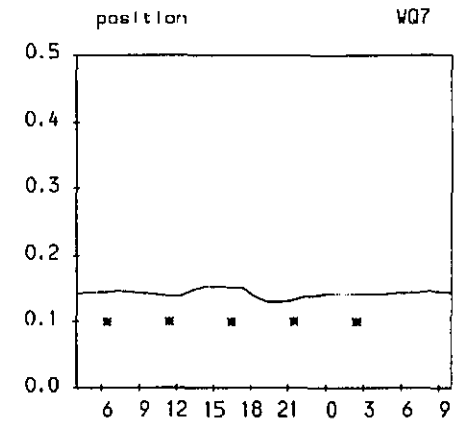
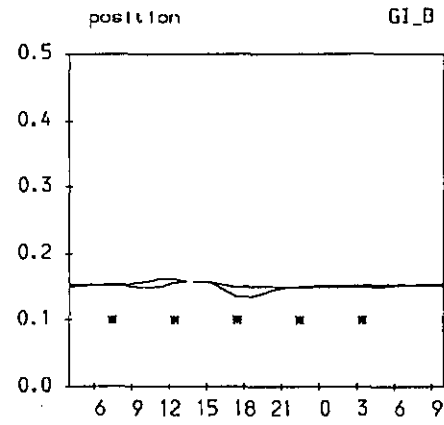
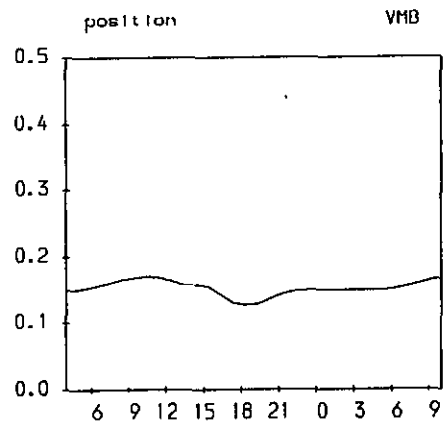
Green Island Wet Spring calibration 28/11/93

Oxidised Nitrogen (mg N/l) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



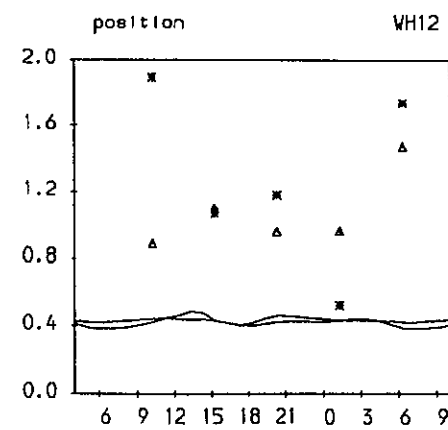
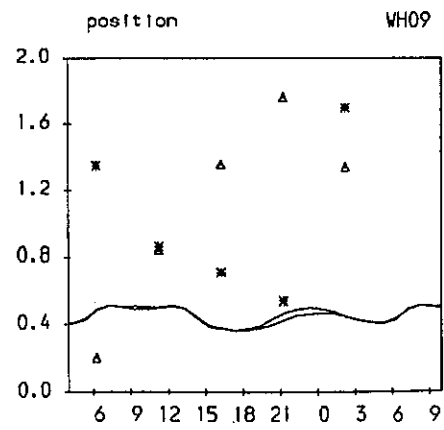
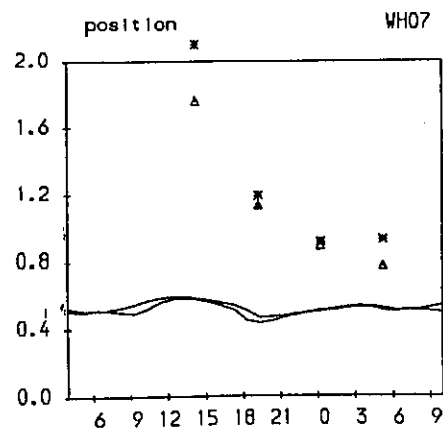
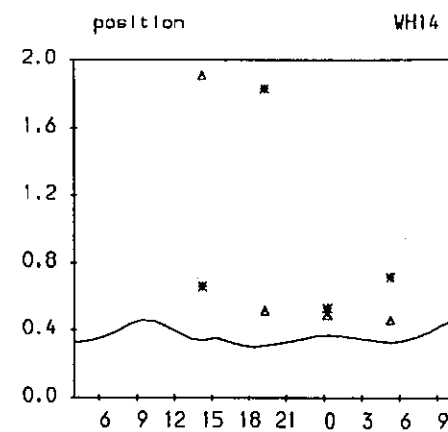
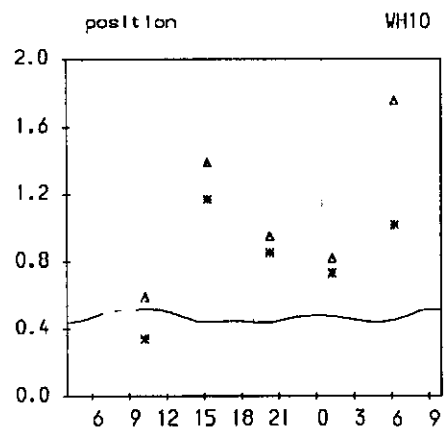
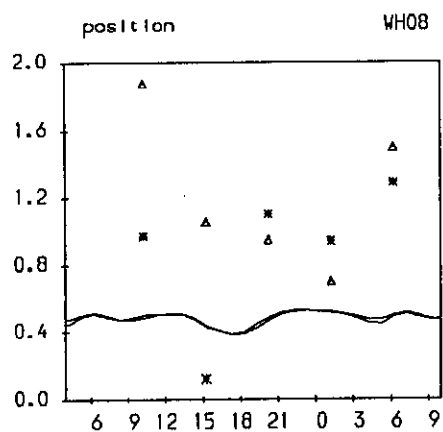
Green Island Wet Spring calibration 28/11/93

Organic Nitrogen (mg N/L) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



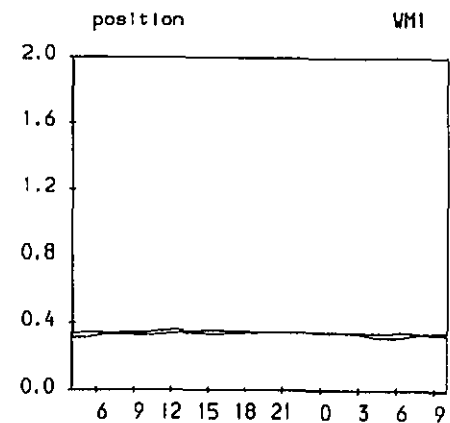
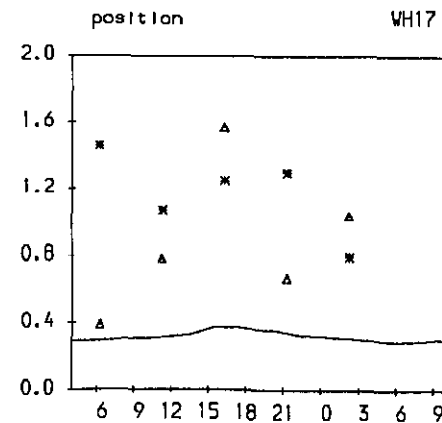
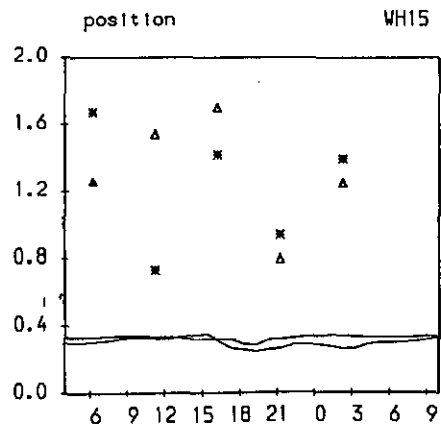
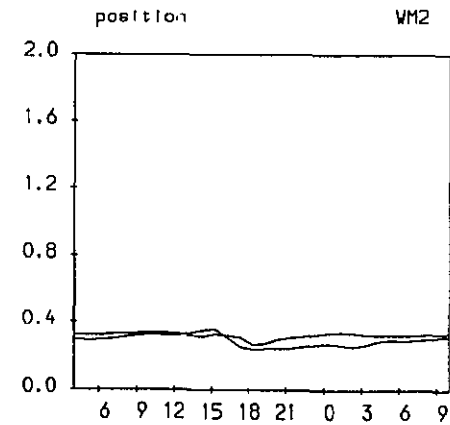
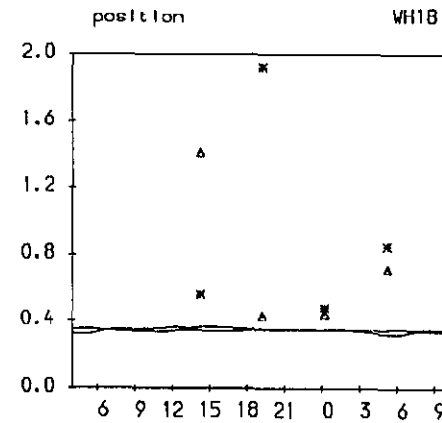
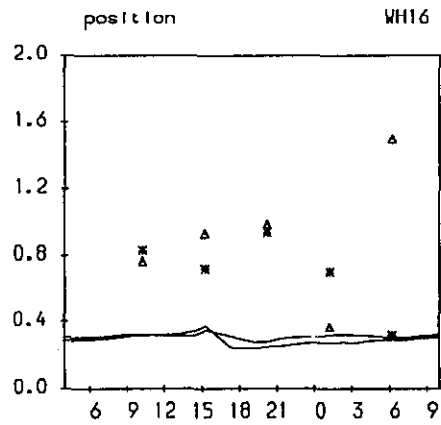
Green Island Wet Spring calibration 28/11/93

Organic Nitrogen (mg N/l) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



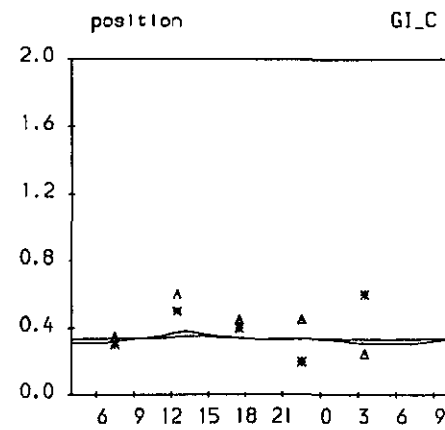
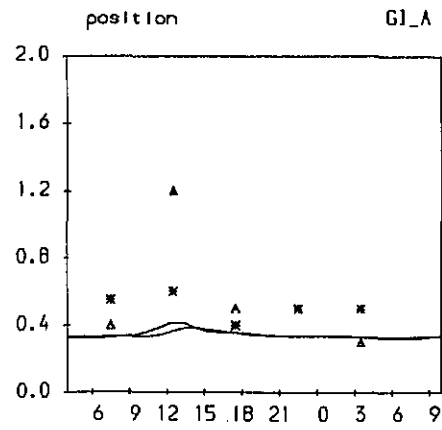
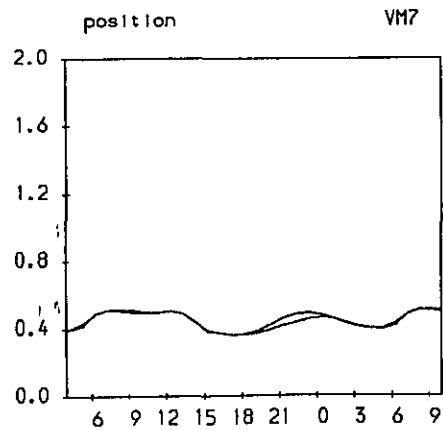
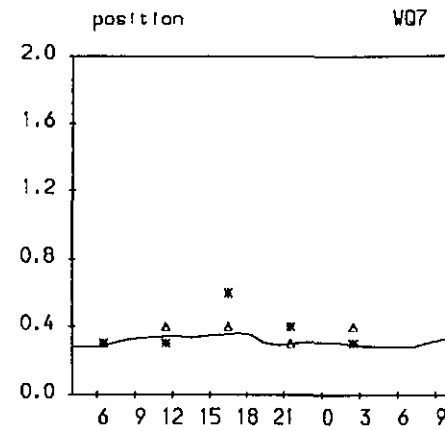
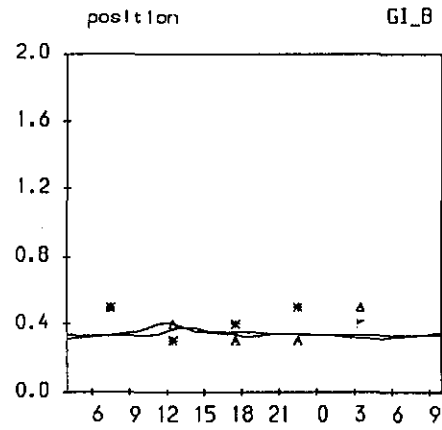
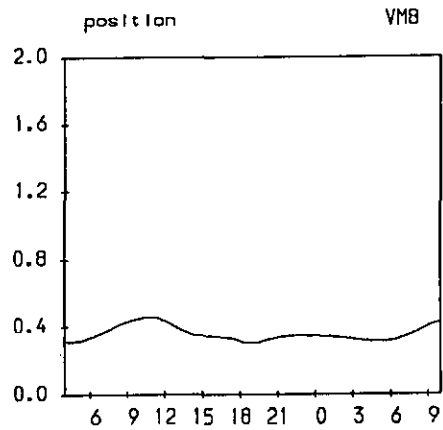
Green Island Wet Spring calibration 28/11/93

Organic Nitrogen (mg N/L) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



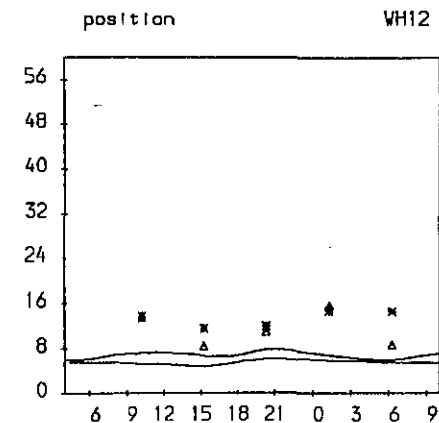
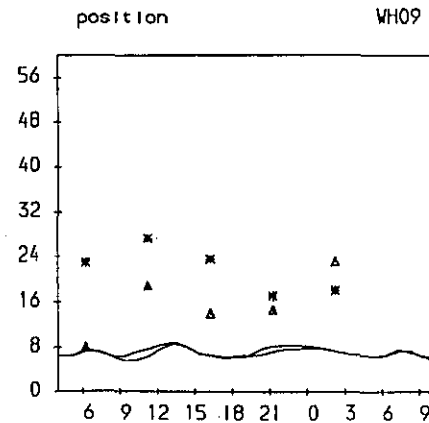
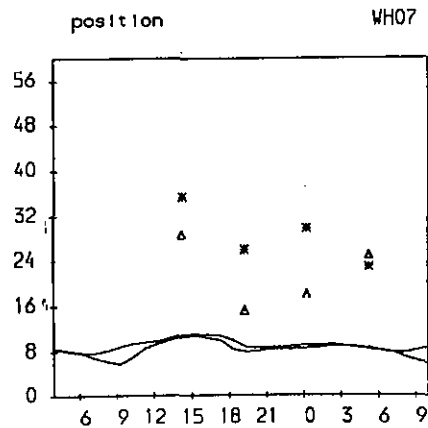
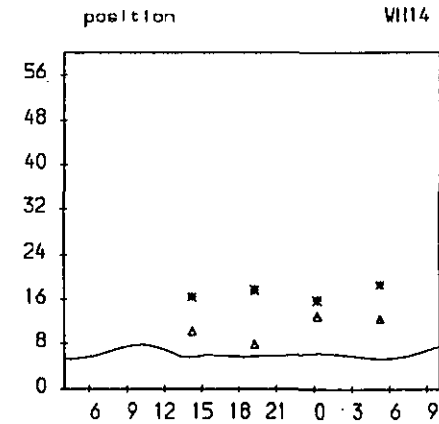
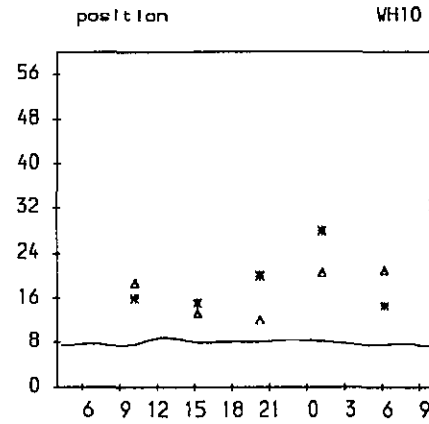
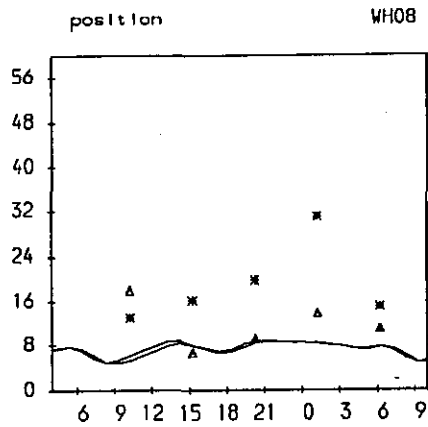
Green Island Wet Spring calibration 28/11/93

Chlorophyll (ug/l) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



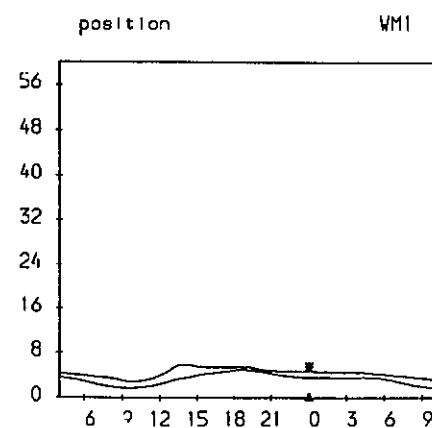
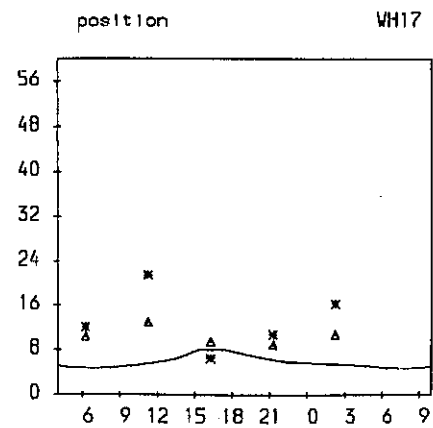
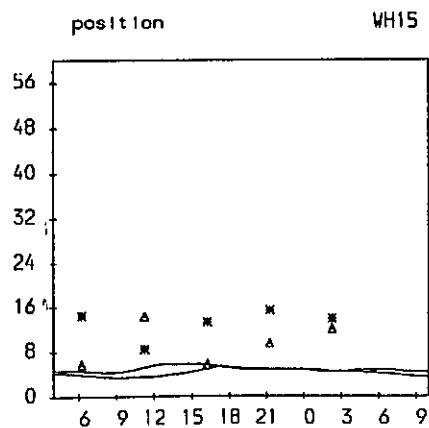
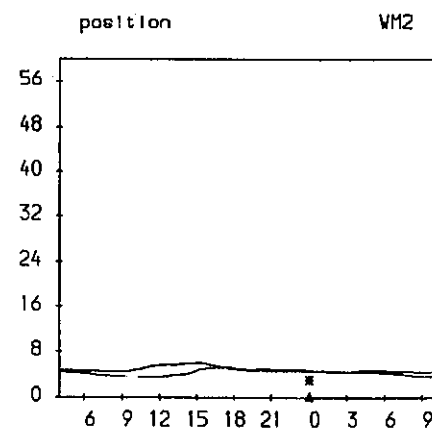
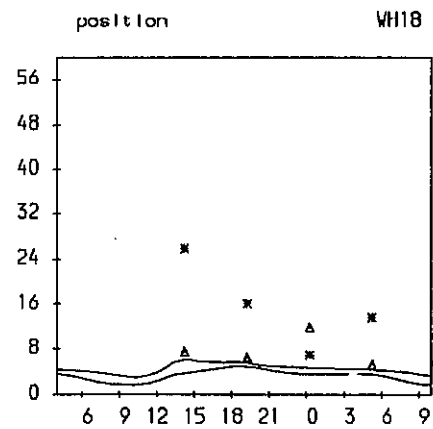
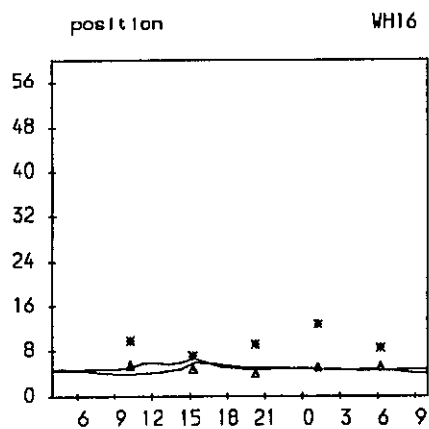
Green Island Wet Spring calibration 28/11/93

Chlorophyll (ug/l) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



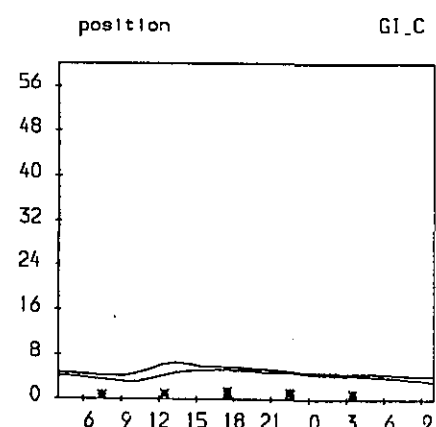
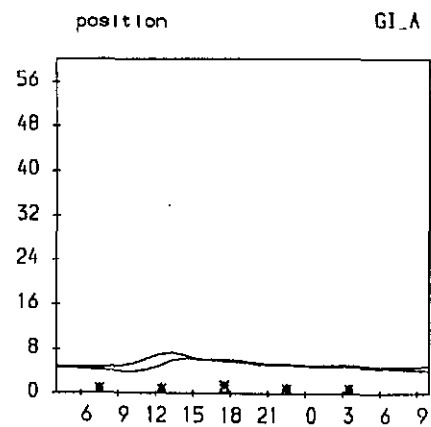
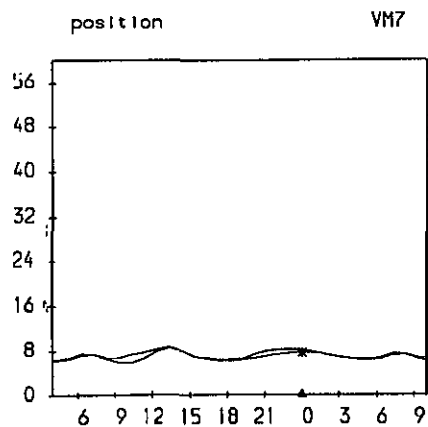
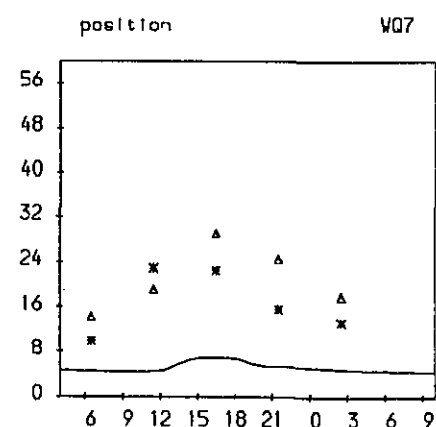
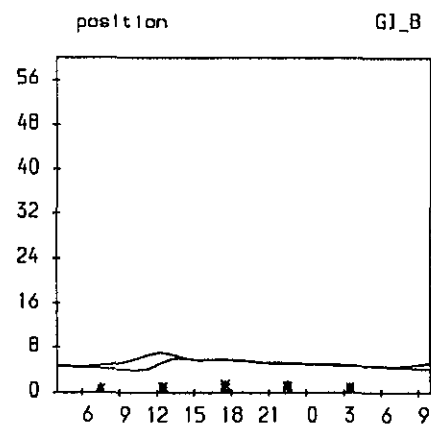
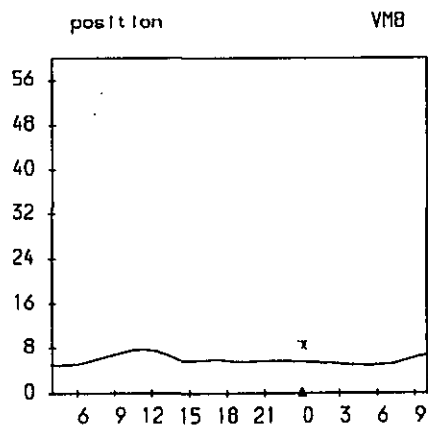
Green Island Wet Spring calibration 28/11/93

Chlorophyll (ug/l) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



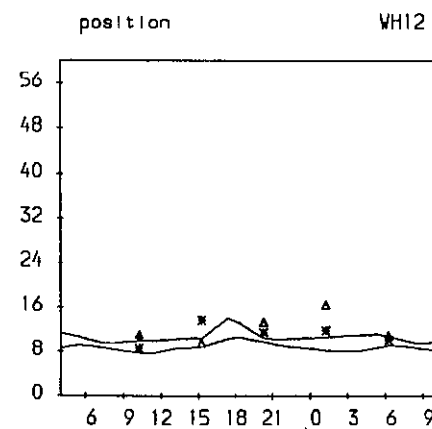
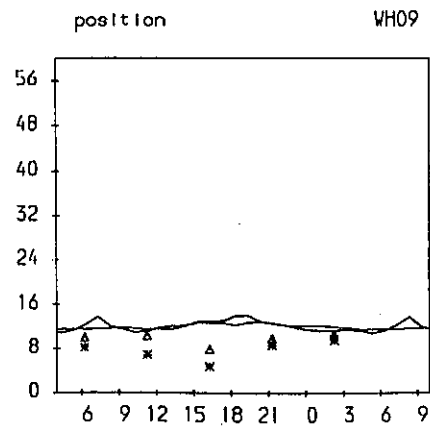
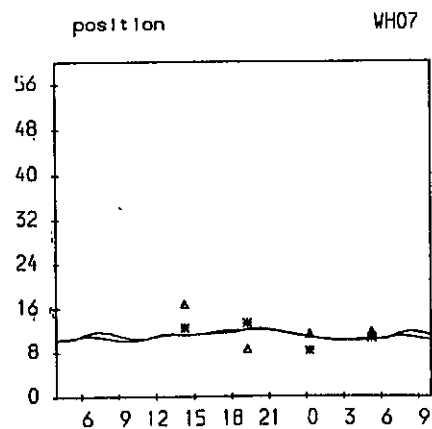
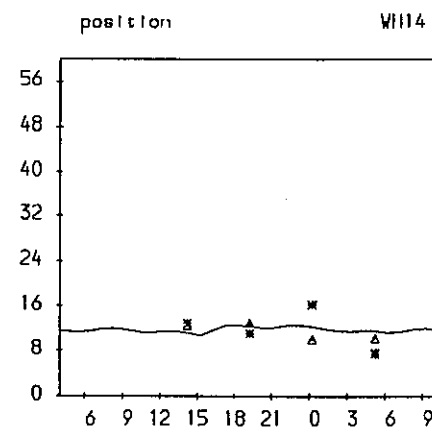
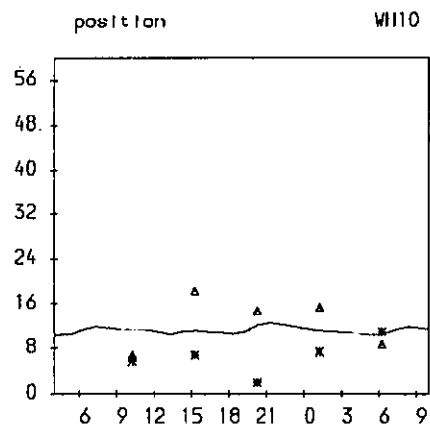
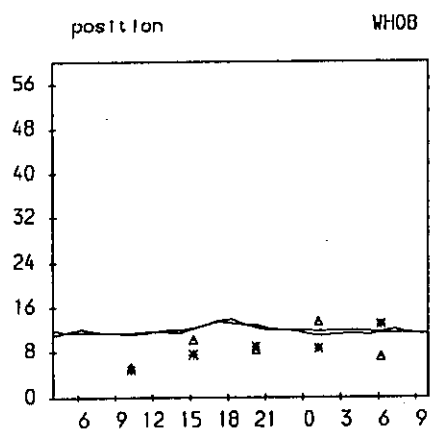
Green Island Wet Spring calibration 28/11/93

Suspended Solids (mg/L) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



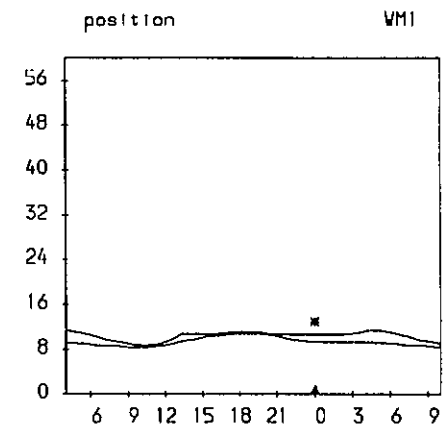
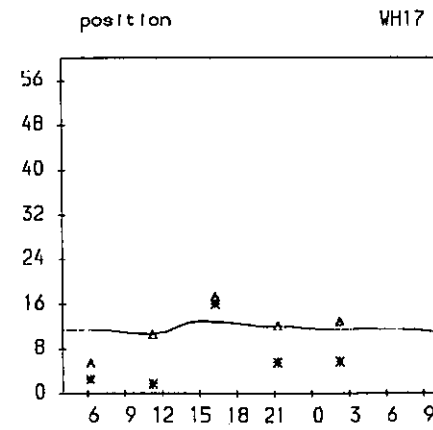
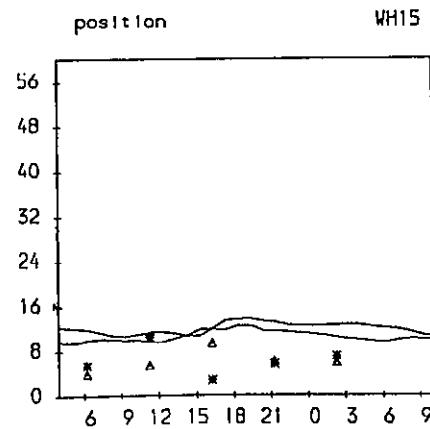
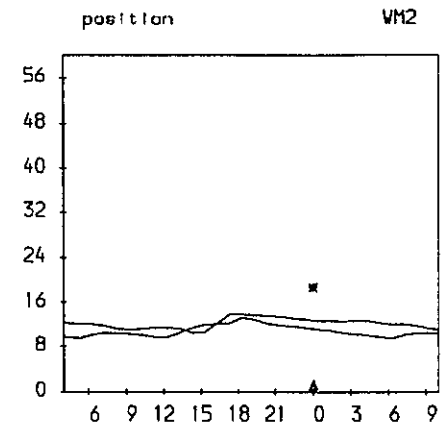
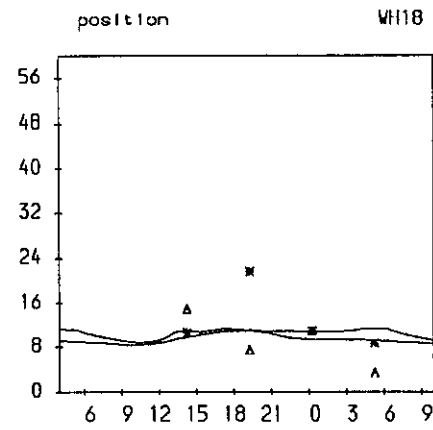
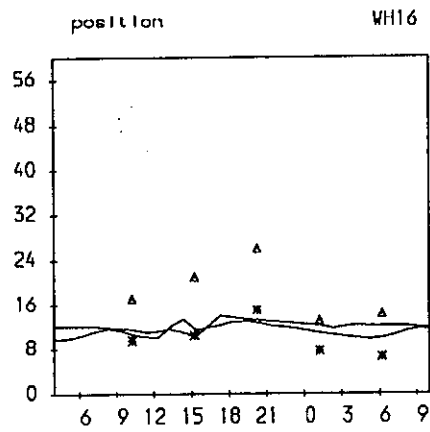
Green Island Wet Spring calibration 28/11/93

Suspended Solids (mg/L) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



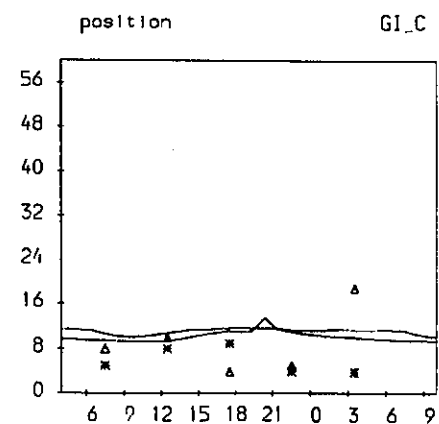
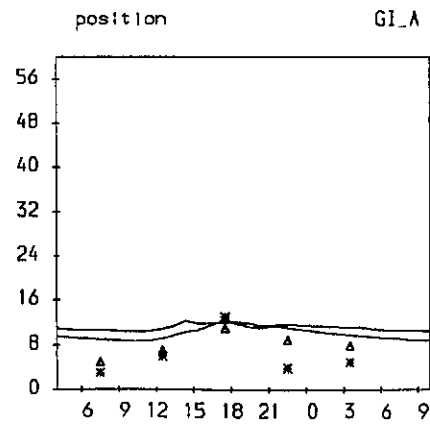
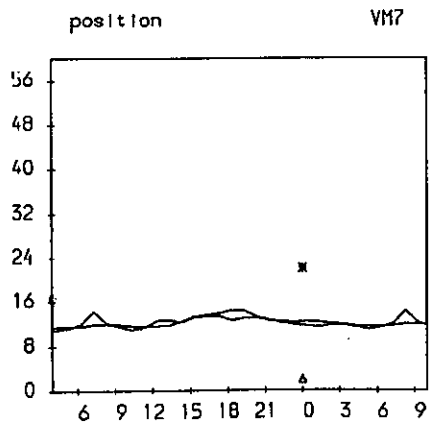
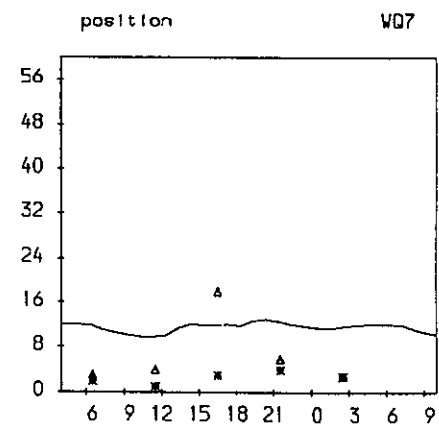
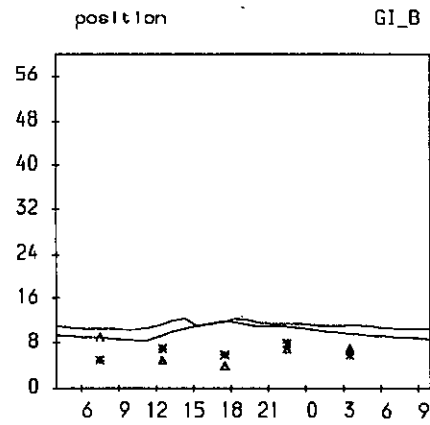
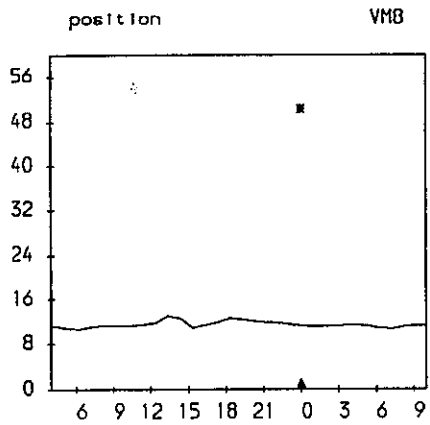
Green Island Wet Spring calibration 28/11/93

Suspended Solids (mg/L) against time

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



Green Island Wet Spring calibration 28/11/93

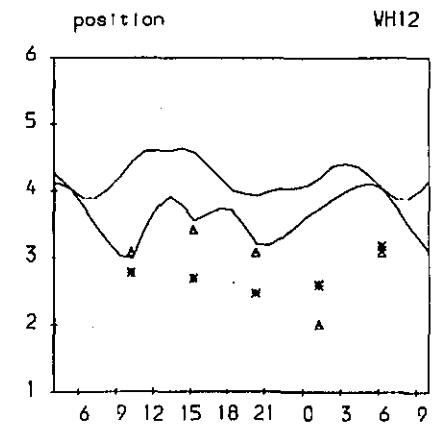
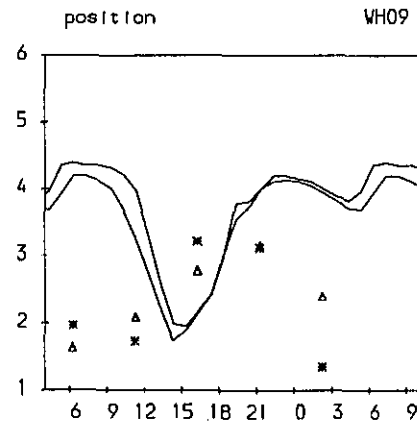
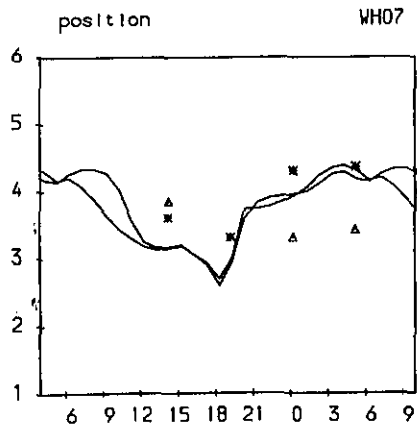
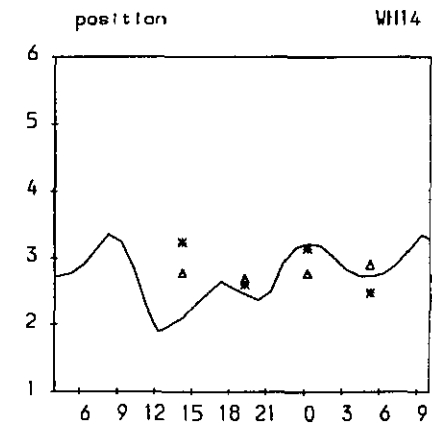
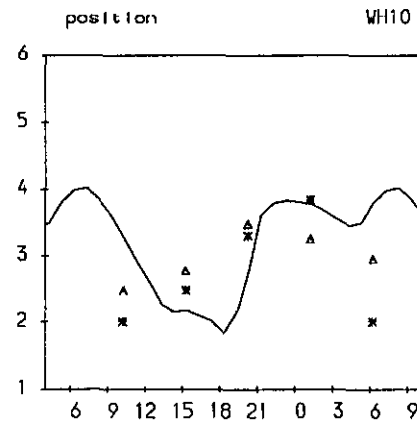
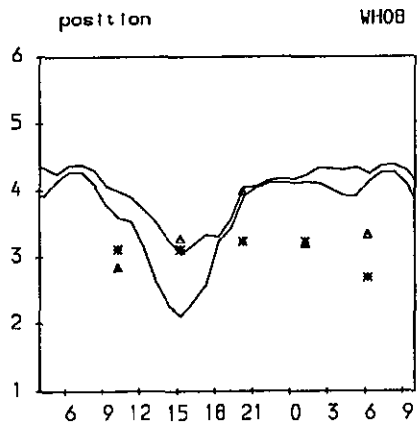
E.Coli (no/100ml) against time

(log to base 10 on y-axis)

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



Green Island Wet Spring calibration 28/11/93

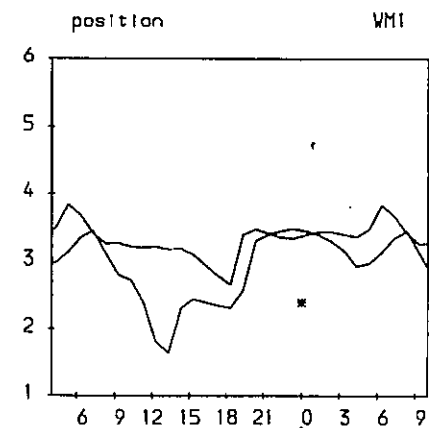
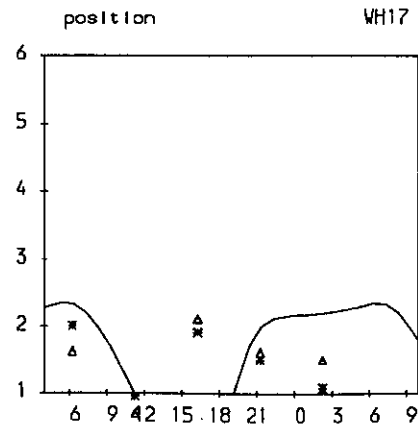
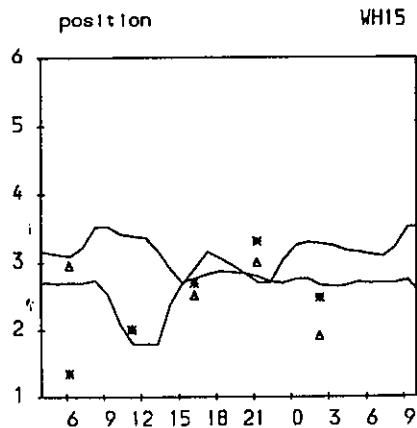
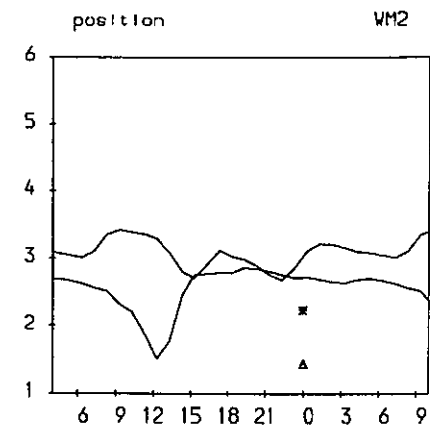
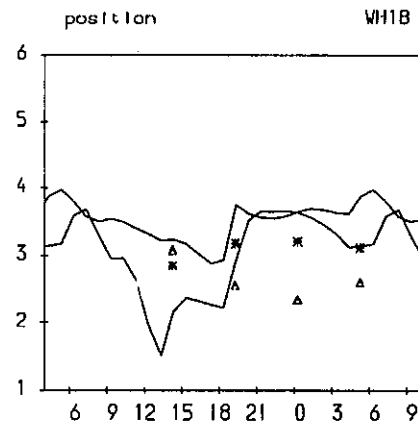
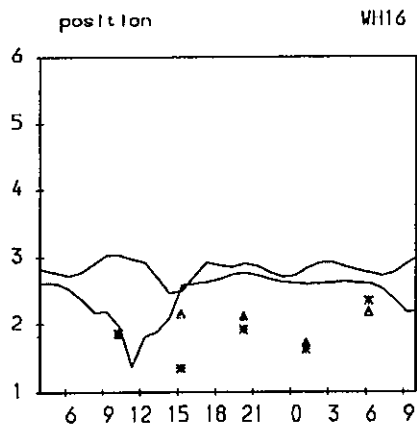
E.Coli (no/100ml) against time

(log to base 10 on y-axis)

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



Green Island Wet Spring calibration 28/11/93

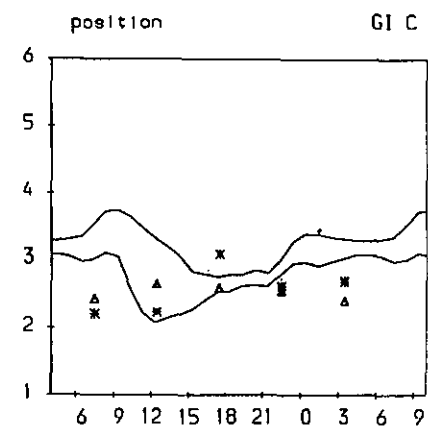
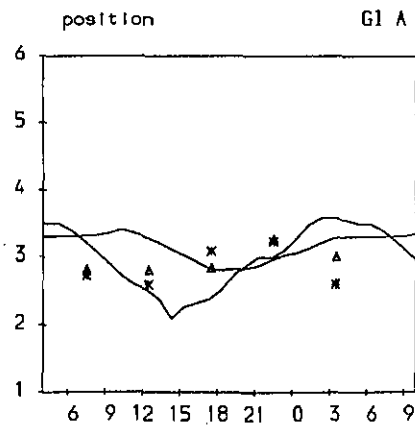
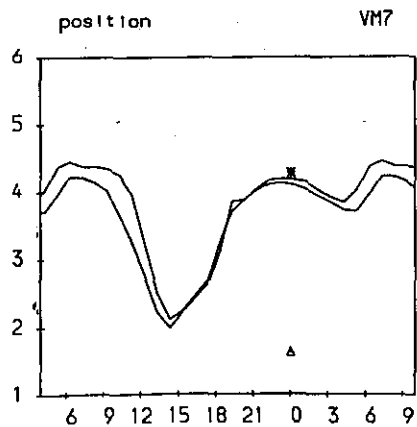
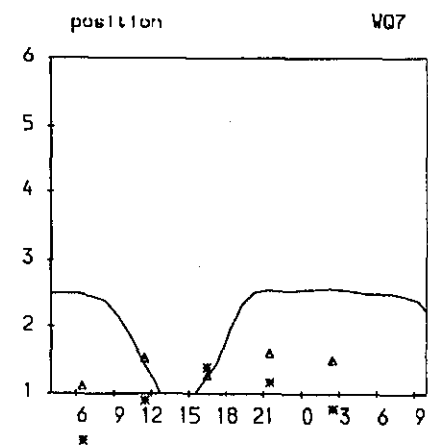
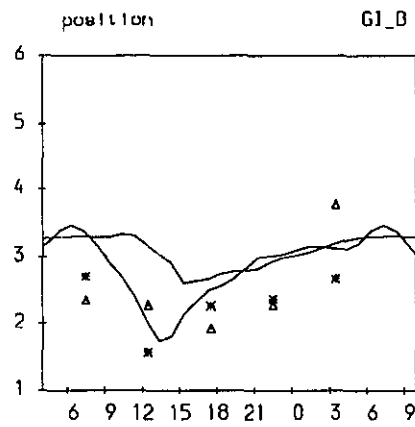
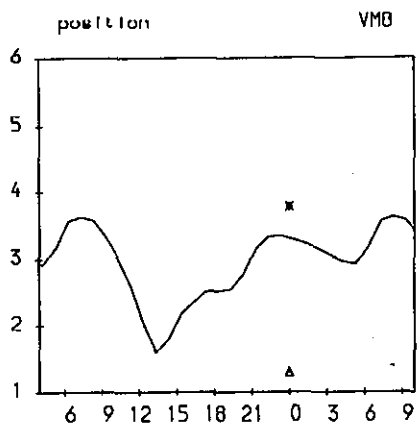
E.Coli (no/100ml) against time

(log to base 10 on y-axis)

2 Layer, 100m grid

— Predicted

Observed symbols: * Upper layer, Δ Lower layer



APPENDIX 2

CASE 2 (BASELINE)

TABLES 1 - 4

TABLE 1

GREEN ISLAND RECLAMATION Dry Season Neap Tide - Baseline Conditions

2 layers
26 stations
Averaged over 25 steps

Station	Layer	Height	Temp	Salin	DO%	BOD	Amm	OxN	OrgN	Chl	SS	EColi
1	1	9.29	18.22	30.97	58.02	2.07	0.27	0.15	0.28	1.50	14.62	7318.
1	2	29.19	18.23	30.98	57.93	2.02	0.27	0.15	0.27	1.49	14.35	9673.
2	1	9.29	17.98	31.04	50.07	2.75	0.27	0.20	0.39	1.42	14.83	9283.
2	2	2.88	17.98	31.04	49.71	2.76	0.27	0.20	0.39	1.41	14.81	10412.
3	1	9.28	18.00	31.05	51.69	2.77	0.27	0.20	0.39	1.41	15.18	16730.
3	2	4.40	18.00	31.05	51.38	2.77	0.27	0.20	0.39	1.40	15.15	18228.
4	1	9.29	17.89	31.10	51.63	2.94	0.24	0.21	0.43	1.33	14.88	14154.
4	2	2.50	17.90	31.10	51.39	3.02	0.25	0.21	0.44	1.33	14.97	20406.
5	1	9.28	17.90	31.10	51.98	2.85	0.23	0.21	0.43	1.33	14.87	10597.
5	2	4.35	17.91	31.10	51.64	2.91	0.23	0.21	0.43	1.32	14.92	15721.
6	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.
6	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.
7	1	9.29	17.93	31.12	54.67	2.65	0.20	0.20	0.41	1.30	14.88	4974.
7	2	5.67	17.93	31.12	54.48	2.66	0.20	0.19	0.41	1.28	14.95	6931.
8	1	9.30	18.00	31.12	57.79	2.55	0.18	0.18	0.40	1.23	16.34	5110.
8	2	3.57	18.00	31.12	57.45	2.56	0.18	0.18	0.40	1.23	16.27	6095.
9	1	9.30	17.98	31.13	56.66	2.52	0.19	0.18	0.41	1.26	14.05	2915.
9	2	0.00	17.98	31.13	56.66	2.52	0.19	0.18	0.41	1.26	14.05	2915.
10	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.
10	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.
11	1	9.30	18.24	31.13	39.41	4.14	0.24	0.21	0.55	1.17	12.56	13428.
11	2	4.71	18.25	31.13	38.24	4.13	0.24	0.21	0.55	1.16	12.07	17278.

Station	Layer	Height	Temp	Salin	DO%	BOD	Amm	OxN	OrgN	Chl	SS	EColi
12	1	9.30	18.69	31.13	82.24	1.91	0.07	0.10	0.29	1.19	18.98	4043.
12	2	4.23	18.70	31.13	82.06	1.90	0.07	0.10	0.29	1.18	18.29	4452.
13	1	8.28	18.38	31.14	69.66	1.98	0.10	0.13	0.33	1.07	21.19	1959.
13	2	0.00	18.38	31.14	69.66	1.98	0.10	0.13	0.33	1.07	21.19	1959.
14	1	9.30	18.42	31.14	76.44	1.58	0.05	0.11	0.28	1.12	22.95	161.
14	2	6.59	18.44	31.14	76.02	1.59	0.05	0.11	0.28	1.10	22.96	195.
15	1	9.30	18.41	31.14	79.01	1.56	0.04	0.10	0.28	1.22	22.58	95.
15	2	4.80	18.42	31.14	78.81	1.56	0.04	0.10	0.28	1.20	22.59	109.
16	1	9.54	17.82	31.19	94.12	1.17	0.00	0.06	0.26	3.37	5.39	1.
16	2	0.00	17.82	31.19	94.12	1.17	0.00	0.06	0.26	3.37	5.39	1.
17	1	9.29	18.10	31.15	74.12	1.51	0.05	0.11	0.28	1.36	18.43	1256.
17	2	27.75	18.12	31.15	73.62	1.50	0.05	0.11	0.28	1.34	18.44	1943.
18	1	9.29	18.11	31.15	74.60	1.49	0.05	0.11	0.28	1.38	18.51	731.
18	2	27.89	18.13	31.15	74.01	1.49	0.05	0.11	0.28	1.35	18.54	1134.
19	1	9.30	18.45	31.14	77.23	1.59	0.05	0.11	0.28	1.12	23.20	148.
19	2	5.91	18.46	31.14	76.93	1.59	0.05	0.11	0.28	1.11	23.20	176.
20	1	9.29	18.01	31.13	58.32	2.52	0.18	0.18	0.39	1.23	16.42	5011.
20	2	2.64	18.01	31.12	57.97	2.54	0.18	0.18	0.40	1.22	16.37	5944.
21	1	9.30	18.29	31.14	68.99	1.88	0.09	0.13	0.32	1.07	20.42	994.
21	2	3.50	18.29	31.14	68.78	1.87	0.09	0.13	0.32	1.07	19.78	1103.
22	1	9.30	18.26	31.14	68.80	1.83	0.08	0.13	0.32	1.07	19.20	1809.
22	2	6.26	18.27	31.14	68.55	1.82	0.08	0.13	0.32	1.06	18.65	1867.
23	1	9.30	18.29	31.14	69.60	1.79	0.08	0.13	0.31	1.06	20.03	975.
23	2	3.94	18.29	31.14	69.18	1.79	0.08	0.13	0.31	1.06	19.12	1198.
24	1	9.29	18.29	31.14	71.01	1.67	0.07	0.12	0.30	1.07	20.59	461.
24	2	12.02	18.31	31.14	70.85	1.66	0.06	0.12	0.30	1.05	20.51	547.

Station	Layer	Height	Temp	Salin	DO%	BOD	Amm	OxN	OrgN	Chl	SS	EColi
25	1	9.58	17.73	31.17	89.94	1.24	0.01	0.07	0.27	2.95	9.05	3.
25	2	0.00	17.73	31.17	89.94	1.24	0.01	0.07	0.27	2.95	9.05	3.
26	1	10.11	18.15	31.13	64.75	2.17	0.13	0.15	0.35	1.13	17.15	5329.
26	2	0.00	18.15	31.13	64.75	2.17	0.13	0.15	0.35	1.13	17.15	5329.

TABLE 2

GREEN ISLAND RECLAMATION Dry Season Spring Tide - Baseline Conditions

2 layers
26 stations
Averaged over 26 steps

Station	Layer	Height	Temp	Salin	DO%	BOD	Amm	OxN	OrgN	Chl	SS	EColi
1	1	9.46	18.00	31.17	65.19	1.88	0.20	0.13	0.33	1.03	18.46	5887.
1	2	29.19	18.01	31.18	65.05	1.85	0.20	0.13	0.32	1.02	19.28	7698.
2	1	9.46	17.82	31.16	56.99	2.26	0.24	0.18	0.41	1.14	16.21	7996.
2	2	2.88	17.83	31.16	56.71	2.26	0.24	0.18	0.41	1.13	16.19	8896.
3	1	9.46	17.82	31.16	57.83	2.33	0.25	0.17	0.41	1.12	16.59	15754.
3	2	4.40	17.83	31.16	57.58	2.33	0.25	0.17	0.41	1.12	16.55	17620.
4	1	9.46	17.64	31.16	53.76	2.64	0.27	0.20	0.43	1.18	15.80	14914.
4	2	2.50	17.65	31.16	53.55	2.72	0.27	0.20	0.44	1.18	15.90	22286.
5	1	9.46	17.63	31.16	53.95	2.56	0.26	0.20	0.42	1.18	15.75	11528.
5	2	4.35	17.64	31.16	53.58	2.62	0.26	0.20	0.42	1.17	15.80	17016.
6	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.
6	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.
7	1	9.47	17.55	31.16	54.88	2.44	0.24	0.20	0.38	1.19	15.11	6735.
7	2	5.67	17.56	31.16	54.61	2.46	0.24	0.20	0.38	1.17	15.16	8803.
8	1	9.47	17.55	31.16	57.33	2.36	0.22	0.20	0.35	1.14	16.31	6287.
8	2	3.57	17.55	31.16	57.00	2.38	0.22	0.20	0.35	1.14	16.26	7620.
9	1	9.47	17.47	31.16	57.48	2.20	0.21	0.20	0.33	1.19	13.46	2664.
9	2	0.00	17.47	31.16	57.48	2.20	0.21	0.20	0.33	1.19	13.46	2664.
10	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.
10	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.
11	1	9.47	17.68	31.21	50.09	3.42	0.23	0.19	0.38	1.01	14.23	10685.
11	2	4.71	17.69	31.21	49.08	3.41	0.23	0.20	0.38	1.00	13.70	13528.

Station	Layer	Height	Temp	Salin	DO%	BOD	Amm	OxN	OrgN	Chl	SS	EColi
12	1	9.48	18.06	31.24	87.15	1.40	0.07	0.09	0.13	1.07	22.81	4156.
12	2	4.23	18.06	31.24	87.02	1.39	0.06	0.09	0.13	1.07	22.01	4491.
13	1	8.45	17.70	31.19	72.82	1.60	0.11	0.14	0.20	1.01	21.05	1984.
13	2	0.00	17.70	31.19	72.82	1.60	0.11	0.14	0.20	1.01	21.05	1984.
14	1	9.47	17.73	31.14	80.67	1.13	0.05	0.11	0.15	0.94	22.78	492.
14	2	6.59	17.74	31.14	80.31	1.13	0.05	0.11	0.15	0.93	22.75	602.
15	1	9.47	17.82	31.20	83.75	1.10	0.04	0.10	0.13	0.99	24.88	192.
15	2	4.80	17.83	31.20	83.62	1.09	0.04	0.10	0.13	0.99	24.85	217.
16	1	9.71	17.46	31.17	84.46	1.00	0.03	0.10	0.18	1.21	16.97	4.
16	2	0.00	17.46	31.17	84.46	1.00	0.03	0.10	0.18	1.21	16.97	4.
17	1	9.47	17.54	30.90	79.30	1.18	0.06	0.11	0.20	0.87	15.39	1755.
17	2	27.75	17.55	30.90	78.82	1.17	0.06	0.11	0.20	0.85	15.44	2751.
18	1	9.47	17.55	30.92	79.35	1.16	0.05	0.11	0.19	0.87	15.79	1139.
18	2	27.89	17.56	30.92	78.80	1.15	0.05	0.11	0.19	0.85	15.82	1791.
19	1	9.47	17.77	31.16	81.76	1.12	0.05	0.10	0.14	0.96	23.61	400.
19	2	5.91	17.77	31.16	81.52	1.12	0.05	0.10	0.14	0.95	23.61	472.
20	1	9.47	17.55	31.16	57.74	2.35	0.22	0.20	0.35	1.14	16.37	6335.
20	2	2.64	17.55	31.16	57.40	2.37	0.22	0.20	0.35	1.13	16.35	7614.
21	1	9.47	17.65	31.17	71.48	1.54	0.11	0.14	0.21	1.00	20.08	1073.
21	2	3.50	17.65	31.17	71.27	1.53	0.11	0.14	0.21	0.99	19.45	1179.
22	1	9.47	17.64	31.16	73.28	1.40	0.09	0.13	0.19	0.94	19.93	1765.
22	2	6.26	17.65	31.16	73.16	1.38	0.09	0.13	0.19	0.93	19.41	1860.
23	1	9.47	17.66	31.16	73.80	1.37	0.08	0.13	0.19	0.95	20.50	970.
23	2	3.94	17.66	31.16	73.49	1.37	0.08	0.13	0.19	0.94	19.66	1186.
24	1	9.47	17.62	31.12	75.26	1.24	0.07	0.12	0.18	0.91	20.23	795.
24	2	12.02	17.63	31.12	75.08	1.23	0.07	0.12	0.17	0.89	20.09	1036.

Station	Layer	Height	Temp	Salin	DO%	BOD	Amm	OxN	OrgN	Chl	SS	EColi
25	1	9.75	17.54	31.17	82.83	1.03	0.04	0.10	0.16	1.09	18.76	12.
25	2	0.00	17.54	31.17	82.83	1.03	0.04	0.10	0.16	1.09	18.76	12.
26	1	10.28	17.56	31.16	66.25	1.89	0.15	0.16	0.26	1.04	17.11	5452.
26	2	0.00	17.56	31.16	66.25	1.89	0.15	0.16	0.26	1.04	17.11	5452.

TABLE 3

GREEN ISLAND RECLAMATION Wet Season Neap Tide - Baseline Conditions

2 layers
26 stations
Averaged over 25 steps

Station	Layer	Height	Temp	Salin	DO%	BOD	Amm	OxN	OrgN	Chl	SS	EColi
1	1	8.04	26.36	31.46	64.72	2.78	0.21	0.15	0.40	5.56	5.96	6177.
1	2	30.49	26.41	31.40	62.86	2.82	0.24	0.14	0.37	4.64	6.54	14597.
2	1	8.27	26.38	31.42	59.87	3.70	0.17	0.21	0.58	8.77	6.67	6513.
2	2	3.95	26.33	31.50	51.81	3.52	0.20	0.20	0.52	6.92	6.52	19765.
3	1	8.20	26.37	31.42	58.94	3.65	0.18	0.20	0.56	8.20	6.96	10808.
3	2	5.54	26.33	31.49	51.14	3.74	0.23	0.20	0.54	6.81	7.01	38743.
4	1	8.18	26.44	31.22	60.41	3.96	0.13	0.23	0.69	11.23	6.65	8806.
4	2	3.66	26.45	31.24	48.13	4.38	0.20	0.24	0.70	9.90	6.89	48600.
5	1	8.21	26.44	31.21	60.51	3.92	0.13	0.23	0.69	11.28	6.62	7536.
5	2	5.48	26.44	31.24	47.84	4.16	0.18	0.24	0.68	9.85	6.86	34261.
6	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.
6	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.
7	1	8.35	26.49	31.00	66.70	3.87	0.09	0.22	0.74	13.39	6.07	4477.
7	2	6.67	26.48	31.06	48.24	3.96	0.15	0.24	0.71	11.09	6.39	21827.
8	1	8.42	26.47	30.95	65.70	3.82	0.09	0.22	0.73	13.03	6.33	4242.
8	2	4.49	26.49	30.96	50.51	3.89	0.13	0.23	0.72	11.64	6.27	19721.
9	1	9.35	26.52	30.65	81.62	3.69	0.04	0.19	0.81	16.53	4.56	1573.
9	2	0.00	26.52	30.65	81.62	3.69	0.04	0.19	0.81	16.53	4.56	1573.
10	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.
10	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.
11	1	8.89	26.55	29.00	51.37	3.69	0.11	0.31	0.76	12.51	5.39	4114.
11	2	5.18	26.35	29.77	-4.79	4.18	0.34	0.37	0.75	7.59	3.72	59490.

Station	Layer	Height	Temp	Salin	DO%	BOD	Amm	OxN	OrgN	Chl	SS	EColi
12	1	9.38	26.58	27.51	62.34	1.65	0.03	0.15	0.36	4.37	6.03	790.
12	2	4.21	26.51	27.93	43.16	1.68	0.07	0.17	0.36	3.48	4.51	3321.
13	1	8.33	26.18	30.19	77.50	2.50	0.02	0.15	0.55	10.16	5.79	903.
13	2	0.00	26.18	30.19	77.50	2.50	0.02	0.15	0.55	10.16	5.79	903.
14	1	8.43	26.02	29.51	74.42	1.54	0.01	0.10	0.33	4.78	6.45	149.
14	2	7.52	25.15	32.20	65.24	1.55	0.02	0.09	0.29	3.22	5.94	1520.
15	1	8.47	26.06	29.56	79.17	1.54	0.01	0.08	0.35	5.57	6.03	71.
15	2	5.69	25.58	31.01	69.07	1.51	0.02	0.09	0.32	4.18	5.79	395.
16	1	9.59	25.71	31.42	87.70	1.65	0.01	0.05	0.36	6.21	4.82	8.
16	2	0.00	25.71	31.42	87.70	1.65	0.01	0.05	0.36	6.21	4.82	8.
17	1	7.98	25.33	31.89	78.29	1.78	0.01	0.08	0.35	5.26	6.12	562.
17	2	29.13	24.63	33.44	65.35	1.62	0.03	0.09	0.26	2.13	6.04	5017.
18	1	8.00	25.35	31.81	77.58	1.76	0.01	0.09	0.35	5.20	6.13	418.
18	2	29.24	24.67	33.38	65.52	1.60	0.02	0.09	0.26	2.20	5.98	3156.
19	1	8.46	26.05	29.43	75.20	1.53	0.01	0.09	0.33	4.89	6.45	126.
19	2	6.81	25.28	31.85	65.87	1.54	0.02	0.09	0.30	3.44	5.97	1075.
20	1	8.42	26.47	30.95	65.46	3.82	0.09	0.22	0.73	12.94	6.37	4603.
20	2	3.57	26.49	30.96	50.90	3.92	0.14	0.23	0.72	11.65	6.26	21394.
21	1	8.47	26.17	30.34	76.11	2.54	0.02	0.14	0.54	9.77	5.95	574.
21	2	4.38	25.86	31.21	60.98	2.34	0.04	0.14	0.49	7.80	4.04	2773.
22	1	8.36	26.07	30.53	78.10	2.50	0.02	0.13	0.53	9.45	6.01	1472.
22	2	7.26	25.37	32.01	61.06	1.89	0.03	0.11	0.37	4.87	4.75	3008.
23	1	8.41	26.09	30.42	77.59	2.40	0.02	0.13	0.51	9.14	6.01	823.
23	2	4.88	25.49	31.78	61.37	1.97	0.03	0.12	0.40	5.53	4.55	2805.
24	1	8.35	25.90	30.44	76.09	1.97	0.01	0.11	0.42	6.88	6.17	421.
24	2	13.02	24.96	32.79	62.87	1.62	0.03	0.10	0.29	2.93	5.76	3042.

Station	Layer	Height	Temp	Salin	DO%	BOD	Amm	OxN	OrgN	Chl	SS	EColi
25	1	9.63	25.58	31.39	82.77	1.65	0.01	0.06	0.35	5.64	5.62	31.
25	2	0.00	25.58	31.39	82.77	1.65	0.01	0.06	0.35	5.64	5.62	31.
26	1	10.16	26.34	30.70	74.60	3.34	0.04	0.18	0.68	12.61	5.84	4362.
26	2	0.00	26.34	30.70	74.60	3.34	0.04	0.18	0.68	12.61	5.84	4362.

TABLE 4

GREEN ISLAND RECLAMATION Wet Season Spring Tide - Baseline Condition

Averaged over 2 layers
26 stations
25 steps

Station	Layer	Height	Temp	Salin	DO%	BOD	Amm	OxN	OrgN	Chl	SS	EColi
1	1	8.09	27.57	29.88	65.62	2.93	0.08	0.18	0.46	5.13	12.65	6048.
1	2	30.49	27.61	30.18	60.89	2.85	0.08	0.17	0.43	3.75	12.57	10511.
2	1	8.33	27.45	29.25	72.70	3.09	0.08	0.20	0.56	8.01	10.13	8143.
2	2	3.95	27.51	29.48	67.32	3.04	0.08	0.20	0.54	6.76	10.16	13525.
3	1	8.24	27.46	29.30	72.73	3.09	0.08	0.20	0.55	7.62	10.53	12854.
3	2	5.54	27.51	29.43	67.83	3.15	0.10	0.20	0.54	6.70	10.50	28383.
4	1	8.24	27.39	28.88	80.24	2.99	0.08	0.20	0.56	9.02	10.06	8572.
4	2	3.66	27.41	28.90	76.61	3.32	0.11	0.20	0.58	8.70	10.21	32466.
5	1	8.26	27.39	28.87	80.09	2.94	0.07	0.20	0.56	8.96	10.07	7669.
5	2	5.48	27.40	28.90	75.86	3.16	0.10	0.20	0.57	8.56	10.19	25383.
6	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.
6	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.
7	1	8.41	27.36	28.74	83.29	2.78	0.07	0.20	0.54	9.15	9.97	4705.
7	2	6.67	27.37	28.74	79.57	2.82	0.08	0.20	0.53	8.54	10.33	11611.
8	1	8.49	27.35	28.72	82.96	2.61	0.07	0.19	0.50	8.26	10.75	3788.
8	2	4.49	27.36	28.70	80.89	2.55	0.08	0.19	0.48	7.77	10.72	7009.
9	1	9.42	27.35	28.62	87.03	2.61	0.06	0.20	0.53	9.50	8.74	2230.
9	2	0.00	27.35	28.62	87.03	2.61	0.06	0.20	0.53	9.50	8.74	2230.
10	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.
10	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.
11	1	8.96	27.49	28.28	77.95	2.85	0.12	0.21	0.46	6.78	10.67	7762.
11	2	5.18	27.48	28.41	53.53	3.34	0.20	0.24	0.51	5.78	7.60	42620.

Station	Layer	Height	Temp	Salin	DO%	BOD	Amm	OxN	OrgN	Chl	SS	EColi
12	1	9.47	27.51	28.31	96.43	1.63	0.14	0.14	0.29	5.30	10.68	1704.
12	2	4.21	27.52	28.29	91.89	1.54	0.15	0.14	0.27	4.78	9.57	2214.
13	1	8.40	27.40	28.52	84.03	2.17	0.08	0.18	0.41	6.58	10.17	1287.
13	2	0.00	27.40	28.52	84.03	2.17	0.08	0.18	0.41	6.58	10.17	1287.
14	1	8.49	27.39	28.61	87.27	1.71	0.10	0.15	0.31	4.89	11.44	471.
14	2	7.52	27.22	28.96	77.85	1.69	0.08	0.15	0.33	4.27	10.34	1184.
15	1	8.53	27.45	28.52	91.38	1.66	0.12	0.14	0.29	5.01	11.76	298.
15	2	5.69	27.39	28.61	84.58	1.67	0.10	0.15	0.31	4.65	11.17	563.
16	1	9.66	27.42	28.45	92.79	1.75	0.06	0.15	0.34	5.99	11.09	21.
16	2	0.00	27.42	28.45	92.79	1.75	0.06	0.15	0.34	5.99	11.09	21.
17	1	8.04	27.10	29.22	78.92	1.74	0.05	0.15	0.35	4.52	9.93	1014.
17	2	29.13	26.82	29.90	73.51	1.73	0.05	0.14	0.34	3.32	9.16	3091.
18	1	8.06	27.11	29.19	79.01	1.72	0.06	0.15	0.34	4.48	9.99	770.
18	2	29.24	26.85	29.82	73.76	1.70	0.05	0.14	0.34	3.39	9.23	1981.
19	1	8.52	27.41	28.58	89.01	1.68	0.11	0.15	0.30	4.91	11.69	438.
19	2	6.81	27.28	28.84	79.73	1.69	0.08	0.15	0.32	4.38	10.62	1006.
20	1	8.49	27.35	28.71	83.07	2.59	0.07	0.19	0.49	8.15	10.77	3989.
20	2	3.57	27.35	28.70	81.27	2.55	0.08	0.19	0.48	7.72	10.78	6941.
21	1	8.54	27.38	28.56	85.12	1.90	0.08	0.16	0.36	5.78	10.35	586.
21	2	4.38	27.33	28.69	78.86	1.79	0.07	0.16	0.35	5.12	8.57	960.
22	1	8.43	27.34	28.64	83.21	1.86	0.07	0.16	0.36	5.54	10.17	1069.
22	2	7.26	27.26	28.84	77.58	1.77	0.07	0.16	0.35	4.90	9.40	1376.
23	1	8.47	27.36	28.60	83.80	1.83	0.07	0.16	0.35	5.44	10.32	623.
23	2	4.88	27.29	28.77	78.46	1.77	0.07	0.16	0.35	4.94	9.29	1068.
24	1	8.41	27.29	28.76	81.69	1.77	0.07	0.16	0.35	5.12	10.28	572.
24	2	13.02	27.14	29.14	75.34	1.72	0.06	0.15	0.34	4.30	9.81	1600.

Station	Layer	Height	Temp	Salin	DO%	BOD	Amm	OxN	OrgN	Chl	SS	EColi
25	1	9.70	27.39	28.58	89.06	1.72	0.08	0.15	0.32	5.24	11.11	103.
25	2	0.00	27.39	28.58	89.06	1.72	0.08	0.15	0.32	5.24	11.11	103.
26	1	10.23	27.37	28.58	84.90	2.13	0.07	0.17	0.40	6.51	10.17	2981.
26	2	0.00	27.37	28.58	84.90	2.13	0.07	0.17	0.40	6.51	10.17	2981.

APPENDIX 3

CASE 3 (1ST SCENARIO)

TABLES 5 - 8

TABLE 5

GREEN ISLAND RECLAMATION Dry Season Neap Tide - Scenario 1

Averaged over 25 steps
 26 stations
 2 layers

Station	Layer	Height	Temp	Salin	DO%	BOD	Amm	OxN	OrgN	Chl	.SS	EColi
1	1	9.29	18.22	30.97	58.00	2.08	0.27	0.15	0.28	1.50	14.61	7365.
1	2	29.19	18.24	30.98	57.90	2.02	0.27	0.15	0.27	1.49	14.34	9717.
2	1	9.29	17.99	31.04	50.06	2.76	0.27	0.20	0.39	1.43	14.82	9356.
2	2	2.88	17.99	31.04	49.71	2.76	0.27	0.20	0.39	1.42	14.80	10487.
3	1	9.28	18.00	31.05	51.67	2.78	0.27	0.20	0.39	1.41	15.17	16812.
3	2	4.40	18.01	31.05	51.36	2.78	0.27	0.20	0.39	1.40	15.14	18309.
4	1	9.29	17.90	31.10	51.44	2.96	0.24	0.21	0.44	1.34	14.84	14272.
4	2	2.50	17.91	31.10	51.20	3.04	0.25	0.21	0.44	1.33	14.93	20535.
5	1	9.28	17.91	31.10	51.79	2.87	0.23	0.21	0.43	1.34	14.83	10695.
5	2	4.35	17.91	31.10	51.45	2.93	0.24	0.21	0.43	1.33	14.88	15837.
6	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.
6	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.
7	1	9.29	17.93	31.12	54.47	2.67	0.20	0.20	0.42	1.30	14.84	5049.
7	2	5.67	17.94	31.12	54.27	2.68	0.20	0.20	0.42	1.29	14.91	7019.
8	1	9.29	18.01	31.12	57.59	2.56	0.18	0.18	0.40	1.24	16.26	5139.
8	2	3.57	18.01	31.12	57.25	2.58	0.19	0.18	0.40	1.23	16.19	6130.
9	1	9.30	17.99	31.13	56.53	2.54	0.19	0.19	0.41	1.27	14.04	2981.
9	2	0.00	17.99	31.13	56.53	2.54	0.19	0.19	0.41	1.27	14.04	2981.
10	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.
10	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.
11	1	9.30	18.25	31.13	39.55	4.16	0.24	0.21	0.55	1.17	12.67	13676.
11	2	4.71	18.26	31.13	38.39	4.15	0.24	0.21	0.55	1.16	12.18	17552.

Station	Layer	Height	Temp	Salin	DO%	BOD	Amm	OxN	OrgN	Chl	SS	EColi
12	1	9.30	18.69	31.13	82.24	1.91	0.07	0.10	0.30	1.19	19.03	4117.
12	2	4.23	18.70	31.13	82.06	1.90	0.07	0.10	0.29	1.18	18.35	4532.
13	1	8.28	18.39	31.14	69.71	1.98	0.10	0.13	0.33	1.07	21.17	1966.
13	2	0.00	18.39	31.14	69.71	1.98	0.10	0.13	0.33	1.07	21.17	1966.
14	1	9.30	18.43	31.14	76.41	1.59	0.05	0.11	0.28	1.12	22.99	165.
14	2	6.59	18.44	31.14	75.99	1.59	0.05	0.11	0.28	1.10	23.00	198.
15	1	9.30	18.41	31.14	79.01	1.56	0.04	0.10	0.28	1.22	22.63	98.
15	2	4.80	18.42	31.14	78.81	1.56	0.04	0.10	0.28	1.20	22.63	113.
16	1	9.54	17.82	31.19	94.09	1.18	0.00	0.06	0.26	3.37	5.44	1.
16	2	0.00	17.82	31.19	94.09	1.18	0.00	0.06	0.26	3.37	5.44	1.
17	1	9.29	18.11	31.15	74.19	1.51	0.05	0.11	0.28	1.37	18.50	1258.
17	2	27.75	18.13	31.15	73.70	1.51	0.05	0.11	0.28	1.35	18.51	1935.
18	1	9.29	18.12	31.15	74.66	1.49	0.05	0.11	0.28	1.38	18.59	729.
18	2	27.89	18.13	31.15	74.09	1.49	0.05	0.11	0.28	1.36	18.61	1122.
19	1	9.30	18.45	31.14	77.20	1.59	0.05	0.11	0.28	1.12	23.23	151.
19	2	5.91	18.46	31.14	76.91	1.59	0.05	0.11	0.28	1.11	23.23	179.
20	1	9.29	18.01	31.13	58.08	2.54	0.18	0.18	0.40	1.23	16.32	5050.
20	2	2.64	18.01	31.12	57.74	2.56	0.18	0.18	0.40	1.23	16.28	5988.
21	1	9.30	18.28	31.14	68.59	1.90	0.09	0.14	0.32	1.08	20.12	1020.
21	2	3.50	18.29	31.14	68.37	1.89	0.09	0.14	0.32	1.07	19.44	1134.
22	1	9.30	18.25	31.14	68.28	1.86	0.09	0.14	0.32	1.08	18.73	1854.
22	2	6.26	18.25	31.14	67.96	1.84	0.09	0.13	0.32	1.07	18.11	1959.
23	1	9.30	18.28	31.14	68.99	1.82	0.08	0.13	0.32	1.07	19.49	1092.
23	2	3.94	18.28	31.14	68.53	1.82	0.08	0.13	0.32	1.07	18.55	1336.
24	1	9.29	18.29	31.14	70.74	1.68	0.07	0.12	0.30	1.07	20.56	479.
24	2	12.02	18.32	31.14	70.98	1.65	0.06	0.12	0.30	1.06	20.72	468.

Station	Layer	Height	Temp	Salin	DO%	BOD	Amm	OxN	OrgN	Chl	SS	EColi
25	1	9.58	17.74	31.17	89.89	1.24	0.01	0.07	0.27	2.94	9.12	4.
25	2	0.00	17.74	31.17	89.89	1.24	0.01	0.07	0.27	2.94	9.12	4.
26	1	10.11	18.14	31.13	64.27	2.20	0.13	0.15	0.36	1.14	16.88	5518.
26	2	0.00	18.14	31.13	64.27	2.20	0.13	0.15	0.36	1.14	16.88	5518.

TABLE 6

GREEN ISLAND RECLAMATION Dry Season Spring Tide - Scenario 1

Averaged over 26 steps
 26 stations
 2 layers

Station	Layer	Height	Temp	Salin	DO%	BOD	Amm	OxN	OrgN	Chl	SS	EColi
1	1	9.46	18.00	31.17	65.16	1.88	0.20	0.13	0.33	1.03	18.44	5885.
1	2	29.19	18.01	31.18	65.02	1.85	0.20	0.13	0.32	1.02	19.26	7696.
2	1	9.46	17.82	31.16	56.89	2.26	0.24	0.18	0.41	1.14	16.14	7983.
2	2	2.88	17.82	31.16	56.62	2.27	0.24	0.18	0.41	1.14	16.12	8884.
3	1	9.46	17.82	31.16	57.73	2.33	0.25	0.17	0.41	1.13	16.51	15735.
3	2	4.40	17.82	31.16	57.47	2.33	0.25	0.17	0.41	1.12	16.46	17603.
4	1	9.46	17.64	31.16	53.58	2.64	0.27	0.20	0.43	1.19	15.64	14874.
4	2	2.50	17.64	31.16	53.37	2.73	0.27	0.20	0.44	1.19	15.74	22249.
5	1	9.46	17.63	31.16	53.78	2.56	0.26	0.20	0.42	1.19	15.59	11489.
5	2	4.35	17.64	31.16	53.40	2.63	0.26	0.20	0.43	1.18	15.64	16980.
6	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.
6	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.
7	1	9.47	17.55	31.16	54.72	2.44	0.24	0.21	0.38	1.20	14.91	6690.
7	2	5.67	17.55	31.16	54.44	2.46	0.24	0.21	0.38	1.19	14.96	8758.
8	1	9.47	17.54	31.16	57.10	2.37	0.22	0.20	0.36	1.15	16.06	6215.
8	2	3.57	17.55	31.16	56.77	2.38	0.22	0.20	0.36	1.15	16.01	7544.
9	1	9.47	17.47	31.16	57.41	2.20	0.21	0.20	0.33	1.20	13.27	2632.
9	2	0.00	17.47	31.16	57.41	2.20	0.21	0.20	0.33	1.20	13.27	2632.
10	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.
10	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.
11	1	9.47	17.68	31.21	49.99	3.42	0.23	0.19	0.38	1.01	14.13	10645.
11	2	4.71	17.68	31.21	48.98	3.41	0.23	0.20	0.38	1.00	13.60	13487.

Station	Layer	Height	Temp	Salin	DO%	BOD	Amm	OxN	OrgN	Chl	SS	EColi
12	1	9.48	18.05	31.24	87.11	1.40	0.07	0.09	0.13	1.07	22.74	4144.
12	2	4.23	18.06	31.24	86.99	1.39	0.06	0.09	0.13	1.07	21.94	4479.
13	1	8.45	17.70	31.19	72.88	1.59	0.11	0.14	0.20	1.01	20.88	1957.
13	2	0.00	17.70	31.19	72.88	1.59	0.11	0.14	0.20	1.01	20.88	1957.
14	1	9.47	17.73	31.14	80.68	1.12	0.05	0.11	0.15	0.94	22.66	490.
14	2	6.59	17.74	31.14	80.32	1.12	0.05	0.11	0.15	0.93	22.63	599.
15	1	9.47	17.82	31.20	83.78	1.09	0.04	0.10	0.13	0.99	24.81	194.
15	2	4.80	17.83	31.20	83.65	1.09	0.04	0.10	0.12	0.99	24.78	219.
16	1	9.71	17.46	31.17	84.54	1.00	0.03	0.10	0.18	1.22	16.87	4.
16	2	0.00	17.46	31.17	84.54	1.00	0.03	0.10	0.18	1.22	16.87	4.
17	1	9.47	17.54	30.90	79.37	1.18	0.06	0.11	0.20	0.88	15.29	1727.
17	2	27.75	17.55	30.90	78.91	1.17	0.06	0.11	0.19	0.85	15.33	2706.
18	1	9.47	17.55	30.92	79.43	1.15	0.05	0.11	0.19	0.88	15.69	1115.
18	2	27.89	17.56	30.92	78.88	1.15	0.05	0.11	0.19	0.86	15.72	1748.
19	1	9.47	17.77	31.16	81.76	1.12	0.05	0.10	0.14	0.96	23.49	400.
19	2	5.91	17.77	31.16	81.52	1.12	0.05	0.10	0.14	0.96	23.49	472.
20	1	9.47	17.54	31.16	57.46	2.36	0.22	0.20	0.35	1.15	16.09	6277.
20	2	2.64	17.55	31.16	57.13	2.38	0.22	0.20	0.35	1.14	16.08	7552.
21	1	9.47	17.63	31.17	70.70	1.57	0.11	0.14	0.22	1.01	19.51	1075.
21	2	3.50	17.63	31.17	70.50	1.56	0.11	0.14	0.22	1.00	18.85	1183.
22	1	9.47	17.62	31.16	72.48	1.43	0.09	0.13	0.20	0.96	19.05	1787.
22	2	6.26	17.63	31.16	72.27	1.41	0.09	0.13	0.20	0.95	18.48	1900.
23	1	9.47	17.64	31.16	72.86	1.41	0.09	0.13	0.19	0.96	19.64	1052.
23	2	3.94	17.64	31.16	72.50	1.40	0.09	0.13	0.19	0.96	18.76	1290.
24	1	9.47	17.61	31.12	74.92	1.25	0.07	0.12	0.18	0.91	19.76	798.
24	2	12.02	17.63	31.12	75.17	1.22	0.07	0.12	0.17	0.90	19.74	942.

Station	Layer	Height	Temp	Salin	DO%	BOD	Amm	OxN	OrgN	Chl	SS	EColi
25	1	9.75	17.54	31.17	82.90	1.02	0.04	0.10	0.16	1.10	18.70	12.
25	2	0.00	17.54	31.17	82.90	1.02	0.04	0.10	0.16	1.10	18.70	12.
26	1	10.28	17.55	31.16	65.41	1.93	0.16	0.17	0.27	1.06	16.52	5573.
26	2	0.00	17.55	31.16	65.41	1.93	0.16	0.17	0.27	1.06	16.52	5573.

TABLE 7

GREEN ISLAND RECLAMATION Wet Season Neap Tide - Scenario 1

2 layers
26 stations
Averaged over 25 steps

Station	Layer	Height	Temp	Salin	DO%	BOD	Amm	OxN	OrgN	Chl	SS	E Coli
1	1	8.04	26.36	31.46	64.65	2.78	0.21	0.15	0.40	5.54	5.96	6235.
1	2	30.49	26.41	31.40	62.84	2.82	0.24	0.14	0.37	4.63	6.54	14669.
2	1	8.27	26.37	31.42	59.66	3.70	0.17	0.21	0.58	8.70	6.68	6590.
2	2	3.95	26.33	31.50	51.79	3.53	0.20	0.20	0.52	6.87	6.54	19913.
3	1	8.20	26.37	31.42	58.79	3.65	0.19	0.20	0.56	8.14	6.97	10889.
3	2	5.54	26.33	31.49	51.11	3.74	0.23	0.20	0.54	6.77	7.02	38873.
4	1	8.18	26.44	31.23	60.07	3.97	0.13	0.23	0.69	11.14	6.66	8917.
4	2	3.66	26.45	31.25	47.96	4.39	0.20	0.24	0.70	9.83	6.91	48909.
5	1	8.21	26.44	31.22	60.16	3.94	0.13	0.23	0.69	11.19	6.64	7638.
5	2	5.48	26.44	31.24	47.66	4.18	0.19	0.24	0.68	9.78	6.87	34518.
6	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.
6	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.
7	1	8.35	26.49	31.00	66.16	3.89	0.09	0.23	0.74	13.29	6.09	4535.
7	2	6.67	26.48	31.06	47.98	3.98	0.15	0.24	0.71	11.01	6.40	22000.
8	1	8.42	26.47	30.94	65.26	3.84	0.09	0.22	0.73	12.95	6.34	4280.
8	2	4.49	26.49	30.96	50.26	3.91	0.13	0.23	0.72	11.57	6.29	19970.
9	1	9.35	26.52	30.66	80.60	3.71	0.04	0.20	0.81	16.45	4.60	1613.
9	2	0.00	26.52	30.66	80.60	3.71	0.04	0.20	0.81	16.45	4.60	1613.
10	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.
10	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.
11	1	8.89	26.55	28.99	50.61	3.72	0.11	0.31	0.76	12.48	5.44	4190.
11	2	5.18	26.36	29.76	-5.64	4.25	0.35	0.37	0.76	7.62	3.78	61437.

Station	Layer	Height	Temp	Salin	DO%	BOD	Amm	OxN	OrgN	Chl	SS	E Coli
12	1	9.38	26.59	27.50	62.17	1.66	0.03	0.15	0.36	4.35	6.07	811.
12	2	4.21	26.51	27.93	43.17	1.69	0.07	0.17	0.36	3.47	4.56	3398.
13	1	8.33	26.20	30.16	77.13	2.52	0.03	0.15	0.55	10.21	5.83	942.
13	2	0.00	26.20	30.16	77.13	2.52	0.03	0.15	0.55	10.21	5.83	942.
14	1	8.43	26.02	29.51	74.21	1.55	0.01	0.10	0.33	4.75	6.49	156.
14	2	7.52	25.17	32.18	65.34	1.56	0.02	0.09	0.29	3.24	5.96	1518.
15	1	8.47	26.06	29.56	79.01	1.54	0.01	0.08	0.35	5.55	6.08	73.
15	2	5.69	25.59	30.99	68.98	1.51	0.02	0.09	0.32	4.17	5.86	399.
16	1	9.59	25.70	31.44	87.37	1.66	0.01	0.05	0.36	6.15	4.86	9.
16	2	0.00	25.70	31.44	87.37	1.66	0.01	0.05	0.36	6.15	4.86	9.
17	1	7.98	25.33	31.90	77.97	1.79	0.01	0.09	0.35	5.21	6.12	582.
17	2	29.13	24.64	33.43	65.38	1.62	0.03	0.09	0.26	2.14	6.04	5019.
18	1	8.00	25.35	31.82	77.27	1.77	0.01	0.09	0.35	5.16	6.13	432.
18	2	29.24	24.67	33.37	65.55	1.60	0.02	0.09	0.26	2.21	5.97	3161.
19	1	8.46	26.05	29.43	74.98	1.54	0.01	0.10	0.33	4.86	6.49	134.
19	2	6.81	25.29	31.82	65.94	1.54	0.02	0.09	0.30	3.46	6.00	1072.
20	1	8.42	26.47	30.94	65.07	3.84	0.09	0.22	0.73	12.86	6.37	4638.
20	2	3.57	26.49	30.96	50.67	3.94	0.14	0.23	0.72	11.58	6.30	21659.
21	1	8.47	26.19	30.30	75.87	2.56	0.02	0.15	0.54	9.81	5.95	586.
21	2	4.38	25.94	31.04	59.95	2.36	0.04	0.15	0.50	8.05	3.87	2500.
22	1	8.36	26.12	30.40	78.19	2.51	0.02	0.13	0.53	9.56	5.97	1441.
22	2	7.26	25.64	31.49	57.74	2.03	0.04	0.13	0.42	5.94	4.18	3104.
23	1	8.41	26.13	30.31	77.69	2.43	0.02	0.13	0.52	9.29	5.99	818.
23	2	4.88	25.70	31.39	58.44	2.07	0.04	0.13	0.43	6.30	4.07	2826.
24	1	8.35	25.93	30.37	75.91	1.98	0.01	0.11	0.42	6.90	6.13	449.
24	2	13.02	24.98	32.74	62.97	1.63	0.03	0.10	0.29	2.96	5.76	2979.

Station	Layer	Height	Temp	Salin	DO%	BOD	Amm	OxN	OrgN	Chl	SS	E Coli
25	1	9.63	25.57	31.40	82.44	1.65	0.01	0.06	0.35	5.59	5.64	31.
25	2	0.00	25.57	31.40	82.44	1.65	0.01	0.06	0.35	5.59	5.64	31.
26	1	10.16	26.34	30.66	74.28	3.33	0.04	0.18	0.68	12.55	5.79	4371.
26	2	0.00	26.34	30.66	74.28	3.33	0.04	0.18	0.68	12.55	5.79	4371.

TABLE 8

GREEN ISLAND RECLAMATION Wet Season Spring Tide - Scenario 1

Averaged over 2 layers
26 stations
25 steps

Station	Layer	Height	Temp	Salin	DO%	BOD	Amm	OxN	OrgN	Chl	SS	EColi
1	1	8.09	27.57	29.88	65.79	2.93	0.08	0.18	0.46	5.16	12.64	6050.
1	2	30.49	27.61	30.18	61.00	2.85	0.08	0.17	0.43	3.77	12.56	10512.
2	1	8.33	27.45	29.24	73.03	3.09	0.08	0.20	0.56	8.07	10.10	8143.
2	2	3.95	27.51	29.47	67.59	3.04	0.08	0.20	0.54	6.80	10.14	13523.
3	1	8.24	27.46	29.29	73.05	3.09	0.08	0.20	0.55	7.67	10.50	12857.
3	2	5.54	27.51	29.43	68.09	3.16	0.10	0.20	0.54	6.74	10.47	28377.
4	1	8.24	27.39	28.87	80.66	2.99	0.08	0.20	0.56	9.08	10.02	8556.
4	2	3.66	27.41	28.90	77.03	3.33	0.11	0.20	0.59	8.76	10.16	32428.
5	1	8.26	27.39	28.87	80.51	2.94	0.07	0.20	0.56	9.03	10.03	7687.
5	2	5.48	27.41	28.90	76.27	3.17	0.10	0.20	0.57	8.63	10.14	25412.
6	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.
6	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.
7	1	8.41	27.37	28.74	83.70	2.78	0.07	0.20	0.54	9.23	9.94	4686.
7	2	6.67	27.37	28.74	79.97	2.83	0.08	0.20	0.53	8.62	10.27	11616.
8	1	8.49	27.36	28.71	83.41	2.61	0.07	0.19	0.50	8.33	10.70	3757.
8	2	4.49	27.36	28.69	81.28	2.55	0.08	0.19	0.49	7.84	10.69	7062.
9	1	9.42	27.35	28.62	87.34	2.62	0.06	0.20	0.53	9.60	8.71	2236.
9	2	0.00	27.35	28.62	87.34	2.62	0.06	0.20	0.53	9.60	8.71	2236.
10	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.
10	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.
11	1	8.96	27.50	28.28	77.87	2.86	0.12	0.21	0.46	6.79	10.65	7772.
11	2	5.18	27.49	28.40	53.08	3.35	0.20	0.24	0.52	5.80	7.55	42909.

Station	Layer	Height	Temp	Salin	DO%	BOD	Amm	OxN	OrgN	Chl	SS	EColi
12	1	9.47	27.51	28.31	96.44	1.63	0.14	0.14	0.29	5.30	10.67	1702.
12	2	4.21	27.52	28.29	91.89	1.54	0.15	0.14	0.27	4.77	9.56	2214.
13	1	8.40	27.39	28.52	84.09	2.18	0.08	0.18	0.41	6.64	10.16	1310.
13	2	0.00	27.39	28.52	84.09	2.18	0.08	0.18	0.41	6.64	10.16	1310.
14	1	8.49	27.39	28.61	87.41	1.71	0.10	0.15	0.31	4.89	11.47	471.
14	2	7.52	27.23	28.95	77.90	1.69	0.08	0.15	0.33	4.28	10.40	1162.
15	1	8.53	27.45	28.52	91.38	1.66	0.11	0.14	0.29	5.01	11.75	294.
15	2	5.69	27.39	28.61	84.35	1.67	0.10	0.15	0.31	4.64	11.17	565.
16	1	9.66	27.42	28.45	92.60	1.75	0.07	0.15	0.34	5.96	11.08	23.
16	2	0.00	27.42	28.45	92.60	1.75	0.07	0.15	0.34	5.96	11.08	23.
17	1	8.04	27.10	29.22	79.11	1.74	0.05	0.15	0.35	4.51	10.04	1017.
17	2	29.13	26.82	29.90	73.65	1.73	0.05	0.14	0.34	3.32	9.25	3078.
18	1	8.06	27.11	29.20	79.14	1.72	0.06	0.15	0.34	4.47	10.07	783.
18	2	29.24	26.85	29.82	73.90	1.70	0.05	0.14	0.34	3.39	9.31	1970.
19	1	8.52	27.41	28.58	89.07	1.68	0.11	0.15	0.30	4.91	11.70	433.
19	2	6.81	27.28	28.84	79.70	1.69	0.08	0.15	0.32	4.38	10.65	991.
20	1	8.49	27.36	28.71	83.54	2.59	0.07	0.19	0.50	8.21	10.72	3965.
20	2	3.57	27.36	28.69	81.69	2.55	0.08	0.19	0.48	7.78	10.75	6954.
21	1	8.54	27.39	28.55	86.00	1.89	0.08	0.16	0.36	5.80	10.43	561.
21	2	4.38	27.34	28.68	79.45	1.78	0.07	0.16	0.35	5.13	8.31	881.
22	1	8.43	27.37	28.59	84.77	1.87	0.07	0.16	0.36	5.63	10.09	996.
22	2	7.26	27.32	28.69	78.76	1.78	0.07	0.16	0.35	5.04	8.62	1483.
23	1	8.47	27.38	28.56	85.35	1.84	0.08	0.16	0.35	5.53	10.33	606.
23	2	4.88	27.33	28.68	79.54	1.78	0.07	0.16	0.35	5.06	8.64	1178.
24	1	8.41	27.30	28.75	82.13	1.77	0.07	0.16	0.34	5.12	10.23	548.
24	2	13.02	27.14	29.13	75.46	1.71	0.06	0.15	0.34	4.28	9.68	1516.

Station	Layer	Height	Temp	Salin	DO%	BOD	Amm	OxN	OrgN	Chl	SS	EColi
25	1	9.70	27.38	28.58	88.74	1.72	0.08	0.15	0.32	5.23	11.09	104.
25	2	0.00	27.38	28.58	88.74	1.72	0.08	0.15	0.32	5.23	11.09	104.
26	1	10.23	27.37	28.57	85.60	2.12	0.07	0.17	0.40	6.53	10.10	3011.
26	2	0.00	27.37	28.57	85.60	2.12	0.07	0.17	0.40	6.53	10.10	3011.

FIGURE 7

CASE 3 (1ST SCENARIO) : DRY SEASON NEAP TIDE

Green Island Dry Neap Scenario 1 (Case 3)

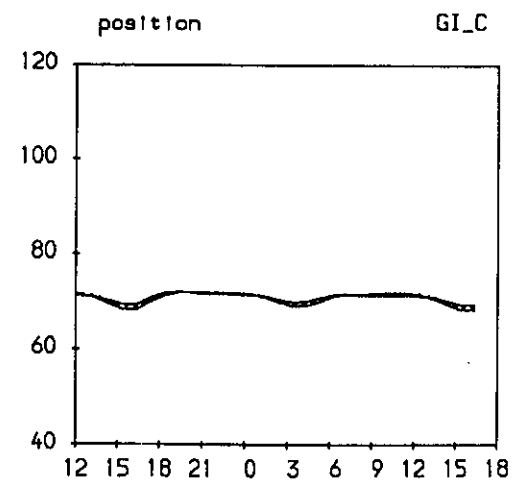
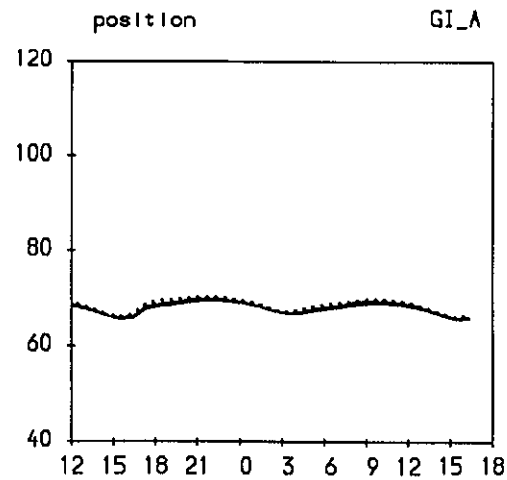
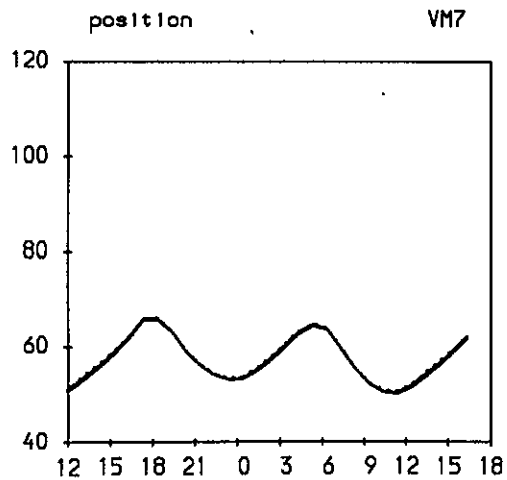
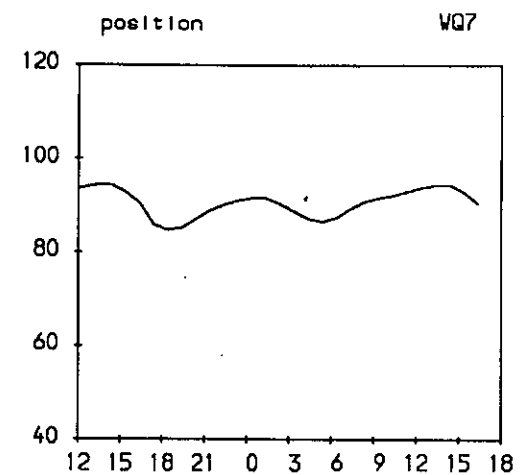
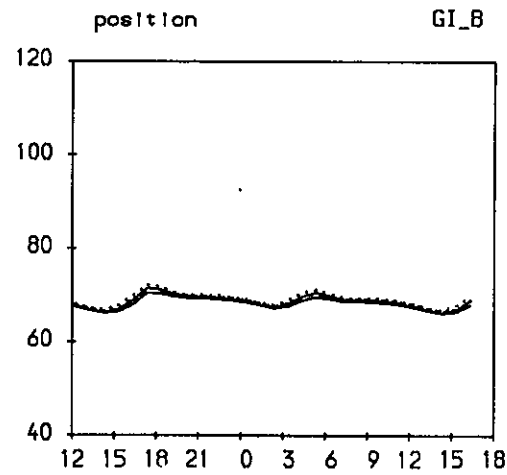
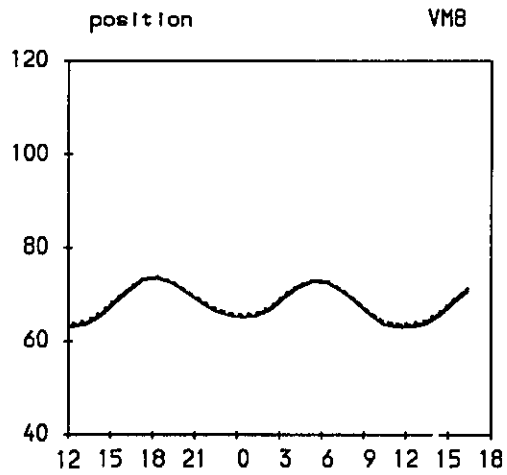
Dissolved Oxygen (% saturation) against time

2 Layer, 100m grid 29 Nov 1993

— Scen. 1

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Dry Neap Scenario 1 (Case 3)

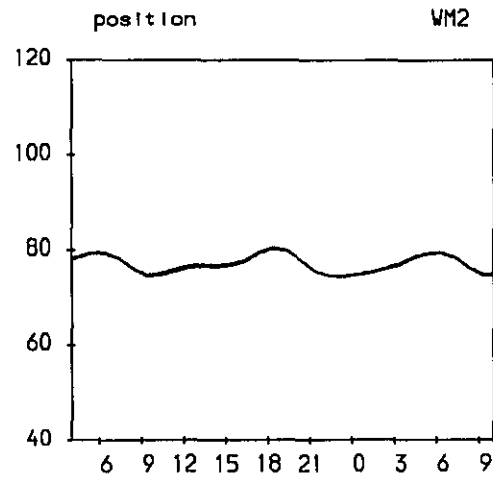
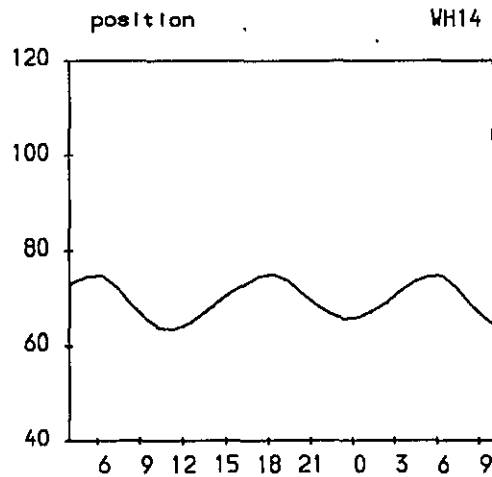
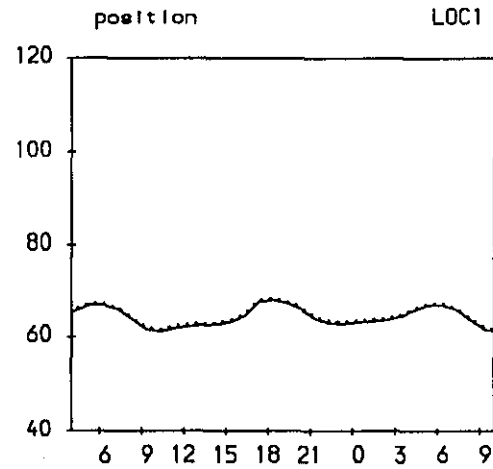
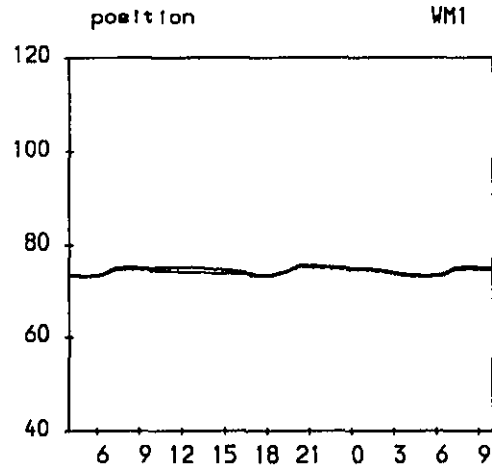
Dissolved Oxygen (% saturation) against time

2 Layer, 100m grid 29 Nov 1993

— Scen. 1

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Dry Neap Scenario 1 (Case 3)

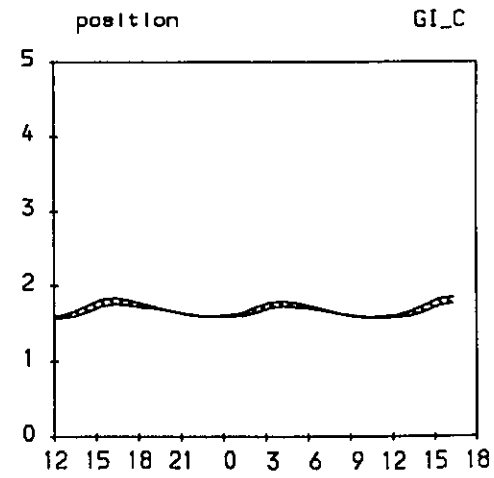
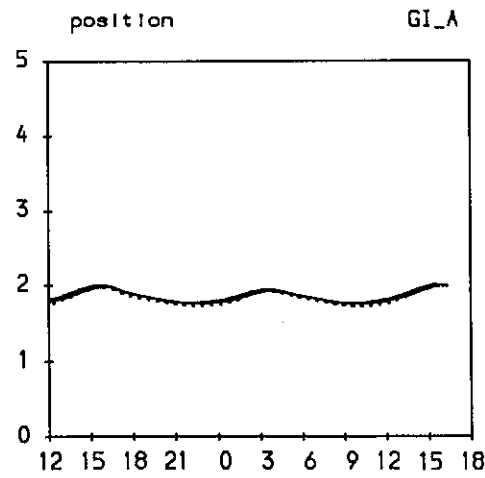
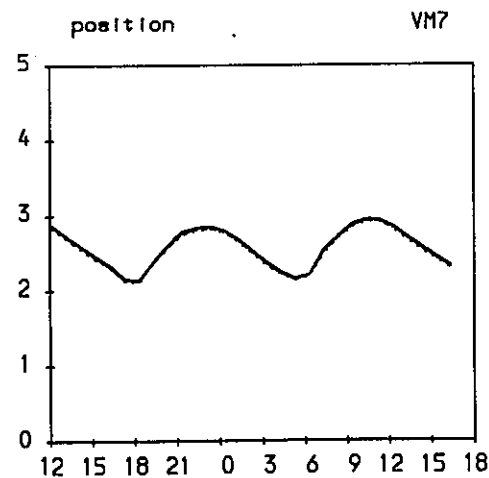
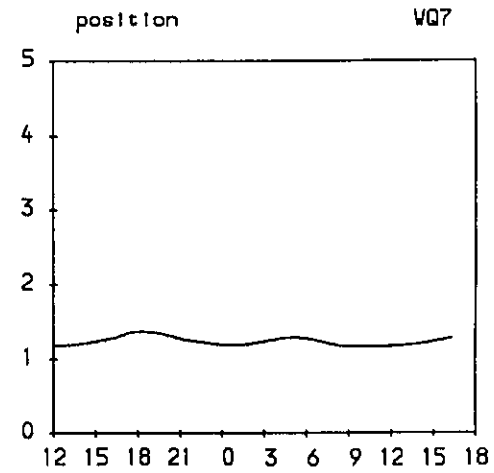
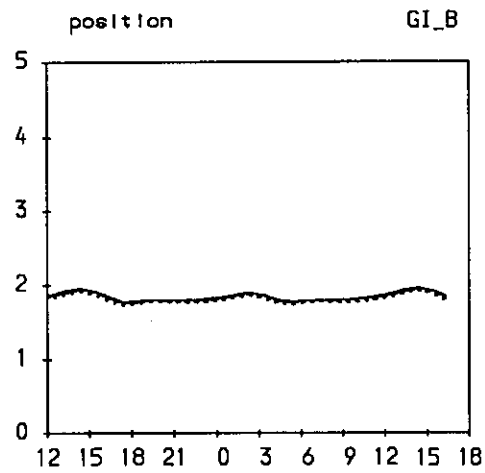
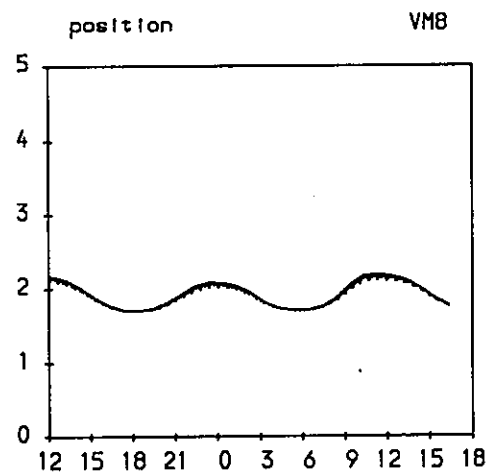
BOD (mg/L) against time

2 Layer, 100m grid 29 Nov 1993

— Scen. 1

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Dry Neap Scenario 1 (Case 3)

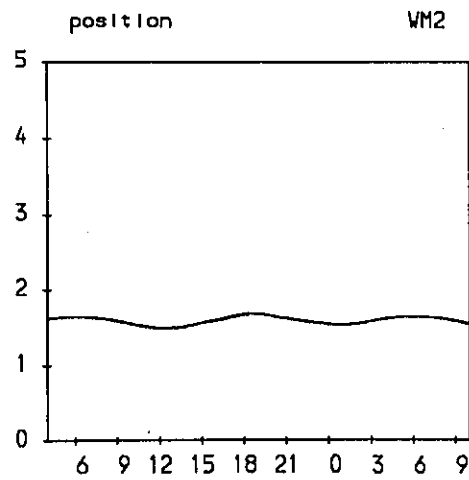
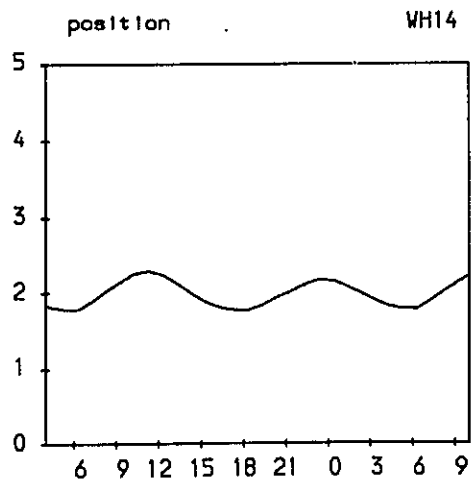
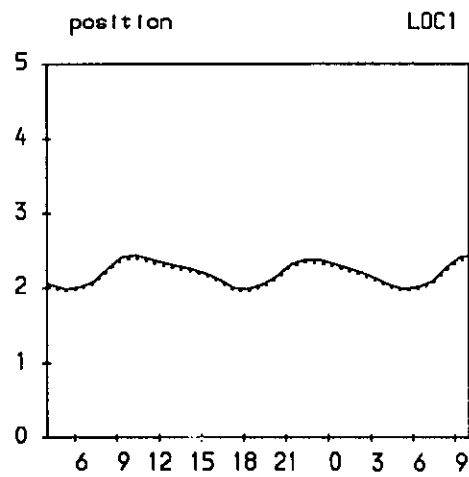
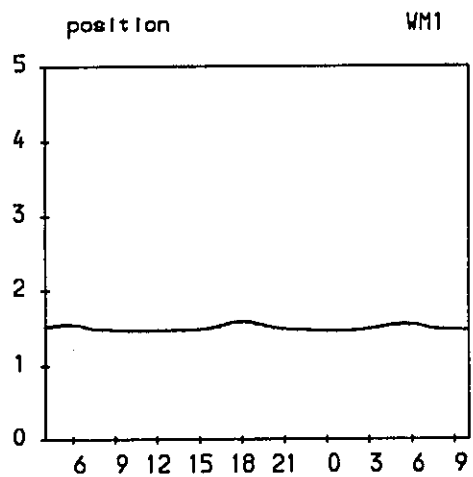
BOD (mg/L) against time

2 Layer, 100m grid 29 Nov 1993

—— Scen. 1

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Dry Neap Scenario 1 (Case 3)

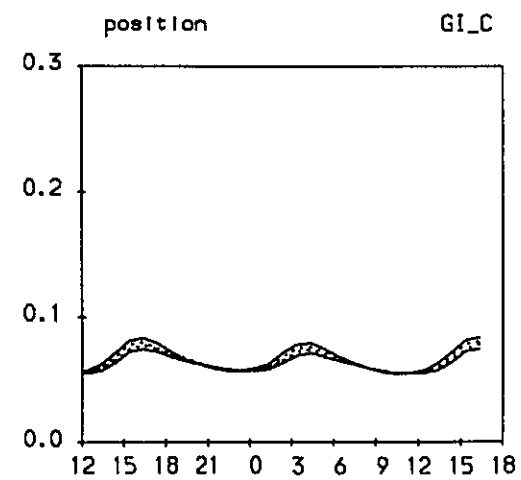
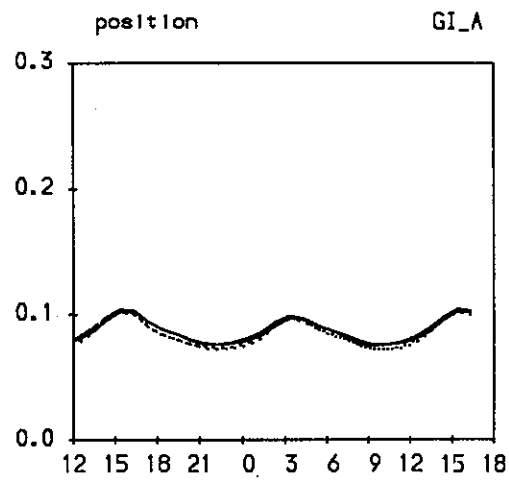
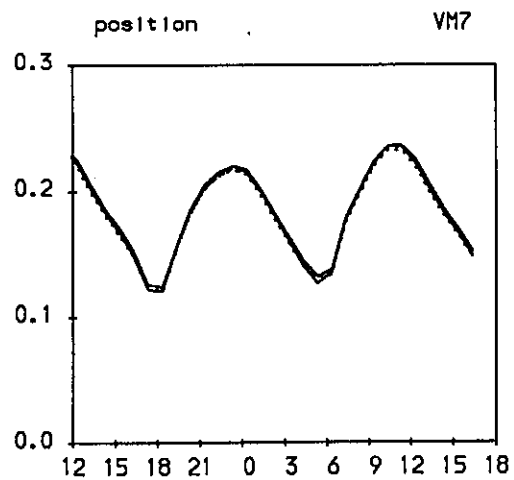
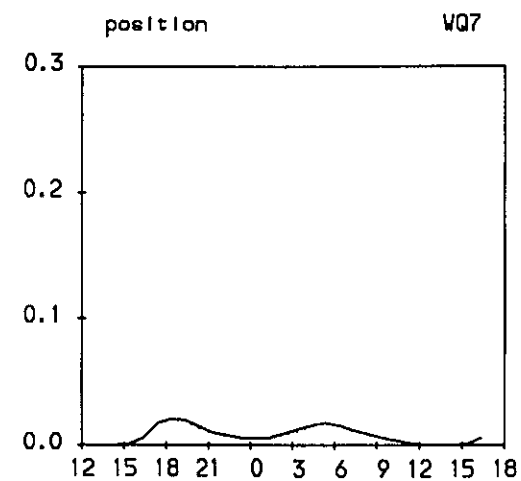
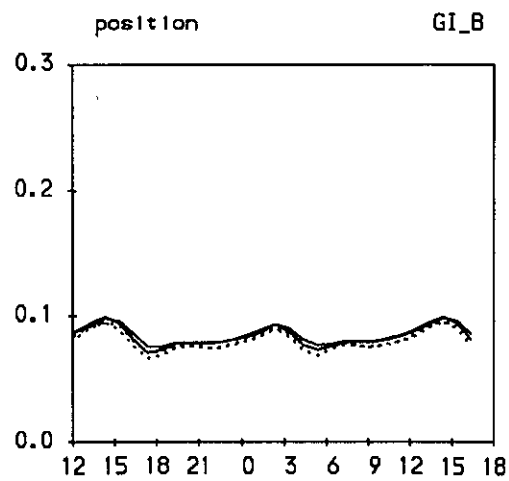
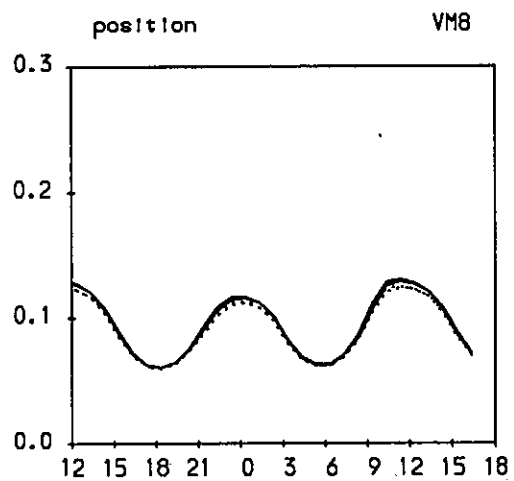
Ammoniacal Nitrogen (mg N/l) against time

2 Layer, 100m grid 29 Nov 1993

— Scen. 1

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Dry Neap Scenario 1 (Case 3)

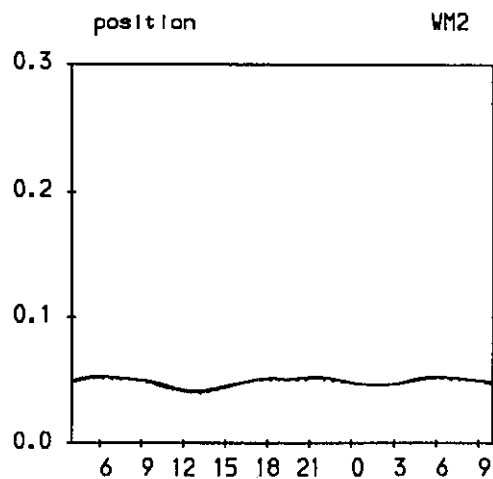
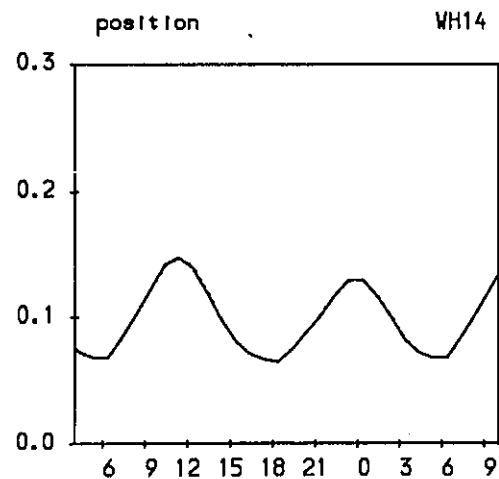
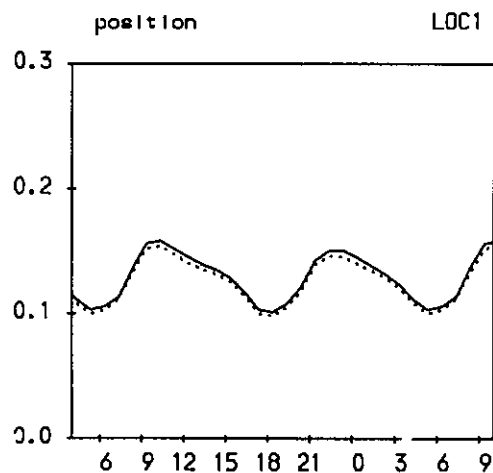
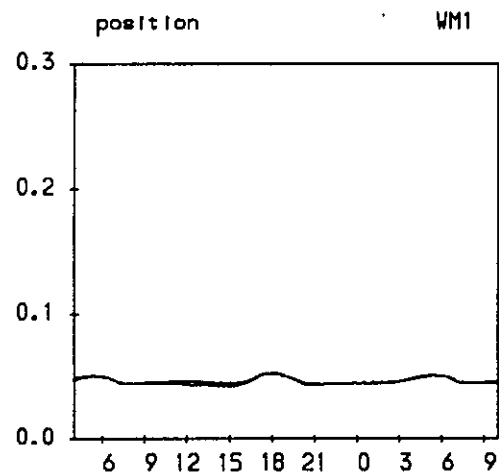
Ammoniacal Nitrogen (mg N/l) against time

2 Layer, 100m grid 29 Nov 1993

— Scen. 1

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Dry Neap Scenario 1 (Case 3)

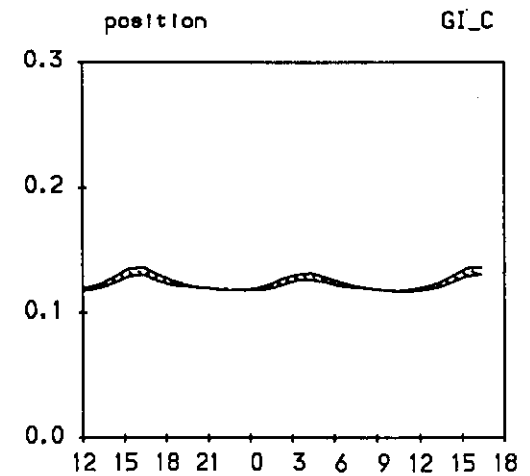
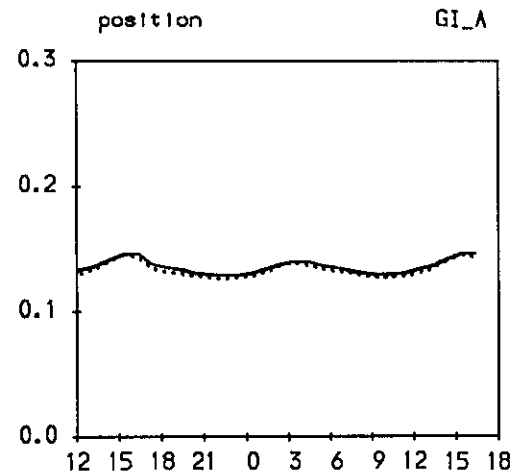
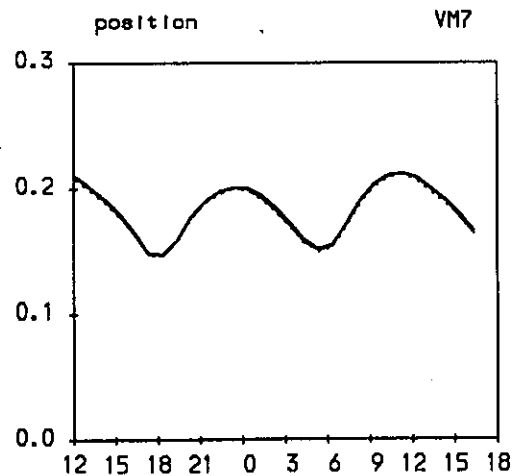
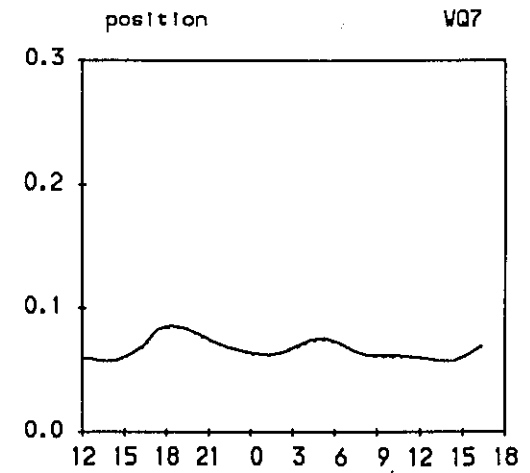
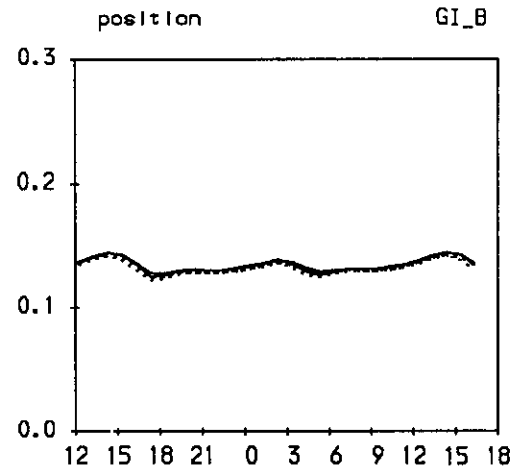
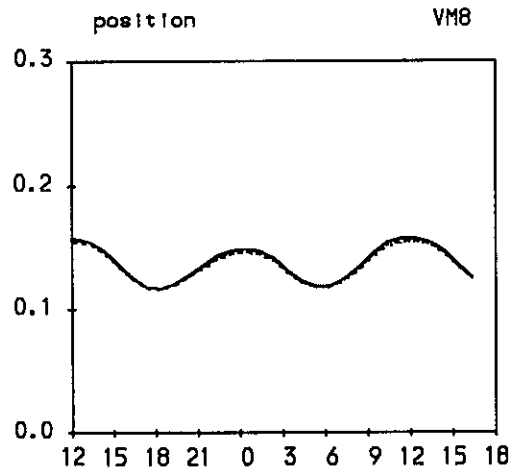
Oxidised Nitrogen (mg N/L) against time

2 Layer, 100m grid 29 Nov 1993

— Scen. 1

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Dry Neap Scenario 1 (Case 3)

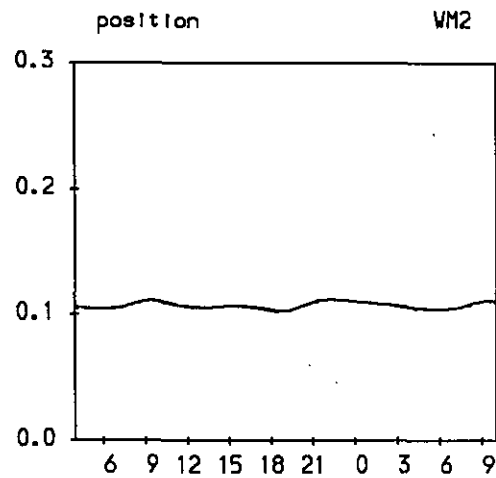
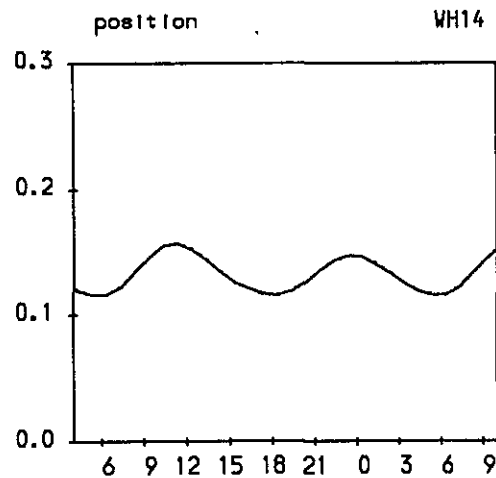
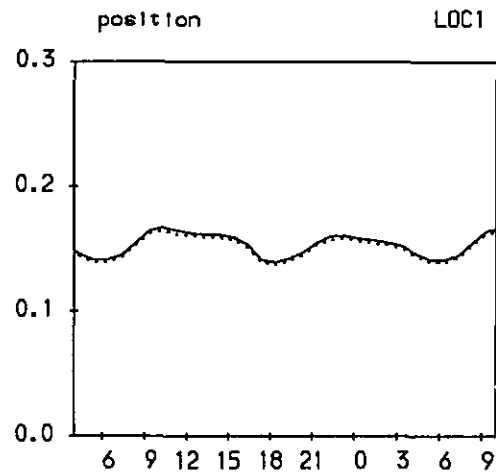
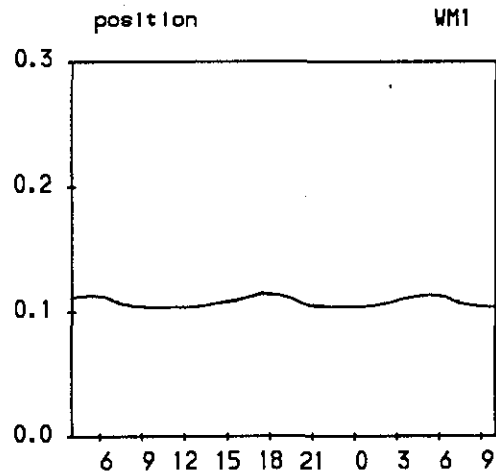
Oxidised Nitrogen (mg N/L) against time

2 Layer, 100m grid 29 Nov 1993

— Scen. 1

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Dry Neap Scenario 1 (Case 3)

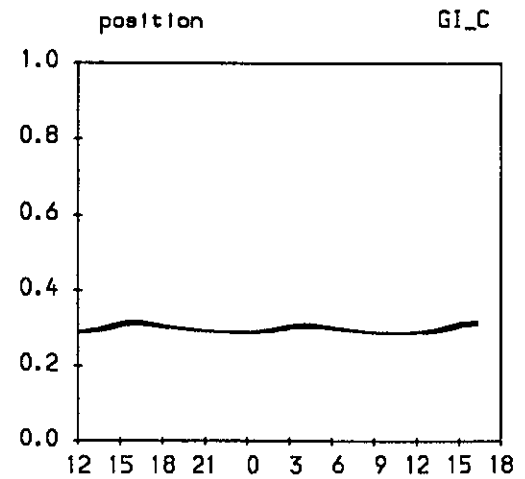
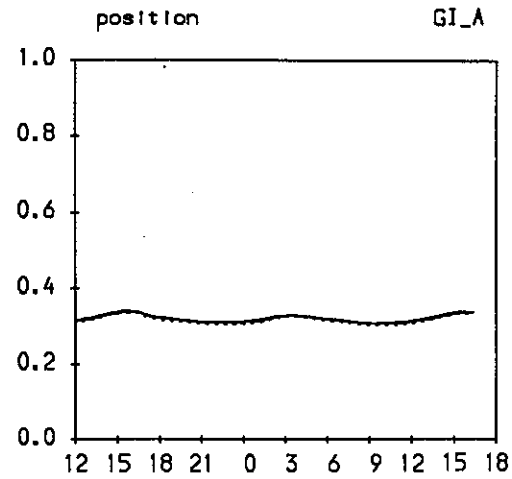
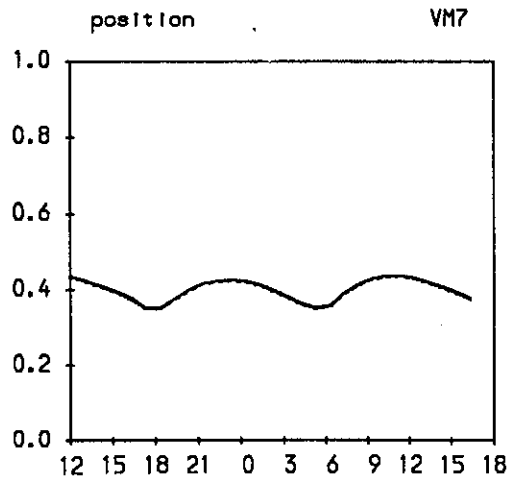
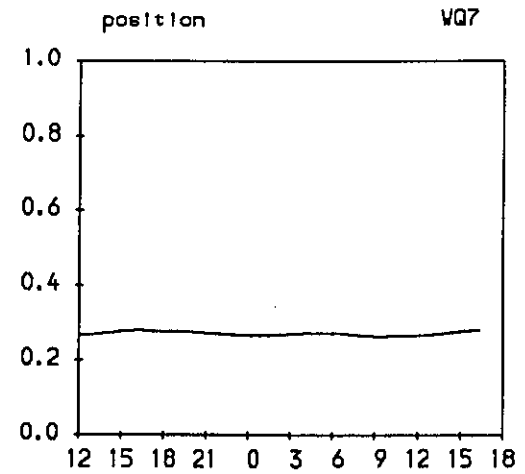
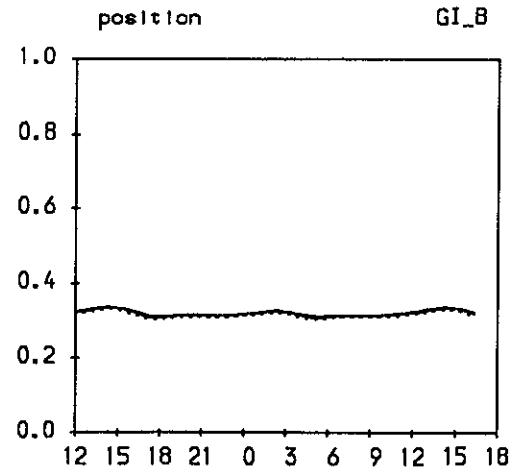
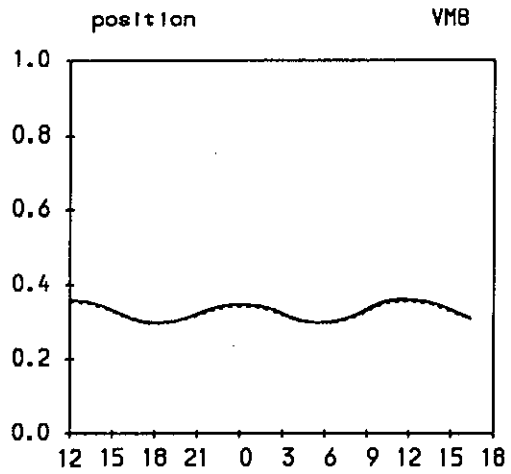
Organic Nitrogen (mg N/L) against time

2 Layer, 100m grid 29 Nov 1993

— Scen. 1

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Dry Neap Scenario 1 (Case 3)

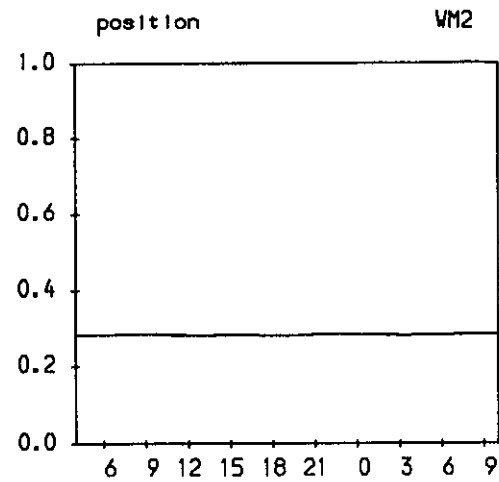
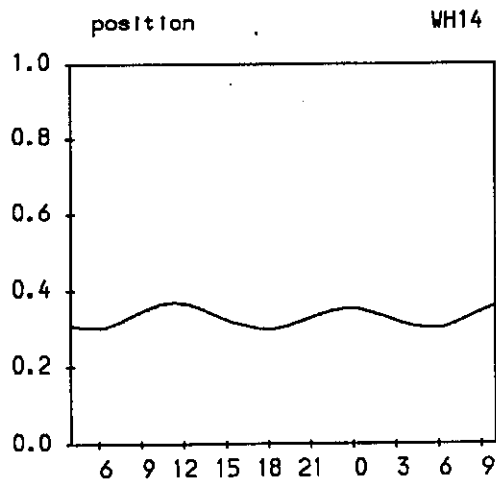
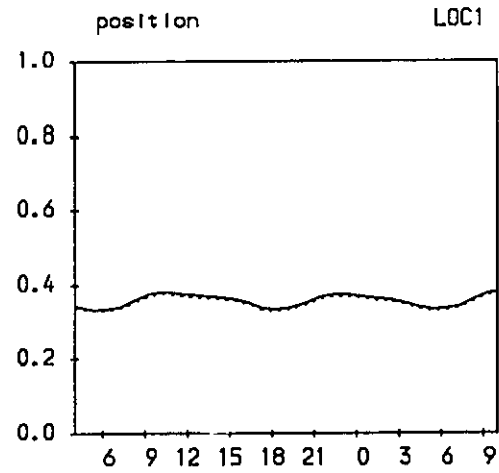
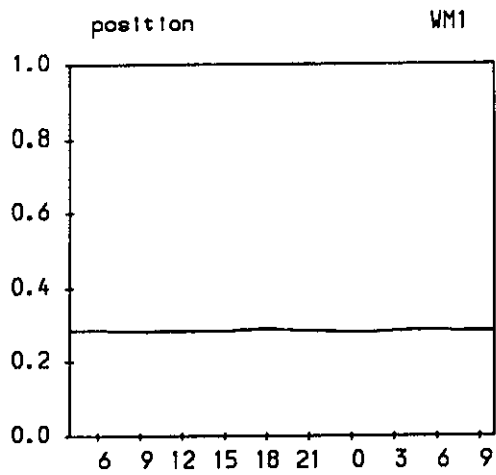
Organic Nitrogen (mg N/l) against time

2 Layer, 100m grid 29 Nov 1993

— Scen. 1

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Dry Neap Scenario 1 (Case 3)

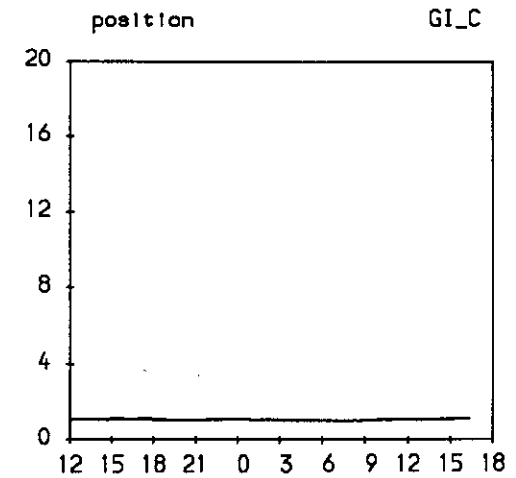
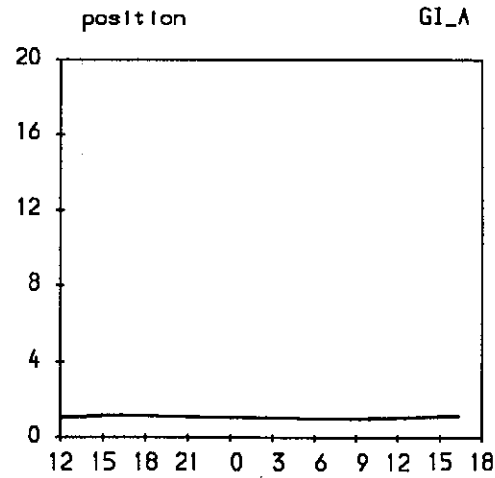
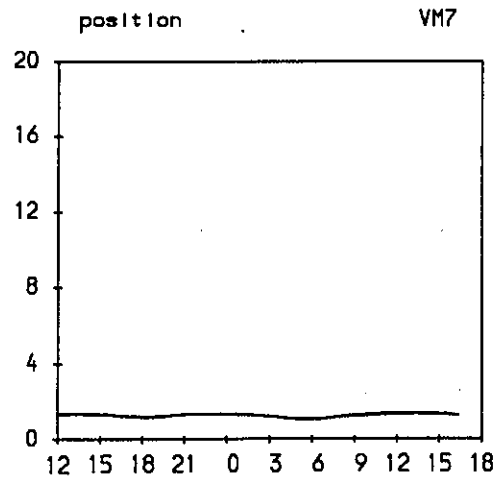
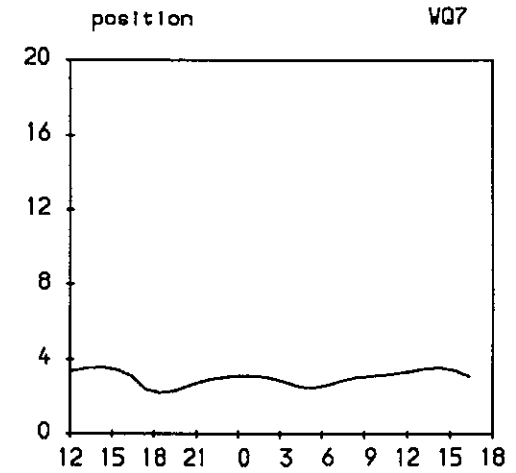
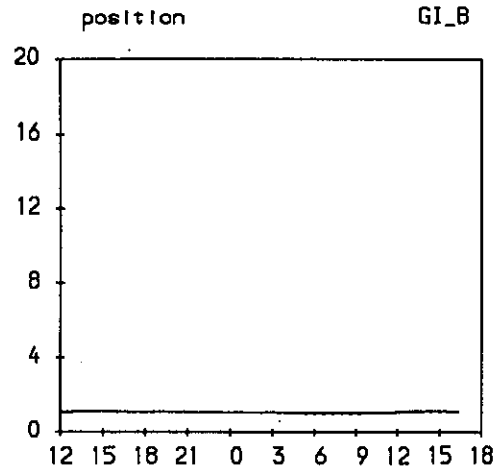
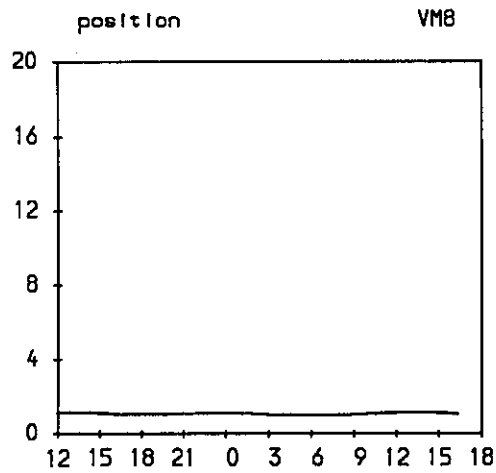
Chlorophyll (ug/l) against time

2 Layer, 100m grid 29 Nov 1993

— Scen. 1

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Dry Neap Scenario 1 (Case 3)

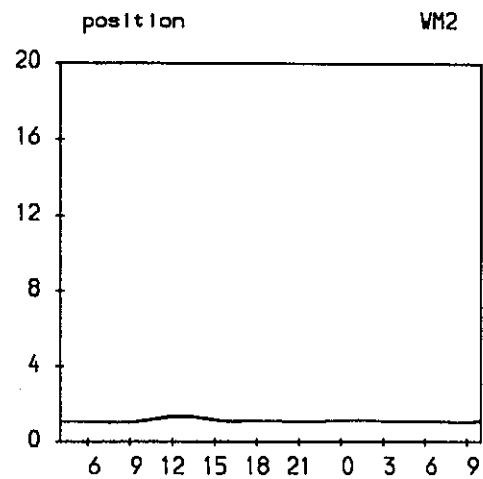
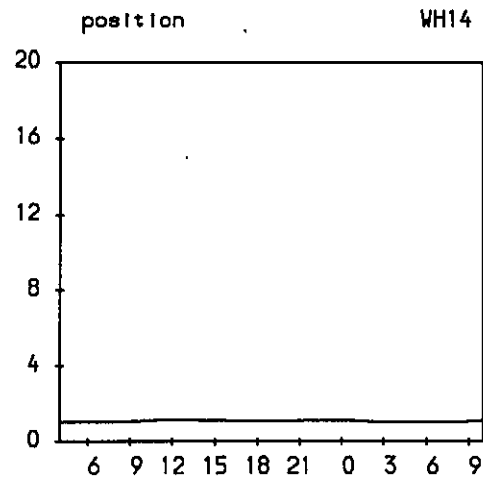
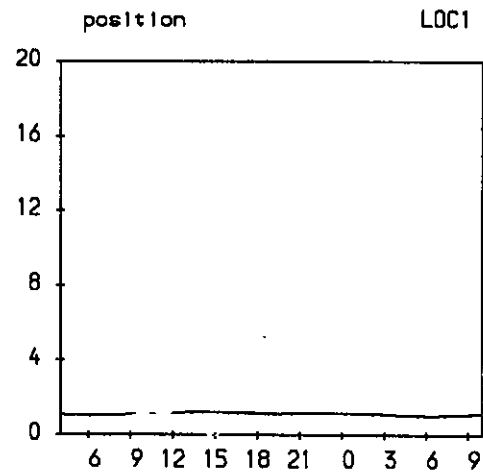
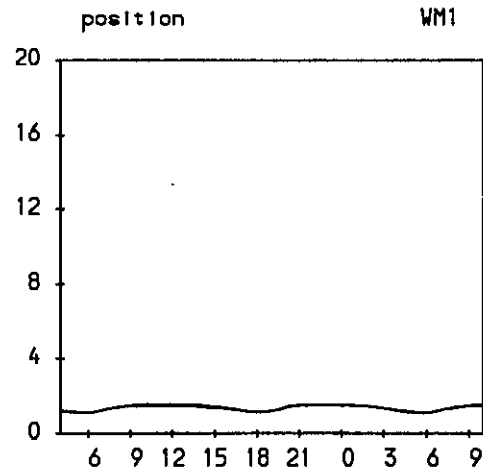
Chlorophyll (ug/l) against time

2 Layer, 100m grid 29 Nov 1993

—— Scen. 1

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Dry Neap Scenario 1 (Case 3)

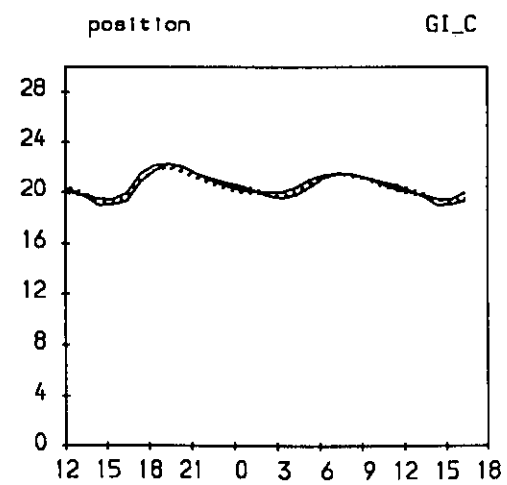
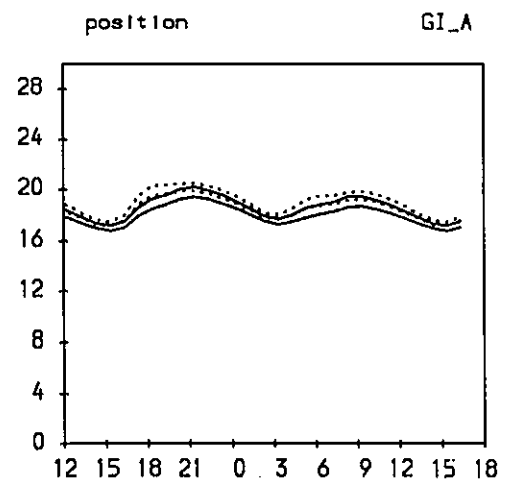
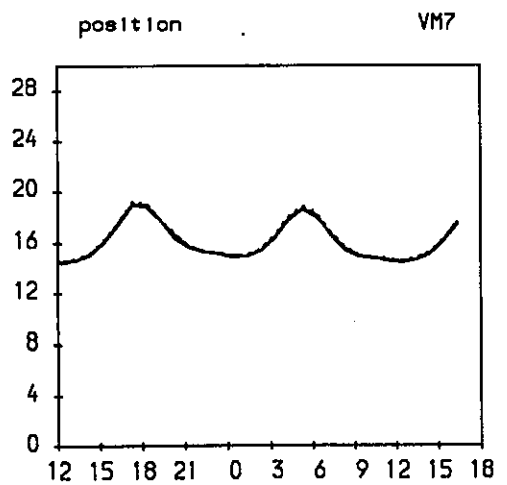
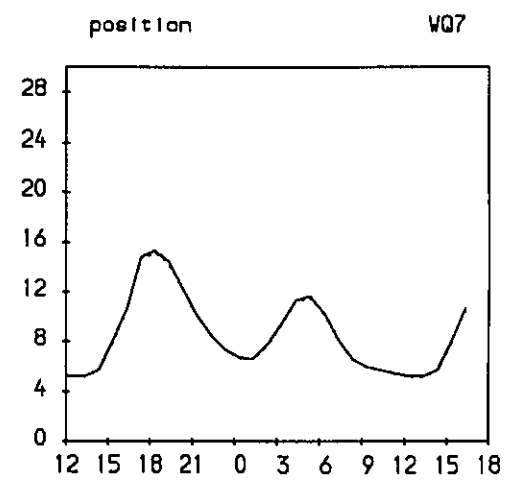
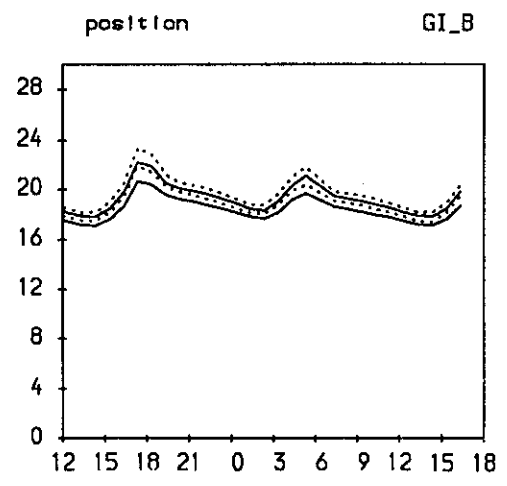
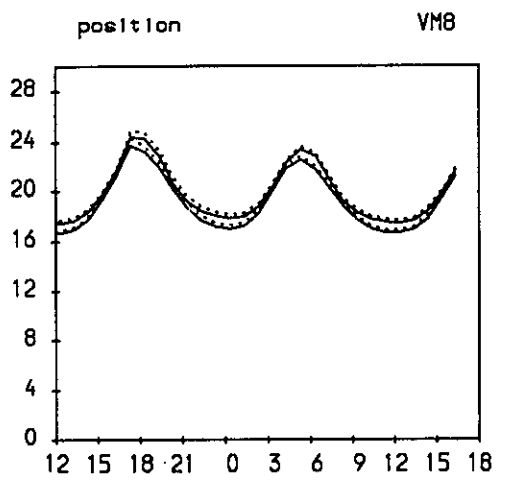
Suspended Solids (mg/l) against time

2 Layer, 100m grid 29 Nov 1993

— Scen. 1

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Dry Neap Scenario 1 (Case 3)

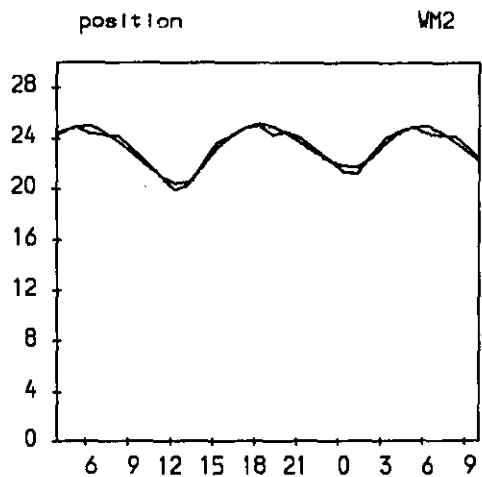
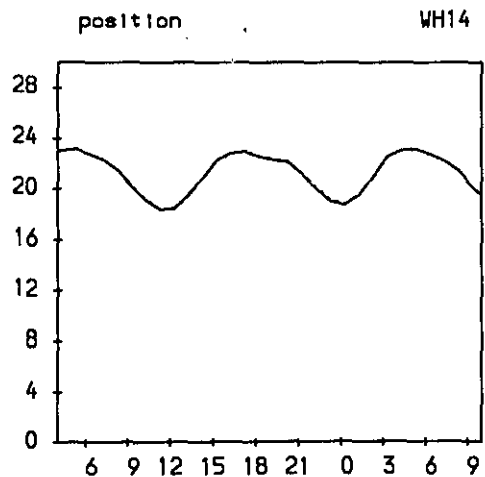
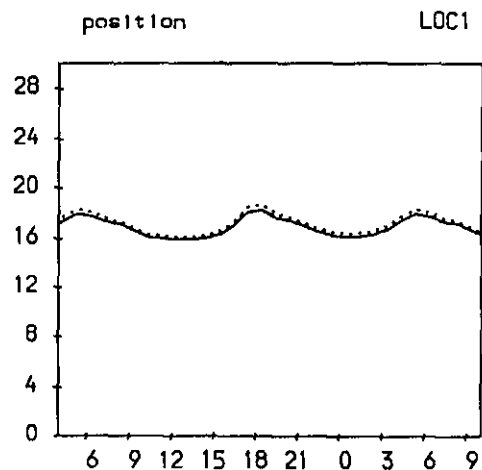
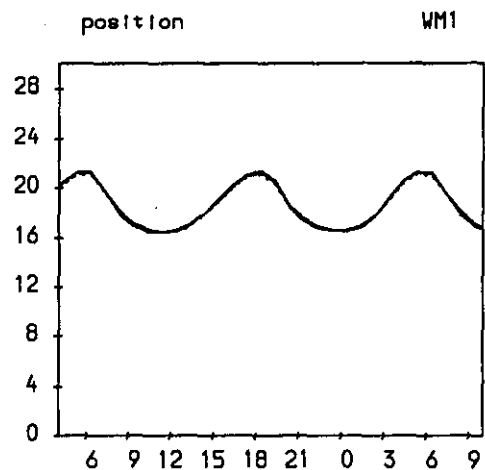
Suspended Solids (mg/L) against time

2 Layer, 100m grid 29 Nov 1993

— Scen. 1

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Dry Neap Scenario 1 (Case 3)

E.Coli (no/100ml) against time

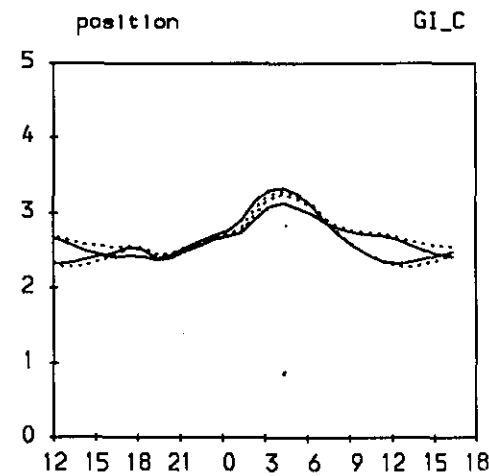
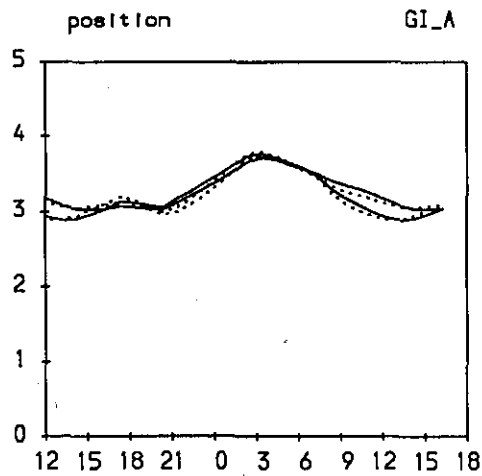
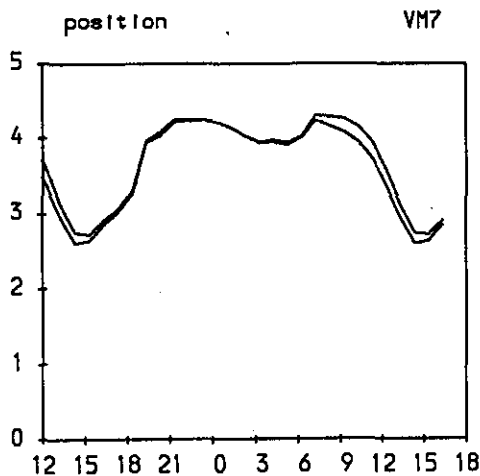
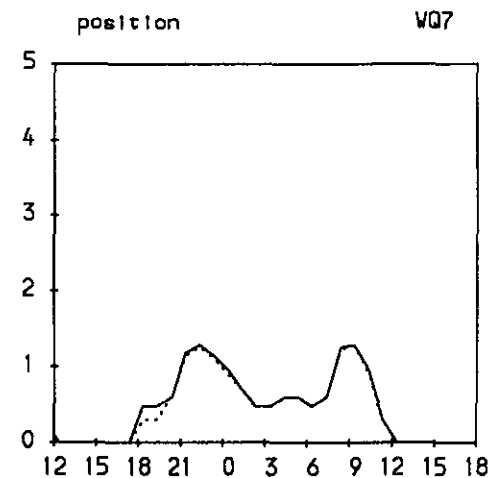
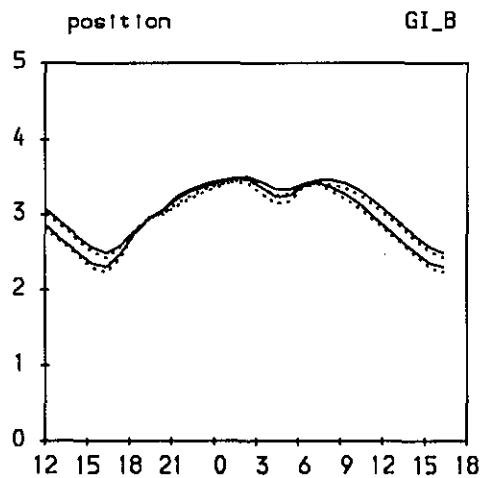
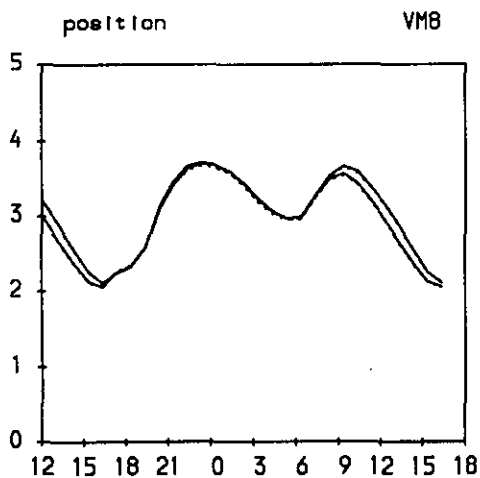
(log to base 10 on y-axis)

2 Layer, 100m grid 29 Nov 1993

— Scen. 1

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Dry Neap Scenario 1 (Case 3)

E.Coli (no/100ml) against time

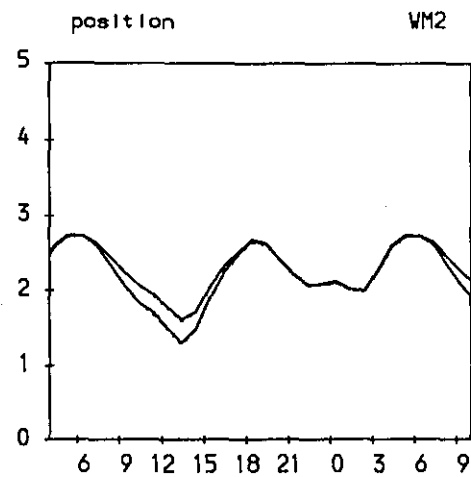
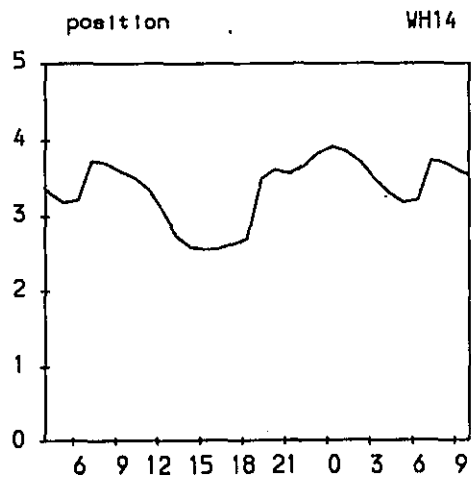
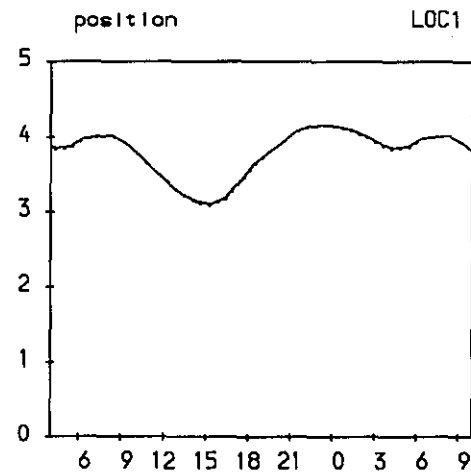
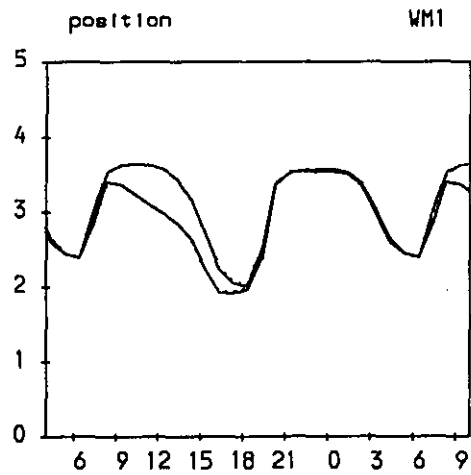
(log to base 10 on y-axis)

2 Layer, 100m grid 29 Nov 1993

— Scen. 1

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer

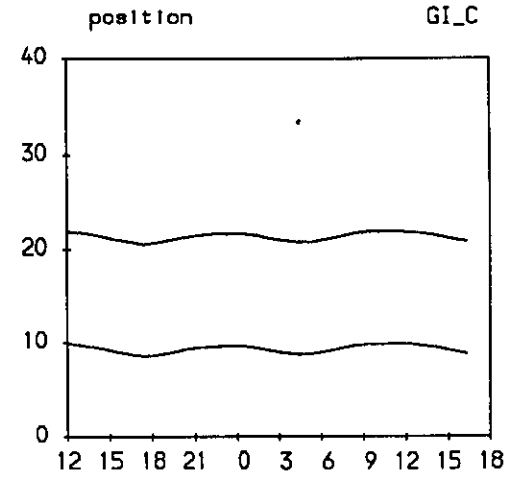
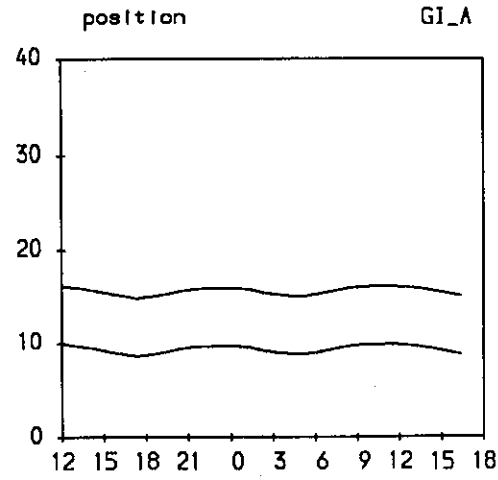
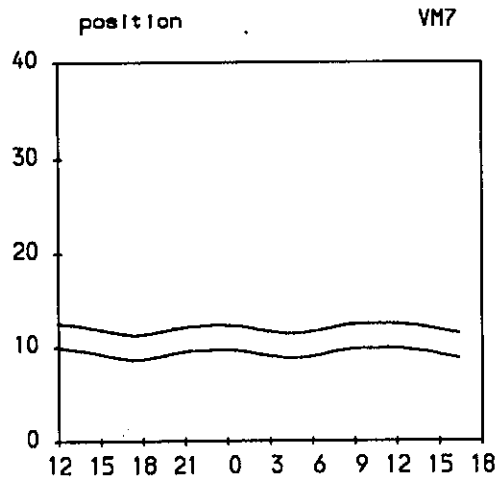
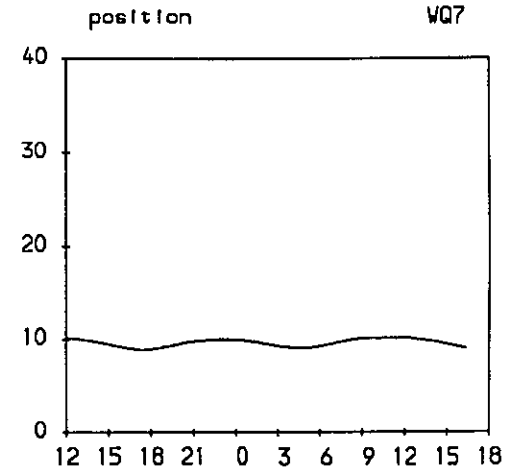
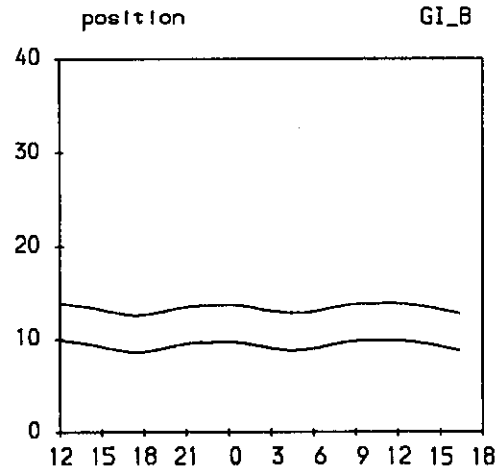
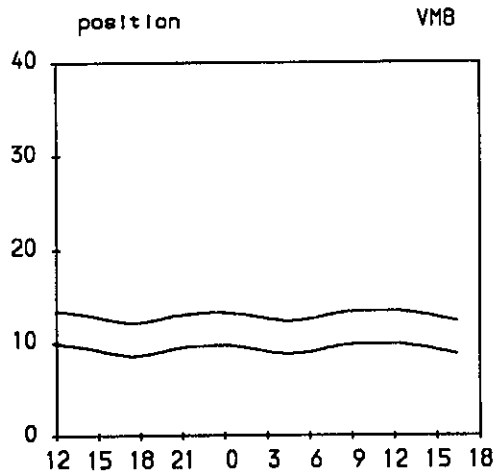


Green Island Dry Neap Scenario 1 (Case 3)

Layer Depth (metres) against time

2 Layer, 100m grid 29 Nov 1993 — Scen. 1 Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Dry Neap Scenario 1 (Case 3)

Layer Depth (metres) against time

2 Layer, 100m grid 29 Nov 1993

— Scen. 1

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer

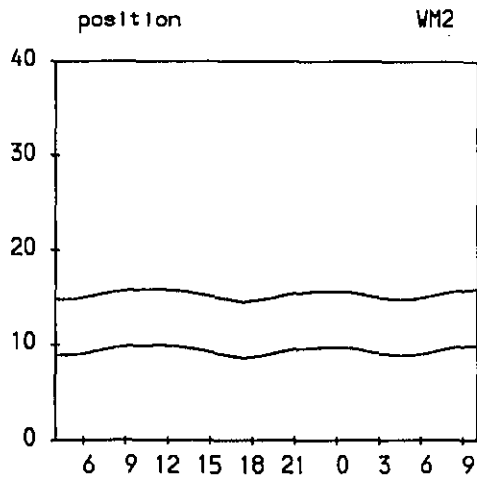
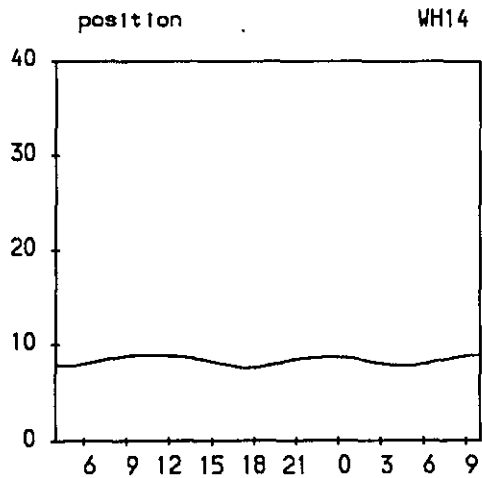
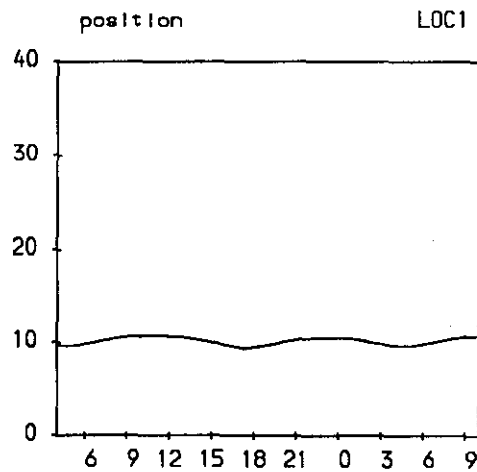
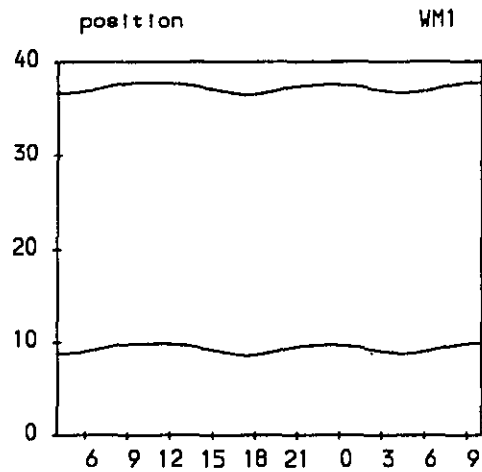


FIGURE 8

CASE 3 (1ST SCENARIO) : DRY SEASON SPRING TIDE

Green Island Dry Spring Scenario 1 (Case 3)

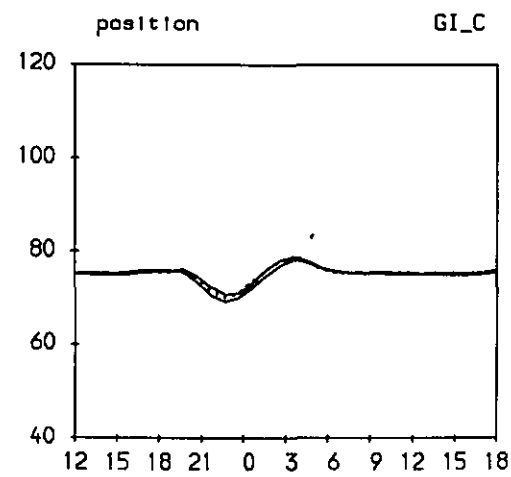
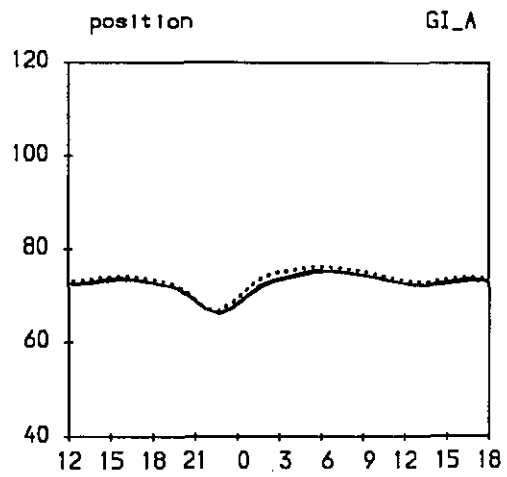
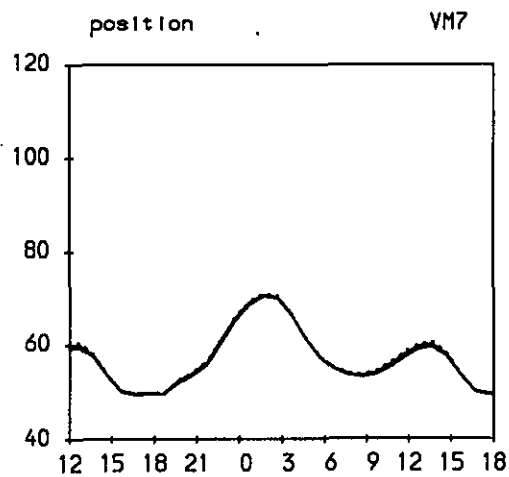
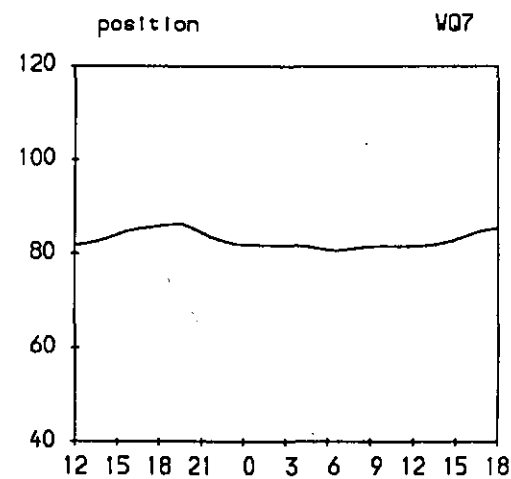
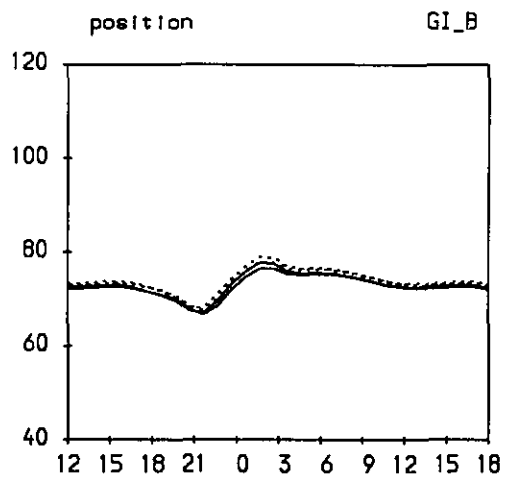
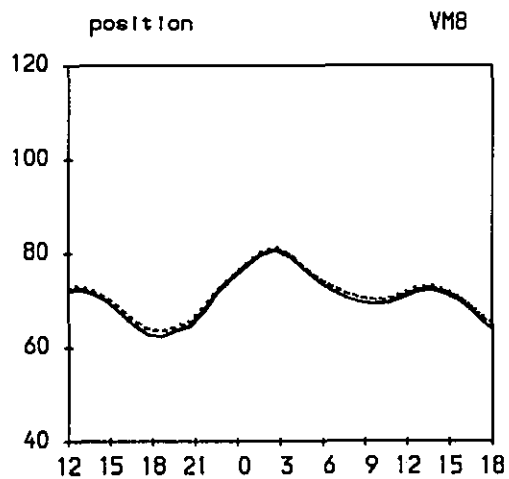
Dissolved Oxygen (% saturation) against time

2 Layer, 100m grid 29 Nov 1993

— Scen. 1

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Dry Spring Scenario 1 (Case 3)

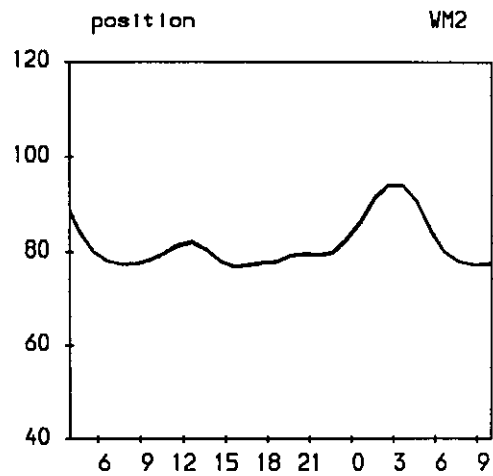
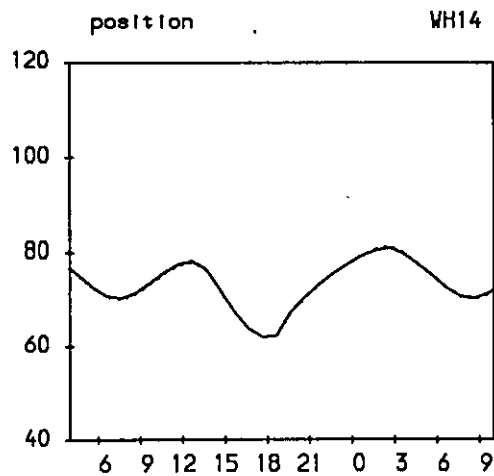
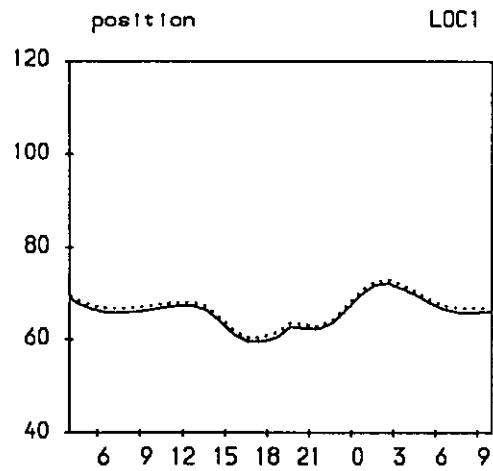
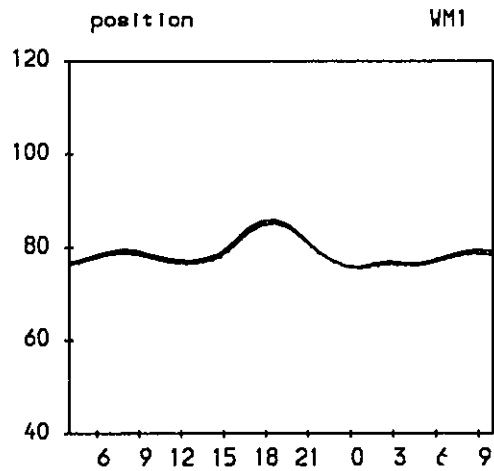
Dissolved Oxygen (% saturation) against time

2 Layer, 100m grid 29 Nov 1993

— Scen. 1

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Dry Spring Scenario 1 (Case 3)

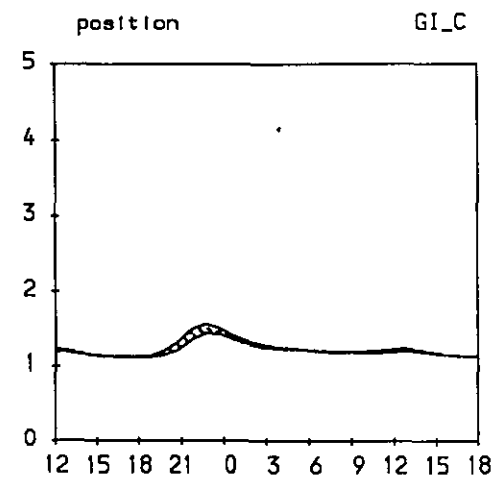
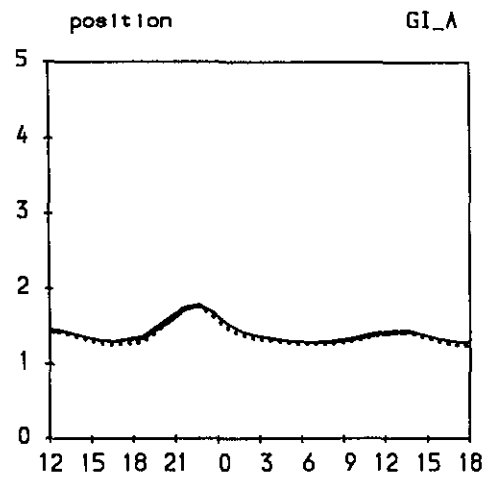
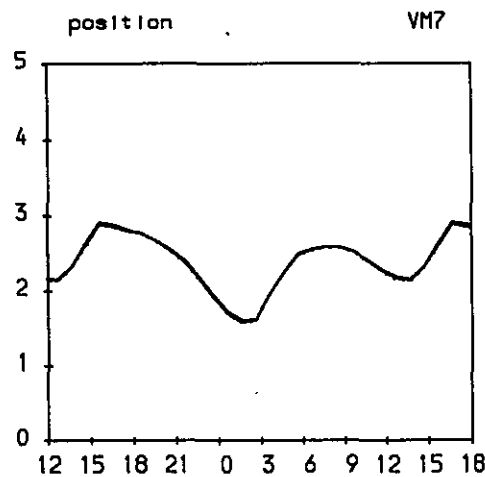
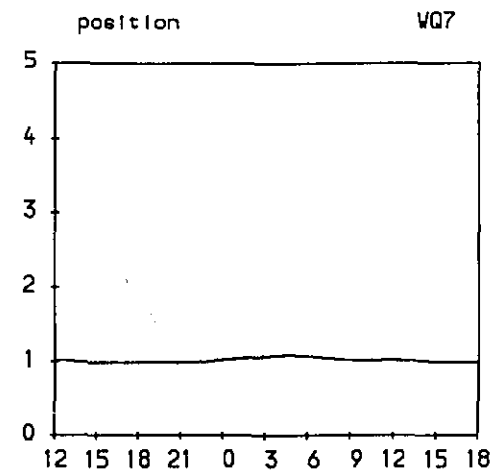
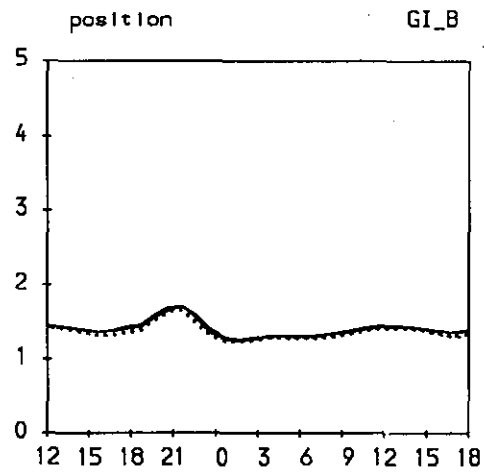
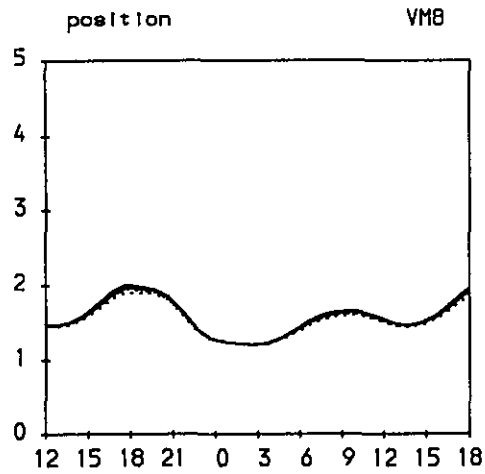
BOD (mg/L) against time

2 Layer, 100m grid 29 Nov 1993

— Scen. 1

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Dry Spring Scenario 1 (Case 3)

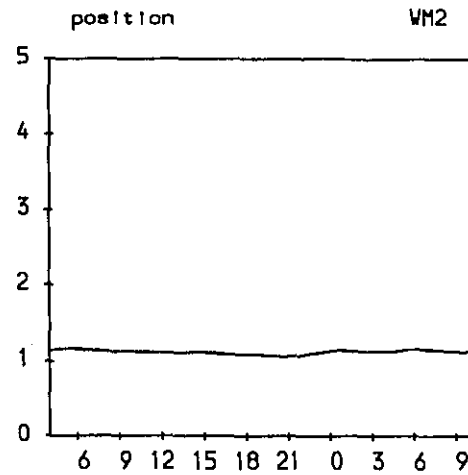
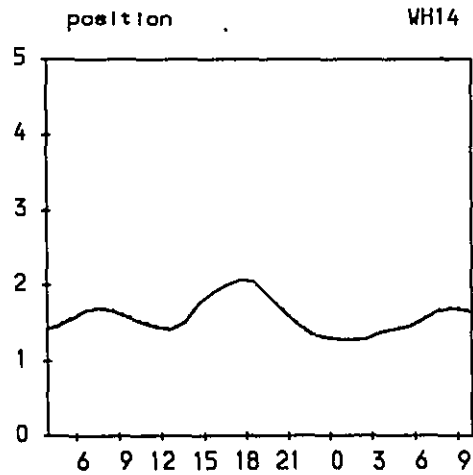
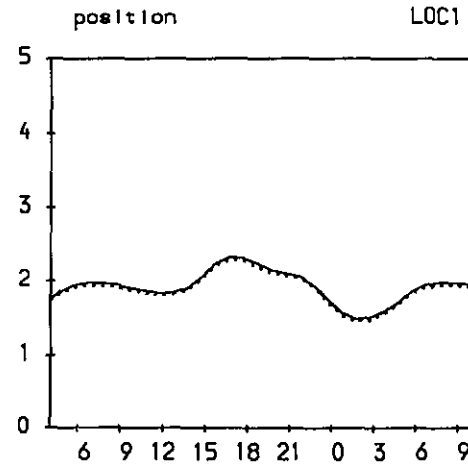
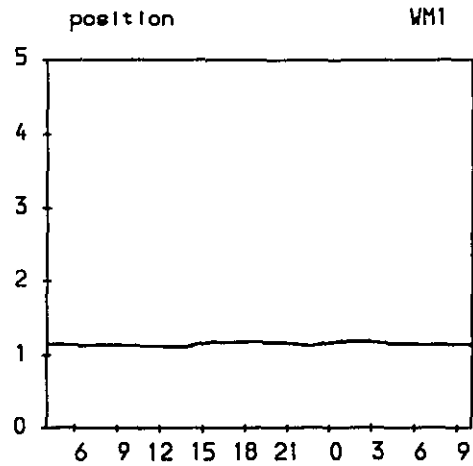
BOD (mg/L) against time

2 Layer, 100m grid 29 Nov 1993

— Scen. 1

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Dry Spring Scenario 1 (Case 3)

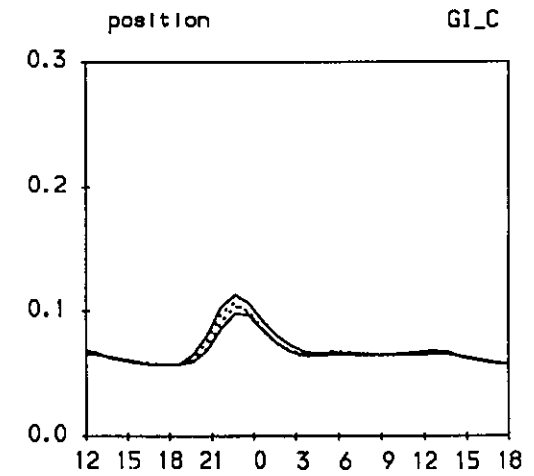
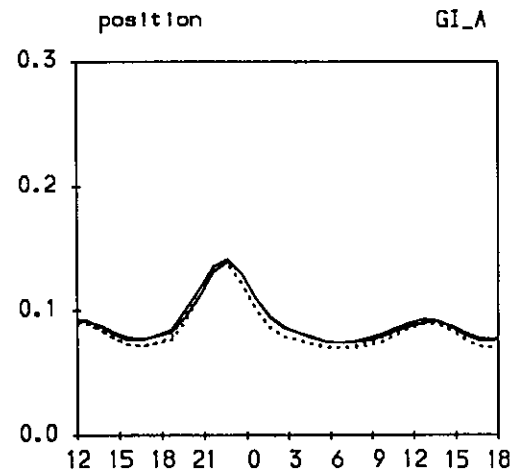
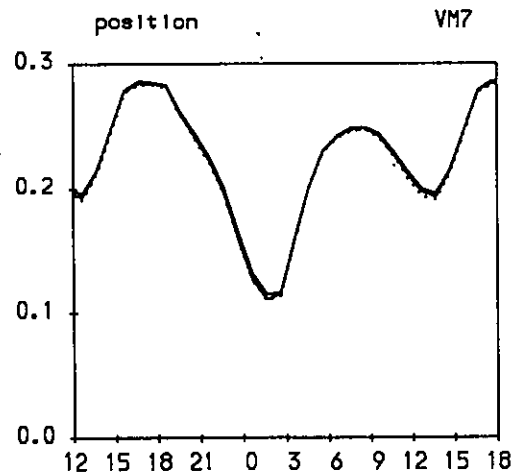
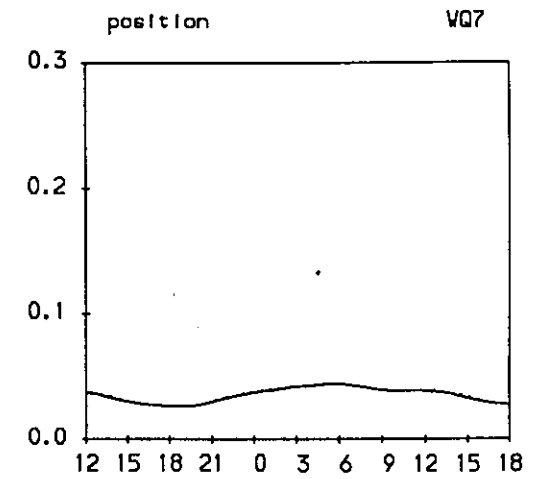
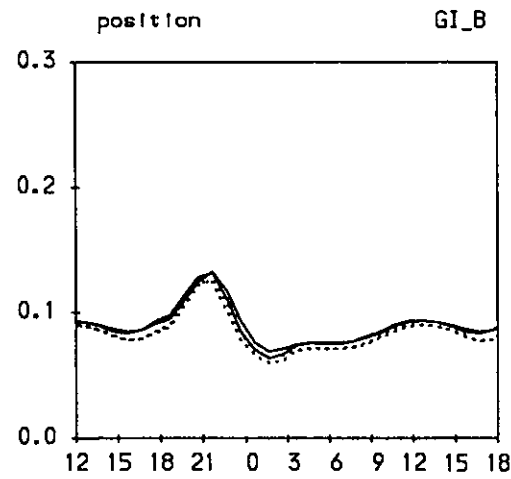
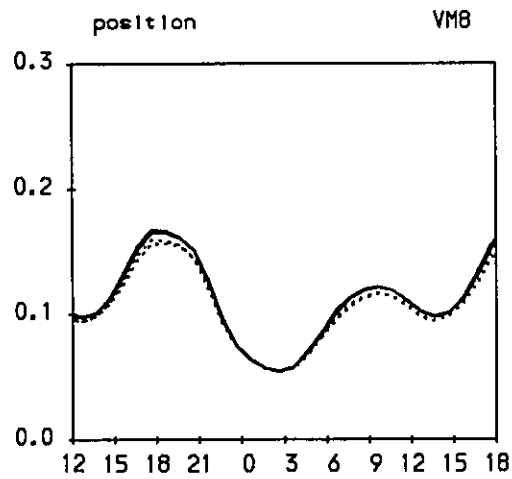
Ammoniacal Nitrogen (mg N/L) against time

2 Layer, 100m grid 29 Nov 1993

— Scen. 1

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Dry Spring Scenario 1 (Case 3)

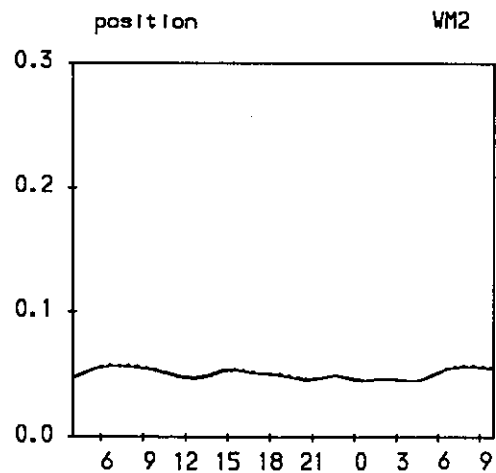
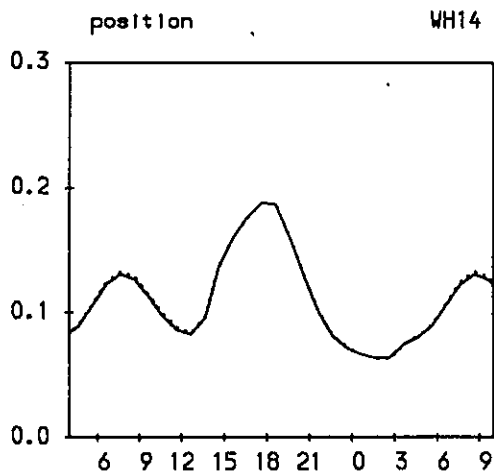
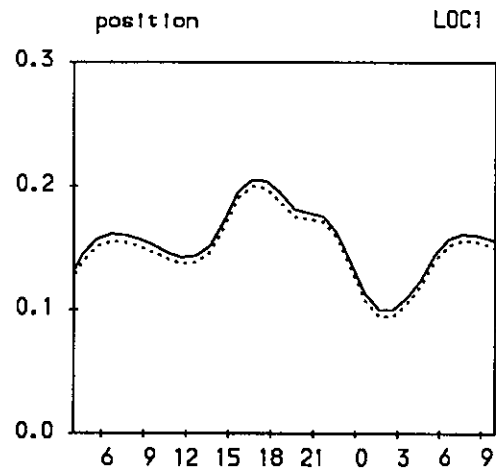
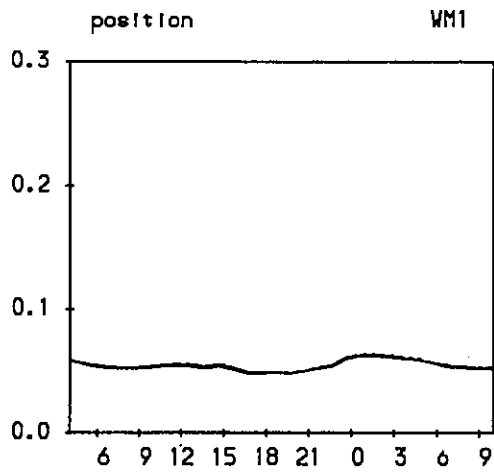
Ammoniacal Nitrogen (mg N/L) against time

2 Layer, 100m grid 29 Nov 1993

— Scen. 1

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Dry Spring Scenario 1 (Case 3)

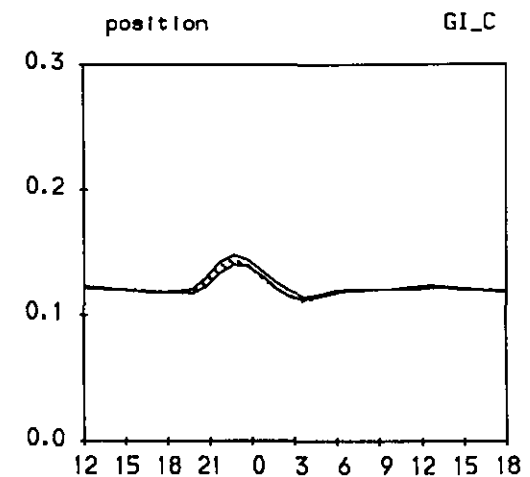
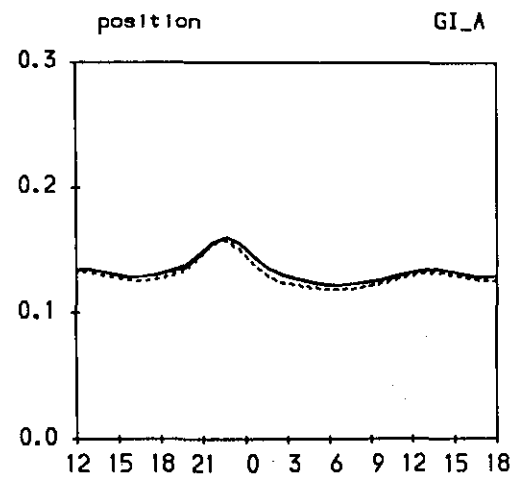
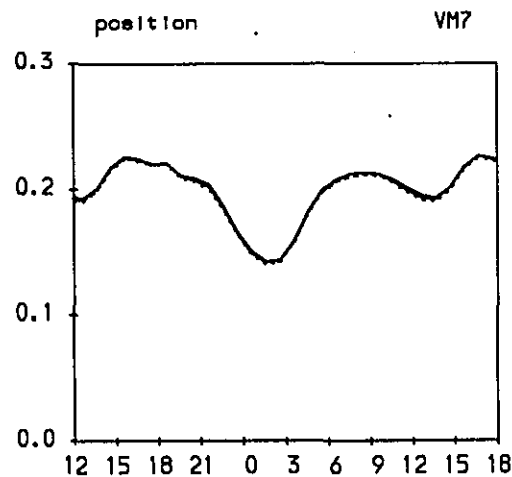
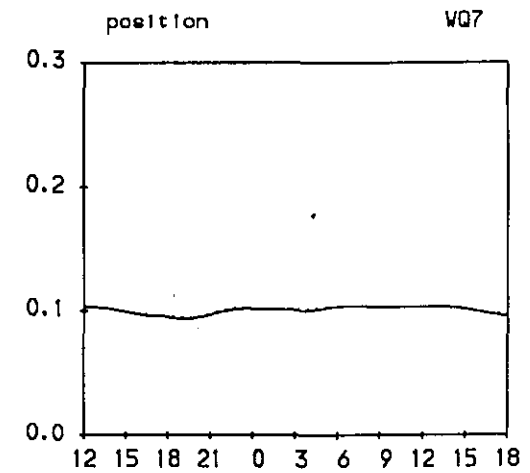
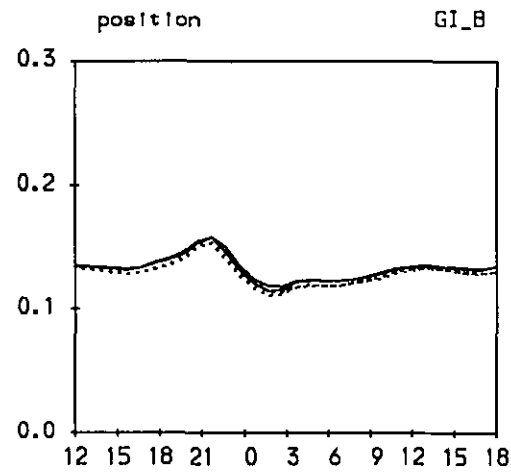
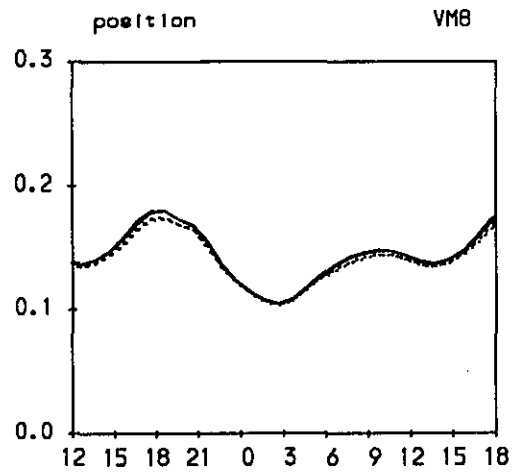
Oxidised Nitrogen (mg N/l) against time

2 Layer, 100m grid 29 Nov 1993

— Scen. 1

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Dry Spring Scenario 1 (Case 3)

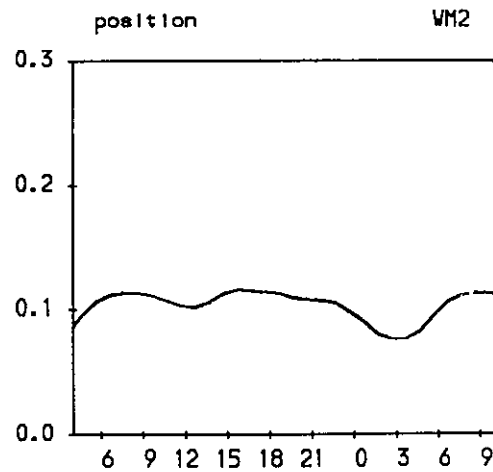
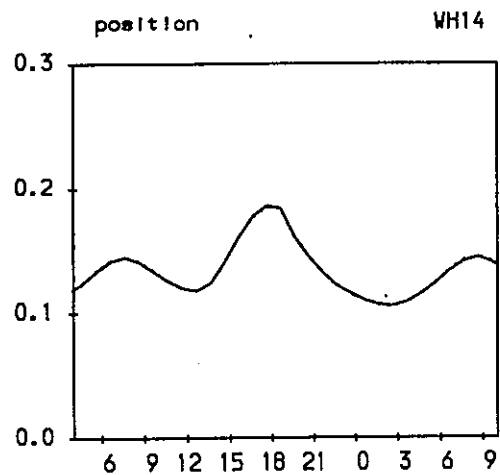
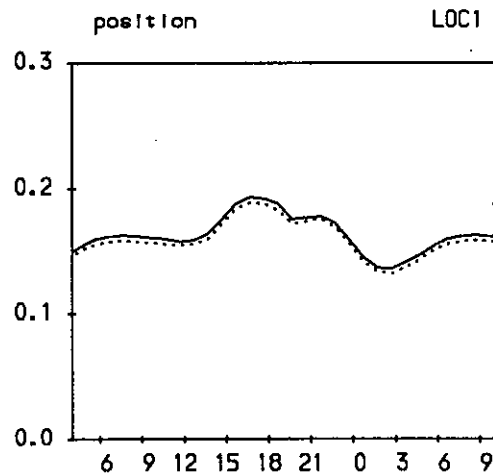
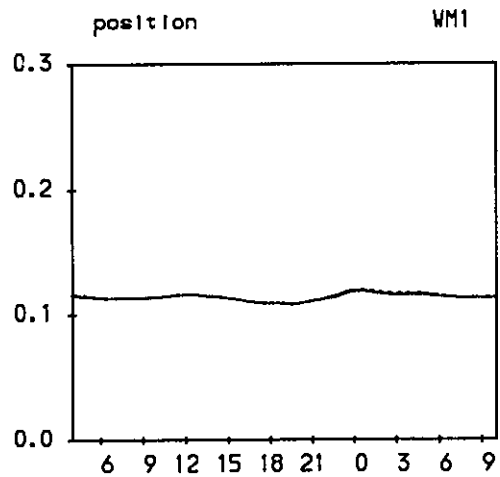
Oxidised Nitrogen (mg N/U) against time

2 Layer, 100m grid 29 Nov 1993

—— Scen. 1

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Dry Spring Scenario 1 (Case 3)

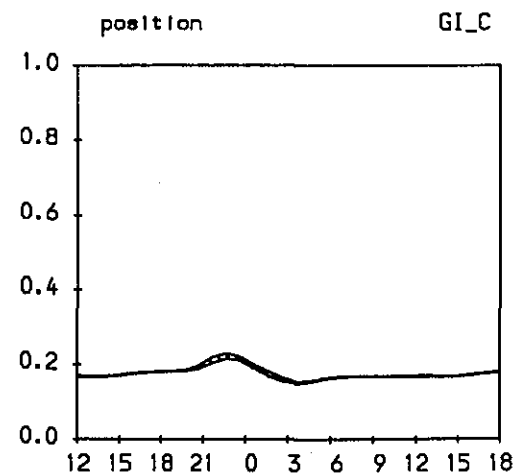
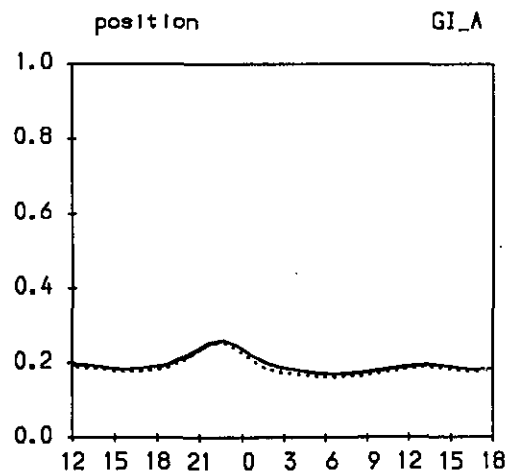
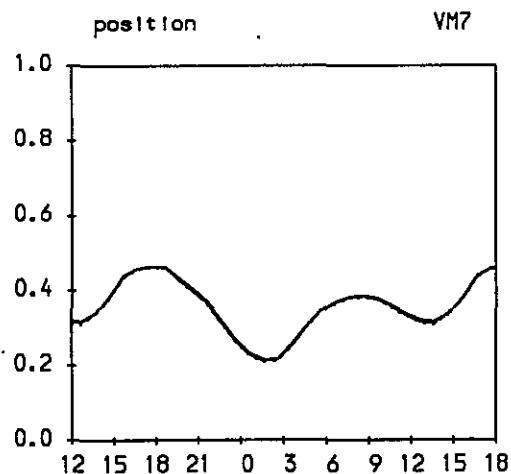
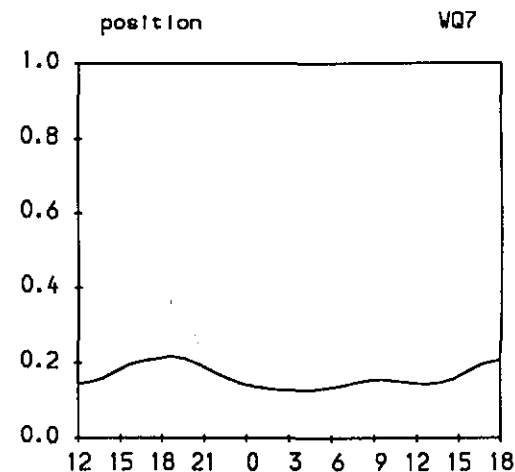
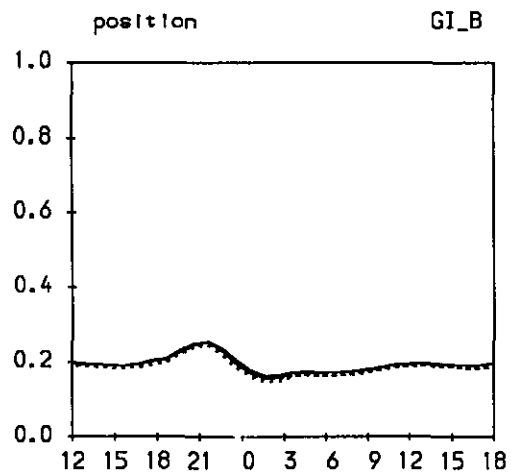
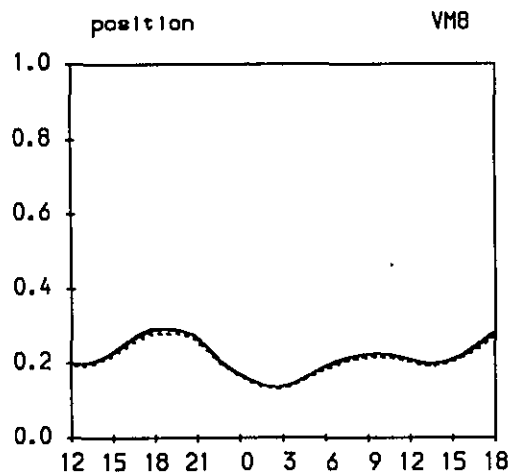
Organic Nitrogen (mg N/L) against time

2 Layer, 100m grid 29 Nov 1993

— Scen. 1

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Dry Spring Scenario 1 (Case 3)

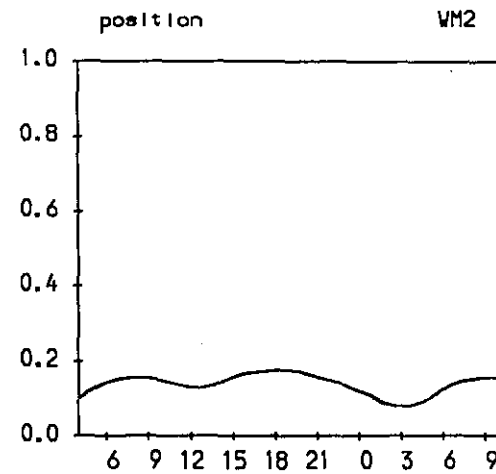
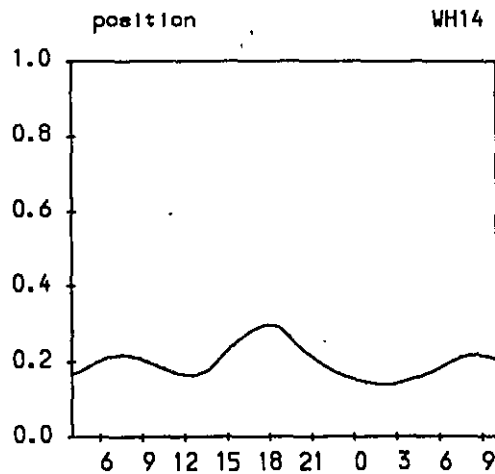
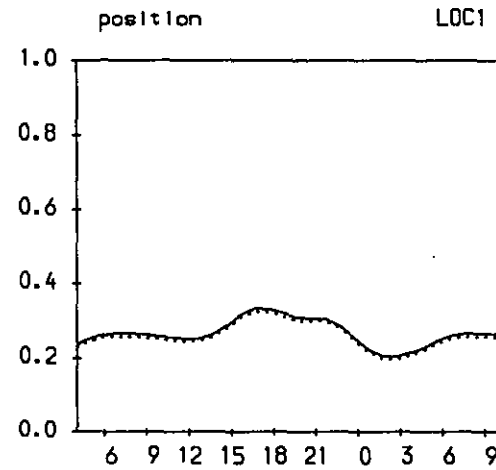
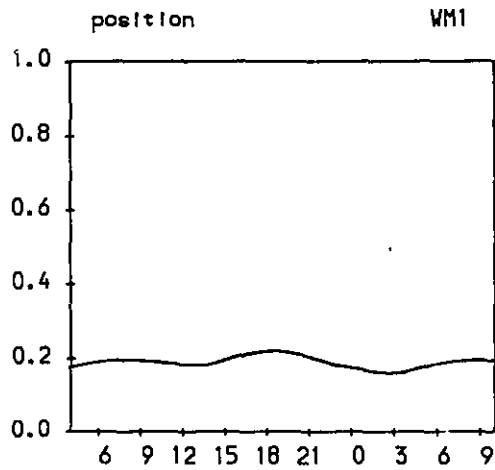
Organic Nitrogen (mg N/l) against time

2 Layer, 100m grid 29 Nov 1993

— Scen. 1

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Dry Spring Scenario 1 (Case 3)

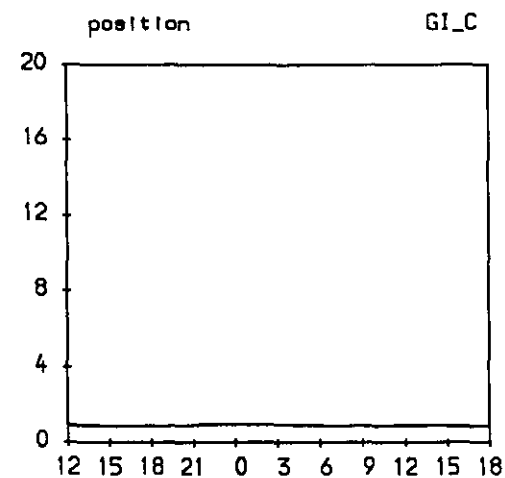
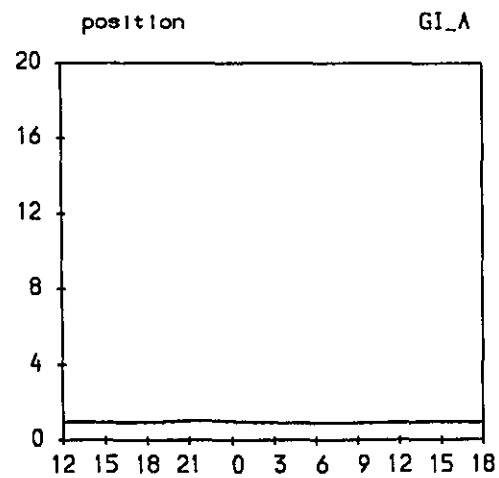
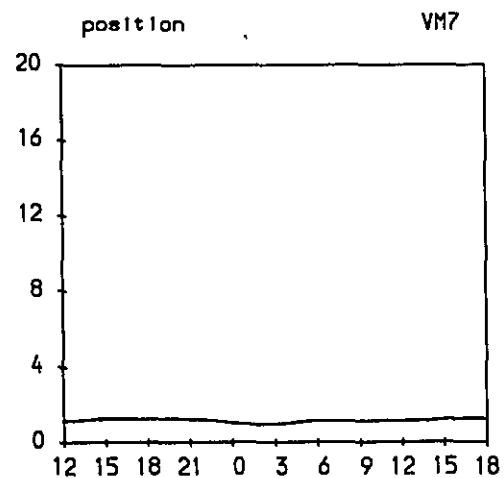
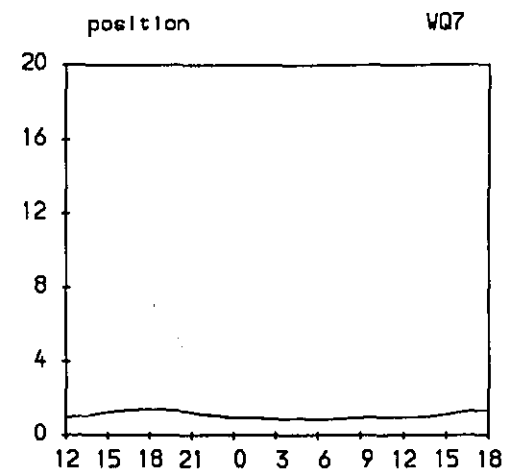
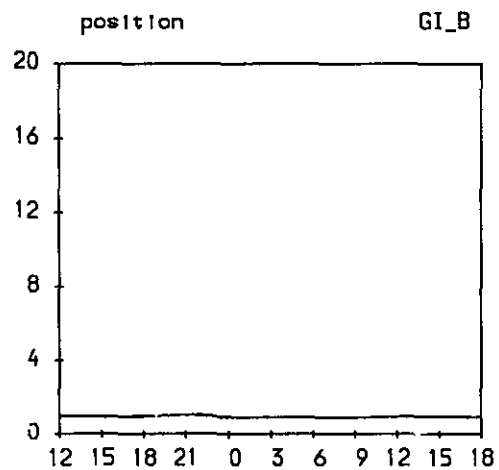
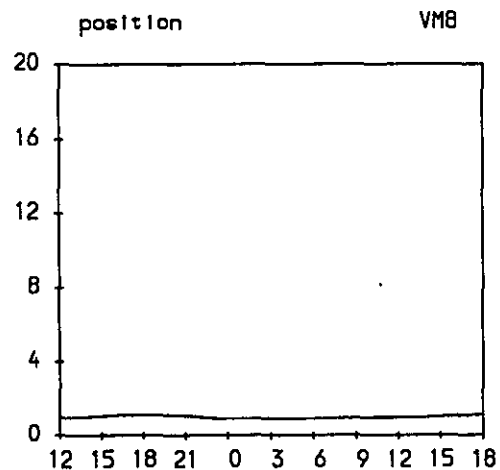
Chlorophyll (ug/L) against time

2 Layer, 100m grid 29 Nov 1993

— Scen. 1

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Dry Spring Scenario 1 (Case 3)

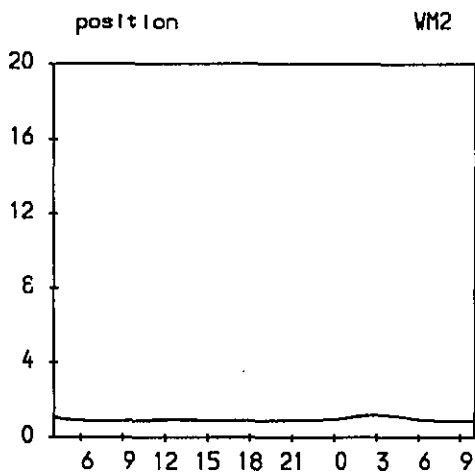
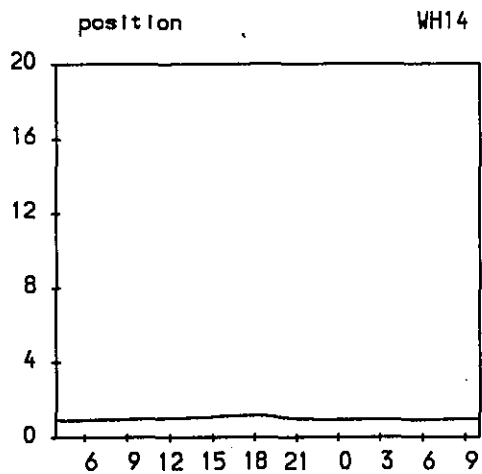
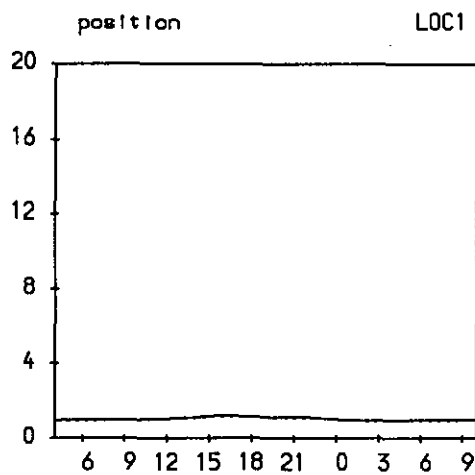
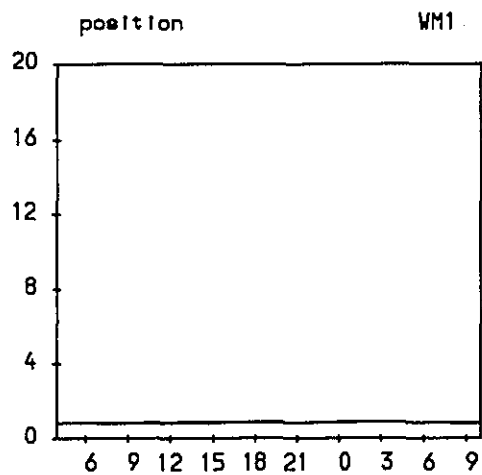
Chlorophyll (ug/L) against time

2 Layer, 100m grid 29 Nov 1993

— Scen. 1

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Dry Spring Scenario 1 (Case 3)

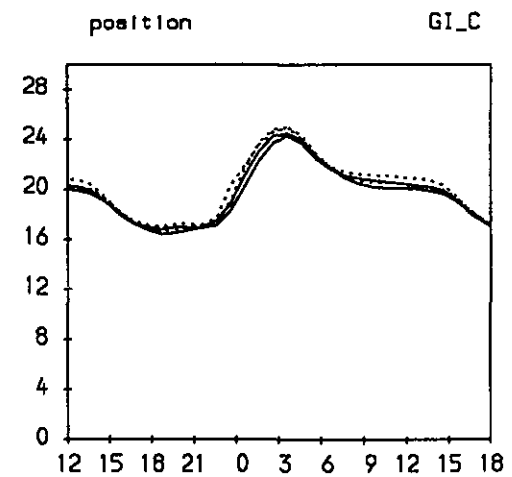
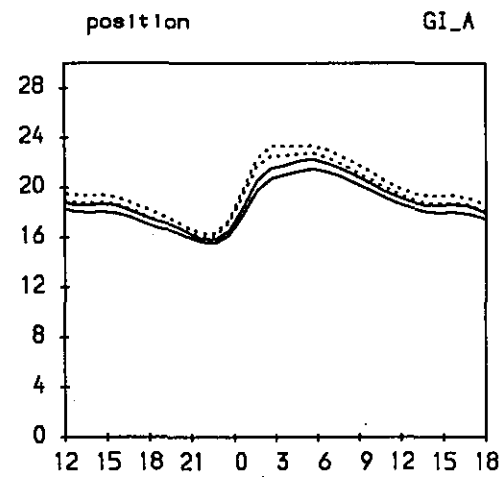
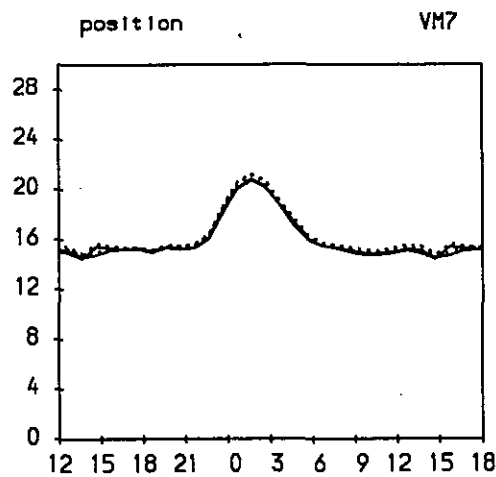
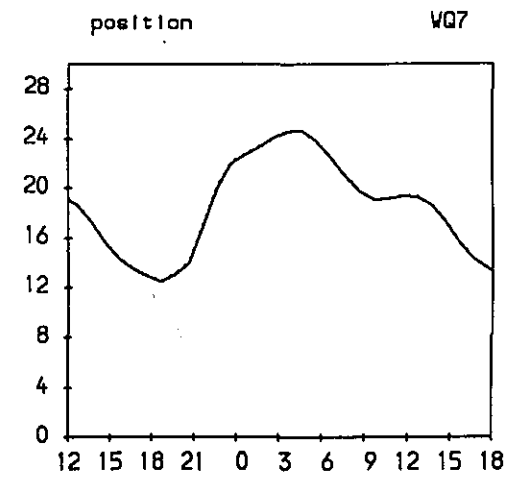
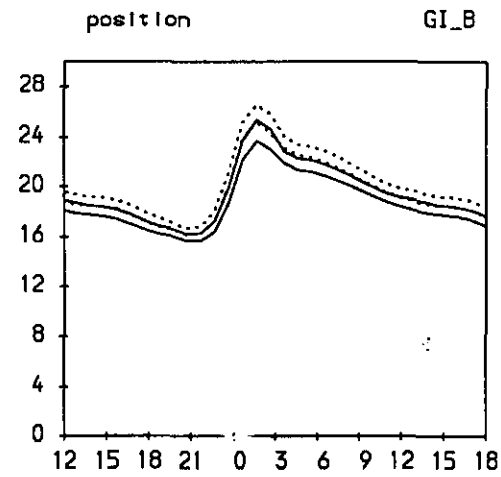
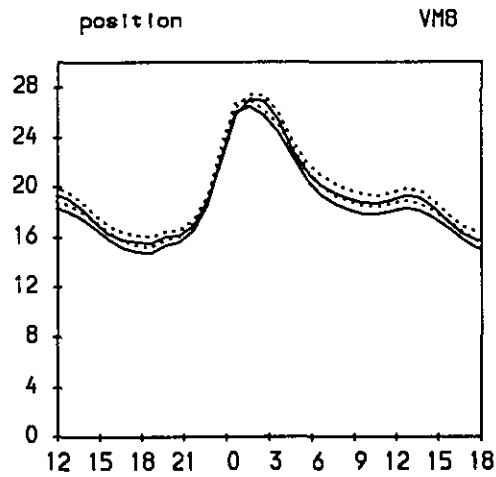
Suspended Solids (mg/L) against time

2 Layer, 100m grid 29 Nov 1993

— Scen. 1

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Dry Spring Scenario 1 (Case 3)

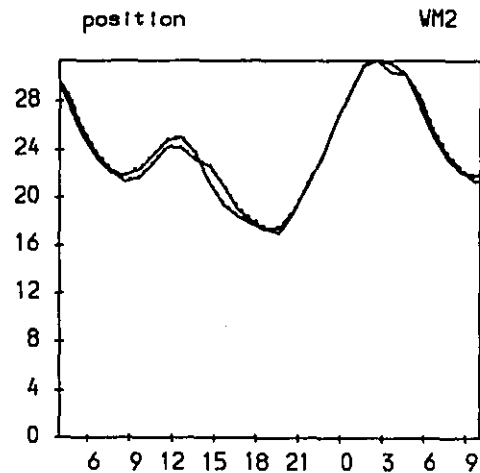
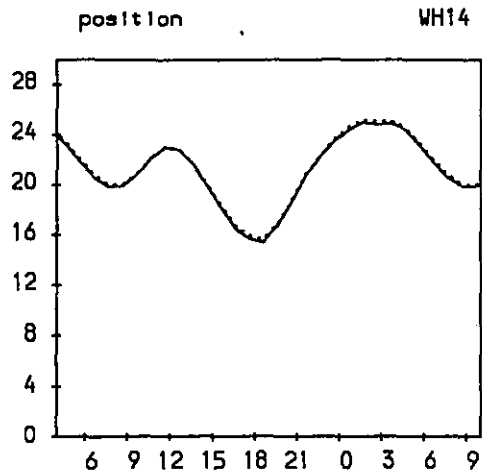
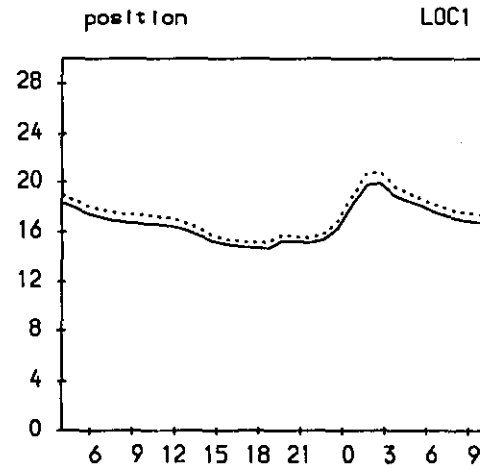
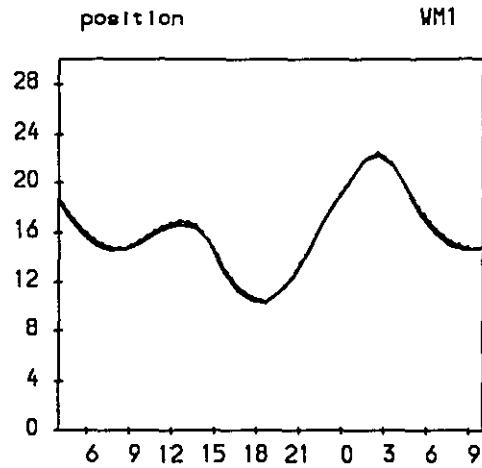
Suspended Solids (mg/L) against time

2 Layer, 100m grid 29 Nov 1993

— Scen. 1

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Dry Spring Scenario 1 (Case 3)

E.Coli (no/100ml) against time

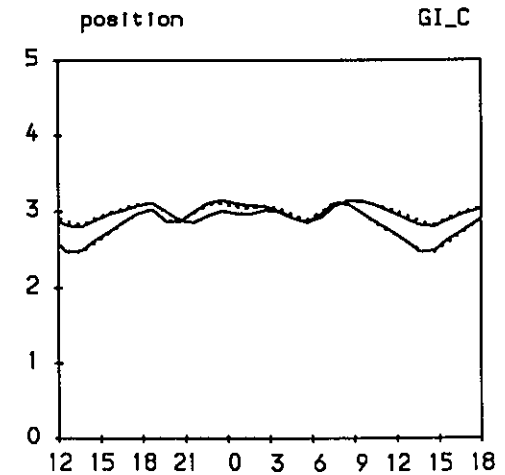
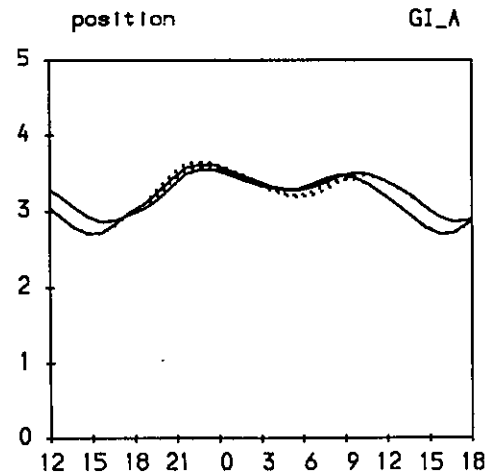
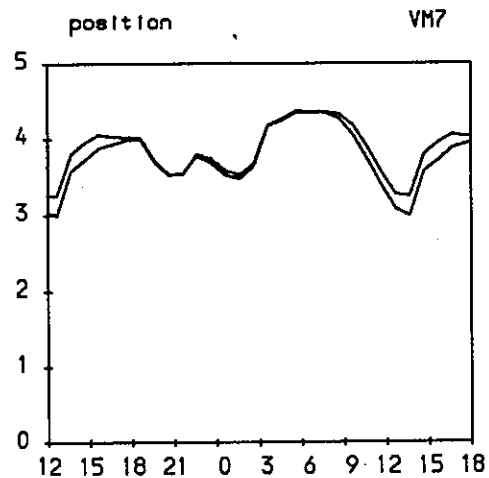
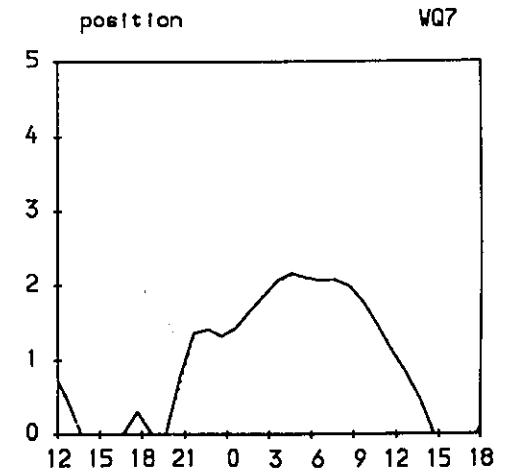
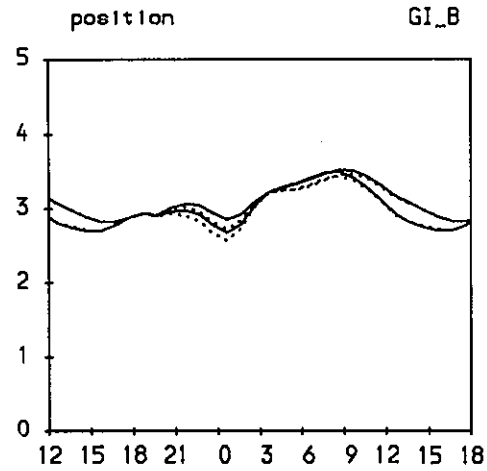
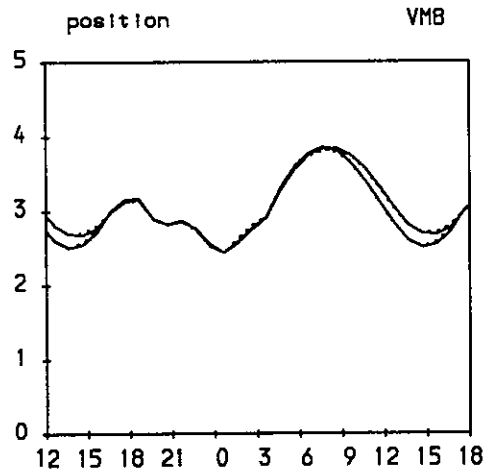
(log to base 10 on y-axis)

2 Layer, 100m grid 29 Nov 1993

— Scen. 1

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Dry Spring Scenario 1 (Case 3)

E.Coli (no/100ml) against time

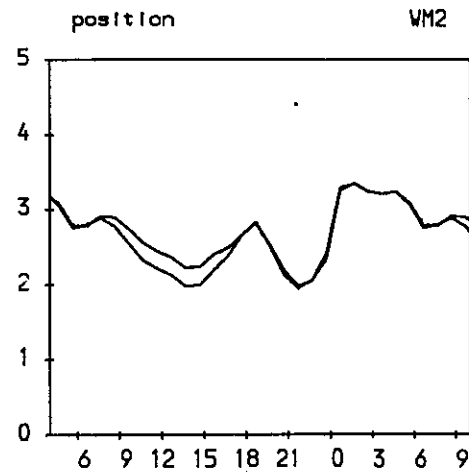
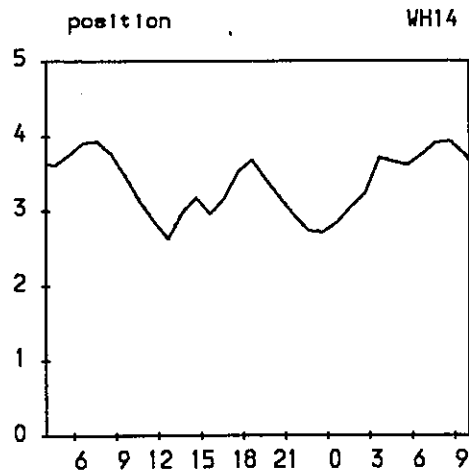
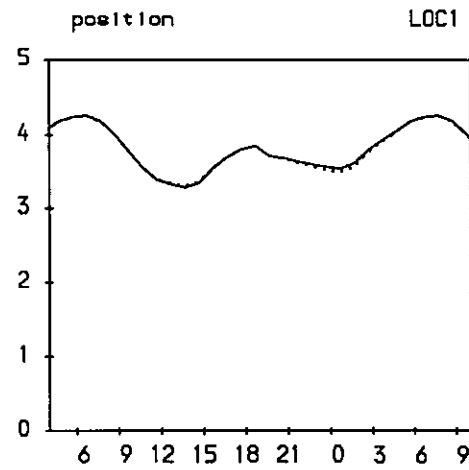
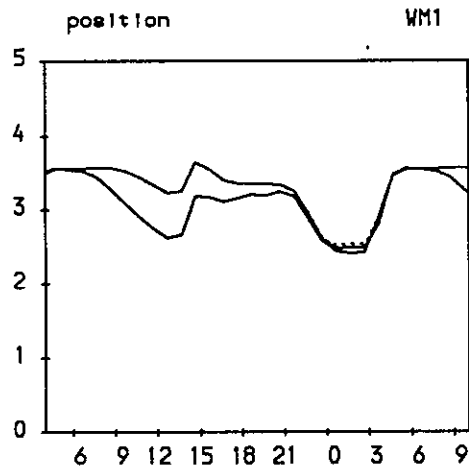
(log to base 10 on y-axis)

2 Layer, 100m grid 29 Nov 1993

— Scen. 1

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Dry Spring Scenario 1 (Case 3)

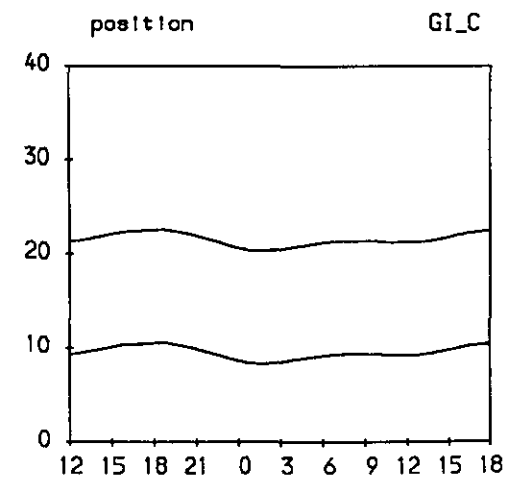
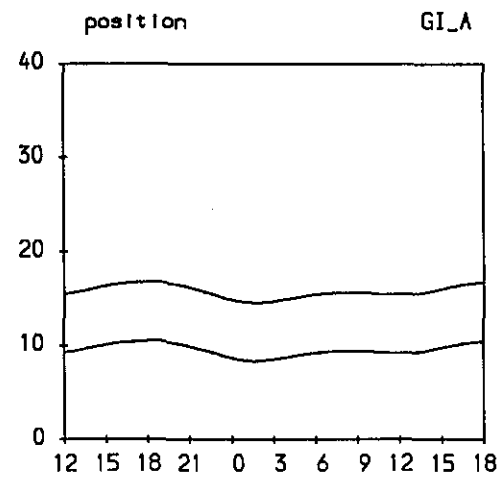
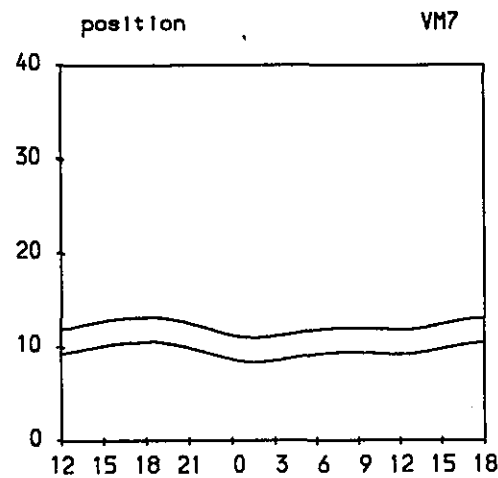
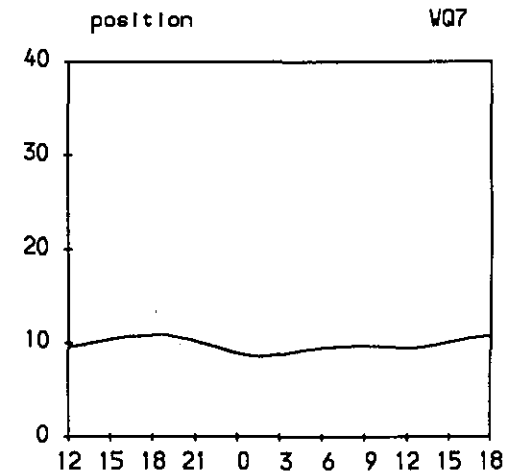
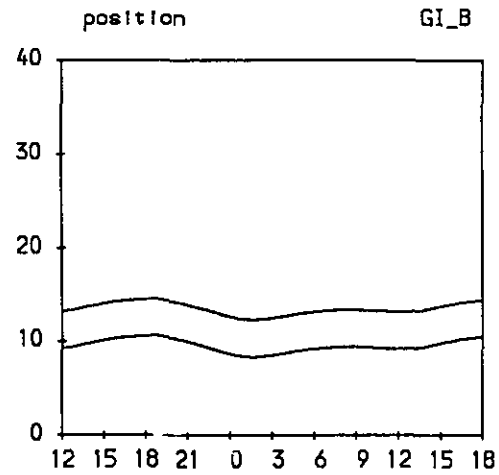
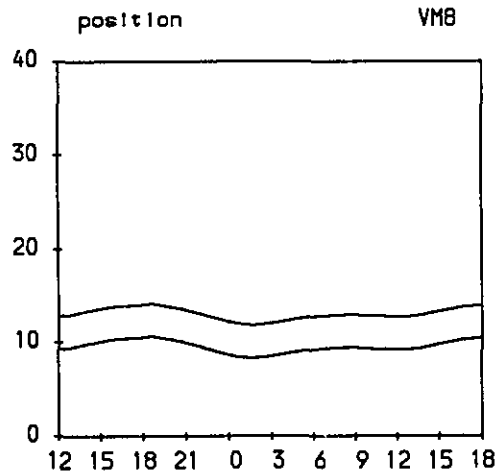
Layer Depth (metres) against time

2. Layer, 100m grid 29 Nov 1993

— Scen. 1

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Dry Spring Scenario 1 (Case 3)

Layer Depth (metres) against time

2 Layer, 100m grid 29 Nov 1993

— Scen. 1

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer

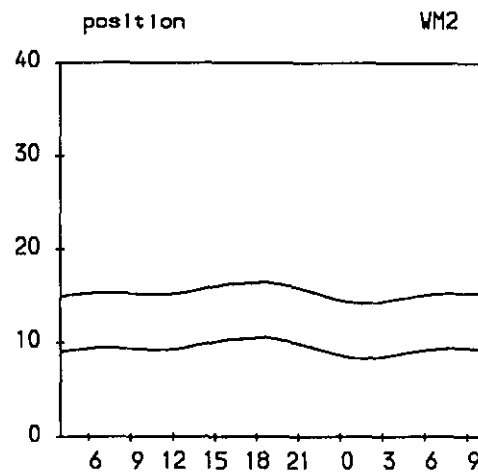
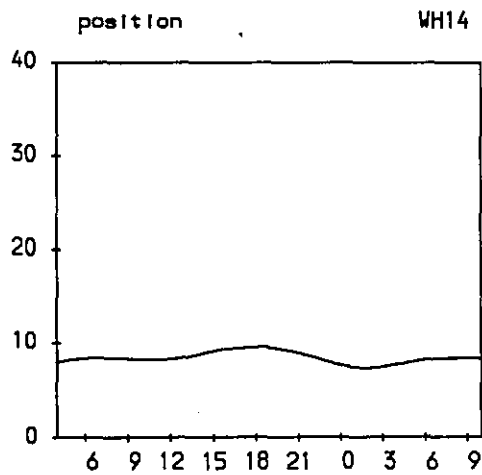
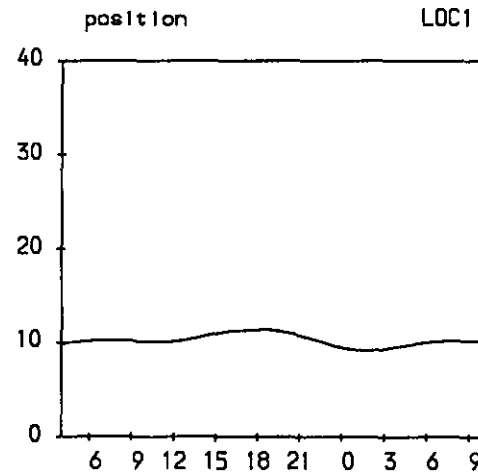
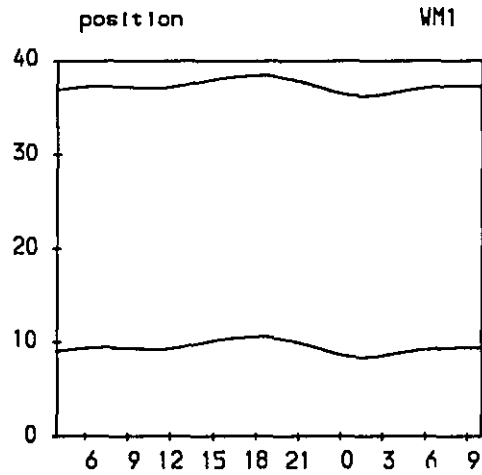


FIGURE 9

CASE 3 (1ST SCENARIO) : WET SEASON NEAP TIDE

Green Island Wet Neap Scenario 1 (Case 3)

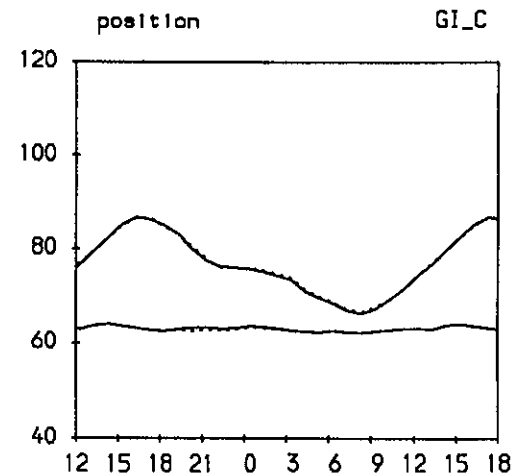
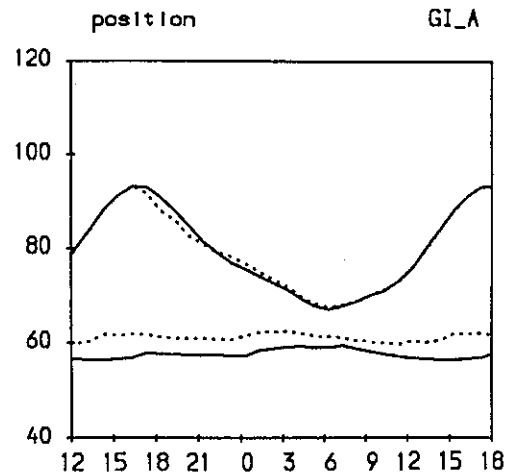
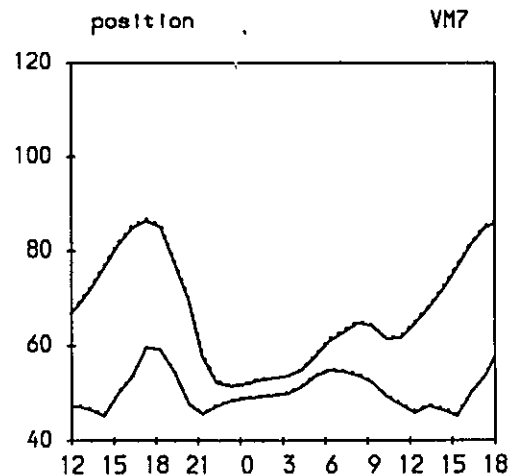
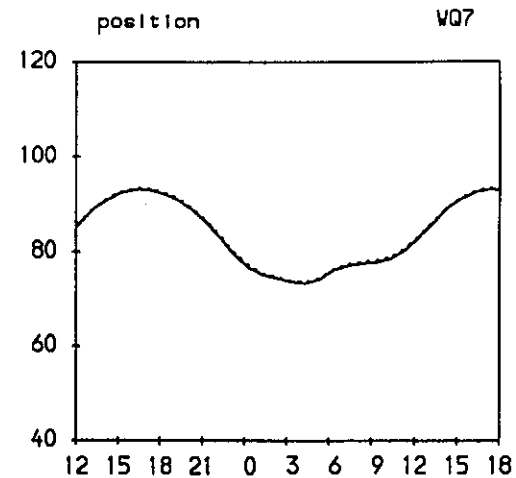
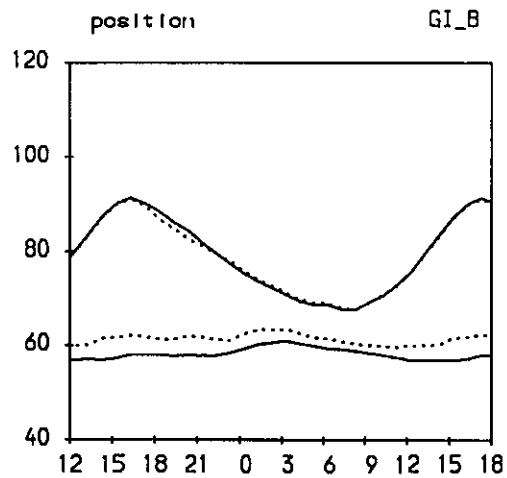
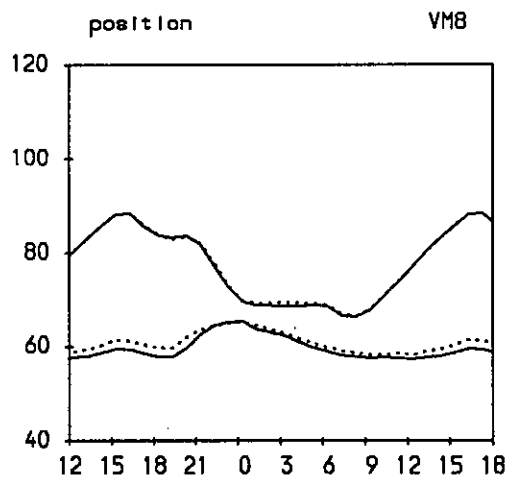
Dissolved Oxygen (% saturation) against time

2 Layer, 100m grid 29 Nov 1993

— Scen. 1

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Wet Neap Scenario 1 (Case 3)

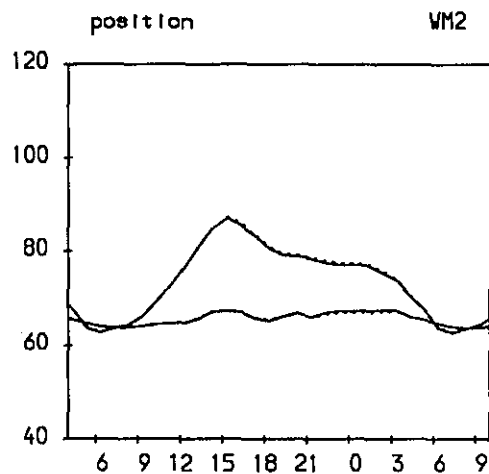
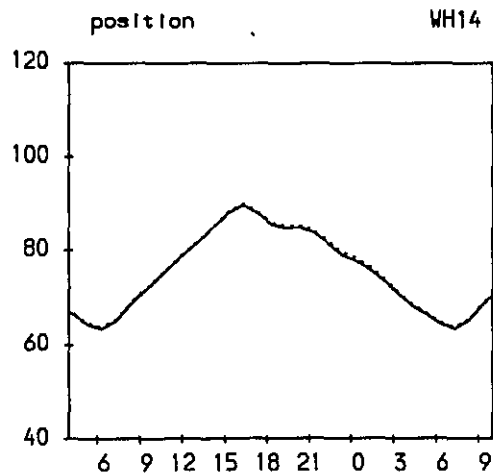
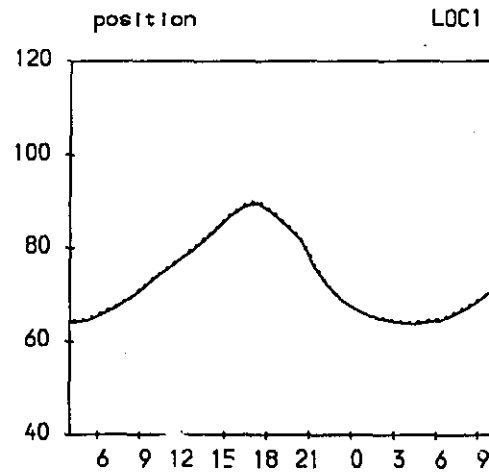
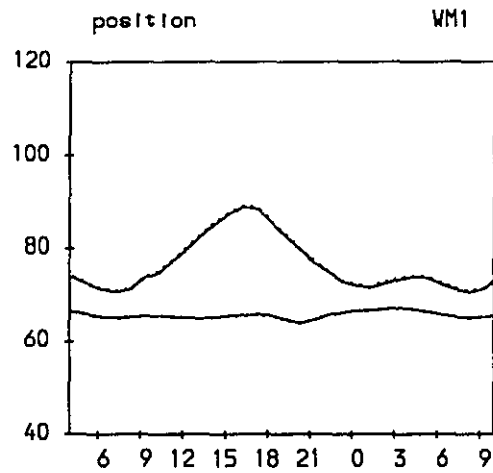
Dissolved Oxygen (% saturation) against time

2 Layer, 100m grid 29 Nov 1993

— Scen. 1

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Wet Neap Scenario 1 (Case 3)

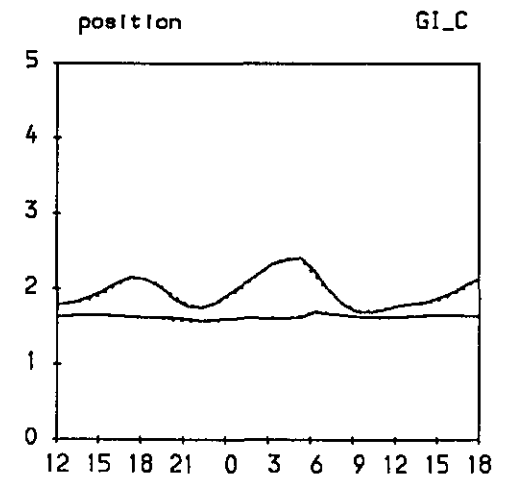
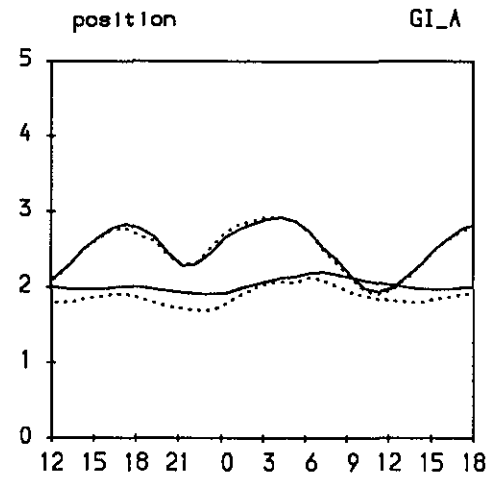
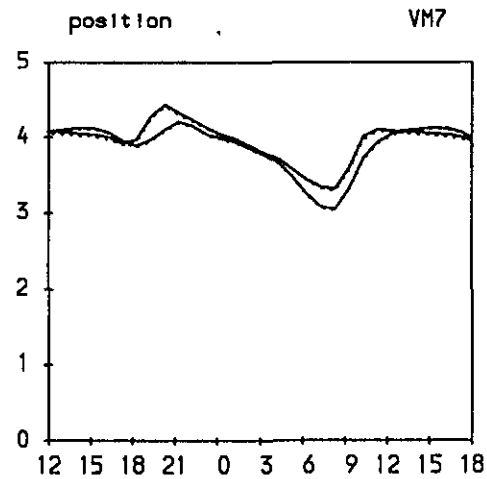
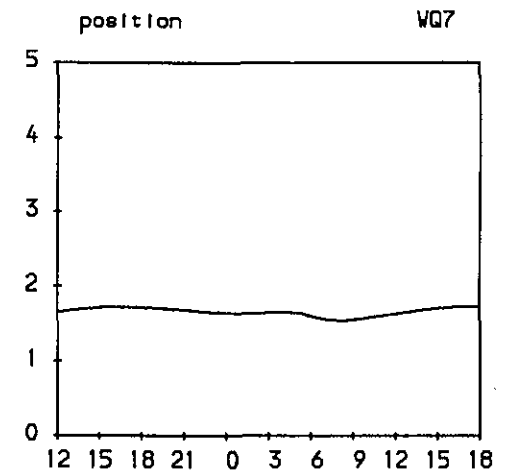
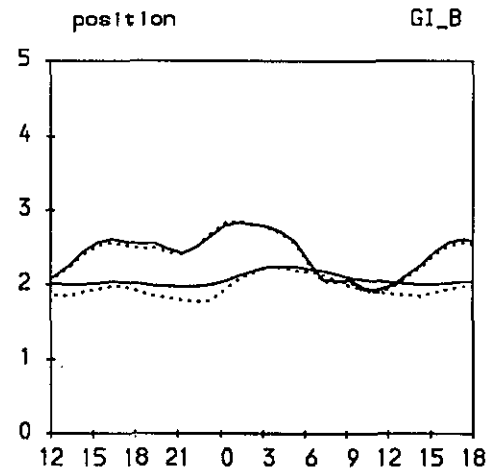
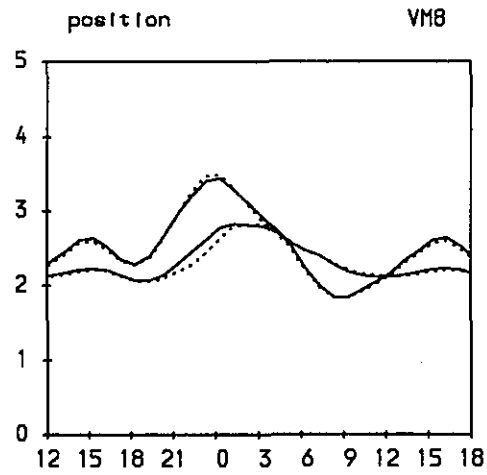
BOD (mg/L) against time

2 Layer, 100m grid 29 Nov 1993

— Scen. 1

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Wet Neap Scenario 1 (Case 3)

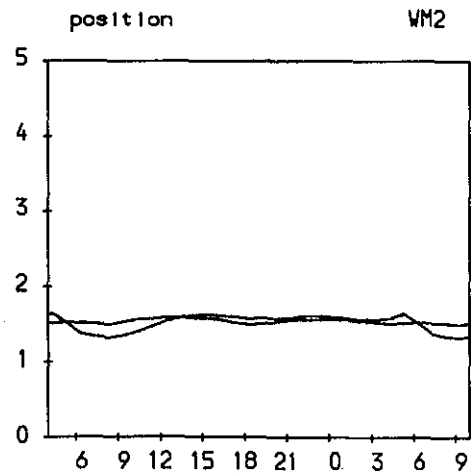
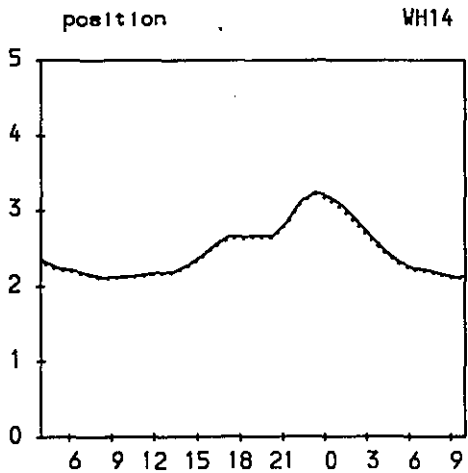
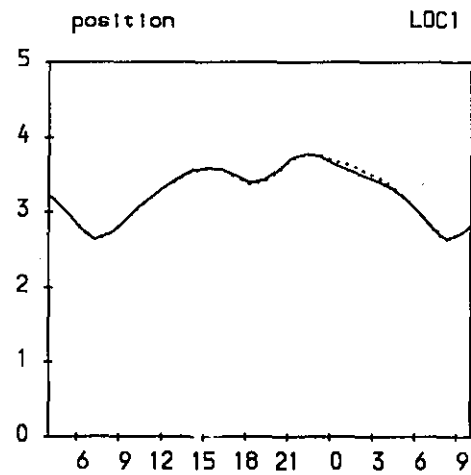
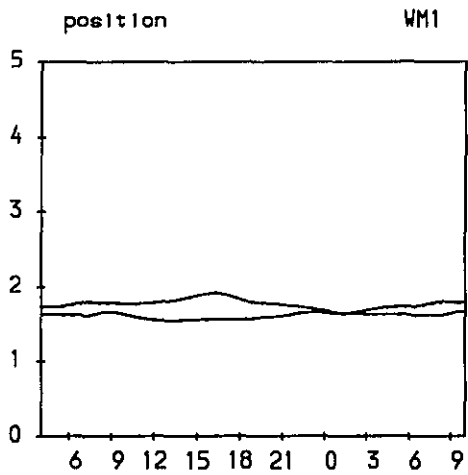
BOD (mg/L) against time

2 Layer, 100m grid 29 Nov 1993

— Scen. 1

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



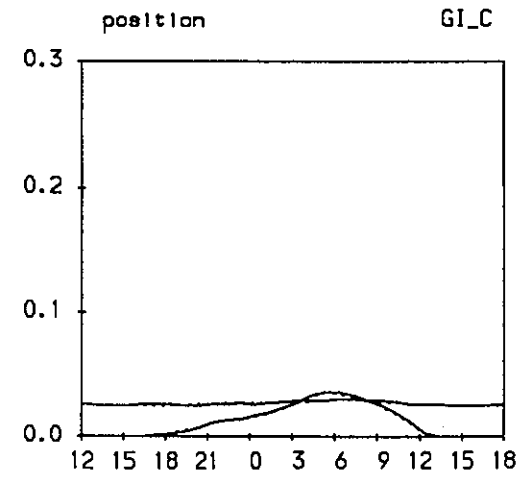
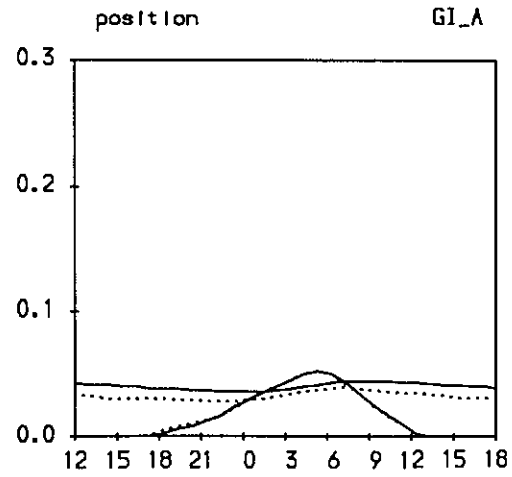
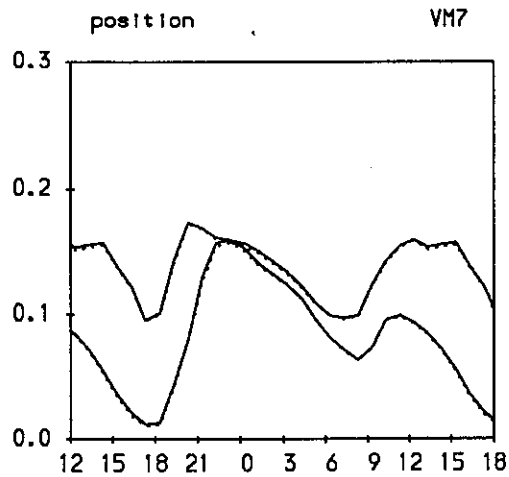
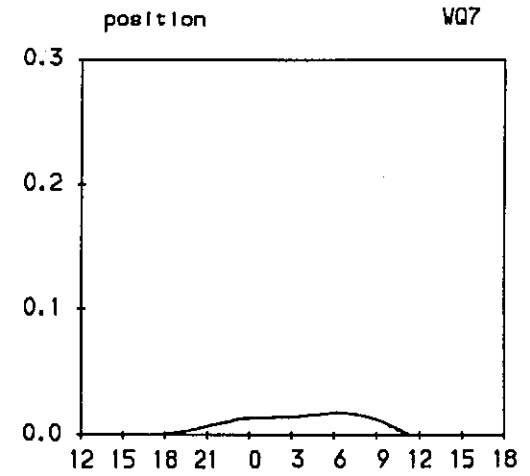
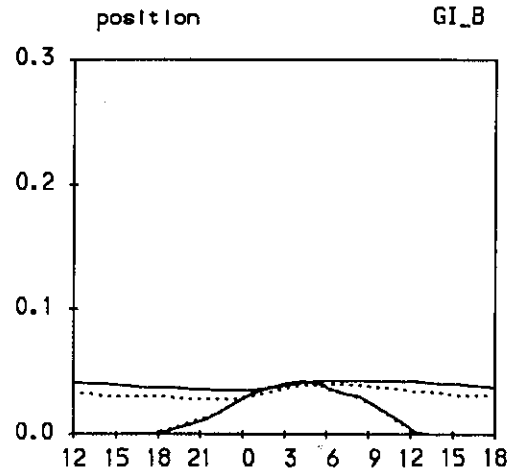
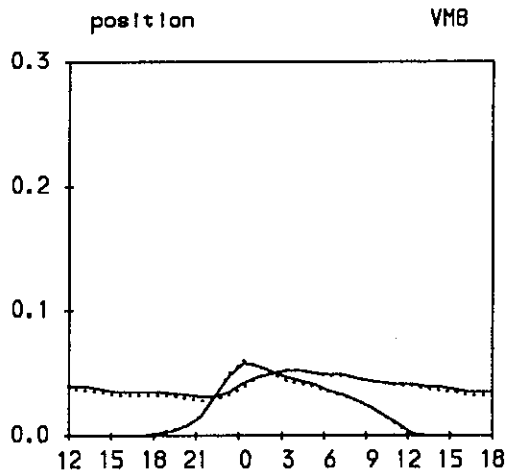
Green Island Wet Neap Scenario 1 (Case 3)

Ammoniacal Nitrogen (mg N/L) against time

2 Layer, 100m grid 29 Nov 1993 — Scen. 1

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Wet Neap Scenario 1 (Case 3)

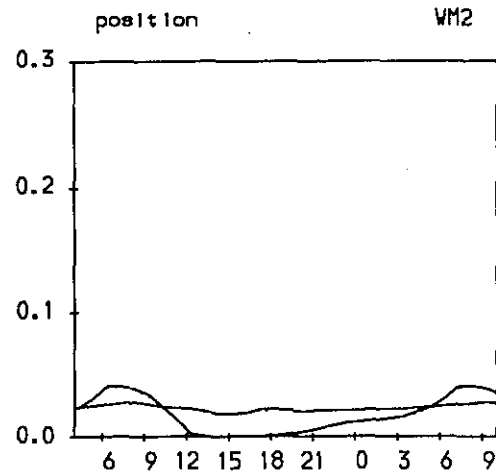
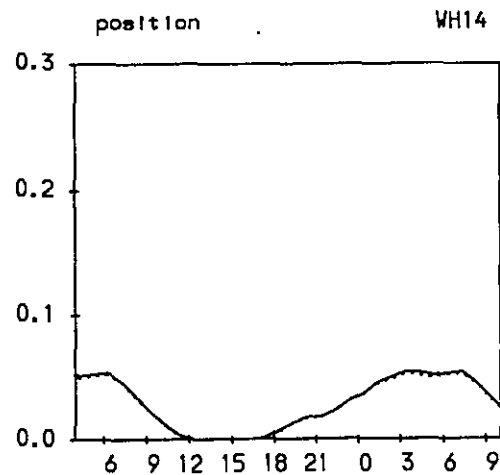
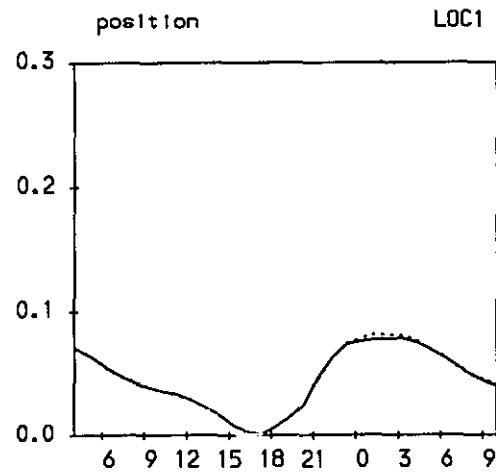
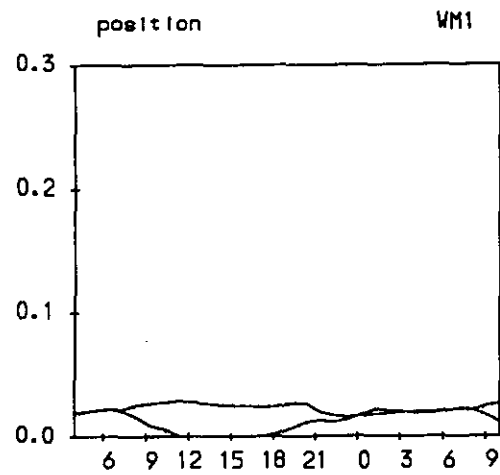
Ammoniacal Nitrogen (mg N/L) against time

2 Layer, 100m grid 29 Nov 1993

— Scen. 1

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Wet Neap Scenario 1 (Case 3)

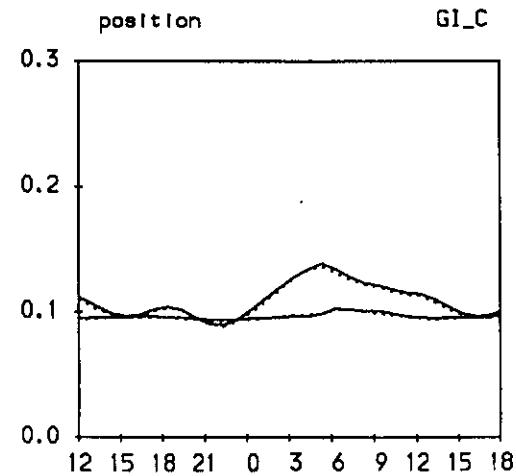
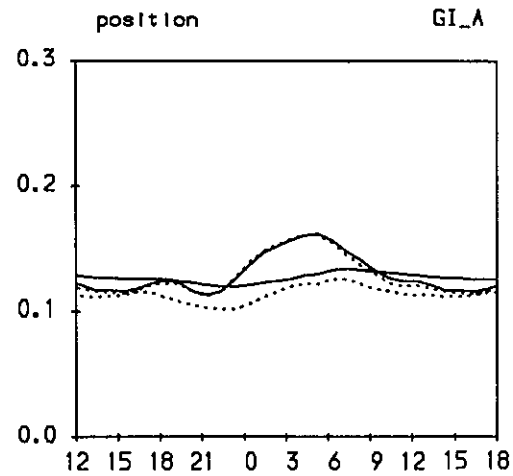
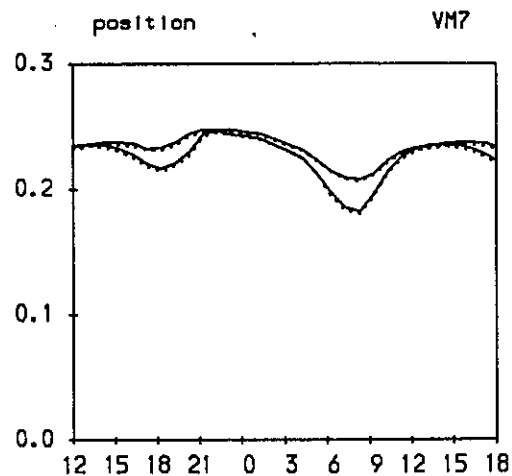
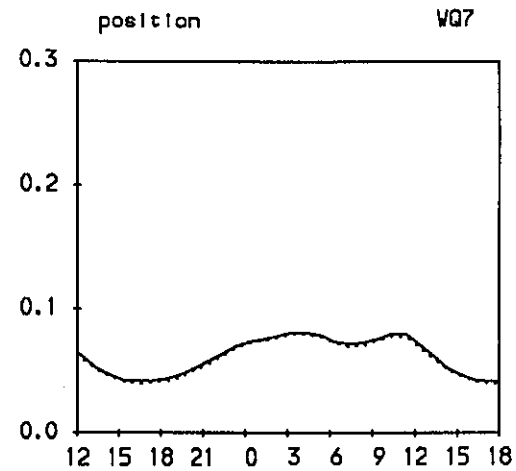
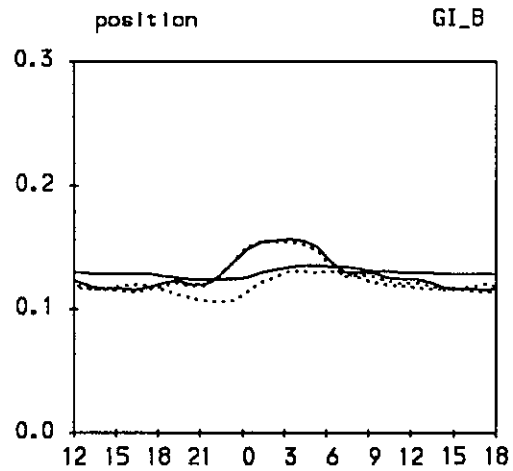
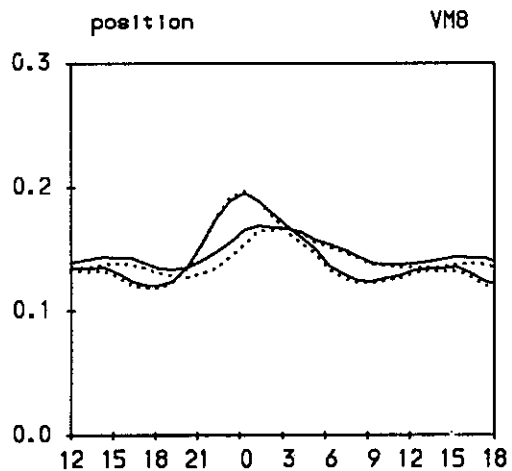
Oxidised Nitrogen (mg N/L) against time

2 Layer, 100m grid 29 Nov 1993

— Scen. 1

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Wet Neap Scenario 1 (Case 3)

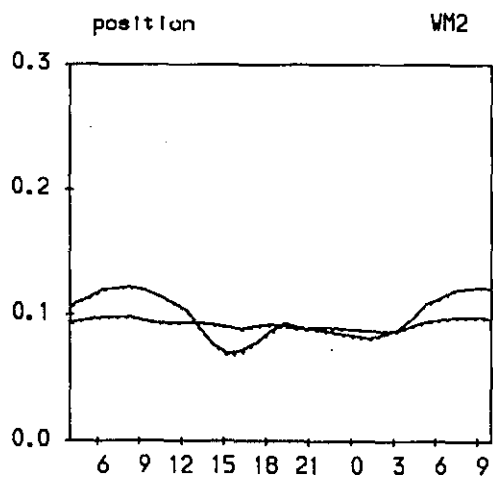
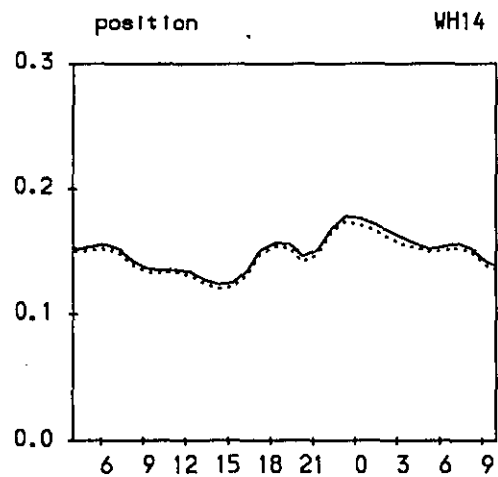
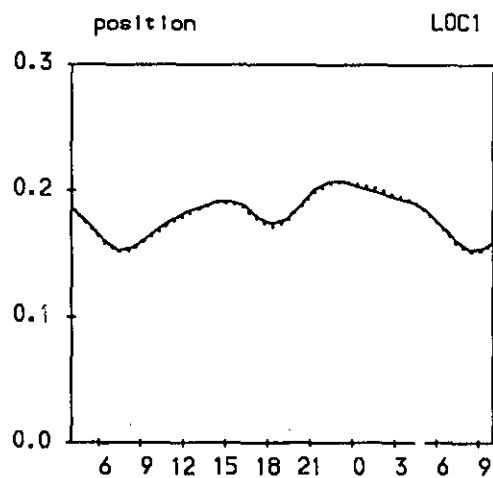
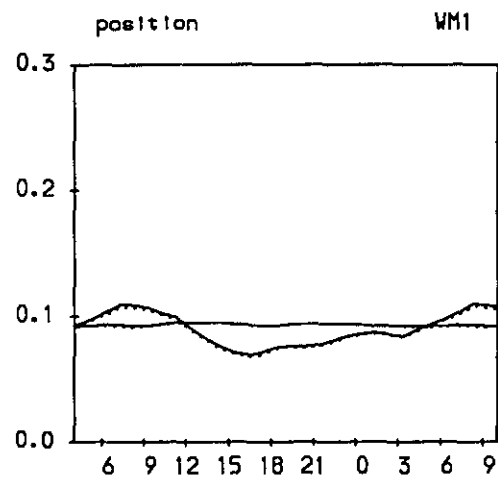
Oxidised Nitrogen (mg N/L) against time

2 Layer, 100m grid 29 Nov 1993

— Scen. 1

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Wet Neap Scenario 1 (Case 3)

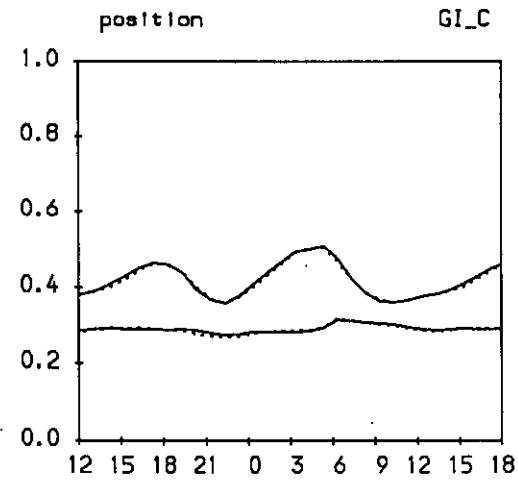
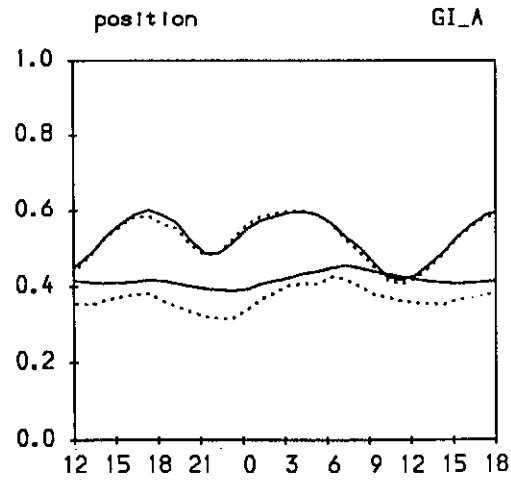
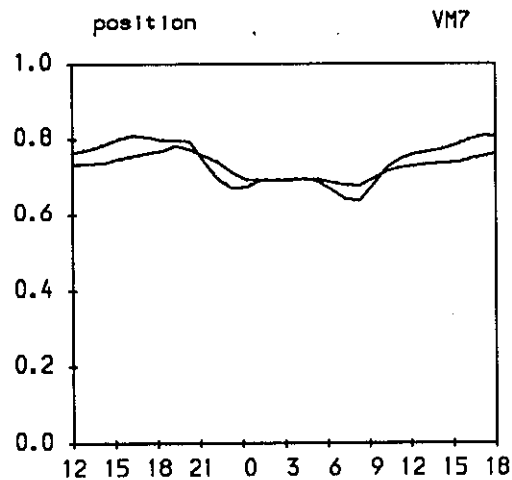
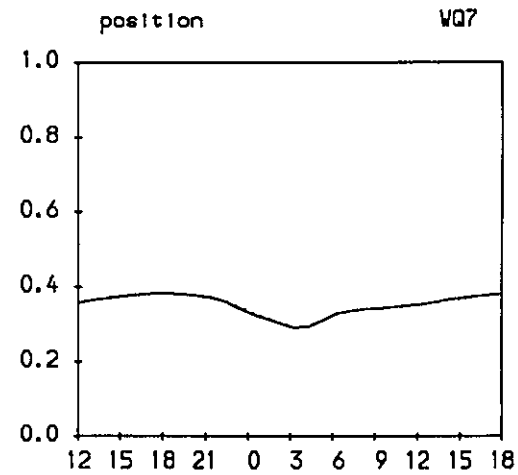
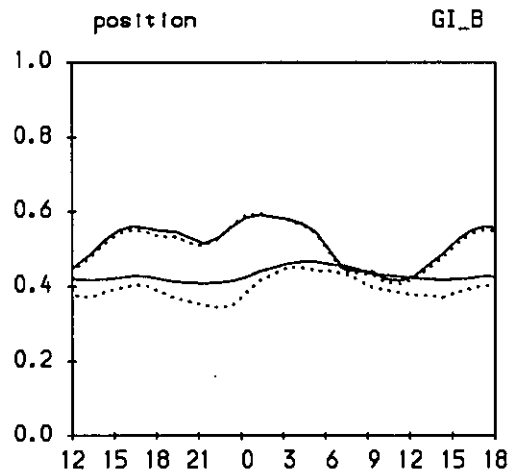
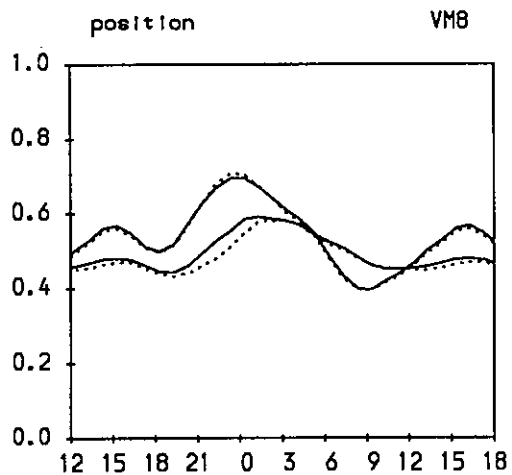
Organic Nitrogen (mg N/L) against time

2 Layer, 100m grid 29 Nov 1993.

— Scen. 1

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Wet Neap Scenario 1 (Case 3)

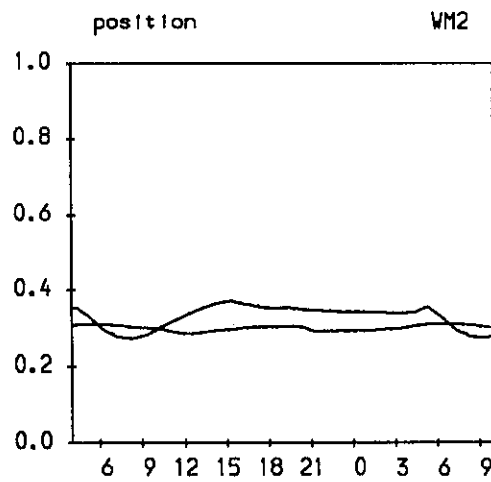
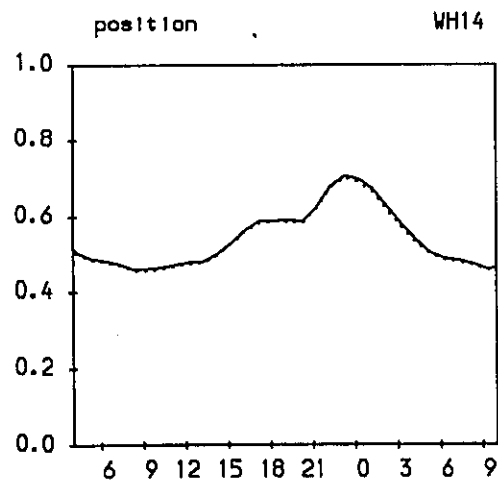
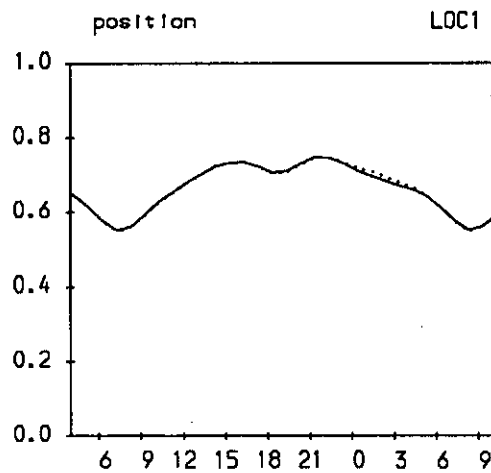
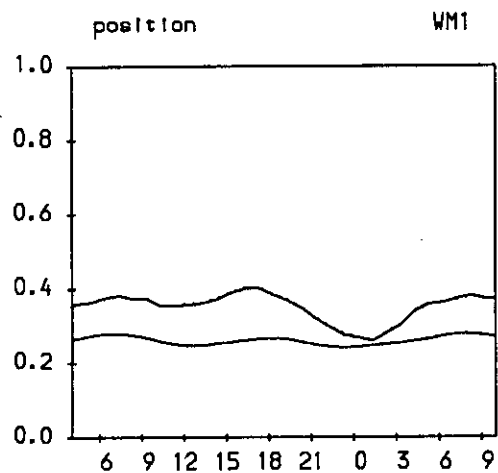
Organic Nitrogen (mg N/L) against time

2 Layer, 100m grid 29 Nov 1993

— Scen. 1

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Wet Neap Scenario 1 (Case 3)

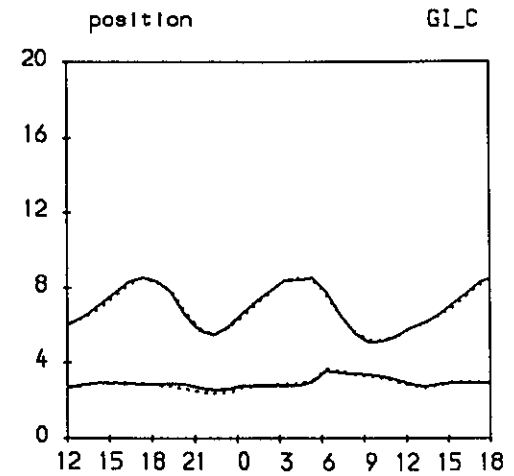
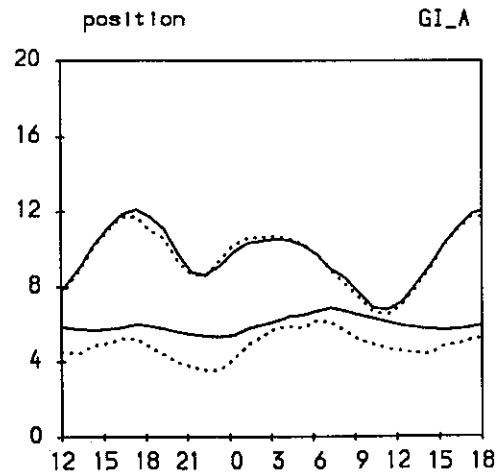
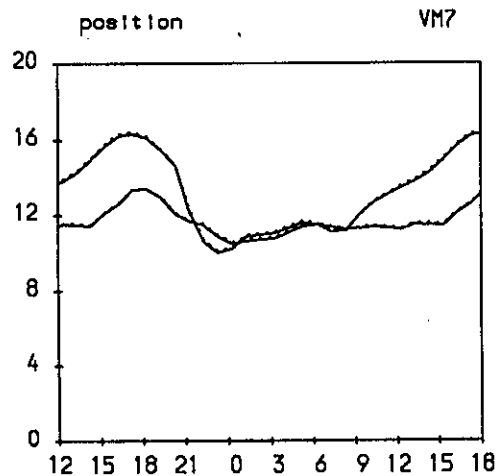
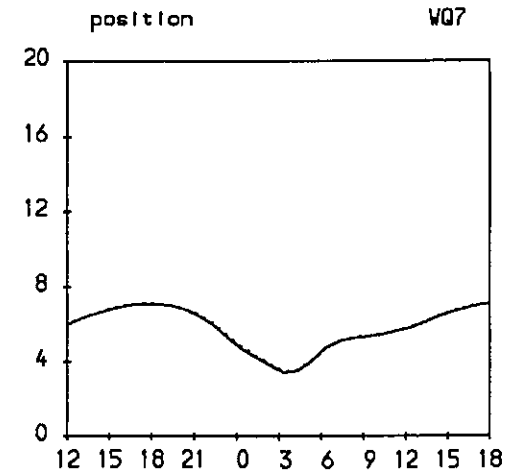
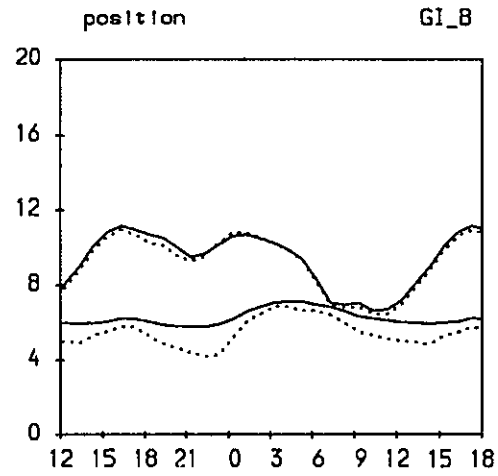
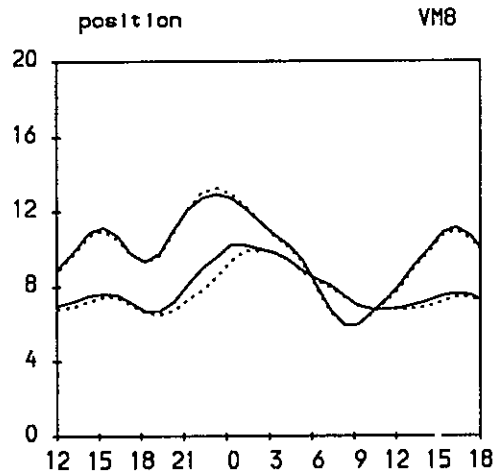
Chlorophyll (ug/l) against time

2 Layer, 100m grid 29 Nov 1993

— Scen. 1

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Wet Neap Scenario 1 (Case 3)

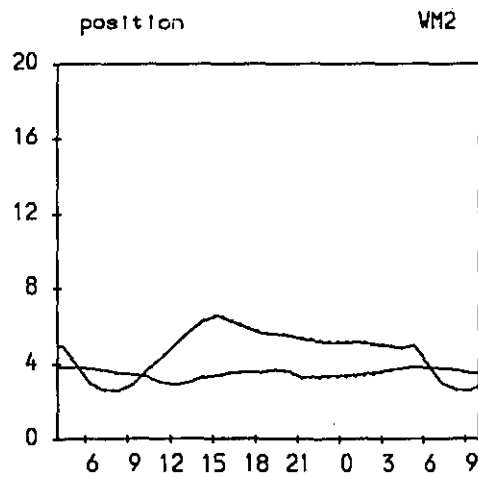
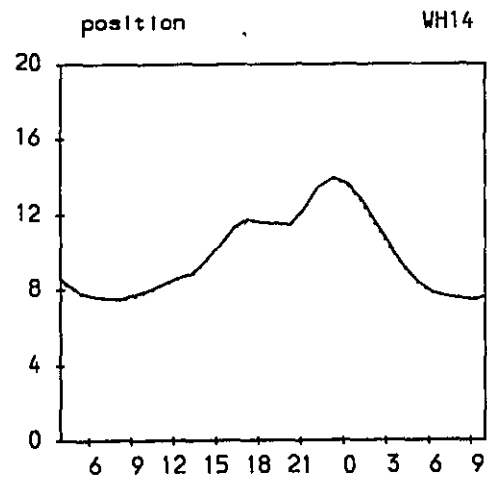
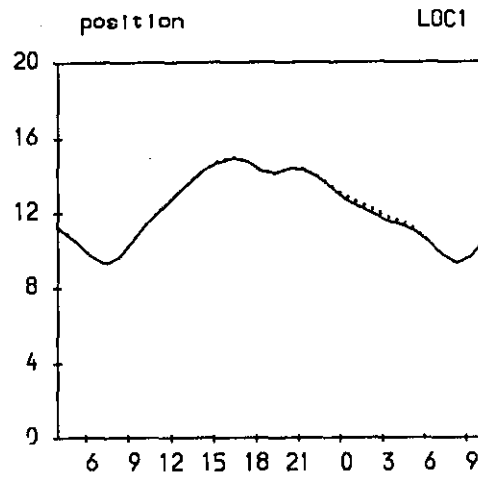
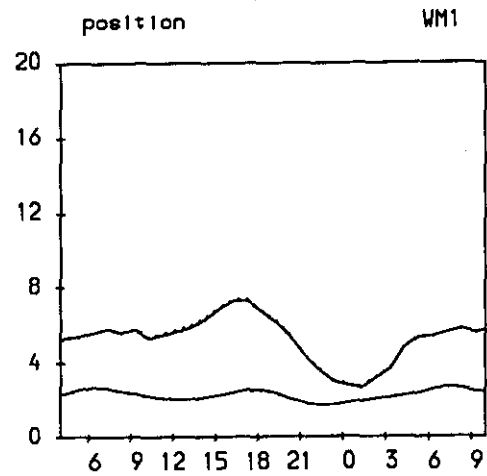
Chlorophyll (ug/L) against time

2 Layer, 100m grid 29 Nov 1993

— Scen. 1

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Wet Neap Scenario 1 (Case 3)

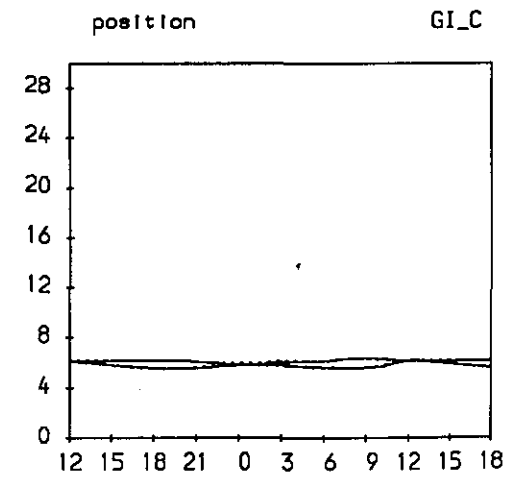
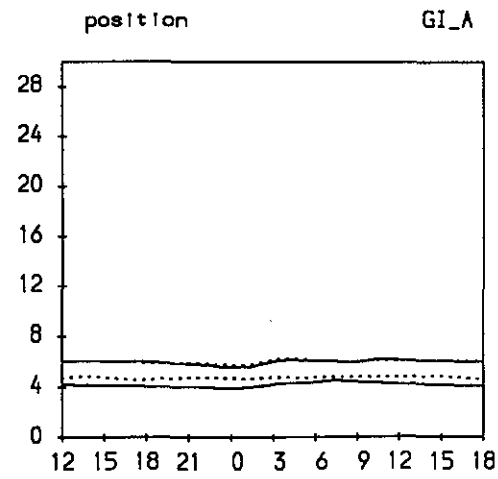
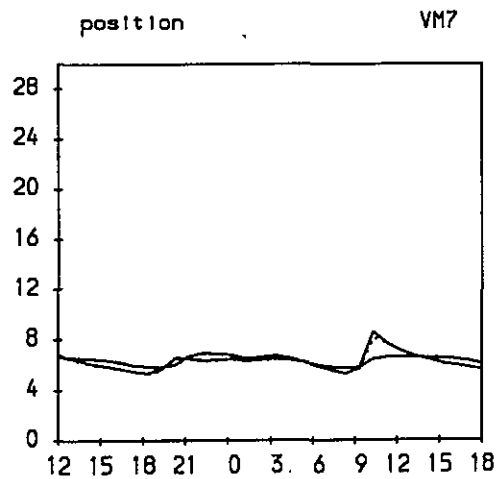
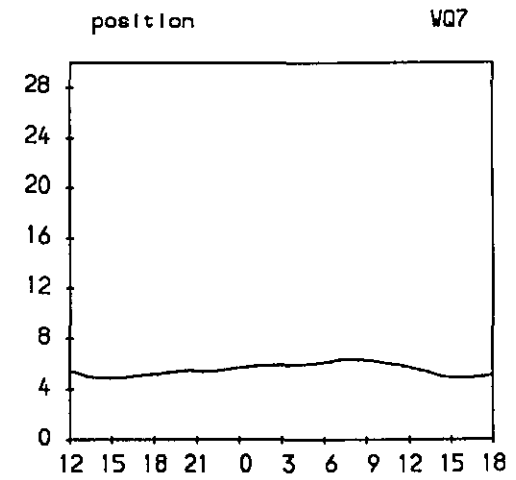
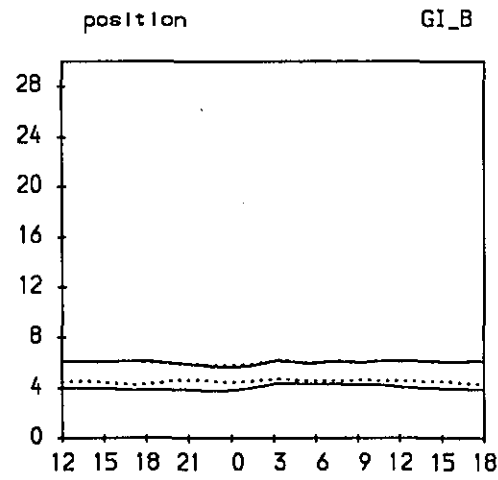
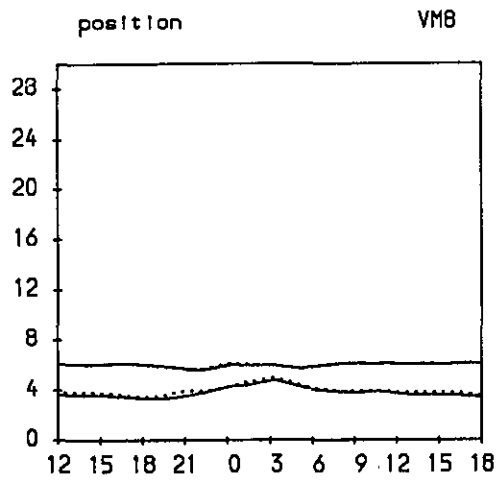
Suspended Solids (mg/L) against time

2 Layer, 100m grid 29 Nov 1993

— Scen. 1

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Wet Neap Scenario 1 (Case 3)

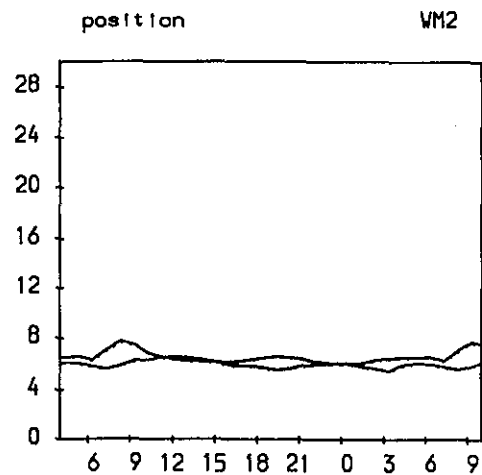
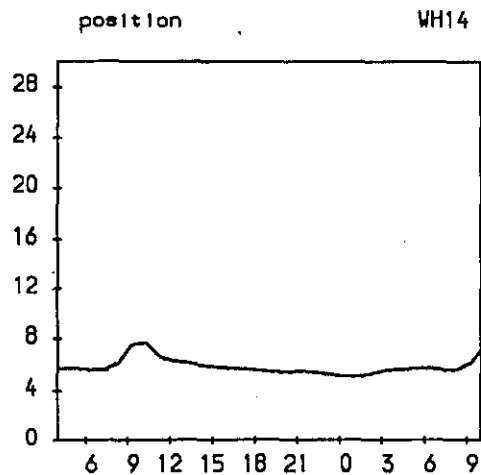
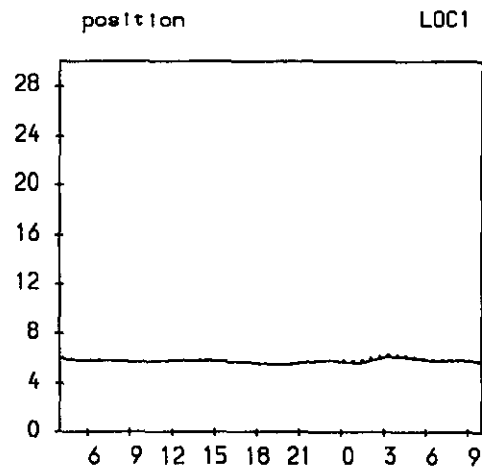
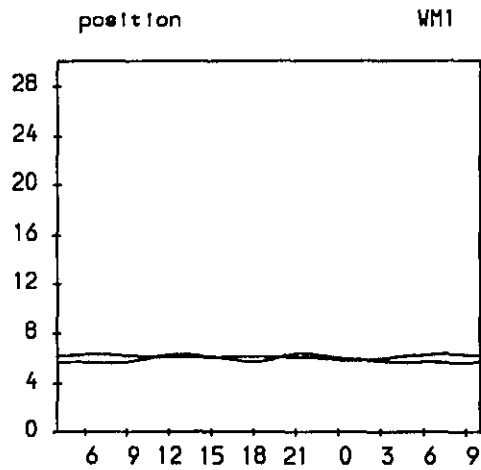
Suspended Solids (mg/L) against time

2 Layer, 100m grid 29 Nov 1993

— Scen. 1

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Wet Neap Scenario 1 (Case 3)

E.Coli (no/100ml) against time

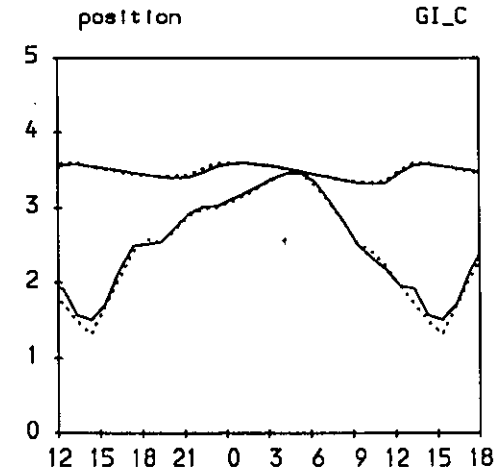
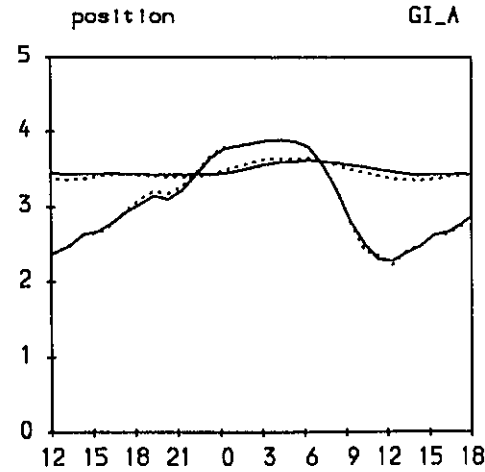
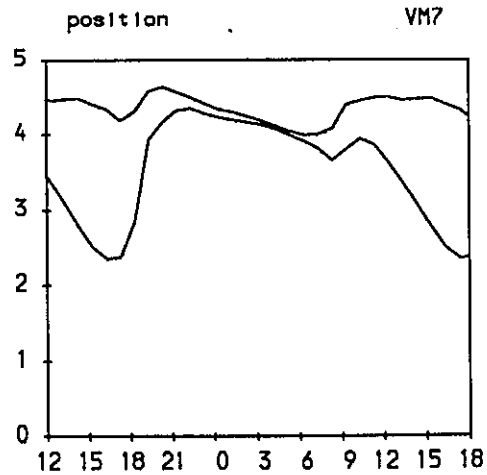
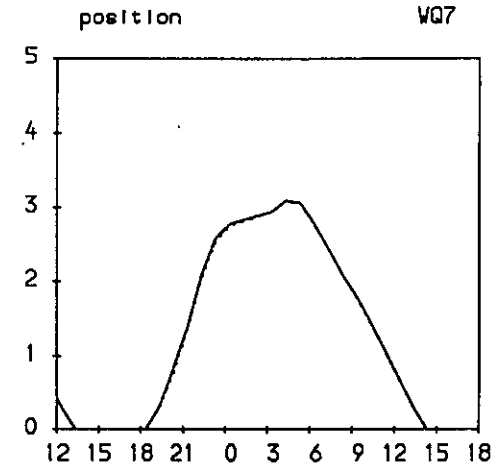
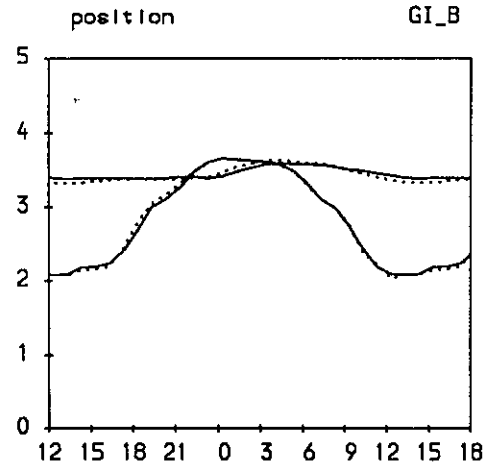
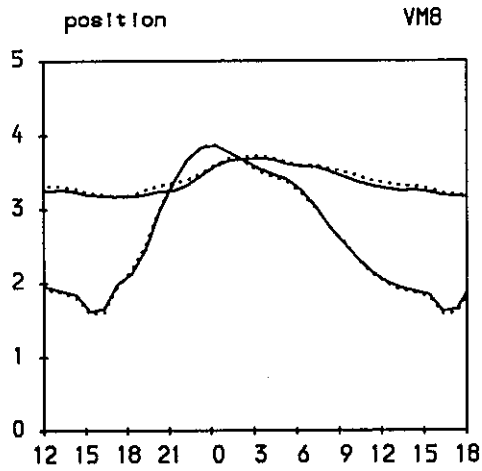
(log to base 10 on y-axis)

2 Layer, 100m grid 29 Nov 1993

— Scen. 1

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Wet Neap Scenario 1 (Case 3)

E.Coli (no/100ml) against time

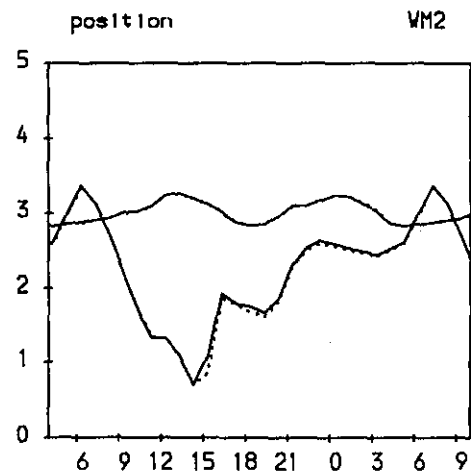
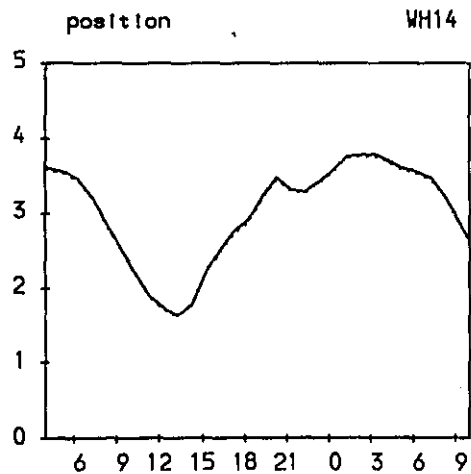
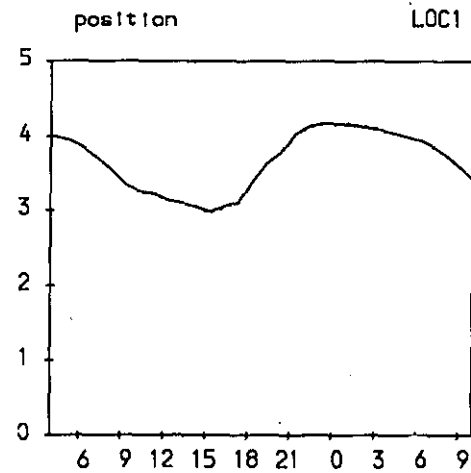
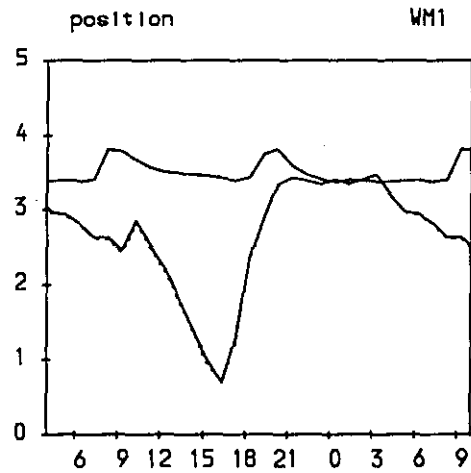
(log to base 10 on y-axis)

2 Layer, 100m grid 29 Nov 1993

— Scen. 1

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Wet Neap Scenario 1 (Case 3)

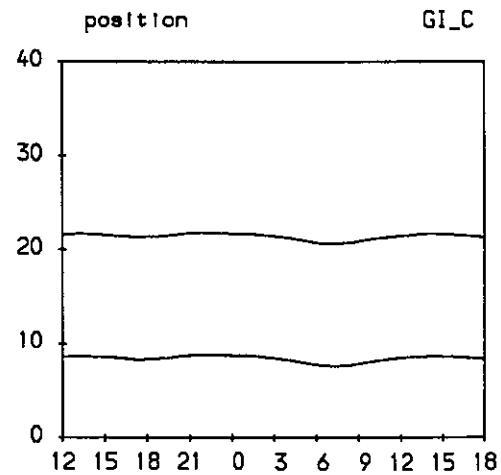
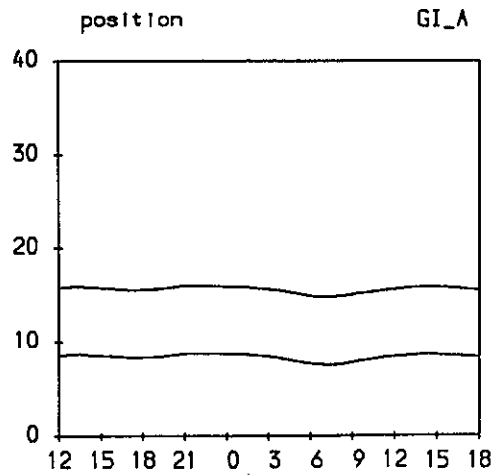
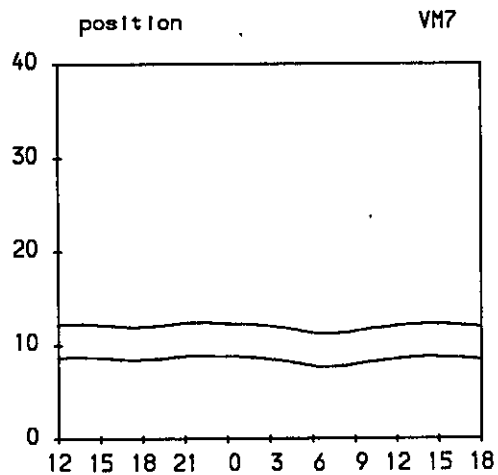
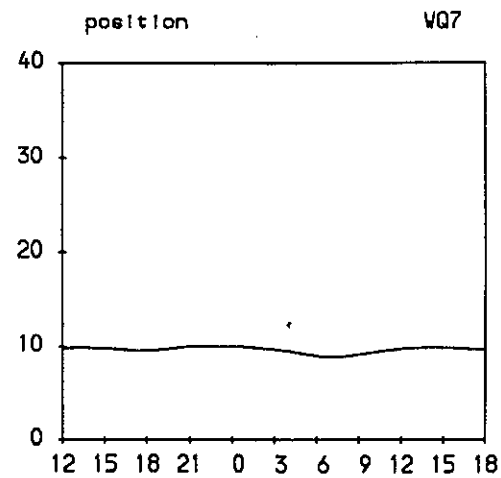
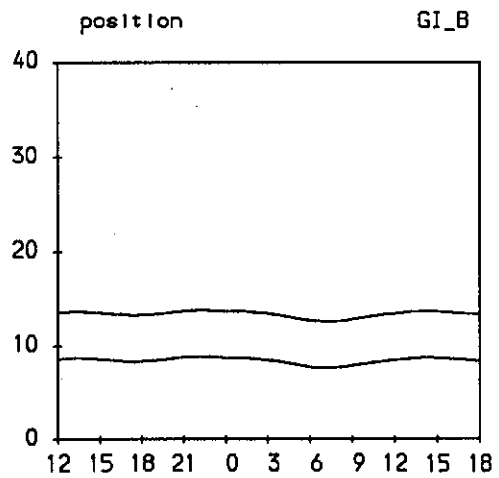
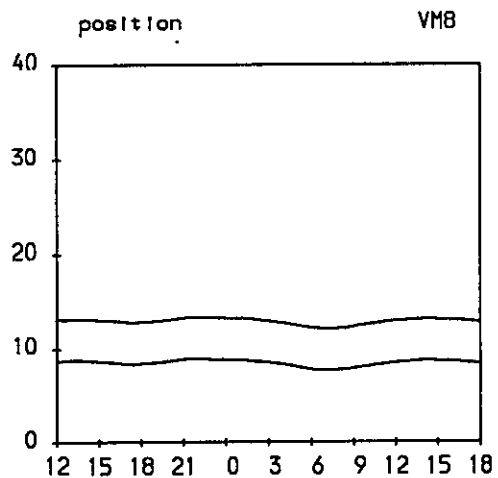
Layer Depth (metres) against time

2 Layer, 100m grid 29 Nov 1993

— Scen. 1

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Wet Neap Scenario 1 (Case 3)

Layer Depth (metres) against time

2 Layer, 100m grid 29 Nov 1993

—— Scen. 1

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer

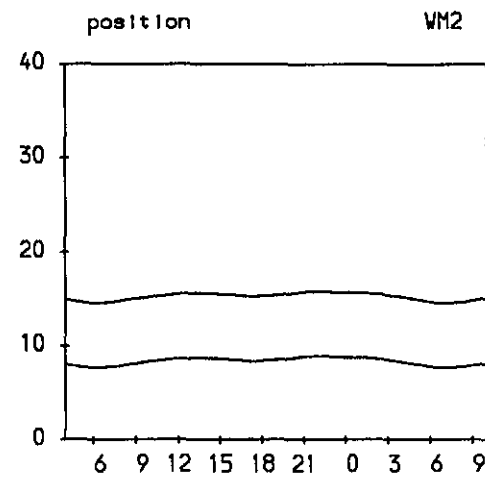
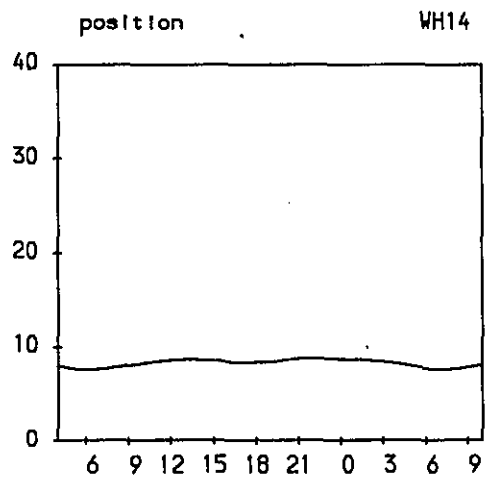
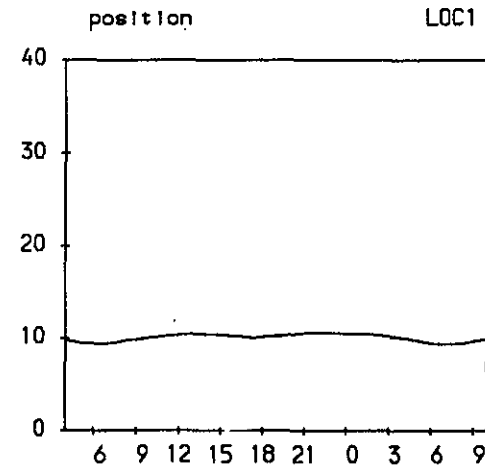
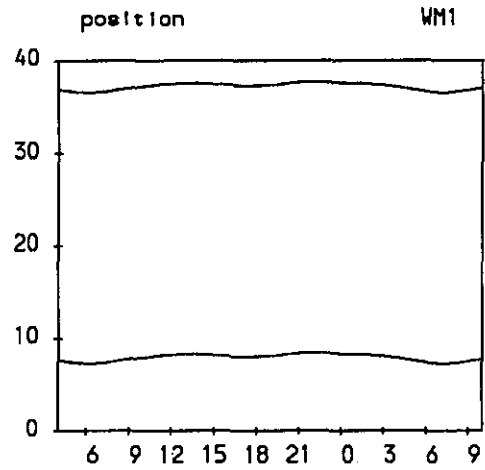


FIGURE 10

CASE 3 (1ST SCENARIO) : WET SEASON SPRING TIDE

Green Island Wet Spring Scenario 1 (Case 3)

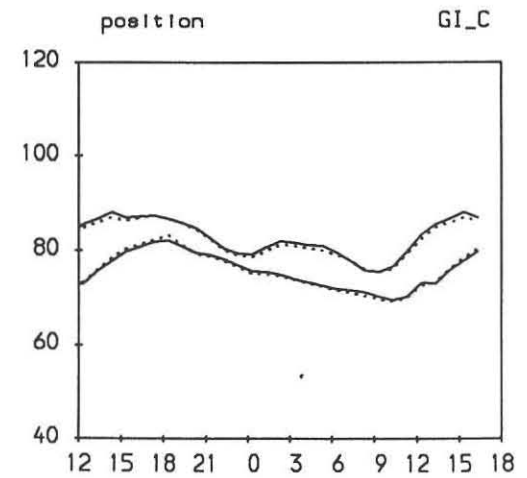
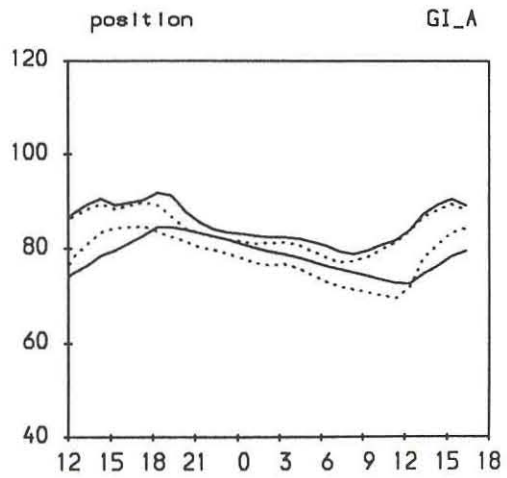
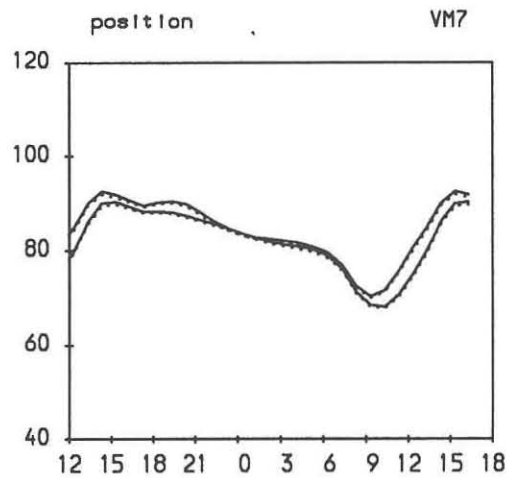
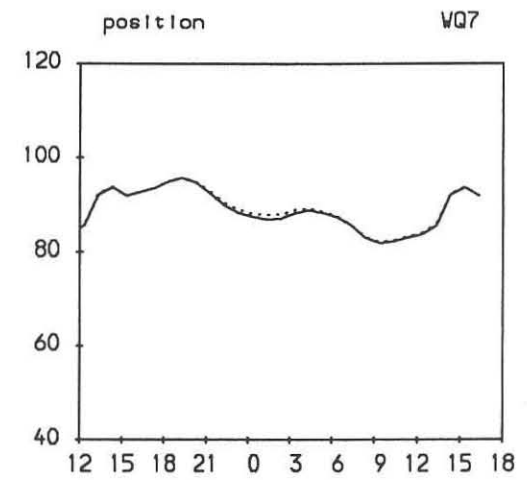
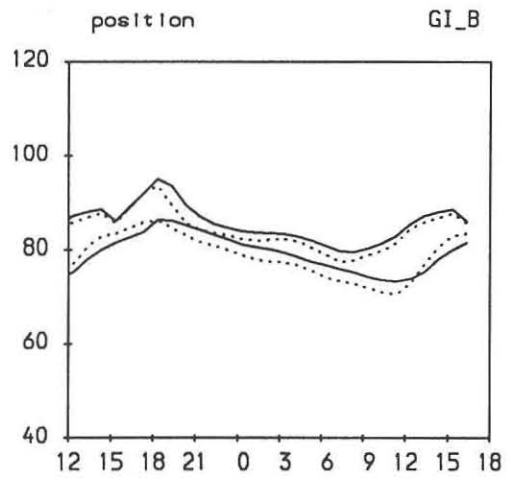
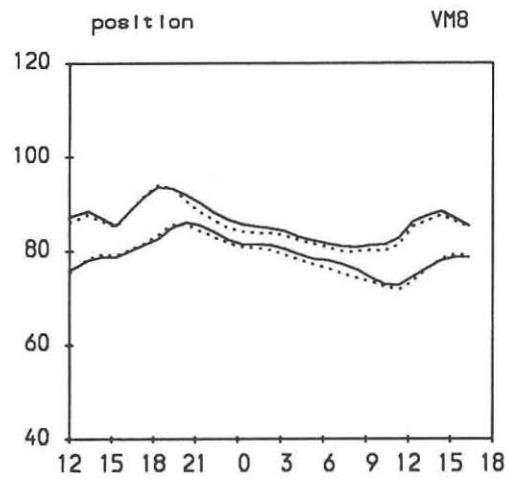
Dissolved Oxygen (% saturation) against time

2 Layer, 100m grid 29 Nov 1993

— Scen. 1

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Wet Spring Scenario 1 (Case 3)

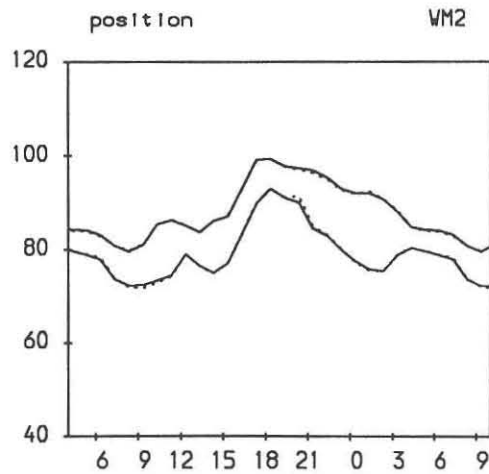
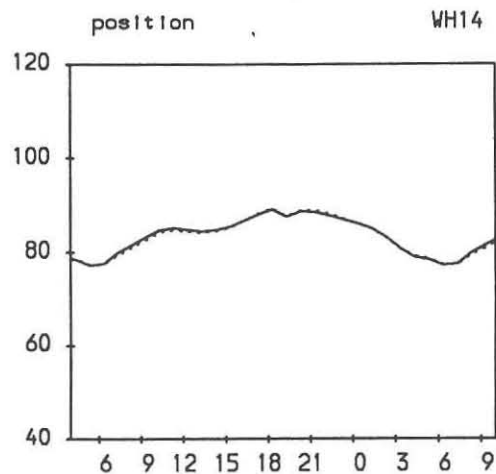
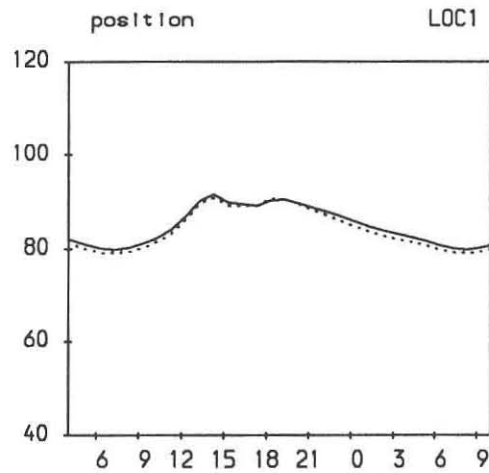
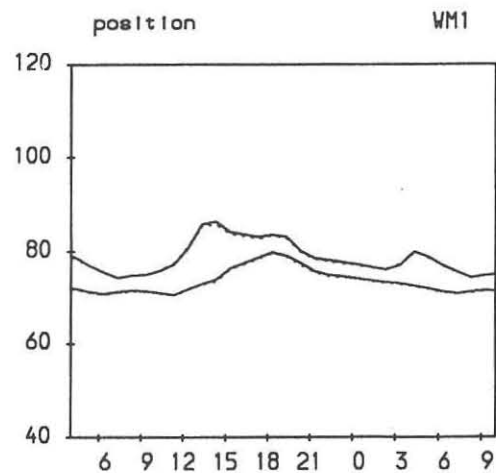
Dissolved Oxygen (% saturation) against time

2 Layer, 100m grid 29 Nov 1993

— Scen. 1

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Wet Spring Scenario 1 (Case 3)

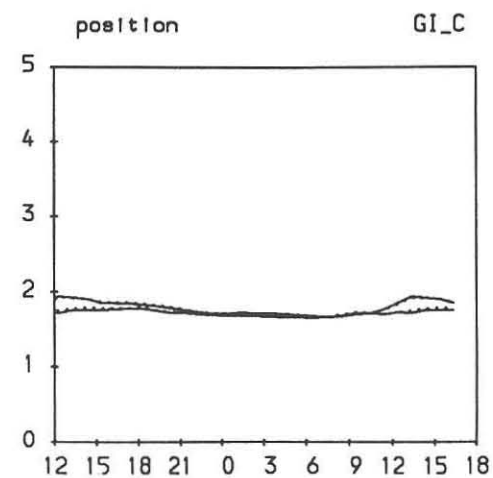
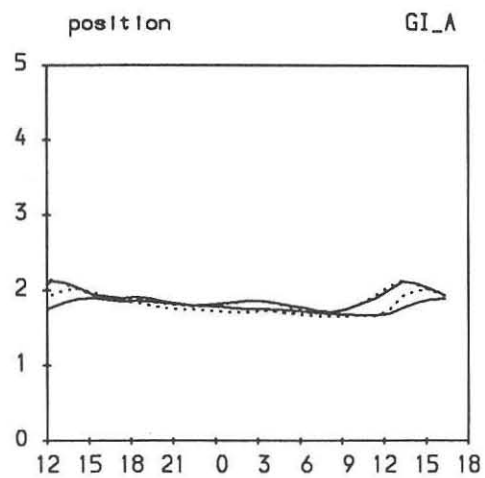
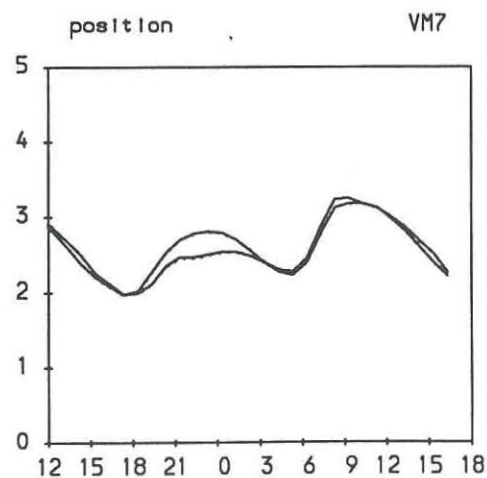
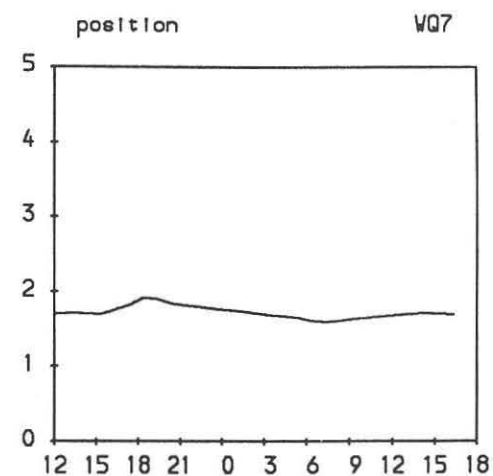
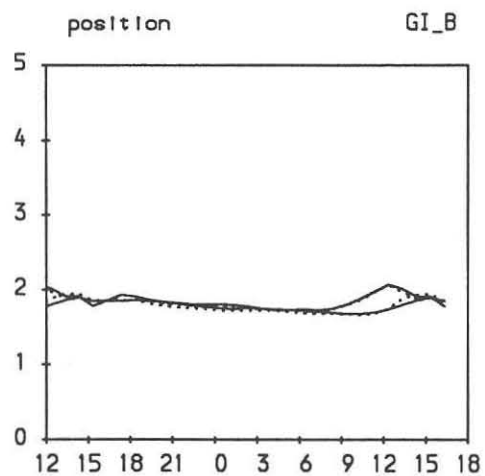
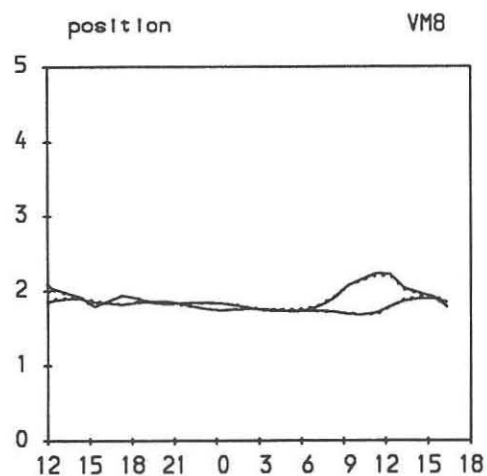
BOD (mg/L) against time

2 Layer, 100m grid 29 Nov 1993

— Scen. 1

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Wet Spring Scenario 1 (Case 3)

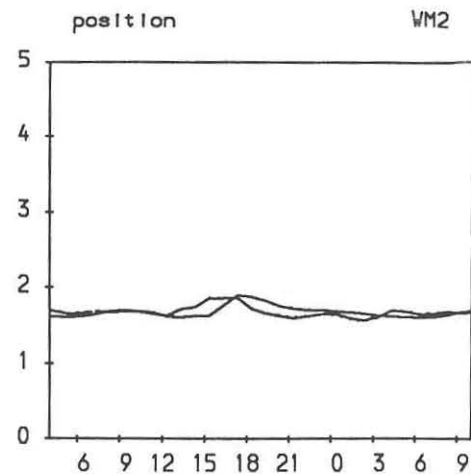
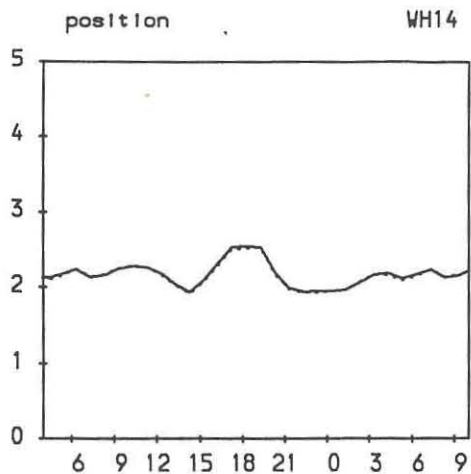
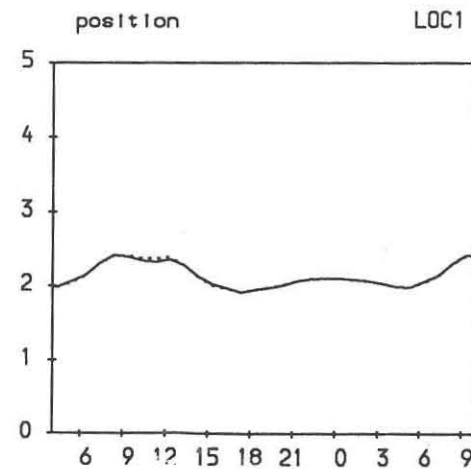
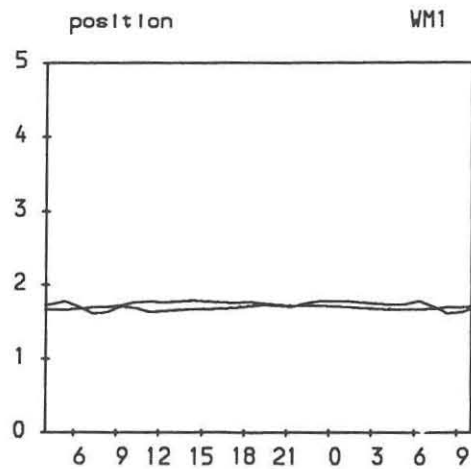
BOD (mg/L) against time

2 Layer, 100m grid 29 Nov 1993

—— Scen. 1

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Wet Spring Scenario 1 (Case 3)

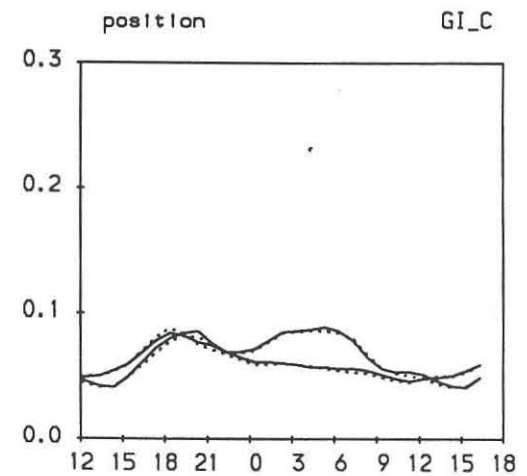
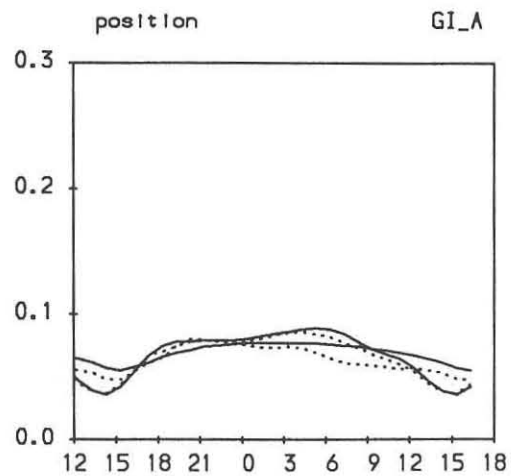
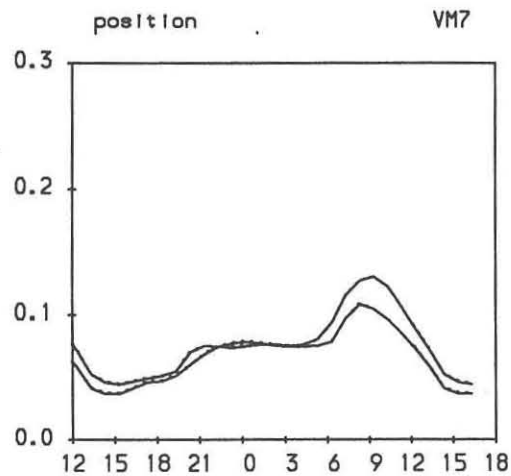
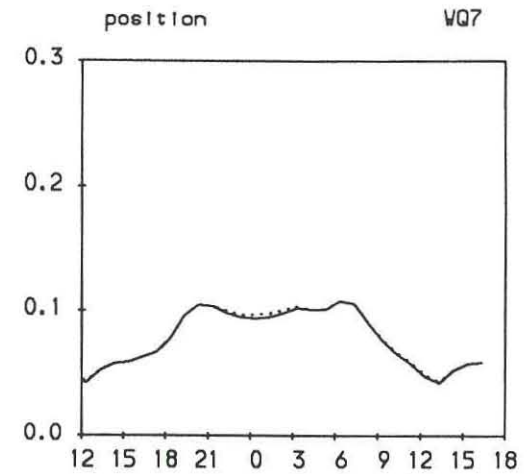
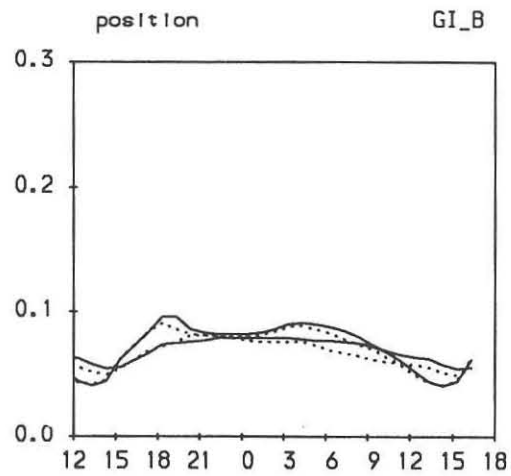
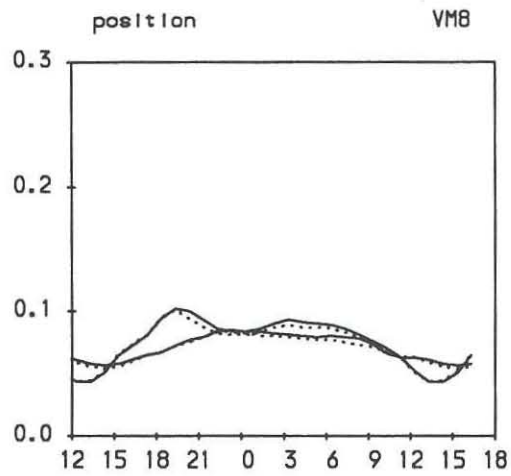
Ammoniacal Nitrogen (mg N/l) against time

2 Layer, 100m grid 29 Nov 1993

— Scen. 1

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Wet Spring Scenario 1 (Case 3)

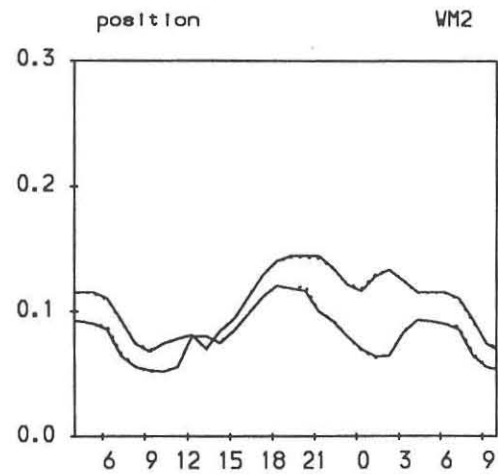
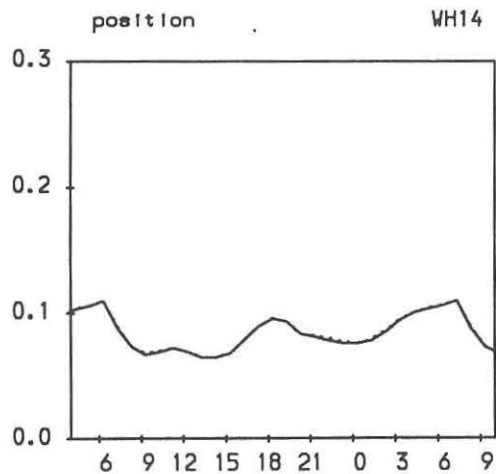
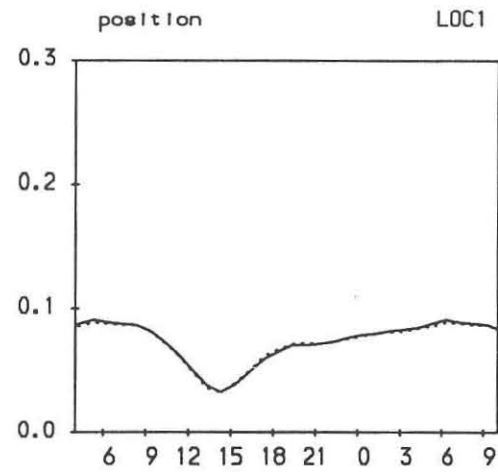
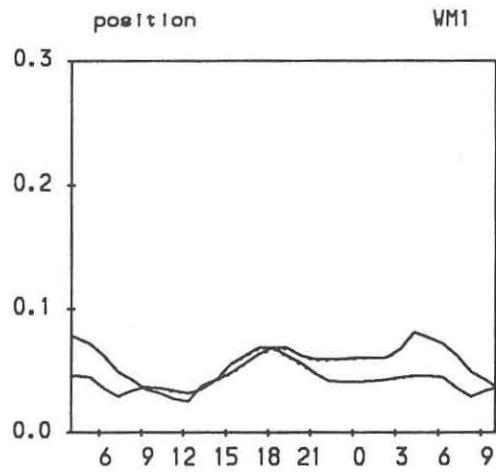
Ammoniacal Nitrogen (mg N/L) against time

2 Layer, 100m grid 29 Nov 1993

— Scen. 1

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Wet Spring Scenario 1 (Case 3)

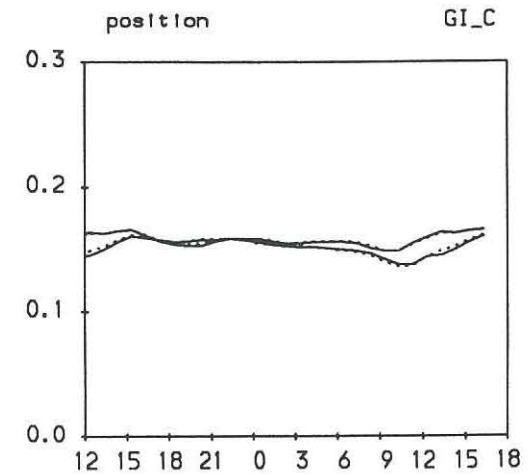
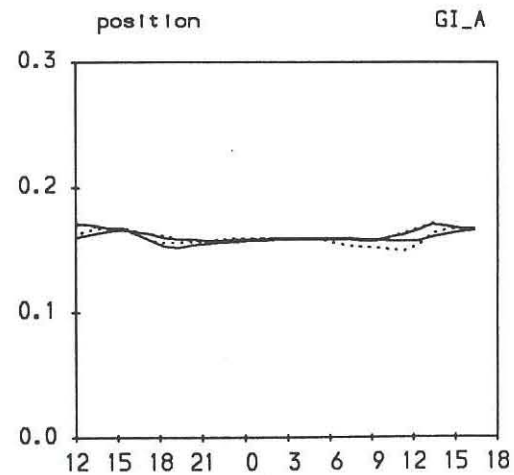
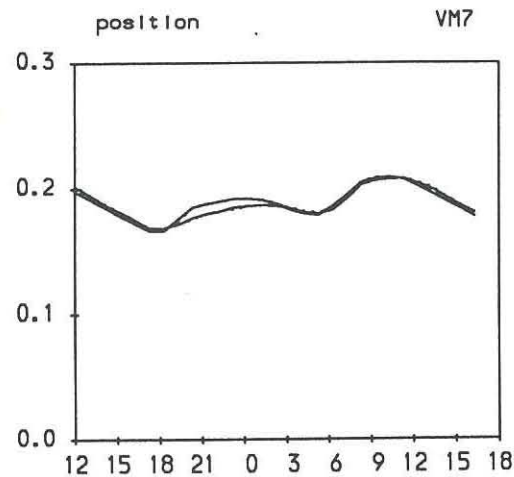
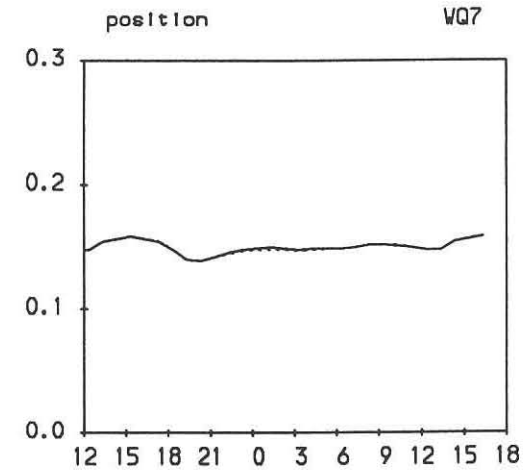
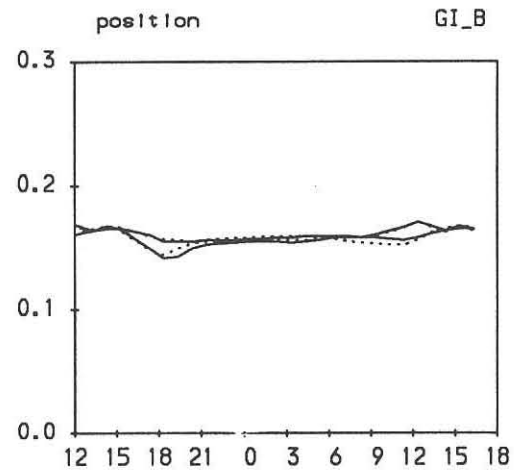
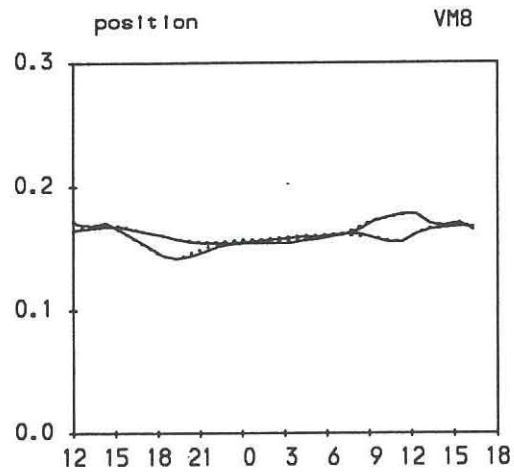
Oxidised Nitrogen (mg N/L) against time

2 Layer, 100m grid 29 Nov 1993

— Scen. 1

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Wet Spring Scenario 1 (Case 3)

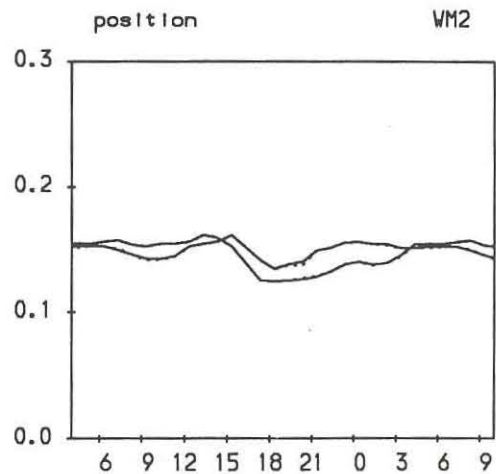
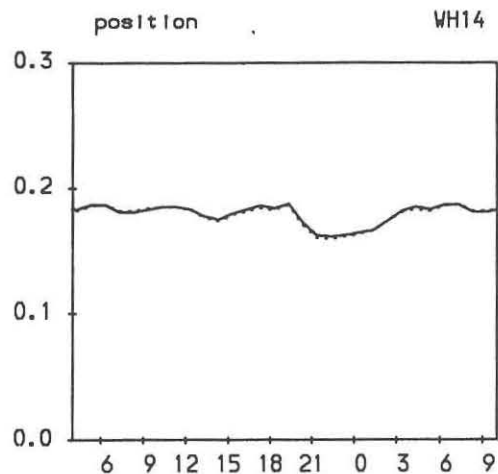
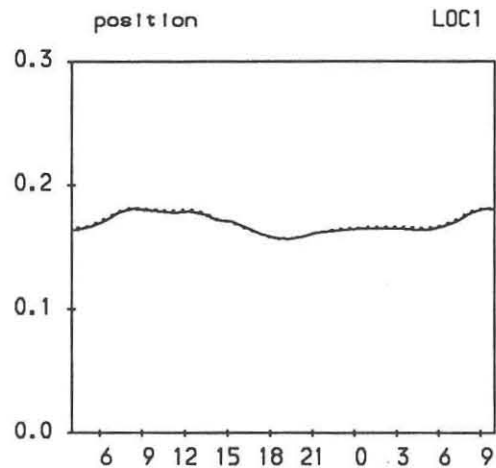
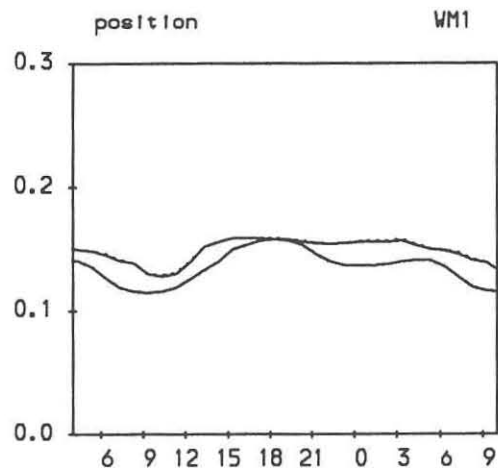
Oxidised Nitrogen (mg N/l) against time

2 Layer, 100m grid 29 Nov 1993

— Scen. 1

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Wet Spring Scenario 1 (Case 3)

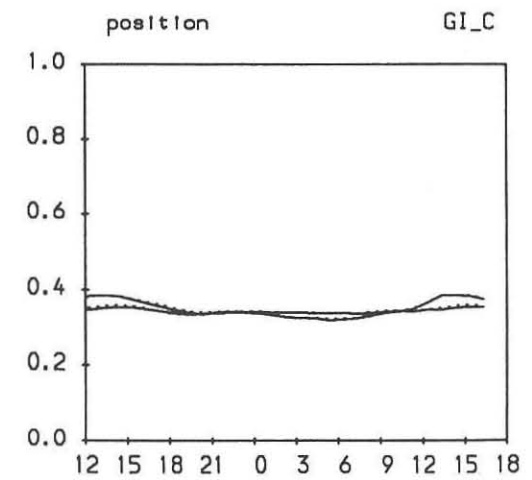
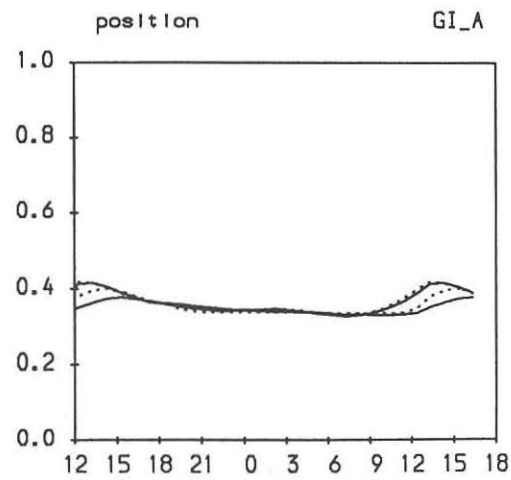
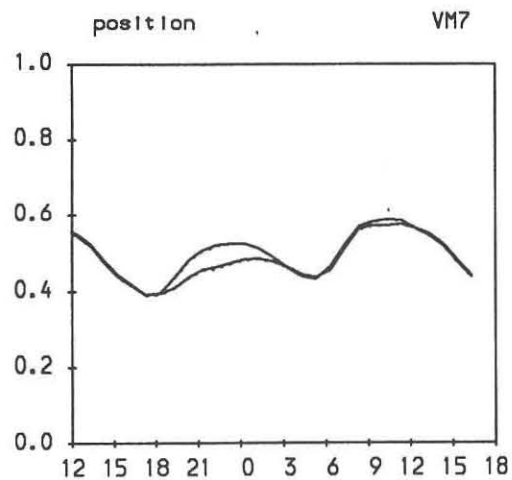
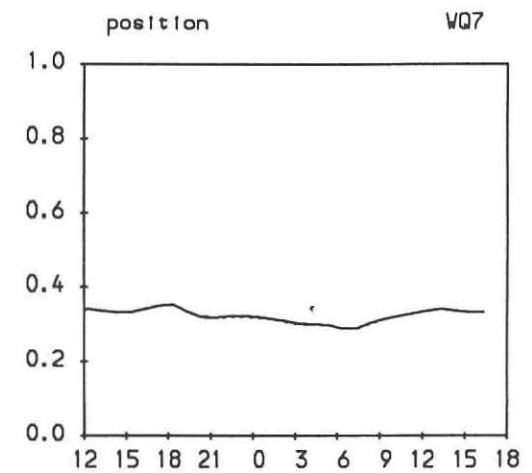
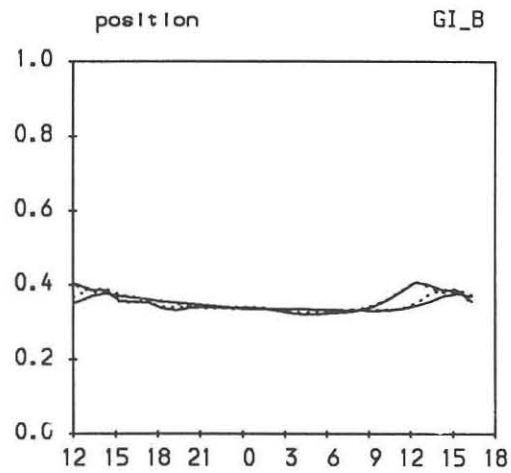
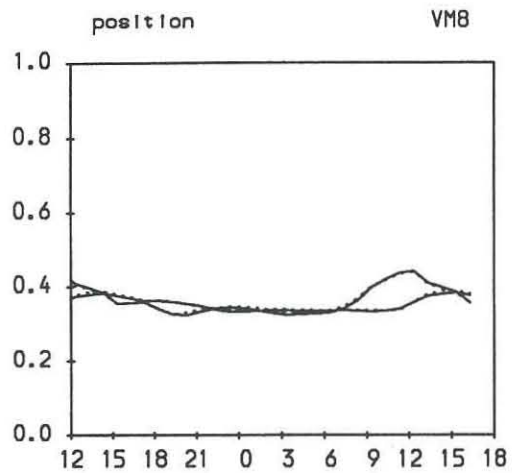
Organic Nitrogen (mg N/L) against time

2 Layer, 100m grid 29 Nov 1993

— Scen. 1

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Wet Spring Scenario 1 (Case 3)

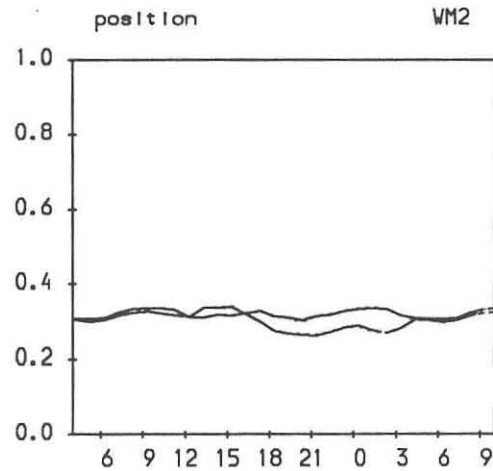
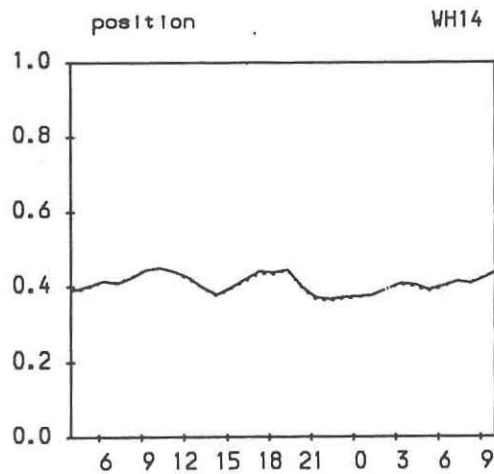
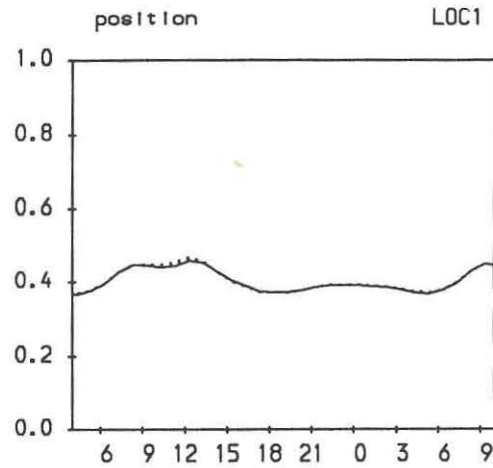
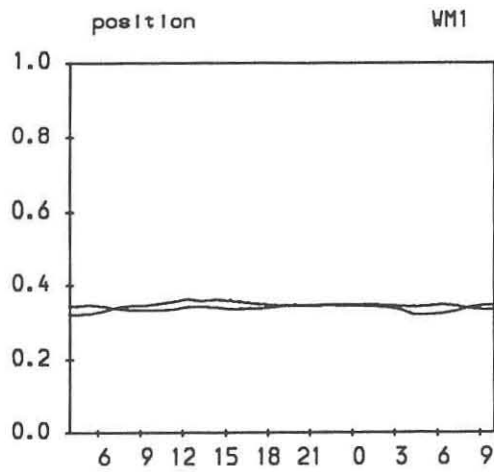
Organic Nitrogen (mg N/L) against time

2 Layer, 100m grid 29 Nov 1993

— Scen. 1

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Wet Spring Scenario 1 (Case 3)

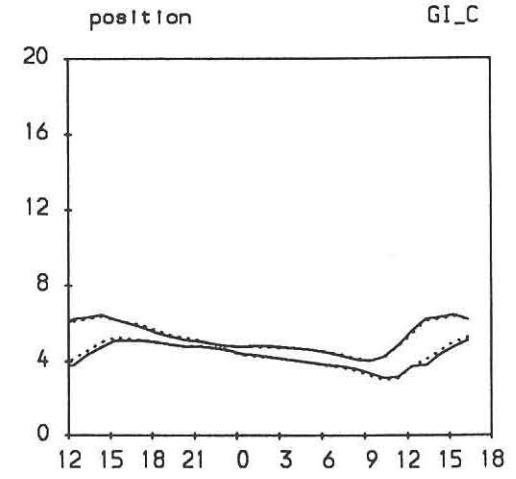
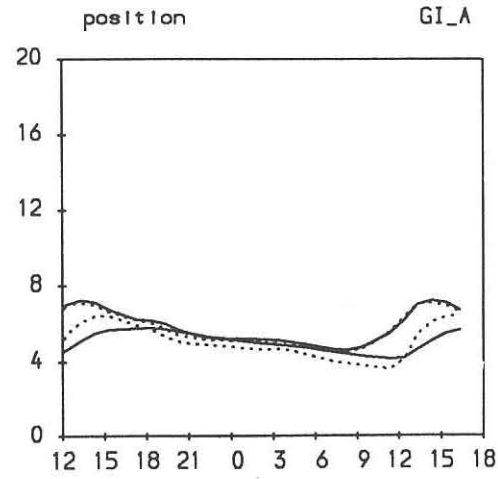
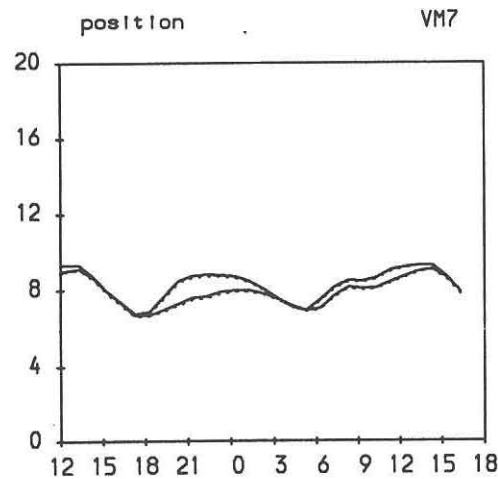
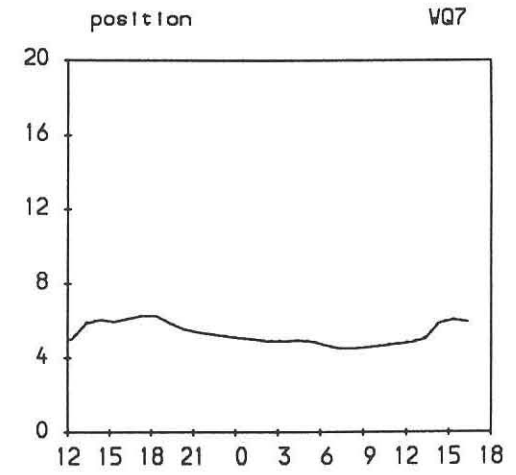
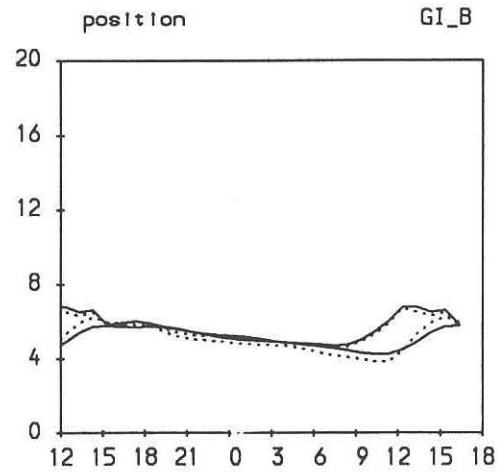
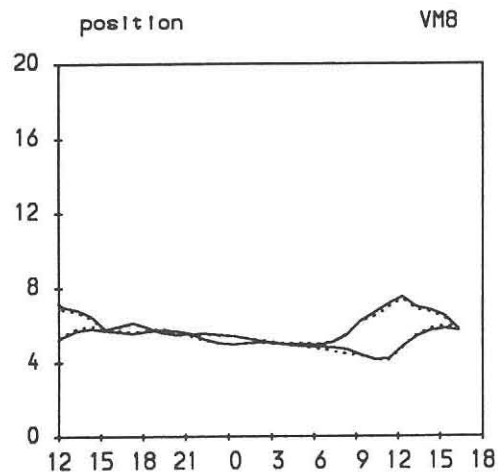
Chlorophyll (ug/L) against time

2 Layer, 100m grid 29 Nov 1993

— Scen. 1

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Wet Spring Scenario 1 (Case 3)

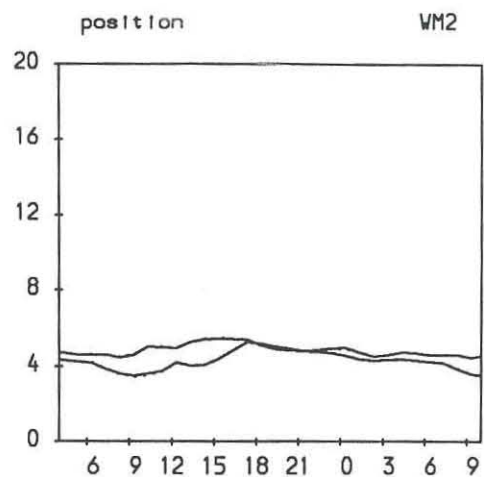
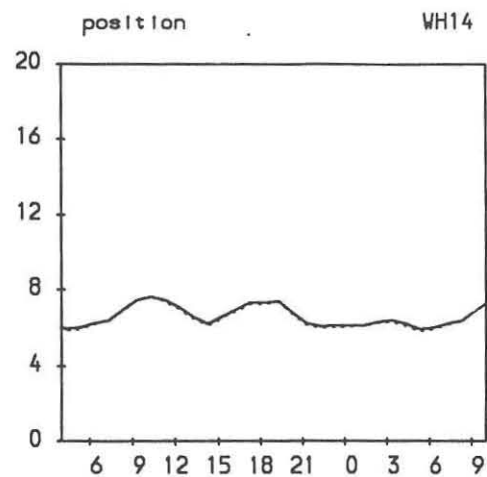
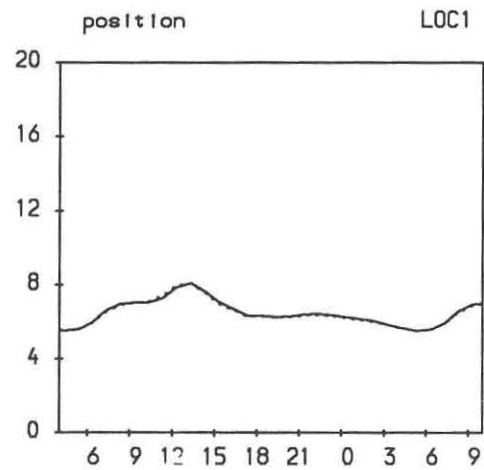
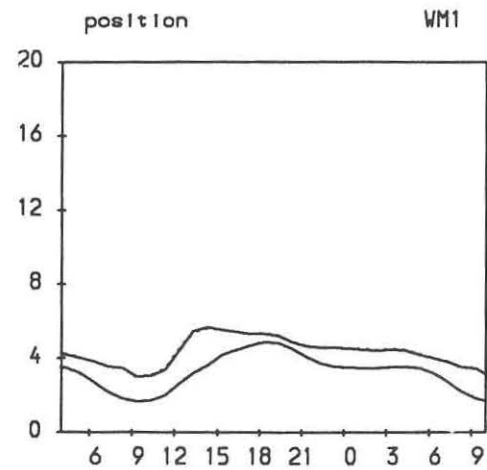
Chlorophyll (ug/l) against time

2 Layer, 100m grid 29 Nov 1993

— Scen. 1

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Wet Spring Scenario 1 (Case 3)

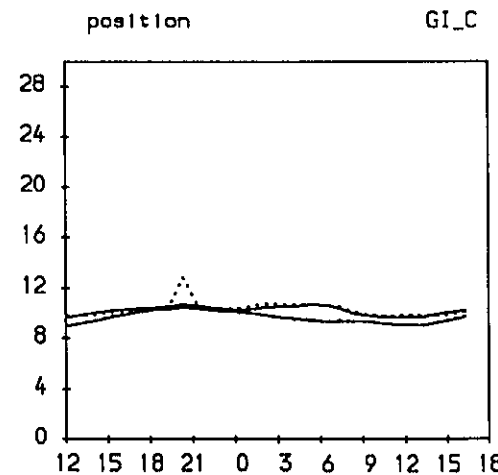
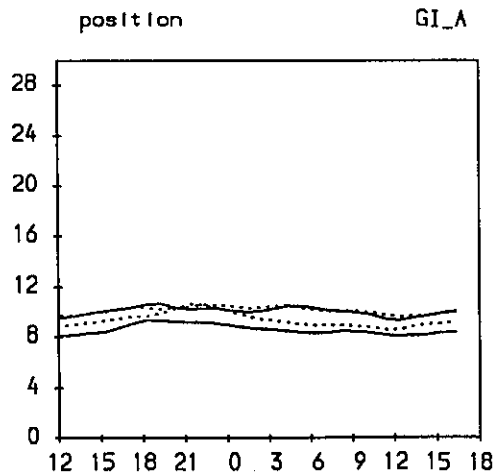
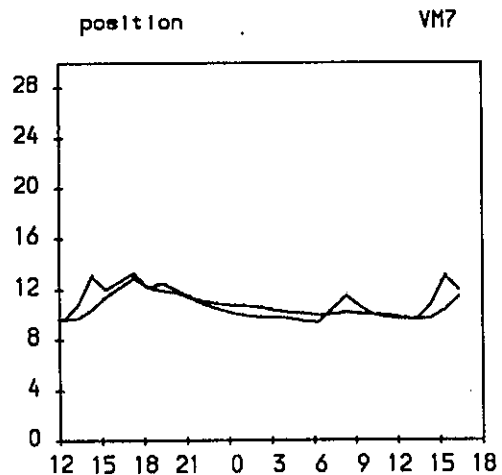
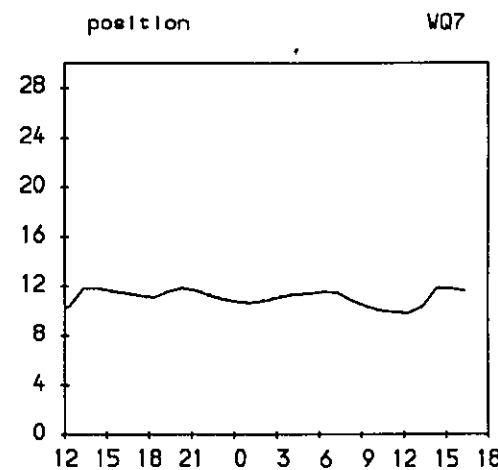
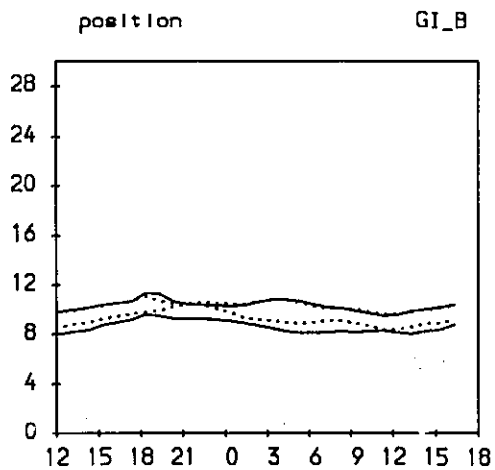
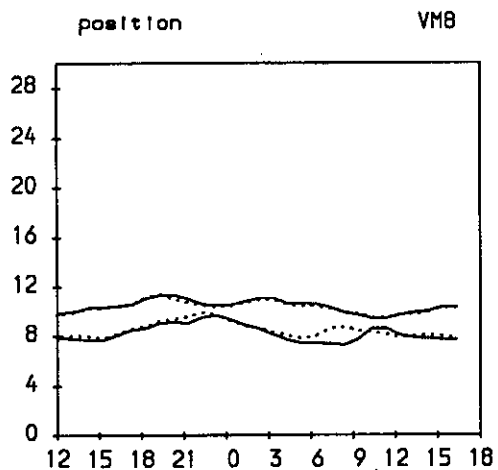
Suspended Solids (mg/L) against time

2 Layer, 100m grid 29 Nov 1993

— Scen. 1

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Wet Spring Scenario 1 (Case 3)

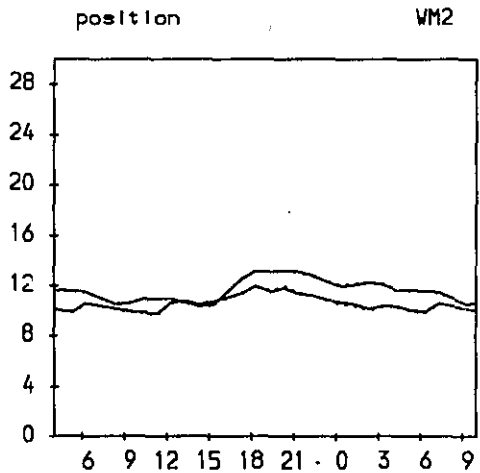
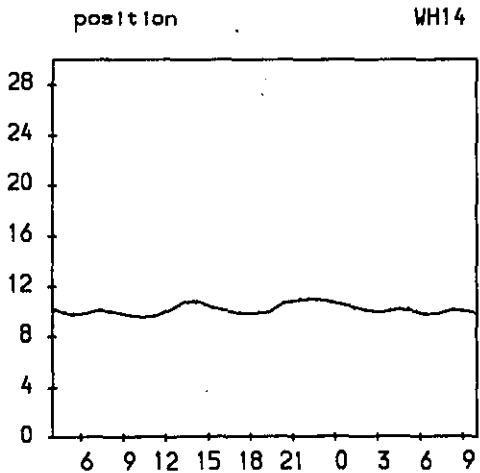
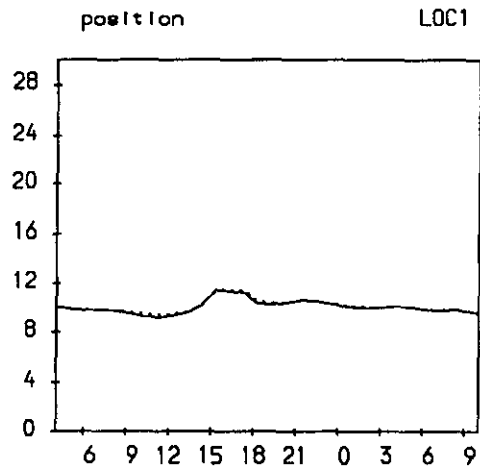
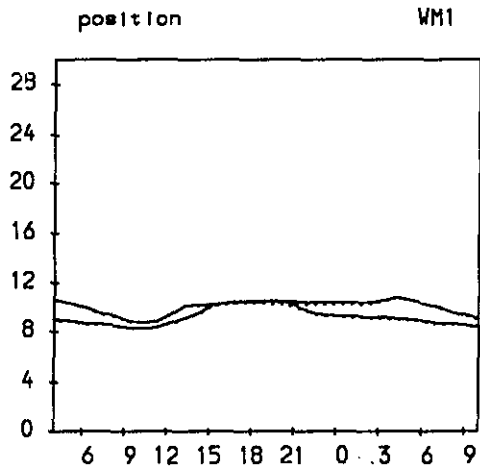
Suspended Solids (mg/L) against time

2 Layer, 100m grid 29 Nov 1993

— Scen. 1

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Wet Spring Scenario 1 (Case 3)

E.Coli (no/100ml) against time

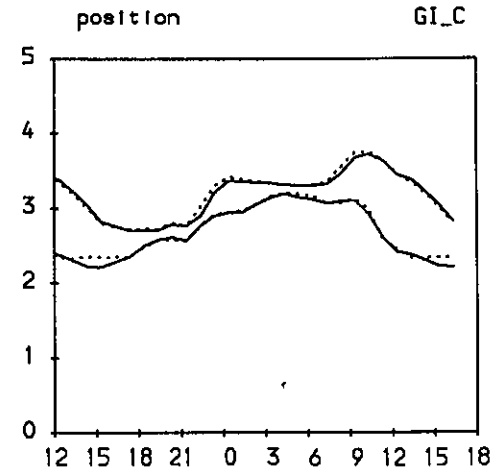
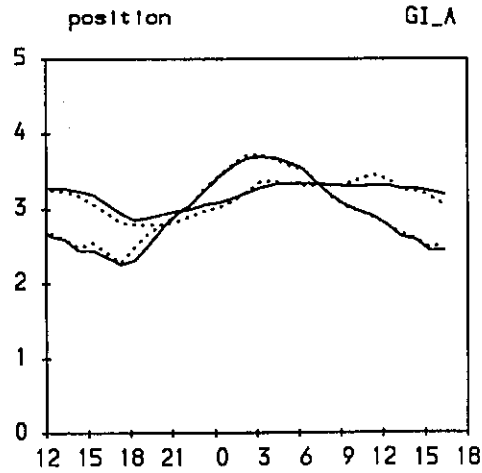
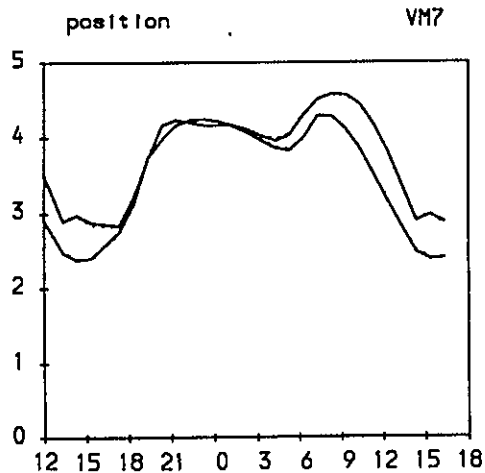
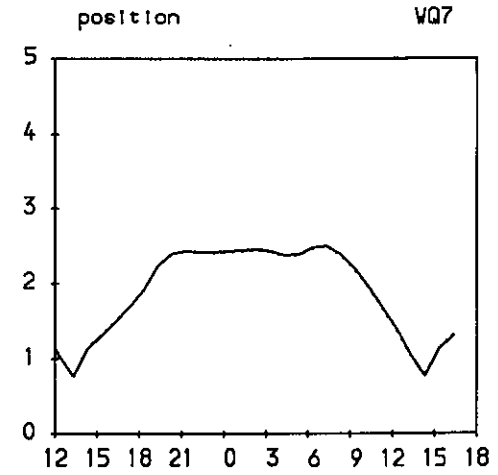
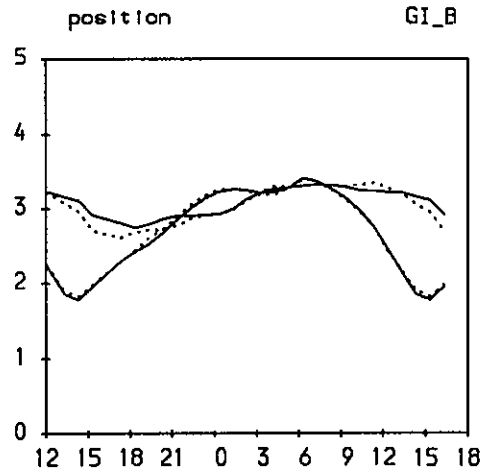
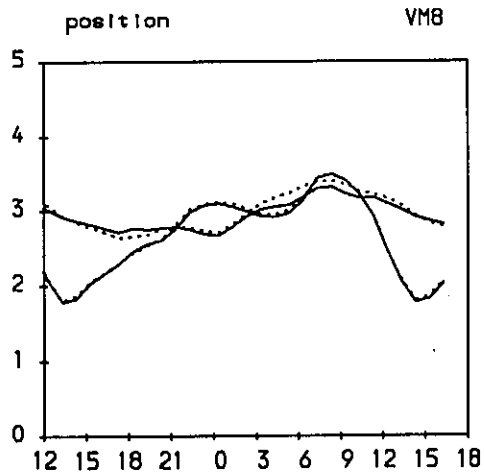
(log to base 10 on y-axis)

2 Layer, 100m grid 29 Nov 1993

— Scen. 1

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer

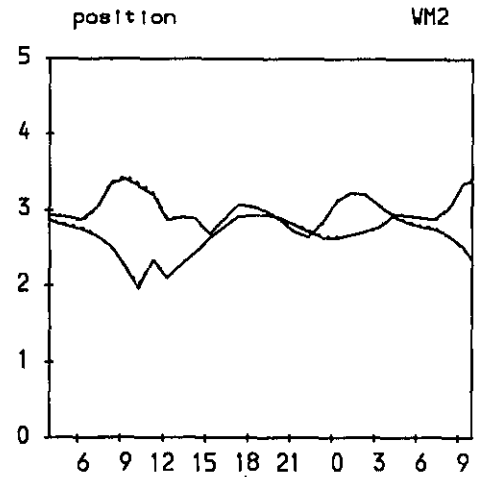
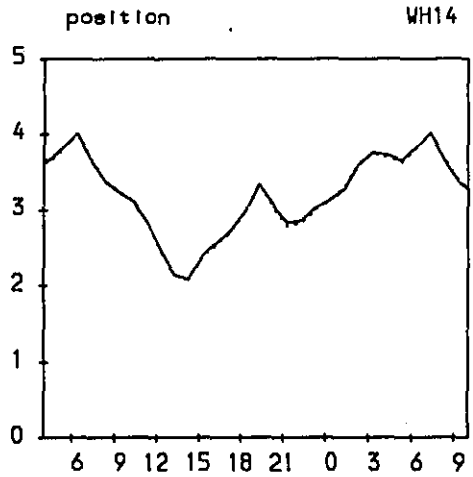
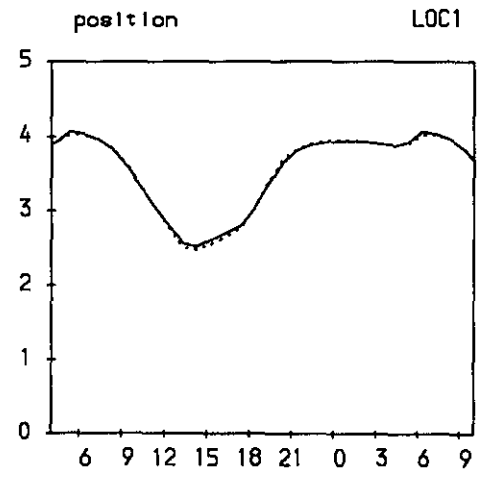
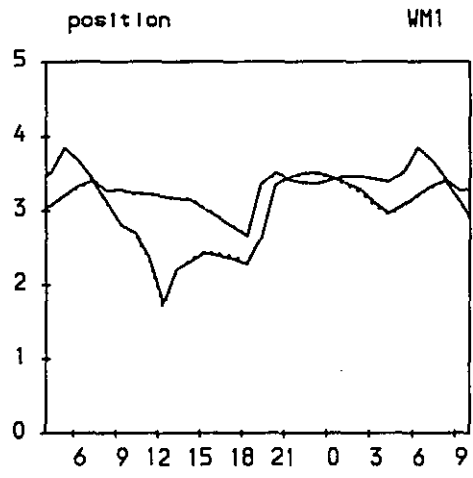


Green Island Wet Spring Scenario 1 (Case 3)

E.Coli (no/100ml) against time (log to base 10 on y-axis)

2 Layer, 100m grid 29 Nov 1993 — Scen. 1 Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Wet Spring Scenario 1 (Case 3)

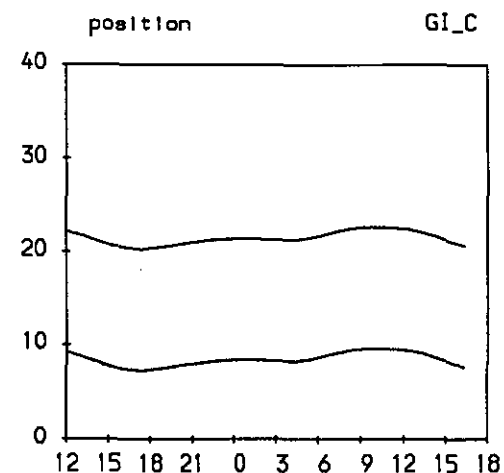
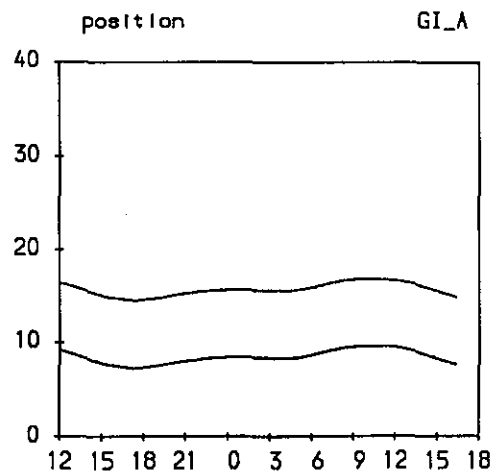
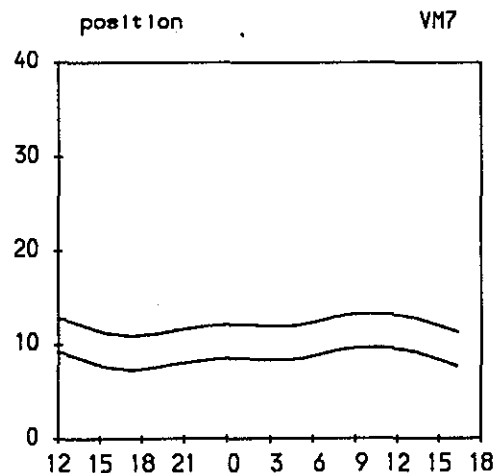
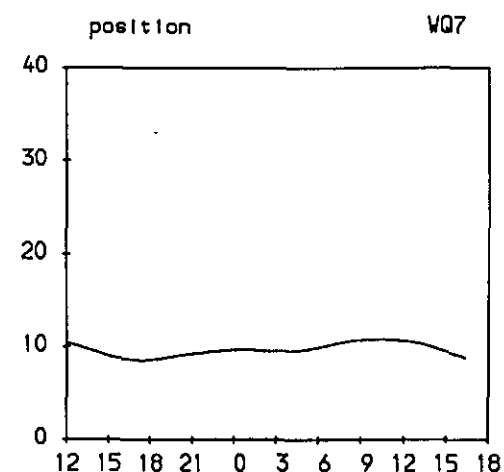
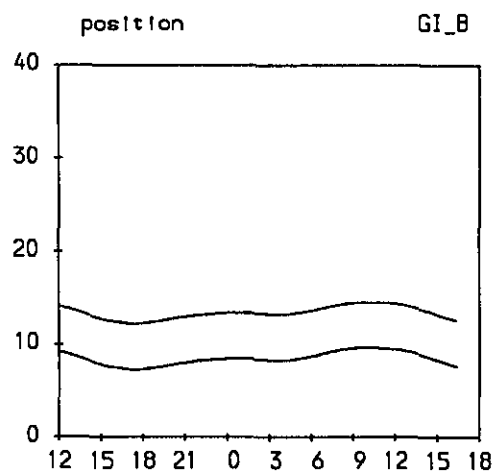
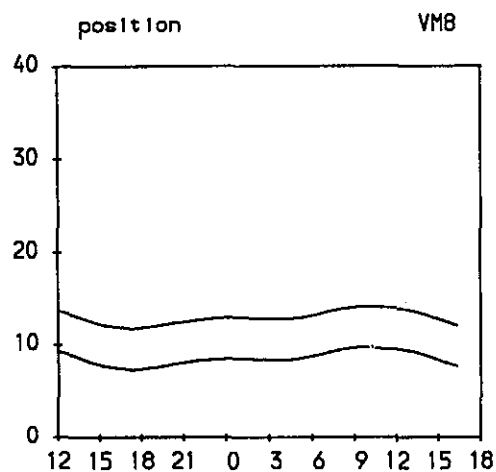
Layer Depth (metres) against time

2 Layer, 100m grid 29 Nov 1993

— Scen. 1

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Wet Spring Scenario 1 (Case 3)

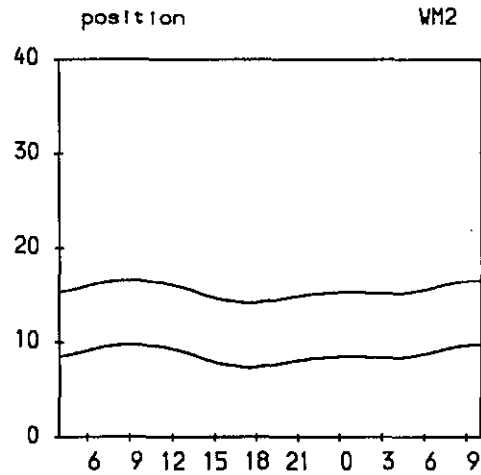
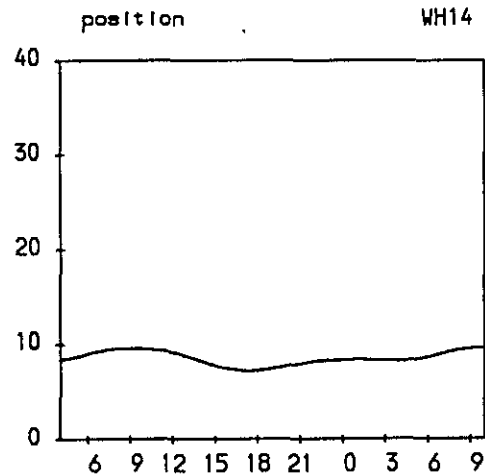
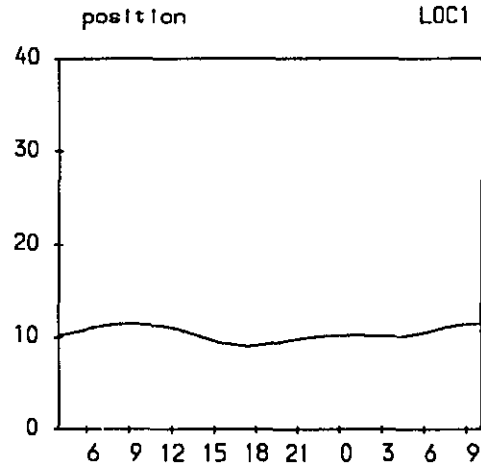
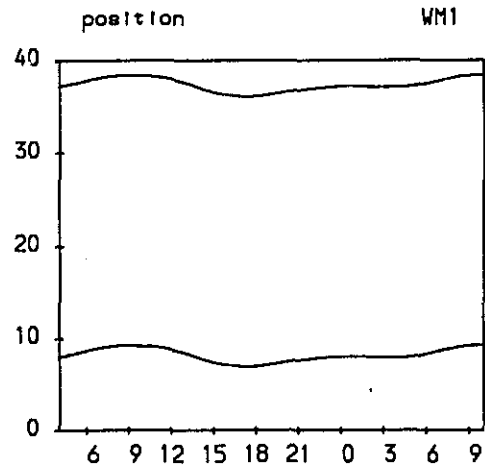
Layer Depth (metres) against time

2 Layer, 100m grid 29 Nov 1993

— Scen. 1

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



APPENDIX 4

CASE 5 (FULL SCENARIO)

TABLES 9 - 12

TABLE 9

GREEN ISLAND RECLAMATION Dry Season Neap Tide - Full Scenario

Averaged over 2 layers
26 stations
25 steps

Station	Layer	Height	Temp	Salin	DO%	BOD	Amm	OxN	OrgN	Chl	SS	EColi
1	1	9.29	18.22	30.97	57.83	2.08	0.27	0.16	0.28	1.51	14.53	7353.
1	2	29.19	18.23	30.98	57.73	2.03	0.27	0.15	0.27	1.49	14.26	9706.
2	1	9.29	17.98	31.04	49.67	2.76	0.27	0.21	0.39	1.44	14.61	9309.
2	2	2.88	17.98	31.04	49.32	2.77	0.27	0.21	0.39	1.43	14.59	10441.
3	1	9.28	17.99	31.05	51.26	2.78	0.27	0.20	0.39	1.42	14.93	16760.
3	2	4.40	18.00	31.05	50.95	2.79	0.27	0.20	0.39	1.42	14.90	18260.
4	1	9.29	17.89	31.10	50.86	2.97	0.24	0.21	0.44	1.36	14.45	14192.
4	2	2.50	17.89	31.10	50.62	3.05	0.25	0.21	0.44	1.35	14.53	20463.
5	1	9.28	17.89	31.10	51.21	2.89	0.24	0.21	0.43	1.35	14.42	10623.
5	2	4.35	17.90	31.10	50.87	2.94	0.24	0.21	0.44	1.34	14.47	15775.
6	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.
6	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.
7	1	9.29	17.92	31.12	53.90	2.68	0.21	0.20	0.42	1.32	14.37	4937.
7	2	5.67	17.92	31.12	53.69	2.69	0.21	0.20	0.42	1.31	14.43	6915.
8	1	9.30	17.99	31.12	56.91	2.58	0.19	0.19	0.40	1.26	15.61	4952.
8	2	3.57	17.99	31.12	56.58	2.59	0.19	0.19	0.40	1.25	15.56	5926.
9	1	9.30	17.98	31.13	56.13	2.54	0.19	0.19	0.41	1.28	13.63	2889.
9	2	0.00	17.98	31.13	56.13	2.54	0.19	0.19	0.41	1.28	13.63	2889.
10	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.
10	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.
11	1	9.30	18.25	31.13	39.02	4.17	0.24	0.21	0.55	1.17	12.54	13598.
11	2	4.71	18.25	31.13	37.86	4.16	0.24	0.22	0.56	1.16	12.06	17470.

Station	Layer	Height	Temp	Salin	DO%	BOD	Amm	OxN	OrgN	Chl	SS	EColi
12	1	9.30	18.69	31.13	82.18	1.91	0.07	0.10	0.30	1.19	18.97	4093.
12	2	4.23	18.70	31.13	82.00	1.90	0.07	0.10	0.30	1.18	18.29	4508.
13	1	8.28	18.39	31.14	69.66	1.98	0.10	0.13	0.33	1.07	20.86	1929.
13	2	0.00	18.39	31.14	69.66	1.98	0.10	0.13	0.33	1.07	20.86	1929.
14	1	9.30	18.43	31.14	76.27	1.58	0.05	0.11	0.28	1.11	22.87	160.
14	2	6.59	18.44	31.14	75.85	1.58	0.05	0.11	0.28	1.10	22.87	192.
15	1	9.30	18.41	31.14	78.94	1.56	0.04	0.10	0.28	1.21	22.59	97.
15	2	4.80	18.42	31.14	78.74	1.56	0.04	0.10	0.28	1.20	22.60	111.
16	1	9.54	17.83	31.19	94.08	1.18	0.00	0.06	0.26	3.37	5.43	1.
16	2	0.00	17.83	31.19	94.08	1.18	0.00	0.06	0.26	3.37	5.43	1.
17	1	9.29	18.11	31.15	74.41	1.50	0.05	0.11	0.28	1.37	18.46	1237.
17	2	27.75	18.13	31.15	73.91	1.50	0.05	0.11	0.28	1.35	18.47	1913.
18	1	9.29	18.12	31.15	74.85	1.49	0.05	0.11	0.28	1.39	18.53	702.
18	2	27.89	18.13	31.15	74.27	1.49	0.05	0.11	0.28	1.36	18.56	1092.
19	1	9.30	18.45	31.14	77.07	1.59	0.05	0.11	0.28	1.12	23.12	148.
19	2	5.91	18.46	31.14	76.77	1.59	0.05	0.11	0.28	1.11	23.13	174.
20	1	9.29	17.99	31.12	57.34	2.56	0.18	0.18	0.40	1.25	15.61	4919.
20	2	2.64	17.99	31.12	57.01	2.58	0.19	0.19	0.40	1.25	15.58	5840.
21	1	9.30	18.24	31.14	67.23	1.95	0.10	0.14	0.33	1.10	18.71	1028.
21	2	3.50	18.25	31.14	66.98	1.94	0.10	0.14	0.33	1.10	17.94	1150.
22	1	9.30	18.18	31.14	65.69	1.92	0.10	0.14	0.33	1.10	15.75	1920.
22	2	6.26	18.19	31.14	65.28	1.90	0.10	0.14	0.33	1.09	15.13	2157.
23	1	9.30	18.21	31.14	66.60	1.90	0.09	0.14	0.33	1.10	16.82	1364.
23	2	3.94	18.21	31.14	66.04	1.89	0.09	0.14	0.33	1.09	15.84	1653.
24	1	9.29	18.32	31.14	71.96	1.62	0.06	0.12	0.29	1.07	21.19	246.
24	2	12.02	18.34	31.14	71.68	1.61	0.06	0.12	0.29	1.05	21.00	302.

Station	Layer	Height	Temp	Salin	DO%	BOD	Amm	OxN	OrgN	Chl	SS	EColi
25	1	9.58	17.75	31.17	89.85	1.24	0.01	0.07	0.27	2.93	9.13	4.
25	2	0.00	17.75	31.17	89.85	1.24	0.01	0.07	0.27	2.93	9.13	4.
26	1	10.11	18.10	31.13	62.79	2.25	0.14	0.16	0.36	1.17	15.49	5787.
26	2	0.00	18.10	31.13	62.79	2.25	0.14	0.16	0.36	1.17	15.49	5787.

TABLE 10

GREEN ISLAND RECLAMATION Dry Season Spring Tide - Full Scenario

Averaged over 26 steps
 26 stations
 2 layers

Station	Layer	Height	Temp	Salin	DO%	BOD	Amm	OxN	OrgN	Chl	SS	EColi
1	1	9.46	18.00	31.17	65.05	1.88	0.20	0.13	0.33	1.03	18.39	5882.
1	2	29.19	18.01	31.18	64.91	1.85	0.20	0.13	0.32	1.03	19.22	7694.
2	1	9.46	17.82	31.16	56.54	2.27	0.25	0.18	0.42	1.16	15.99	7958.
2	2	2.88	17.82	31.16	56.26	2.27	0.25	0.18	0.42	1.15	15.96	8860.
3	1	9.46	17.82	31.16	57.34	2.34	0.25	0.17	0.41	1.14	16.33	15694.
3	2	4.40	17.82	31.16	57.09	2.34	0.25	0.18	0.41	1.14	16.29	17566.
4	1	9.46	17.63	31.16	52.90	2.66	0.27	0.21	0.44	1.22	15.29	14783.
4	2	2.50	17.64	31.16	52.69	2.75	0.28	0.21	0.44	1.21	15.39	22161.
5	1	9.46	17.63	31.16	53.10	2.58	0.26	0.21	0.43	1.22	15.23	11398.
5	2	4.35	17.63	31.16	52.71	2.64	0.27	0.21	0.43	1.21	15.28	16893.
6	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.
6	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.
7	1	9.47	17.54	31.16	53.99	2.46	0.24	0.21	0.39	1.23	14.47	6585.
7	2	5.67	17.55	31.16	53.69	2.48	0.24	0.21	0.39	1.22	14.52	8652.
8	1	9.47	17.54	31.16	56.13	2.40	0.23	0.20	0.36	1.19	15.43	6049.
8	2	3.57	17.54	31.16	55.82	2.41	0.23	0.20	0.36	1.18	15.40	7369.
9	1	9.47	17.47	31.16	56.89	2.21	0.21	0.20	0.33	1.23	12.85	2558.
9	2	0.00	17.47	31.16	56.89	2.21	0.21	0.20	0.33	1.23	12.85	2558.
10	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.
10	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.
11	1	9.47	17.67	31.21	49.64	3.43	0.23	0.20	0.38	1.01	13.95	10566.
11	2	4.71	17.68	31.21	48.63	3.42	0.23	0.20	0.38	1.01	13.43	13406.

Station	Layer	Height	Temp	Salin	DO%	BOD	Amm	OxN	OrgN	Chl	SS	EColi
12	1	9.48	18.05	31.24	87.05	1.40	0.06	0.09	0.13	1.07	22.60	4115.
12	2	4.23	18.06	31.24	86.92	1.39	0.06	0.09	0.13	1.07	21.81	4451.
13	1	8.45	17.70	31.19	72.97	1.58	0.11	0.14	0.20	1.02	20.53	1927.
13	2	0.00	17.70	31.19	72.97	1.58	0.11	0.14	0.20	1.02	20.53	1927.
14	1	9.47	17.73	31.14	80.69	1.12	0.05	0.11	0.15	0.94	22.46	492.
14	2	6.59	17.73	31.14	80.34	1.12	0.05	0.11	0.15	0.93	22.43	598.
15	1	9.47	17.82	31.19	83.80	1.09	0.04	0.10	0.12	0.99	24.70	202.
15	2	4.80	17.82	31.19	83.67	1.09	0.04	0.10	0.12	0.99	24.67	227.
16	1	9.71	17.46	31.17	84.66	1.00	0.03	0.10	0.18	1.22	16.80	4.
16	2	0.00	17.46	31.17	84.66	1.00	0.03	0.10	0.18	1.22	16.80	4.
17	1	9.47	17.54	30.90	79.51	1.17	0.06	0.11	0.20	0.88	15.11	1661.
17	2	27.75	17.55	30.90	79.01	1.17	0.06	0.11	0.19	0.86	15.15	2639.
18	1	9.47	17.55	30.92	79.58	1.15	0.05	0.11	0.19	0.88	15.54	1051.
18	2	27.89	17.55	30.92	78.99	1.15	0.05	0.11	0.19	0.86	15.55	1678.
19	1	9.47	17.76	31.16	81.74	1.11	0.05	0.10	0.14	0.96	23.28	406.
19	2	5.91	17.77	31.16	81.51	1.11	0.05	0.10	0.14	0.95	23.28	478.
20	1	9.47	17.53	31.16	56.36	2.39	0.22	0.20	0.36	1.18	15.39	6161.
20	2	2.64	17.54	31.16	56.06	2.41	0.23	0.20	0.36	1.18	15.39	7425.
21	1	9.47	17.60	31.17	68.23	1.66	0.12	0.15	0.24	1.05	17.92	1093.
21	2	3.50	17.60	31.17	68.00	1.64	0.12	0.15	0.23	1.04	17.17	1209.
22	1	9.47	17.57	31.16	67.78	1.60	0.12	0.15	0.23	1.03	15.62	1776.
22	2	6.26	17.58	31.16	67.44	1.57	0.11	0.15	0.23	1.02	15.01	1950.
23	1	9.47	17.59	31.16	68.66	1.58	0.11	0.15	0.23	1.03	16.57	1282.
23	2	3.94	17.59	31.16	68.12	1.56	0.11	0.15	0.23	1.02	15.62	1524.
24	1	9.47	17.63	31.12	76.31	1.18	0.06	0.12	0.17	0.91	20.22	552.
24	2	12.02	17.64	31.12	76.08	1.17	0.06	0.12	0.17	0.89	20.01	721.

Station	Layer	Height	Temp	Salin	DO%	BOD	Amm	OxN	OrgN	Chl	SS	EColi
25	1	9.75	17.54	31.17	83.03	1.02	0.04	0.10	0.16	1.10	18.65	13.
25	2	0.00	17.54	31.17	83.03	1.02	0.04	0.10	0.16	1.10	18.65	13.
26	1	10.28	17.52	31.16	62.65	2.04	0.17	0.18	0.29	1.11	14.88	5904.
26	2	0.00	17.52	31.16	62.65	2.04	0.17	0.18	0.29	1.11	14.88	5904.

TABLE 11

GREEN ISLAND RECLAMATION Wet Season Neap Tide - Full Scenario

Averaged over 2 layers
26 stations
25 steps

Station	Layer	Height	Temp	Salin	DO%	BOD	Amm	OxN	OrgN	Chl	SS	EColi
1	1	8.04	26.36	31.46	64.66	2.79	0.21	0.15	0.40	5.55	5.96	6236.
1	2	30.49	26.41	31.40	62.86	2.82	0.24	0.14	0.37	4.64	6.54	14662.
2	1	8.27	26.38	31.42	59.73	3.71	0.17	0.21	0.58	8.74	6.68	6598.
2	2	3.95	26.33	31.50	51.84	3.53	0.20	0.20	0.52	6.89	6.54	19928.
3	1	8.20	26.37	31.42	58.85	3.66	0.19	0.20	0.56	8.18	6.97	10896.
3	2	5.54	26.33	31.49	51.16	3.75	0.23	0.20	0.54	6.79	7.02	38881.
4	1	8.18	26.44	31.23	60.20	3.98	0.13	0.23	0.69	11.23	6.66	8936.
4	2	3.66	26.45	31.25	48.04	4.40	0.20	0.24	0.70	9.90	6.91	48948.
5	1	8.21	26.44	31.22	60.30	3.95	0.13	0.23	0.69	11.28	6.63	7655.
5	2	5.48	26.45	31.24	47.74	4.18	0.19	0.24	0.68	9.85	6.87	34545.
6	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.
6	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.
7	1	8.35	26.50	31.00	66.38	3.90	0.09	0.22	0.75	13.45	6.08	4536.
7	2	6.67	26.49	31.06	48.10	3.99	0.15	0.24	0.71	11.13	6.40	21978.
8	1	8.42	26.48	30.94	65.45	3.86	0.09	0.22	0.74	13.15	6.34	4315.
8	2	4.49	26.50	30.96	50.43	3.92	0.14	0.23	0.73	11.73	6.30	19943.
9	1	9.35	26.54	30.65	81.08	3.74	0.04	0.20	0.82	16.72	4.58	1607.
9	2	0.00	26.54	30.65	81.08	3.74	0.04	0.20	0.82	16.72	4.58	1607.
10	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.
10	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.
11	1	8.89	26.57	28.96	50.28	3.75	0.12	0.32	0.77	12.74	5.42	4166.
11	2	5.18	26.39	29.73	-8.62	4.32	0.36	0.39	0.77	7.77	3.75	63133.

Station	Layer	Height	Temp	Salin	DO%	BOD	Amm	OxN	OrgN	Chl	SS	EColi
12	1	9.38	26.59	27.50	62.24	1.66	0.03	0.15	0.36	4.37	6.06	819.
12	2	4.21	26.51	27.93	43.12	1.69	0.07	0.17	0.36	3.48	4.54	3392.
13	1	8.33	26.22	30.10	77.21	2.54	0.03	0.15	0.56	10.36	5.76	954.
13	2	0.00	26.22	30.10	77.21	2.54	0.03	0.15	0.56	10.36	5.76	954.
14	1	8.43	26.00	29.57	74.14	1.56	0.01	0.10	0.34	4.79	6.47	172.
14	2	7.52	25.16	32.19	65.43	1.56	0.02	0.09	0.29	3.25	5.96	1509.
15	1	8.47	26.06	29.56	78.69	1.54	0.01	0.08	0.35	5.51	6.10	78.
15	2	5.69	25.59	30.98	69.18	1.52	0.02	0.09	0.32	4.20	5.90	398.
16	1	9.59	25.69	31.48	87.28	1.65	0.01	0.05	0.36	6.13	4.84	9.
16	2	0.00	25.69	31.48	87.28	1.65	0.01	0.05	0.36	6.13	4.84	9.
17	1	7.98	25.31	31.97	77.78	1.77	0.01	0.09	0.34	5.11	6.11	580.
17	2	29.13	24.64	33.44	65.38	1.62	0.03	0.09	0.26	2.12	6.03	5006.
18	1	8.00	25.33	31.89	77.12	1.75	0.01	0.09	0.34	5.07	6.12	434.
18	2	29.24	24.67	33.38	65.56	1.60	0.02	0.09	0.26	2.20	5.96	3153.
19	1	8.46	26.05	29.46	74.78	1.54	0.01	0.10	0.34	4.86	6.49	144.
19	2	6.81	25.29	31.84	66.05	1.54	0.02	0.09	0.30	3.47	6.01	1063.
20	1	8.42	26.48	30.94	65.29	3.86	0.09	0.22	0.74	13.08	6.36	4689.
20	2	3.57	26.50	30.95	50.79	3.95	0.14	0.23	0.73	11.75	6.29	21633.
21	1	8.47	26.24	30.31	76.39	2.69	0.02	0.15	0.57	10.59	5.87	632.
21	2	4.38	26.03	30.91	58.59	2.44	0.04	0.15	0.53	8.61	3.82	2442.
22	1	8.36	26.23	30.39	80.35	2.77	0.02	0.14	0.59	11.29	5.71	1516.
22	2	7.26	25.98	30.91	50.59	2.24	0.05	0.15	0.49	7.49	3.35	3429.
23	1	8.41	26.22	30.33	79.32	2.67	0.02	0.14	0.57	10.74	5.80	1006.
23	2	4.88	25.94	30.97	53.11	2.23	0.05	0.14	0.49	7.48	3.47	2984.
24	1	8.35	25.85	30.49	75.60	1.86	0.01	0.11	0.40	6.35	6.22	341.
24	2	13.02	24.91	32.90	63.15	1.60	0.03	0.09	0.28	2.70	5.86	3139.

Station	Layer	Height	Temp	Salin	DO%	BOD	Amm	OxN	OrgN	Chl	SS	EColi
25	1	9.63	25.57	31.43	82.38	1.65	0.01	0.06	0.35	5.58	5.63	31.
25	2	0.00	25.57	31.43	82.38	1.65	0.01	0.06	0.35	5.58	5.63	31.
26	1	10.16	26.39	30.64	74.80	3.44	0.04	0.19	0.70	13.25	5.74	4645.
26	2	0.00	26.39	30.64	74.80	3.44	0.04	0.19	0.70	13.25	5.74	4645.

TABLE 12

GREEN ISLAND RECLAMATION Wet Season Spring Tide - Full Scenario

2 layers
26 stations
Averaged over 25 steps

Station	Layer	Height	Temp	Salin	DO%	BOD	Amm	OxN	OrgN	Chl	SS	EColi
1	1	8.09	27.57	29.87	66.06	2.94	0.08	0.18	0.46	5.24	12.63	6054.
1	2	30.49	27.61	30.18	61.16	2.85	0.08	0.17	0.44	3.82	12.56	10512.
2	1	8.33	27.46	29.23	73.57	3.10	0.07	0.20	0.57	8.23	10.08	8152.
2	2	3.95	27.51	29.47	67.97	3.05	0.08	0.20	0.54	6.92	10.12	13520.
3	1	8.25	27.46	29.29	73.53	3.10	0.08	0.20	0.56	7.82	10.47	12902.
3	2	5.54	27.51	29.42	68.42	3.17	0.10	0.20	0.55	6.86	10.45	28375.
4	1	8.24	27.40	28.86	81.40	3.00	0.07	0.20	0.57	9.27	9.95	8553.
4	2	3.66	27.41	28.89	77.66	3.35	0.11	0.20	0.59	8.95	10.10	32490.
5	1	8.26	27.40	28.86	81.26	2.95	0.07	0.20	0.56	9.22	9.96	7729.
5	2	5.48	27.41	28.89	76.84	3.19	0.10	0.20	0.58	8.83	10.06	25552.
6	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.
6	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.
7	1	8.41	27.37	28.73	84.60	2.79	0.06	0.20	0.55	9.43	9.87	4616.
7	2	6.67	27.38	28.74	80.73	2.86	0.08	0.20	0.54	8.88	10.13	11583.
8	1	8.50	27.36	28.71	84.44	2.62	0.07	0.19	0.51	8.54	10.64	3775.
8	2	4.49	27.36	28.69	81.93	2.61	0.08	0.19	0.50	8.14	10.65	7940.
9	1	9.42	27.35	28.61	88.31	2.64	0.05	0.20	0.54	9.83	8.66	2219.
9	2	0.00	27.35	28.61	88.31	2.64	0.05	0.20	0.54	9.83	8.66	2219.
10	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.
10	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.
11	1	8.96	27.50	28.28	77.76	2.87	0.12	0.21	0.47	6.83	10.58	7734.
11	2	5.18	27.49	28.40	52.43	3.36	0.20	0.24	0.52	5.83	7.48	43033.

Station	Layer	Height	Temp	Salin	DO%	BOD	Amm	OxN	OrgN	Chl	SS	EColi
12	1	9.47	27.51	28.31	96.44	1.63	0.14	0.14	0.29	5.31	10.65	1691.
12	2	4.21	27.52	28.29	91.85	1.54	0.15	0.14	0.27	4.78	9.54	2205.
13	1	8.40	27.40	28.52	84.38	2.20	0.08	0.18	0.41	6.80	10.10	1305.
13	2	0.00	27.40	28.52	84.38	2.20	0.08	0.18	0.41	6.80	10.10	1305.
14	1	8.49	27.39	28.63	87.29	1.71	0.10	0.15	0.31	4.87	11.43	472.
14	2	7.52	27.23	28.95	77.92	1.68	0.08	0.15	0.33	4.26	10.33	1158.
15	1	8.53	27.44	28.51	91.34	1.66	0.11	0.14	0.29	5.03	11.73	291.
15	2	5.69	27.39	28.60	84.42	1.67	0.10	0.15	0.31	4.63	11.17	552.
16	1	9.66	27.42	28.45	92.44	1.75	0.07	0.15	0.34	5.95	11.06	24.
16	2	0.00	27.42	28.45	92.44	1.75	0.07	0.15	0.34	5.95	11.06	24.
17	1	8.04	27.10	29.22	79.25	1.73	0.06	0.15	0.34	4.47	9.96	985.
17	2	29.13	26.82	29.90	73.75	1.72	0.05	0.14	0.34	3.28	9.18	3042.
18	1	8.06	27.12	29.18	79.33	1.72	0.06	0.15	0.34	4.43	10.02	771.
18	2	29.24	26.85	29.82	74.07	1.70	0.05	0.14	0.34	3.37	9.26	1931.
19	1	8.52	27.41	28.59	88.91	1.68	0.11	0.15	0.30	4.90	11.65	435.
19	2	6.81	27.28	28.83	79.75	1.68	0.08	0.15	0.32	4.38	10.60	975.
20	1	8.49	27.36	28.70	84.59	2.61	0.07	0.19	0.50	8.42	10.64	4039.
20	2	3.57	27.36	28.69	82.42	2.61	0.08	0.19	0.49	8.08	10.71	7594.
21	1	8.54	27.39	28.55	86.73	1.92	0.08	0.16	0.36	6.00	10.41	560.
21	2	4.38	27.34	28.67	80.07	1.79	0.07	0.16	0.35	5.24	8.27	913.
22	1	8.43	27.39	28.54	87.49	1.92	0.06	0.16	0.37	6.10	9.90	881.
22	2	7.26	27.35	28.63	78.48	1.80	0.07	0.16	0.35	5.30	7.58	1836.
23	1	8.47	27.39	28.53	87.18	1.89	0.07	0.16	0.36	5.87	10.24	669.
23	2	4.88	27.35	28.64	79.41	1.79	0.07	0.16	0.35	5.24	7.94	1387.
24	1	8.41	27.29	28.78	82.35	1.74	0.07	0.15	0.33	4.89	10.52	556.
24	2	13.02	27.10	29.23	74.63	1.70	0.06	0.15	0.34	4.08	9.63	1674.

Station	Layer	Height	Temp	Salin	DO%	BOD	Amm	OxN	OrgN	Chl	SS	EColi
25	1	9.70	27.38	28.60	88.36	1.72	0.08	0.15	0.32	5.21	11.02	106.
25	2	0.00	27.38	28.60	88.36	1.72	0.08	0.15	0.32	5.21	11.02	106.
26	1	10.23	27.37	28.57	86.89	2.16	0.07	0.17	0.41	6.83	10.06	3289.
26	2	0.00	27.37	28.57	86.89	2.16	0.07	0.17	0.41	6.83	10.06	3289.

FIGURE 11

CASE 5 (FULL SCENARIO) : DRY SEASON NEAP TIDE

Green Island Dry Neap Full scenario (Case 5)

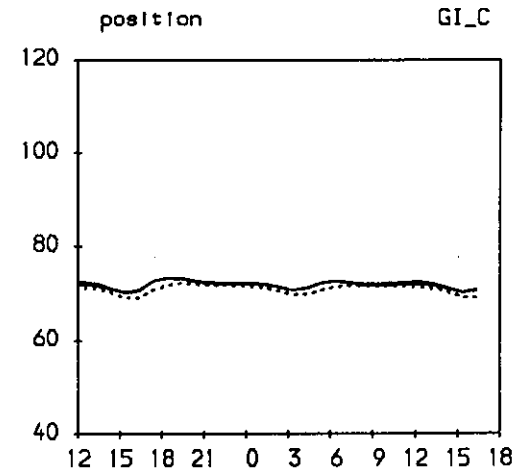
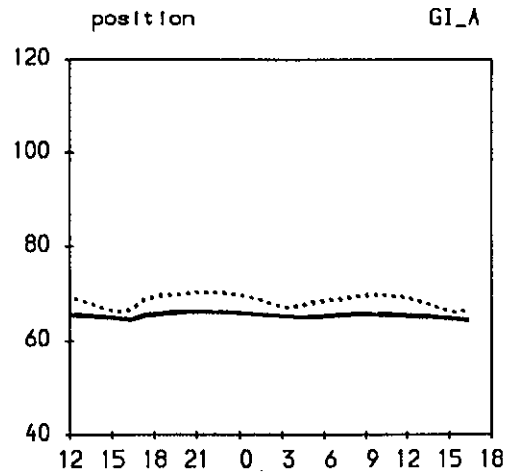
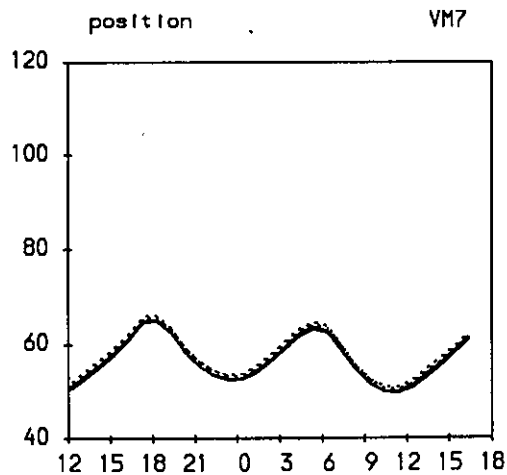
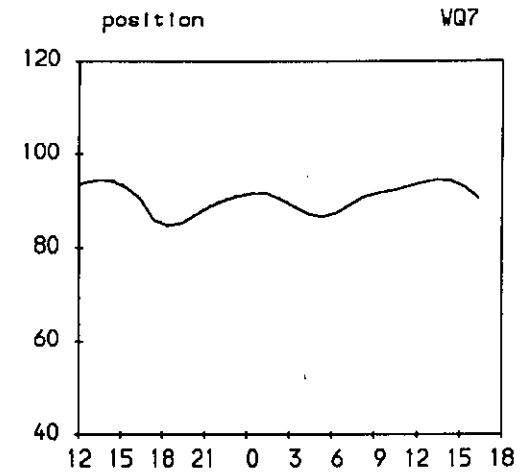
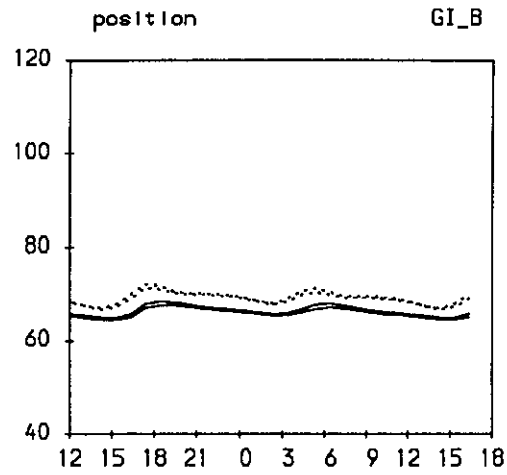
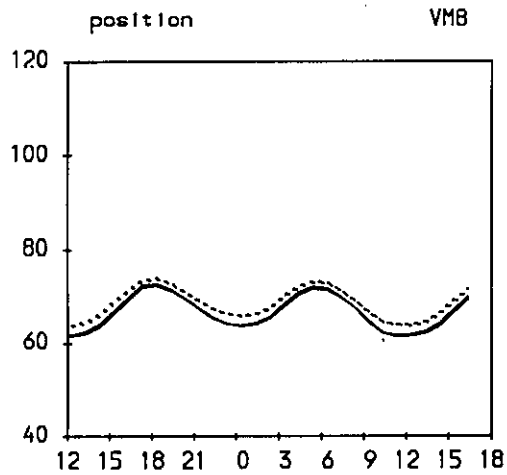
Dissolved Oxygen (% saturation) against time

2 Layer, 100m grid 29 Nov 1993

— Full scen.

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Dry Neap Full scenario (Case 5)

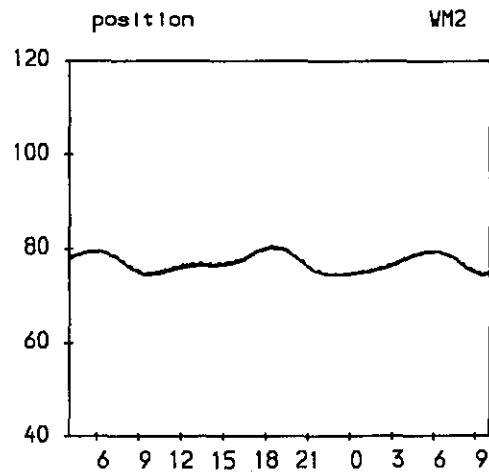
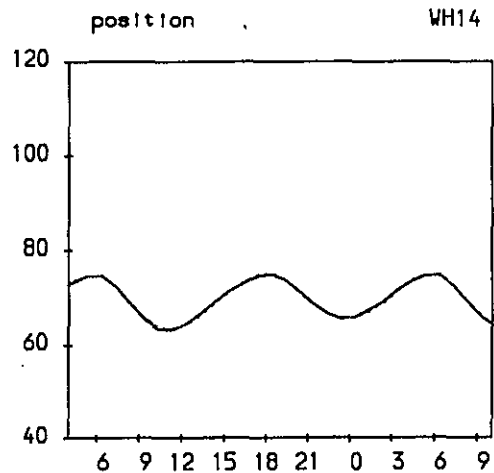
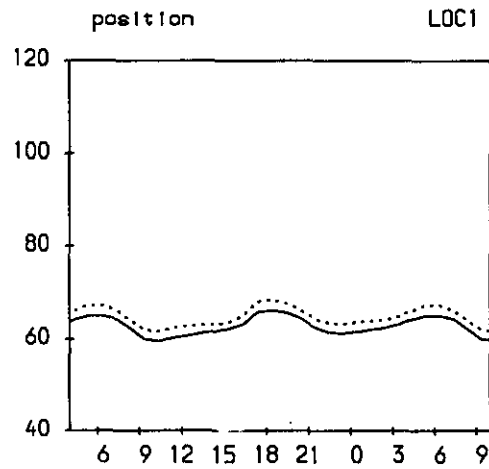
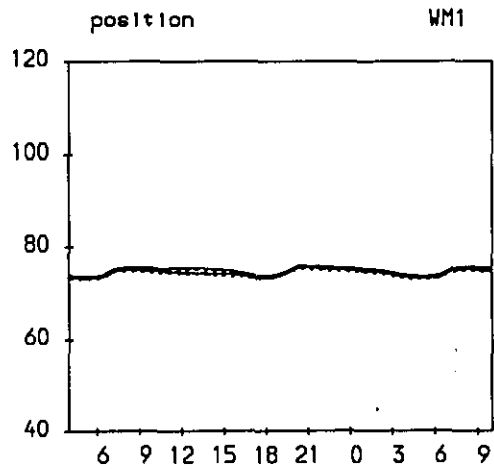
Dissolved Oxygen (% saturation) against time

2 Layer, 100m grid 29 Nov 1993

— Full scen.

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Dry Neap Full scenario (Case 5)

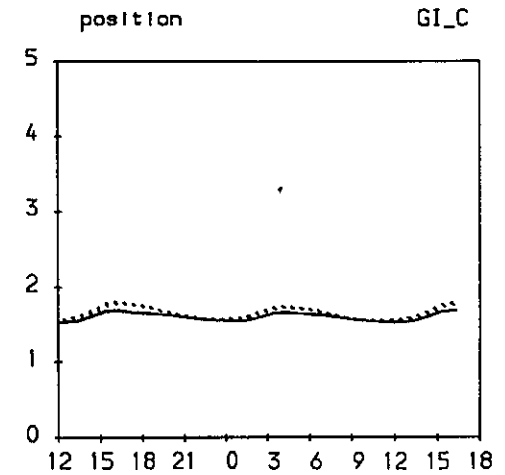
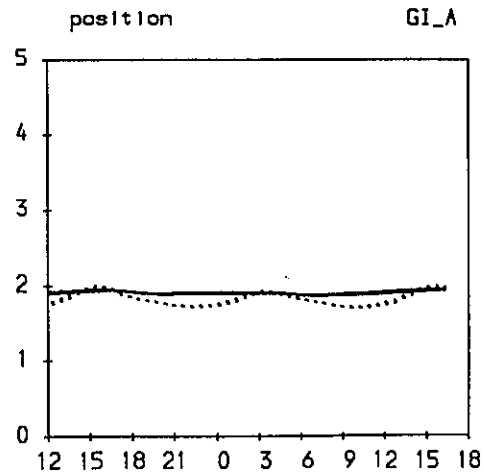
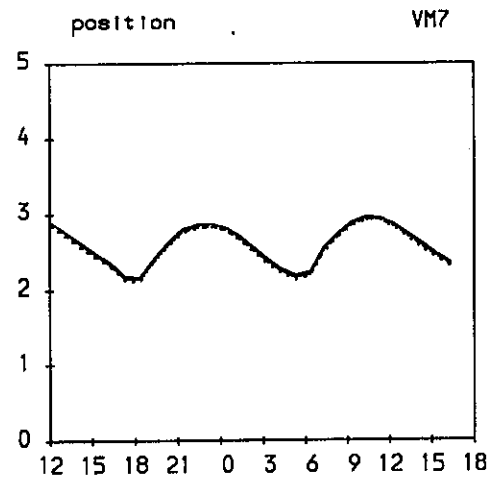
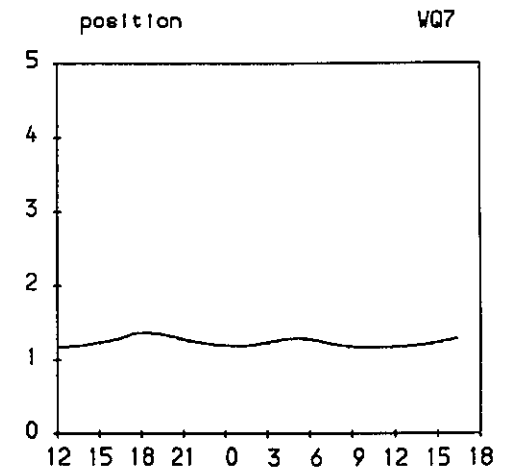
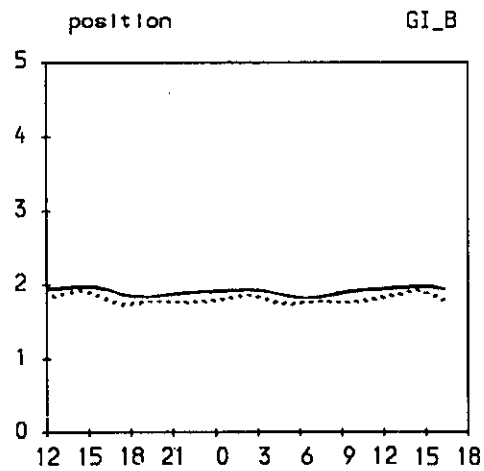
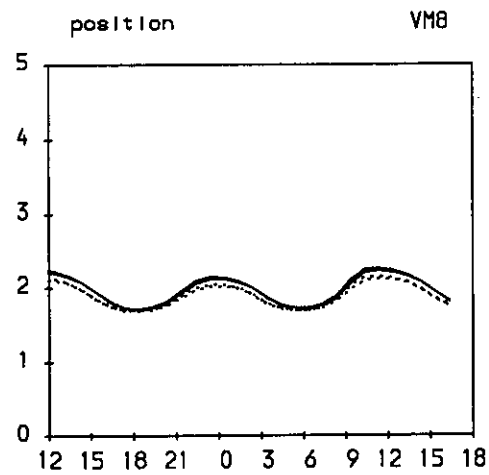
BOD (mg/L) against time

2 Layer, 100m grid 29 Nov 1993

— Full scen.

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Dry Neap Full scenario (Case 5)

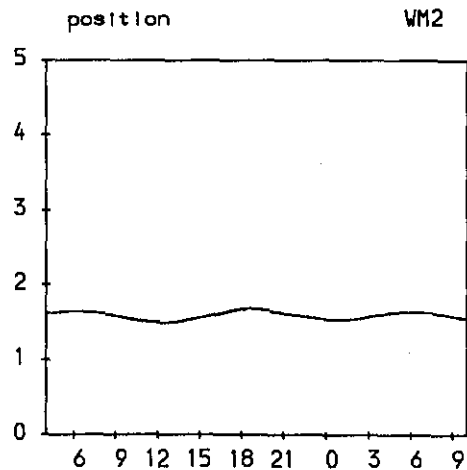
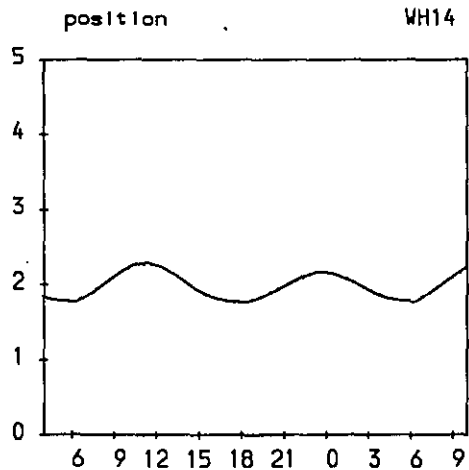
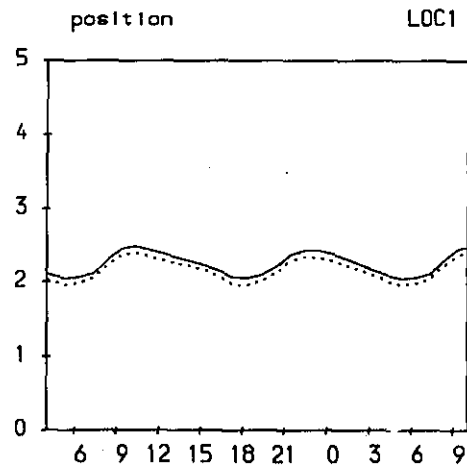
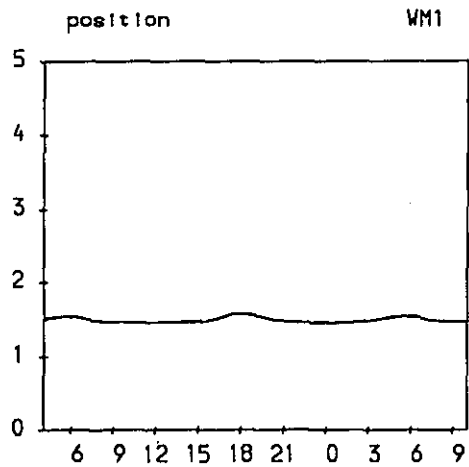
BOD (mg/l) against time

2 Layer, 100m grid 29 Nov 1993

— Full scen.

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Dry Neap Full scenario (Case 5)

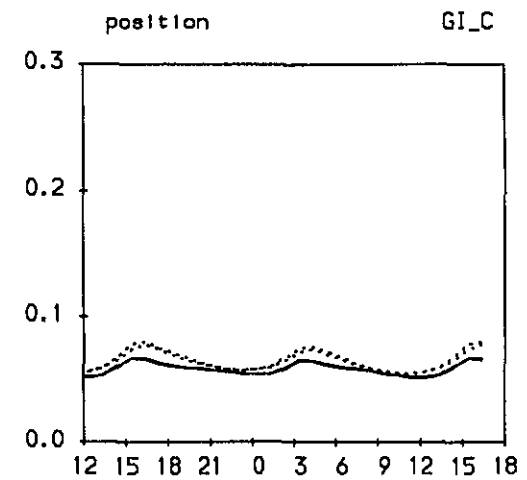
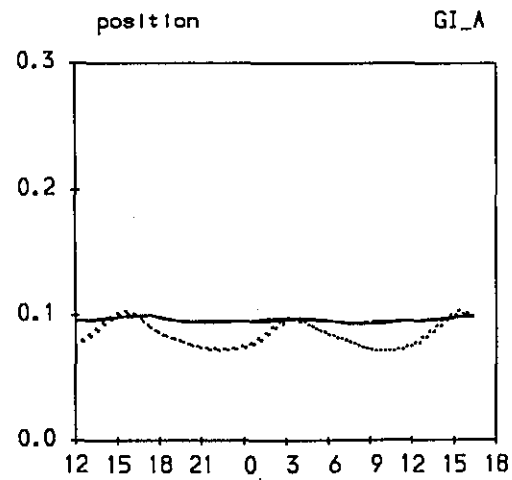
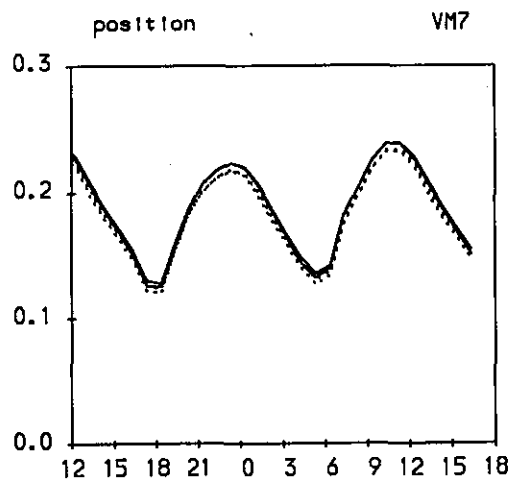
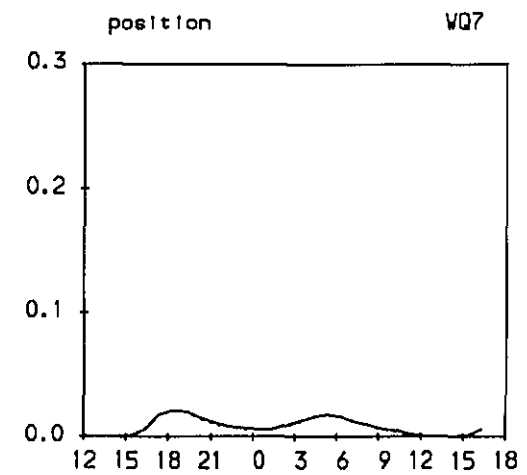
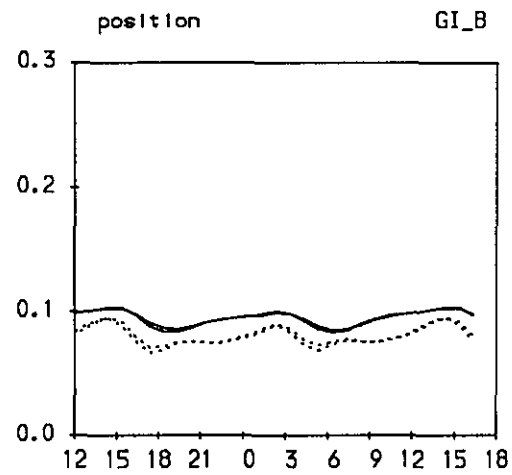
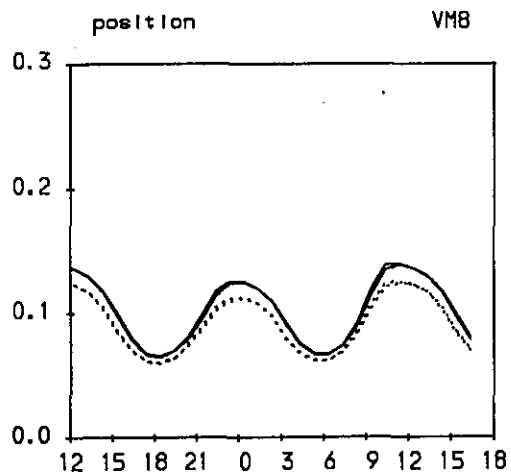
Ammoniacal Nitrogen (mg N/L) against time

2 Layer, 100m grid 29 Nov 1993

— Full scen.

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Dry Neap Full scenario (Case 5)

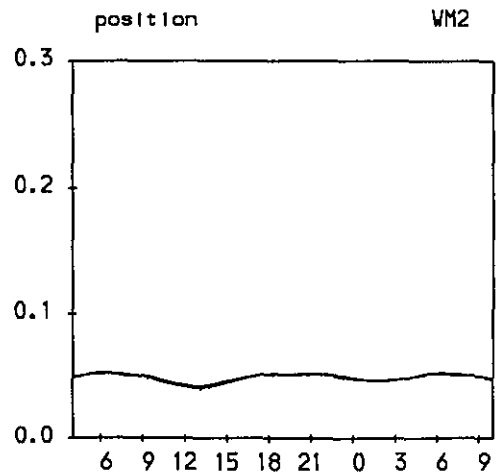
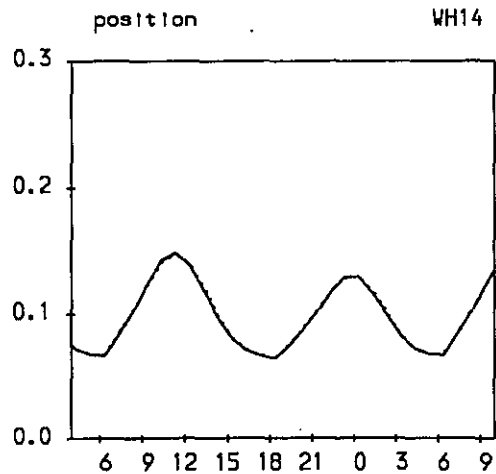
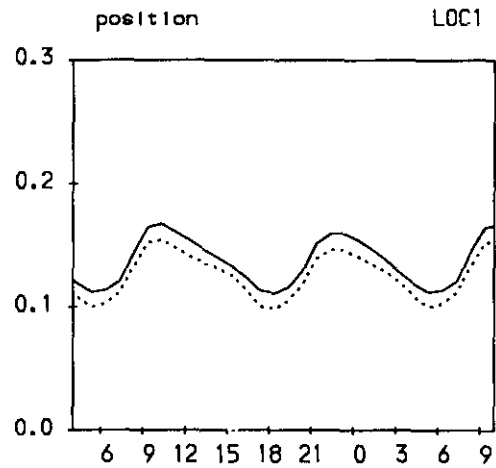
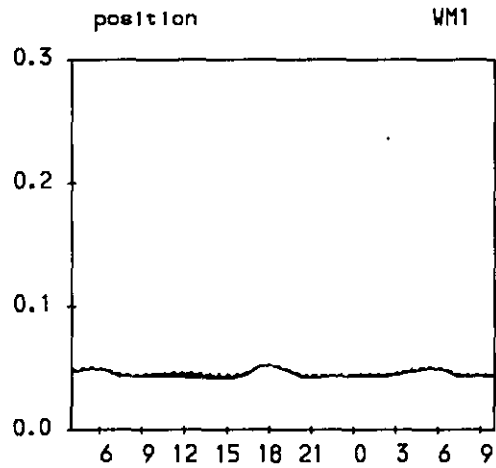
Ammoniacal Nitrogen (mg N/L) against time

2 Layer, 100m grid 29 Nov 1993

— Full scen.

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Dry Neap Full scenario (Case 5)

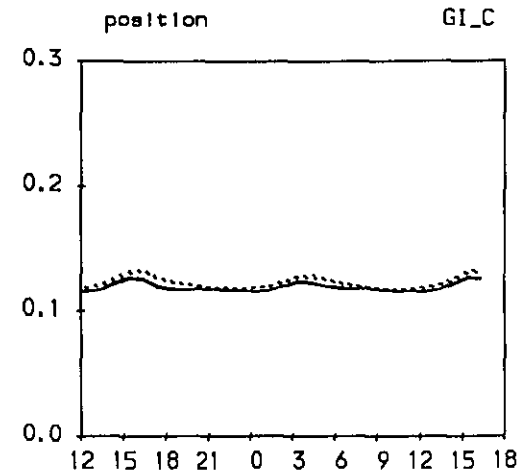
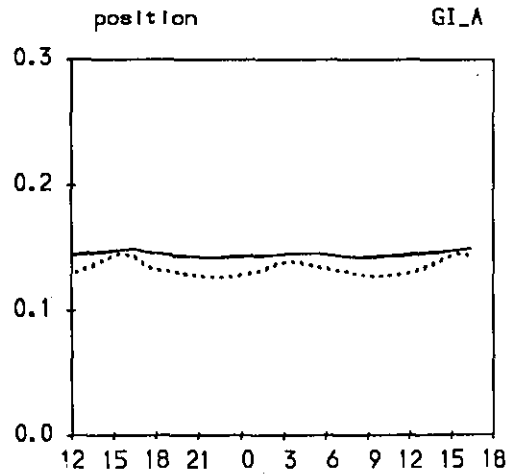
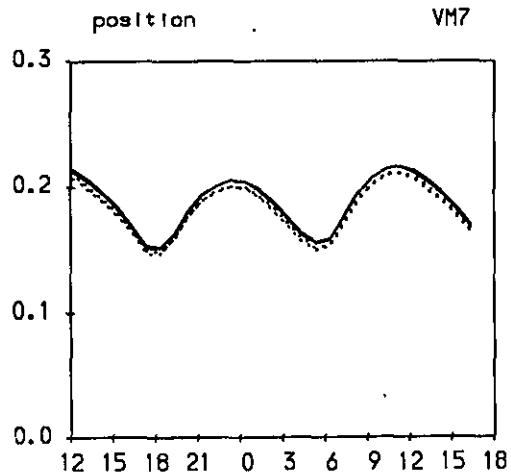
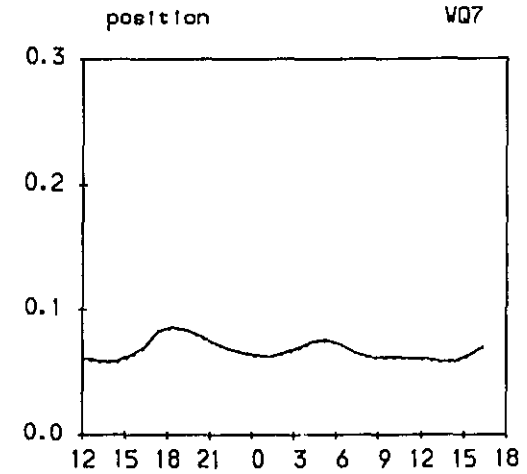
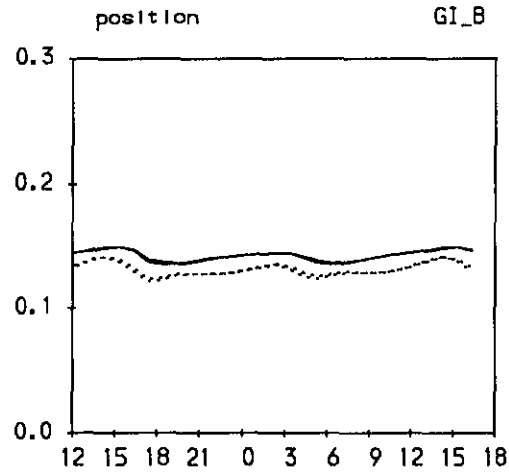
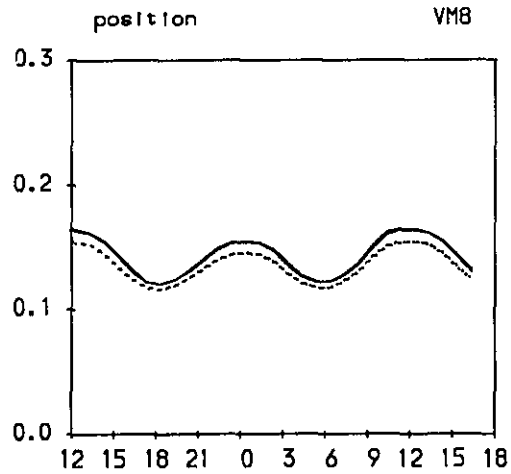
Oxidised Nitrogen (mg N/l) against time

2 Layer, 100m grid 29 Nov 1993

— Full scen.

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Dry Neap Full scenario (Case 5)

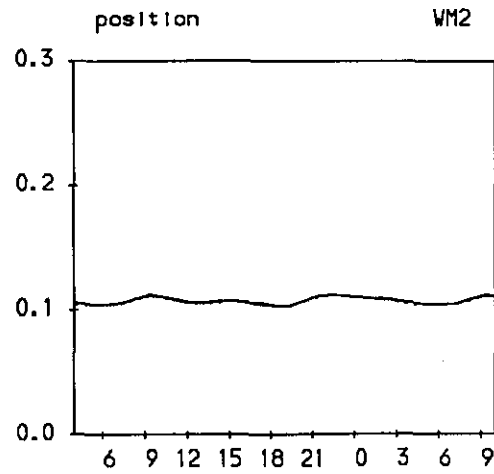
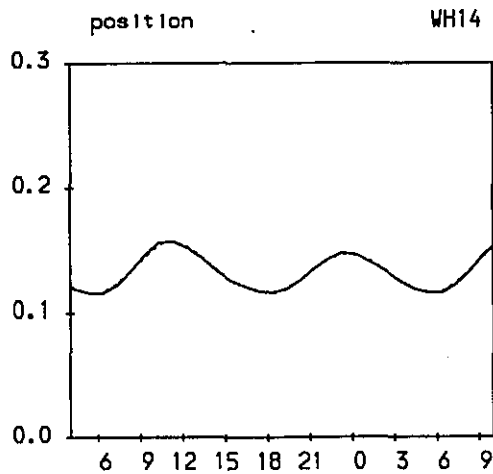
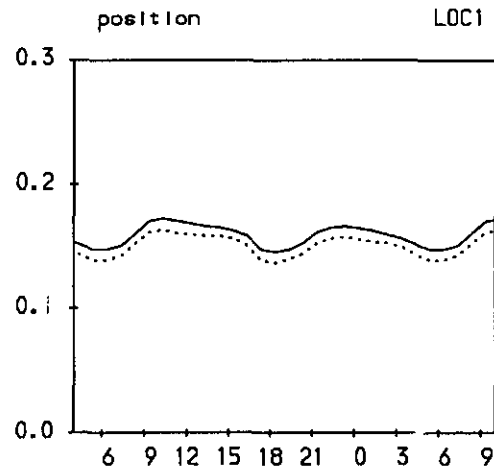
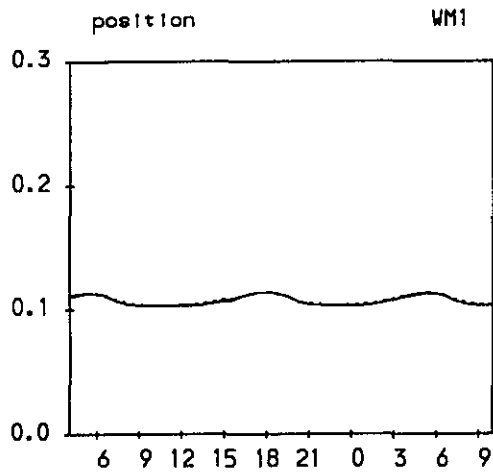
Oxidised Nitrogen (mg N/l) against time

2 Layer, 100m grid 29 Nov 1993

— Full scen.

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Dry Neap Full scenario (Case 5)

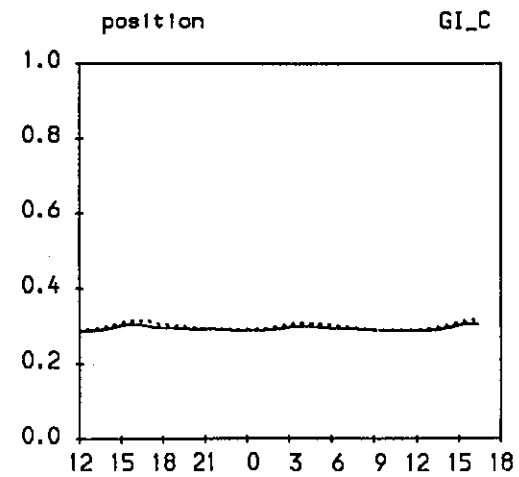
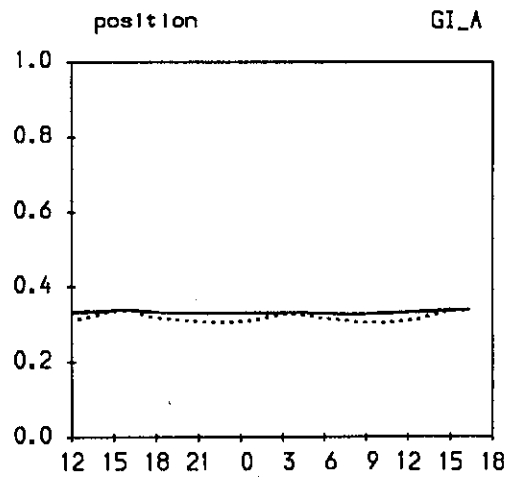
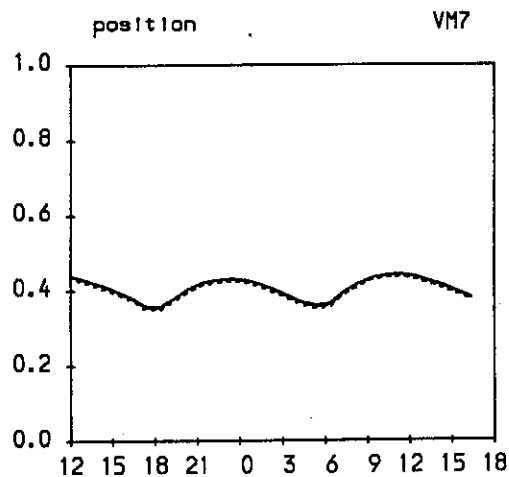
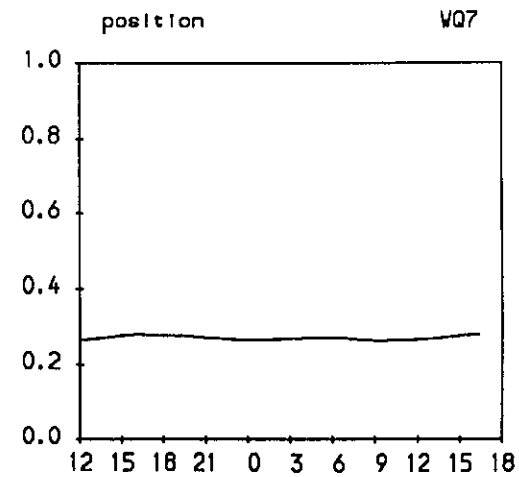
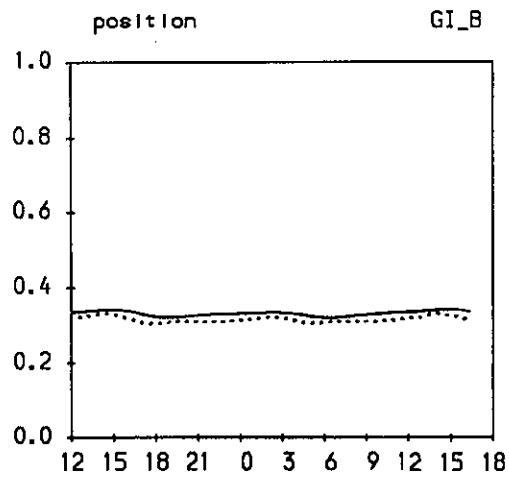
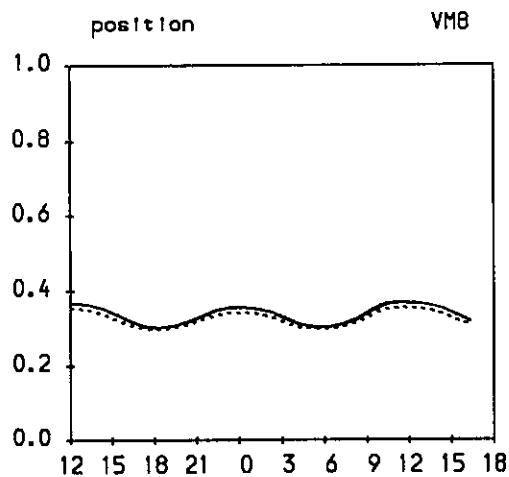
Organic Nitrogen (mg N/L) against time

2 Layer, 100m grid 29 Nov 1993

— Full scen.

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Dry Neap Full scenario (Case 5)

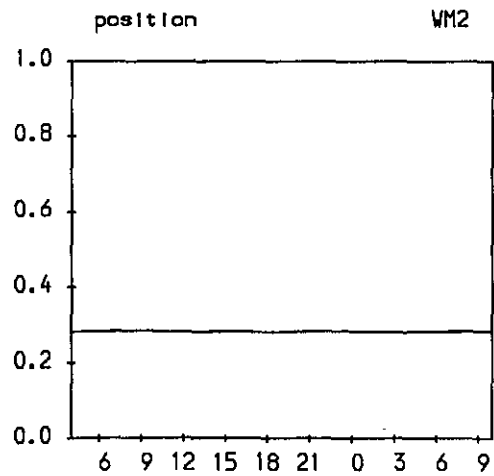
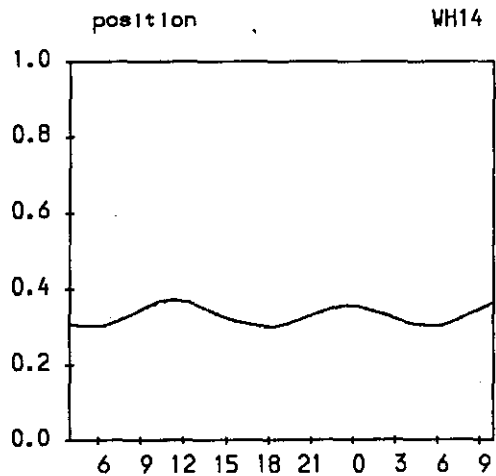
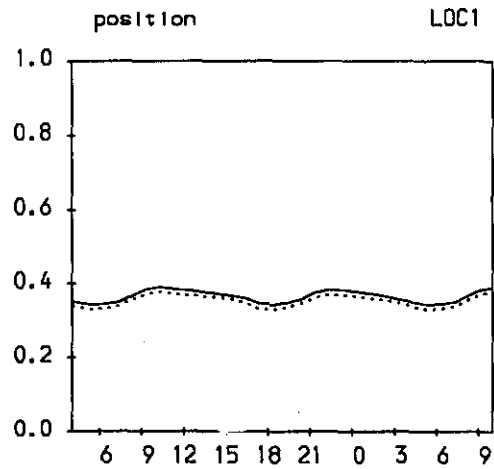
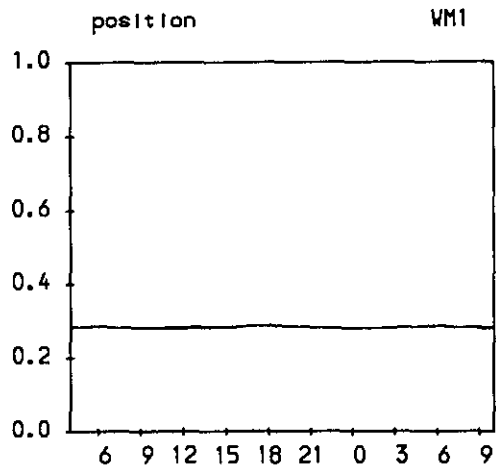
Organic Nitrogen (mg N/U) against time

2 Layer, 100m grid 29 Nov 1993

— Full scen.

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Dry Neap Full scenario (Case 5)

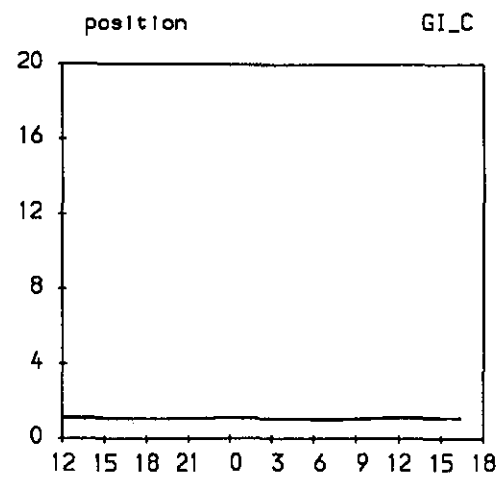
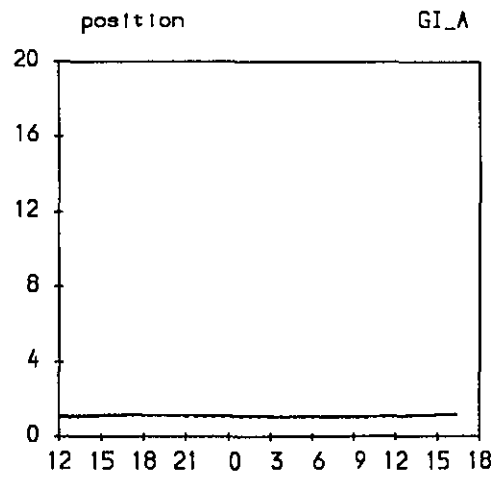
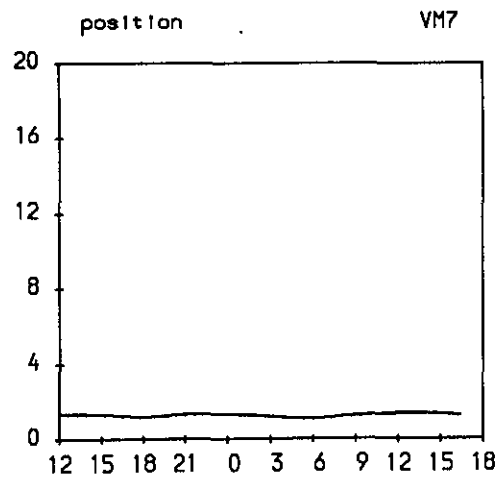
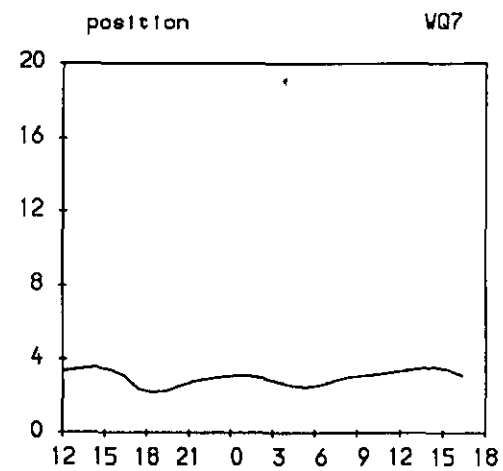
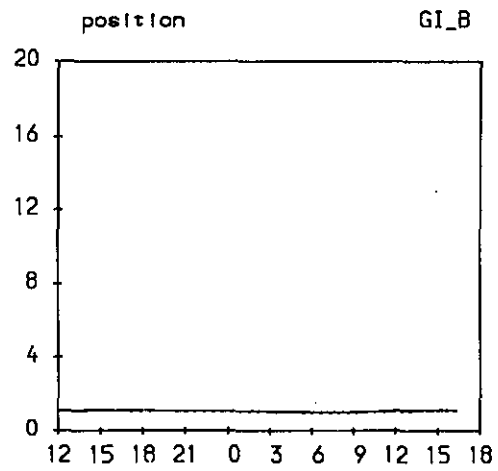
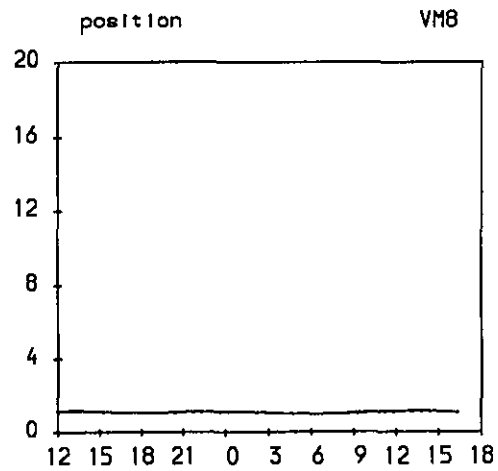
Chlorophyll (ug/l) against time

2 Layer, 100m grid 29 Nov 1993

— Full scen.

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Dry Neap Full scenario (Case 5)

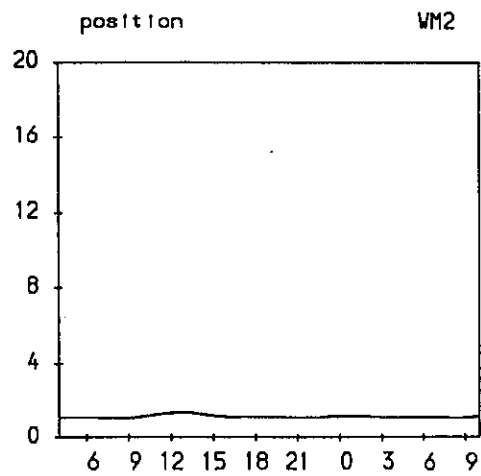
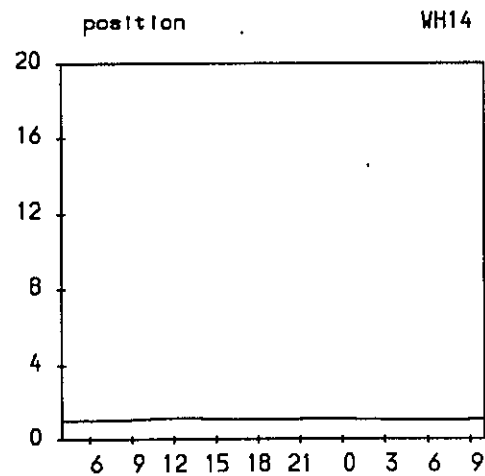
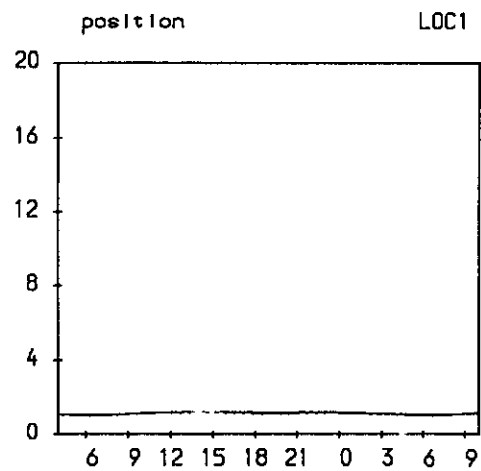
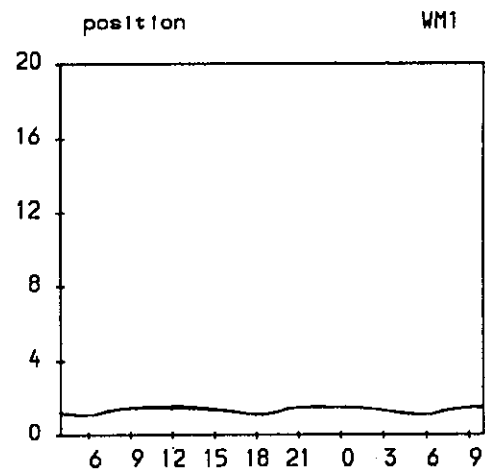
Chlorophyll (ug/l) against time

2 Layer, 100m grid 29 Nov 1993

— Full scen.

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Dry Neap Full scenario (Case 5)

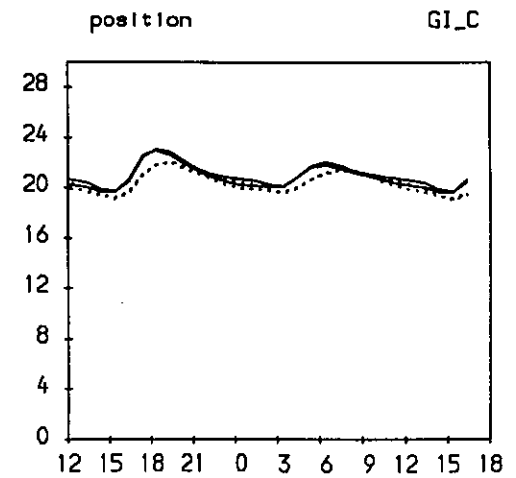
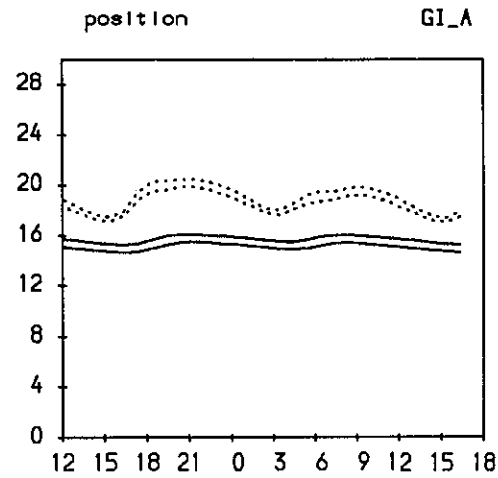
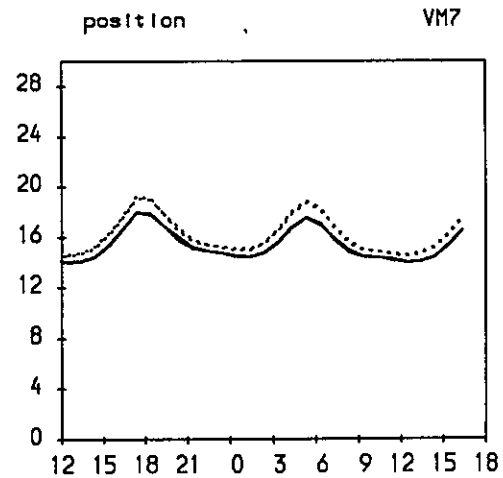
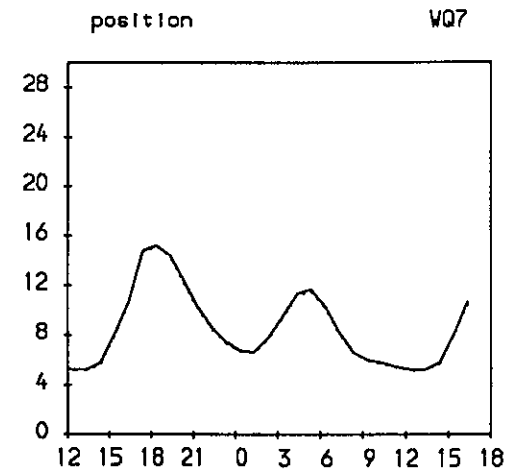
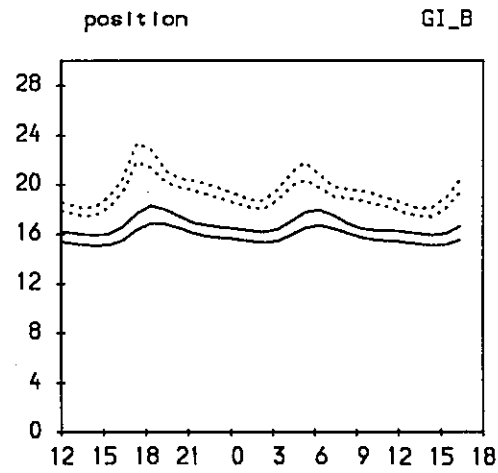
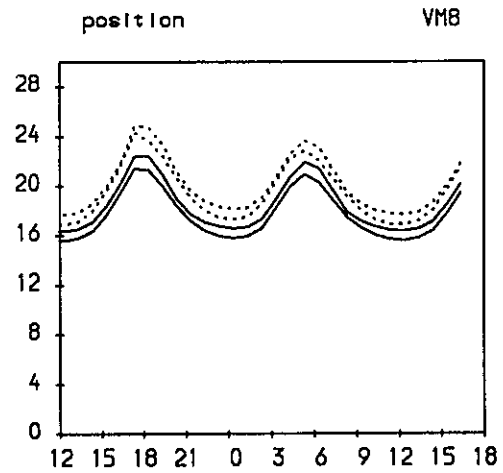
Suspended Solids (mg/L) against time

2 Layer, 100m grid 29 Nov 1993

— Full scen.

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Dry Neap Full scenario (Case 5)

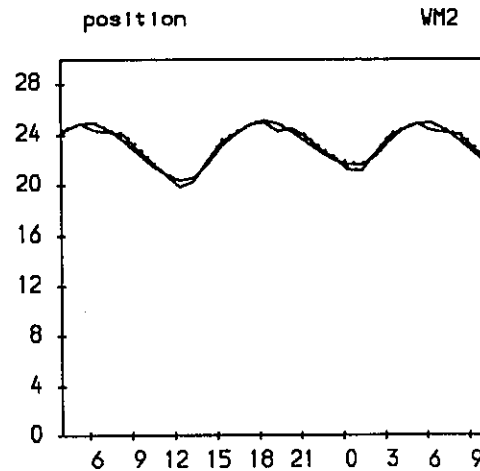
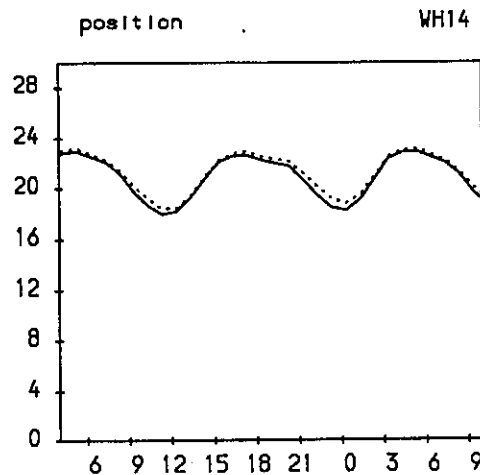
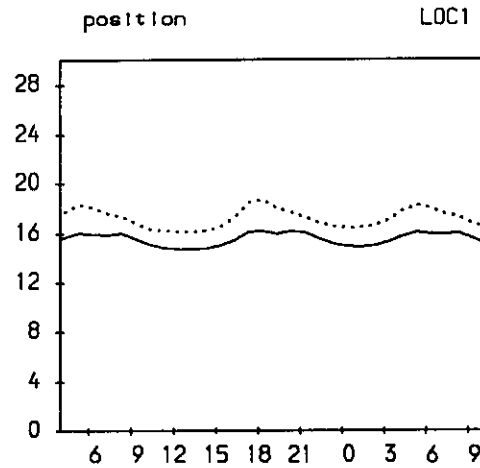
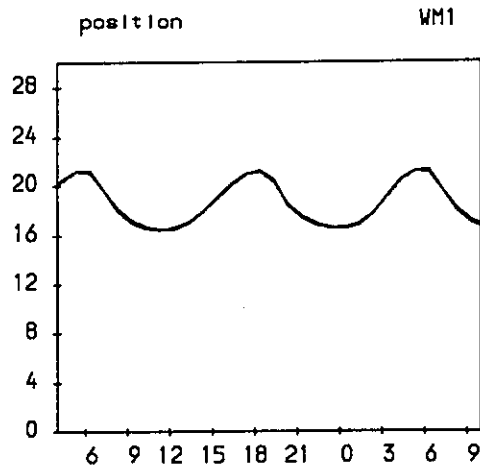
Suspended Solids (mg/L) against time

2 Layer, 100m grid 29 Nov 1993

— Full scen.

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer

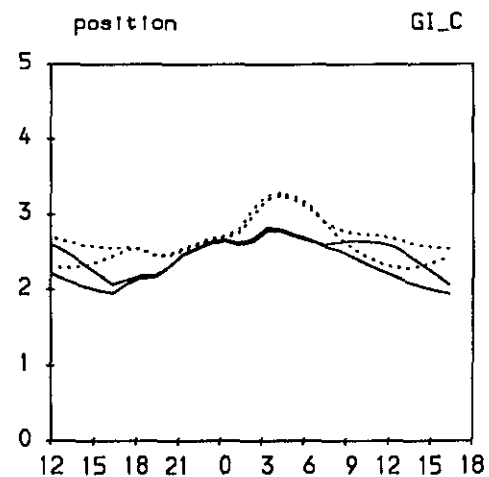
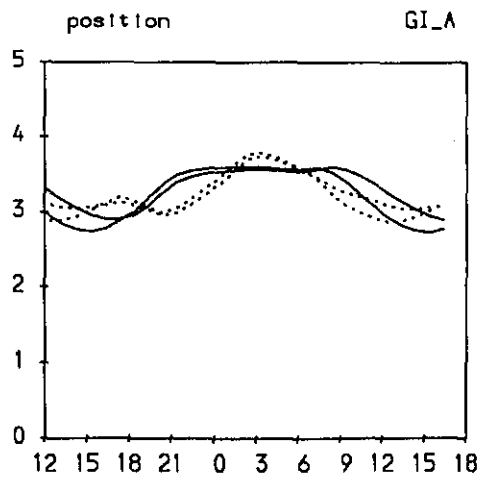
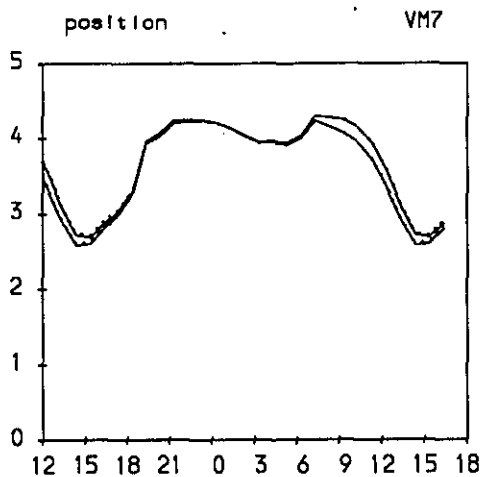
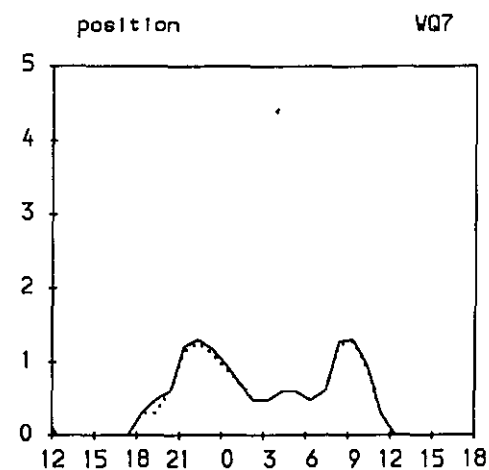
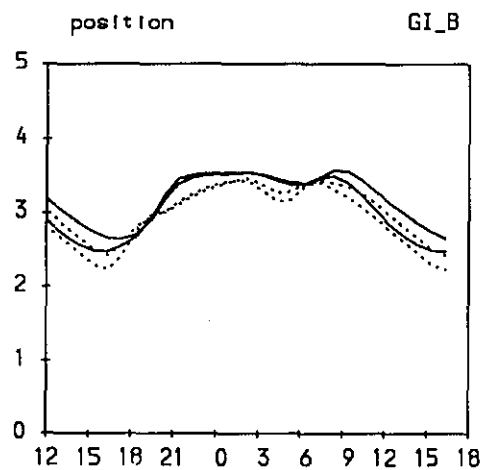
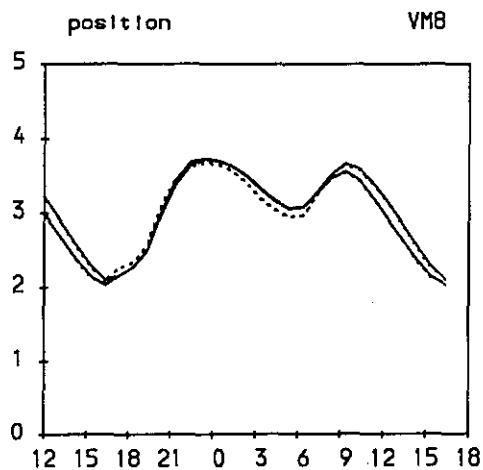


Green Island Dry Neap Full scenario (Case 5)

E.Coli (no/100ml) against time (log to base 10 on y-axis)

2 Layer, 100m grid 29 Nov 1993 — Full scen. Baseline

Observed symbols: * Upper layer, Δ Lower layer

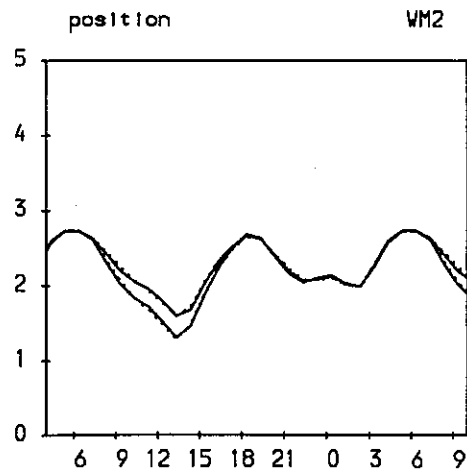
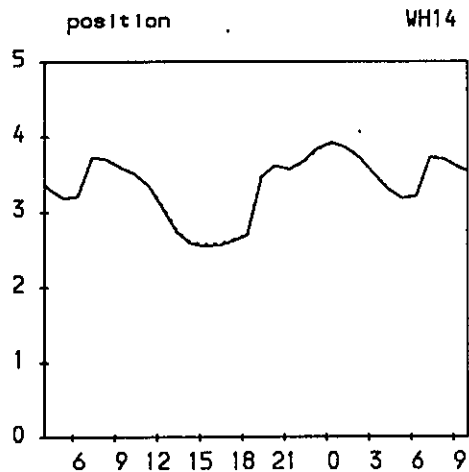
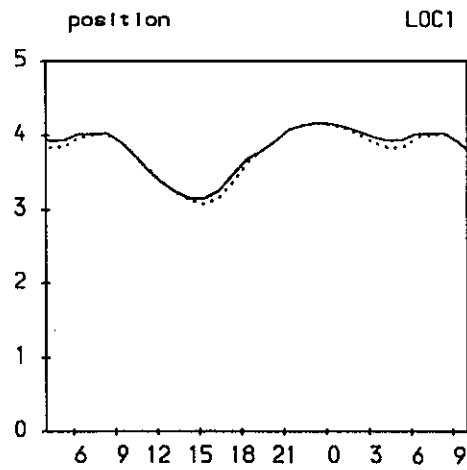
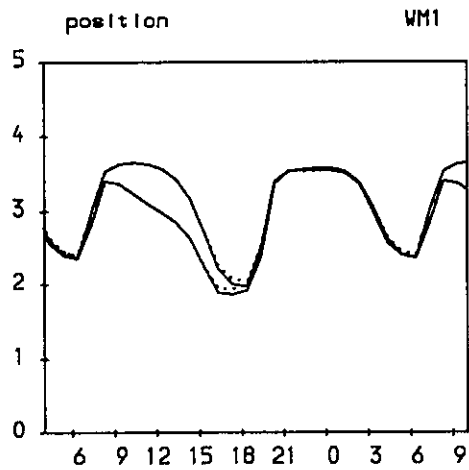


Green Island Dry Neap Full scenario (Case 5)

E.Coli (no/100ml) against time (log to base 10 on y-axis)

2 Layer, 100m grid 29 Nov 1993 — Full scen. Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Dry Neap Full scenario (Case 5)

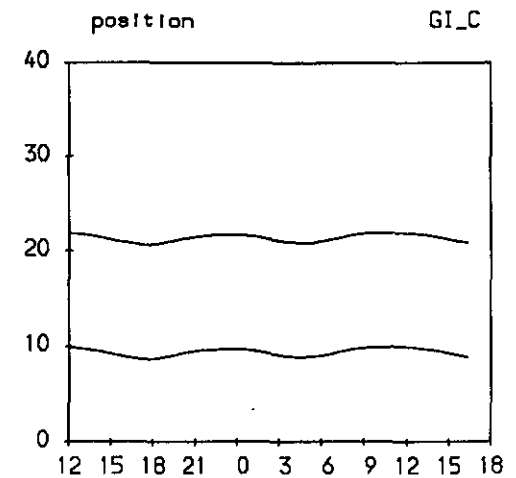
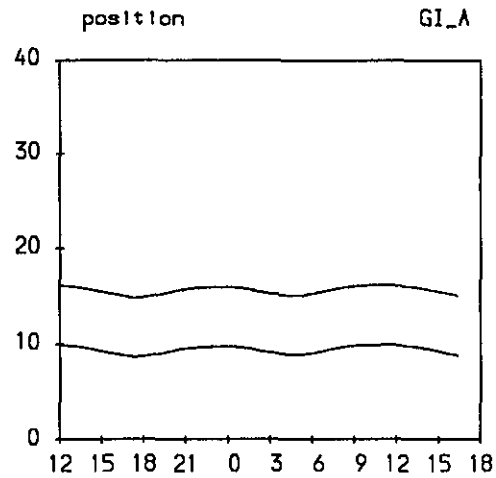
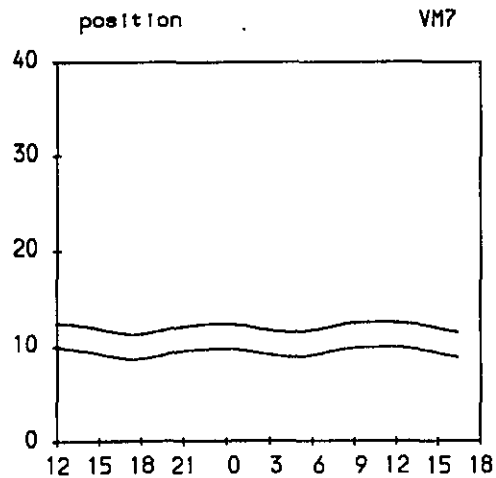
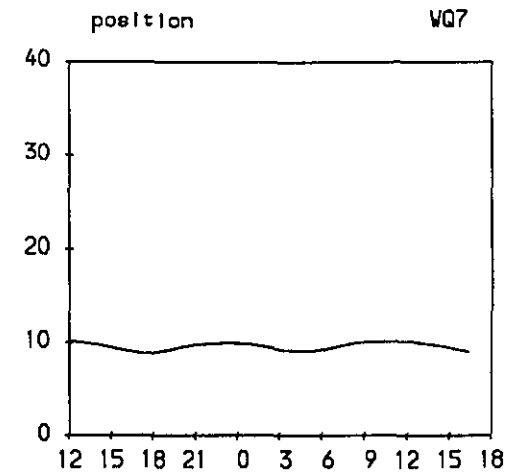
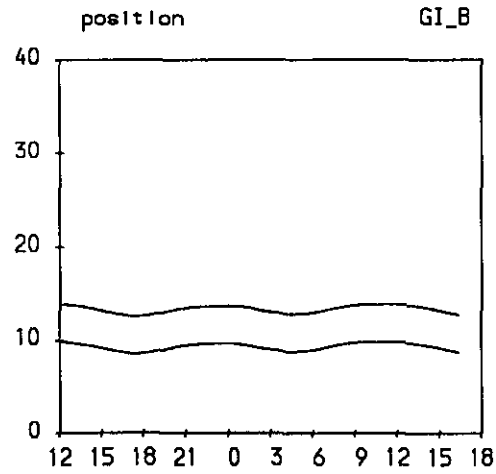
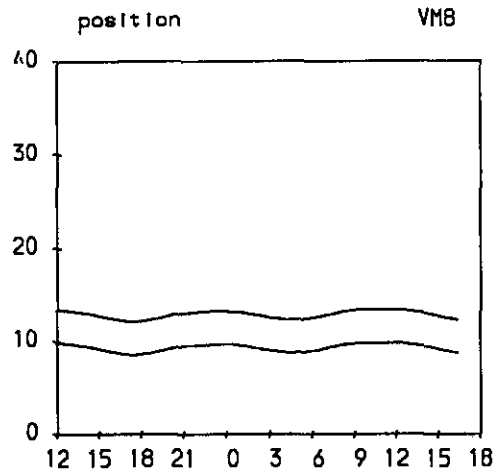
Layer Depth (metres) against time

2 Layer, 100m grid 29 Nov 1993

— Full scen.

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Dry Neap Full scenario (Case 5)

Layer Depth (metres) against time

2 Layer, 100m grid 29 Nov 1993

— Full scen.

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer

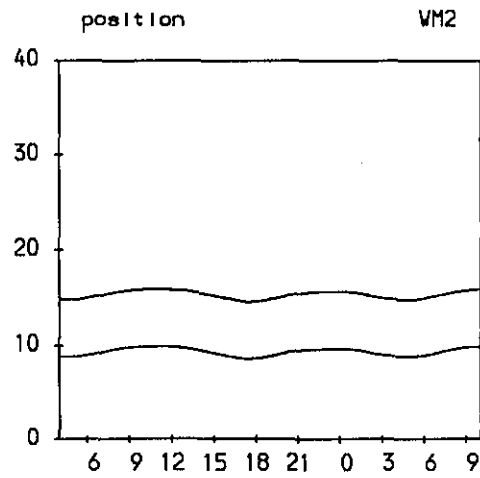
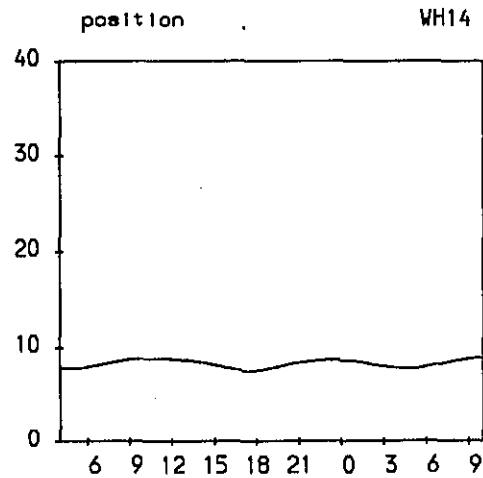
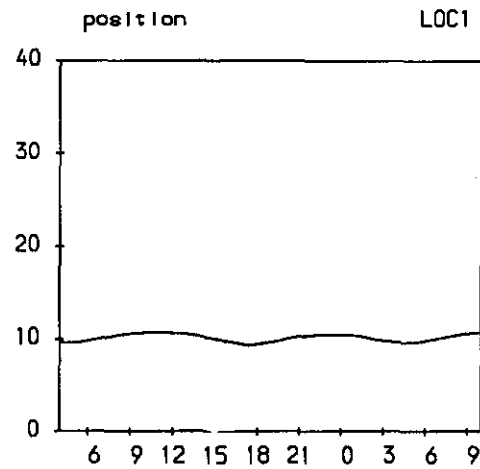
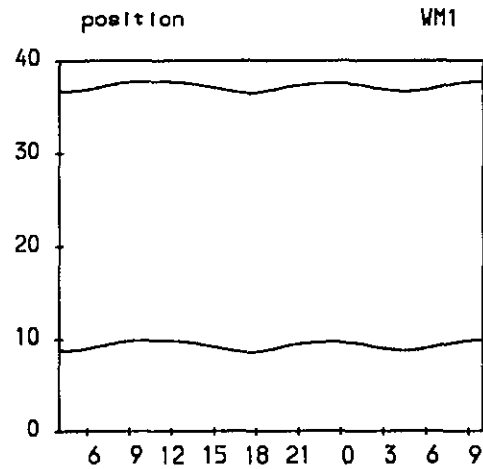


FIGURE 12

CASE 5 (FULL SCENARIO) : DRY SEASON SPRING TIDE

Green Island Dry Spring Full scenario (Case 5)

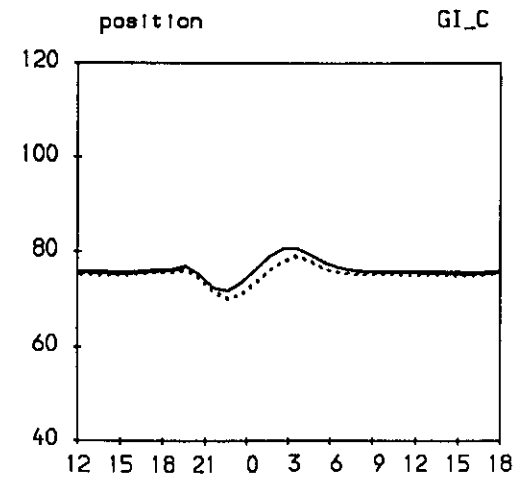
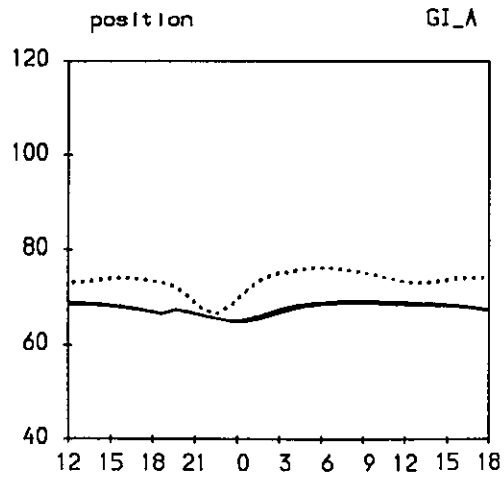
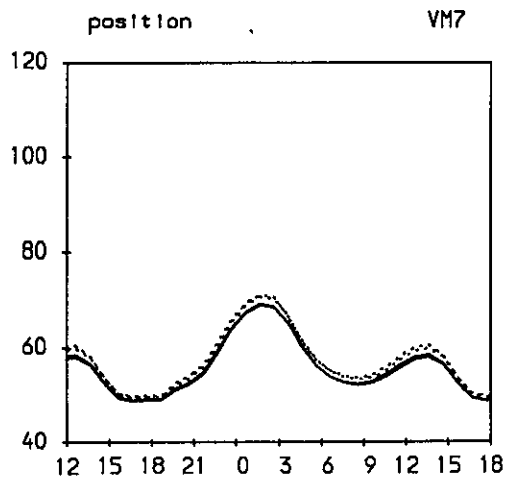
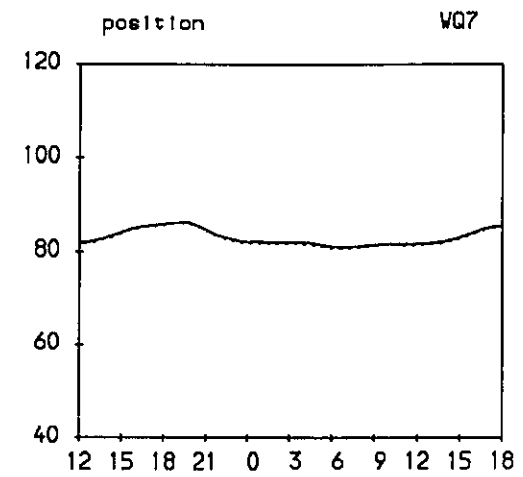
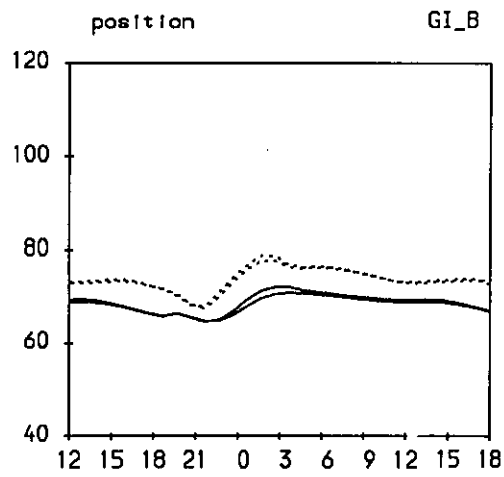
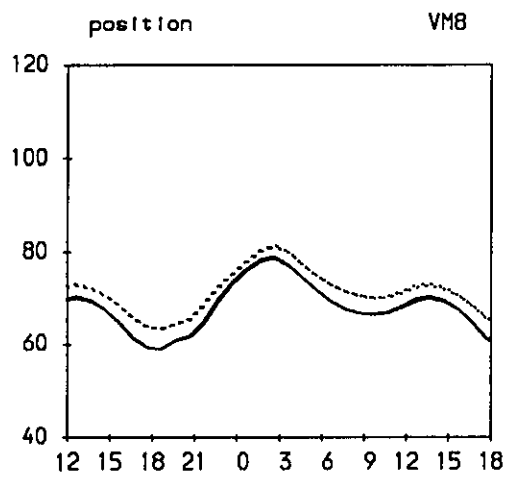
Dissolved Oxygen (% saturation) against time

2 Layer, 100m grid 29 Nov 1993

— Full scen.

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Dry Spring Full scenario (Case 5)

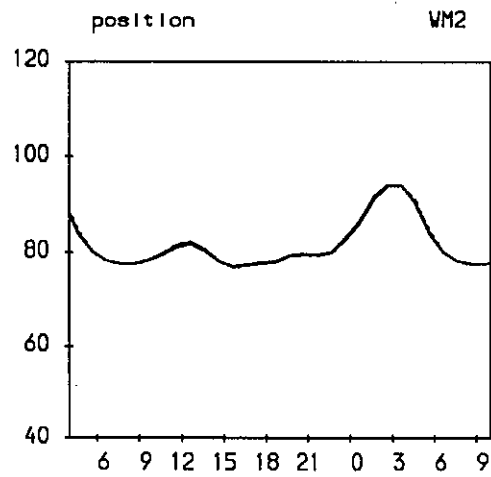
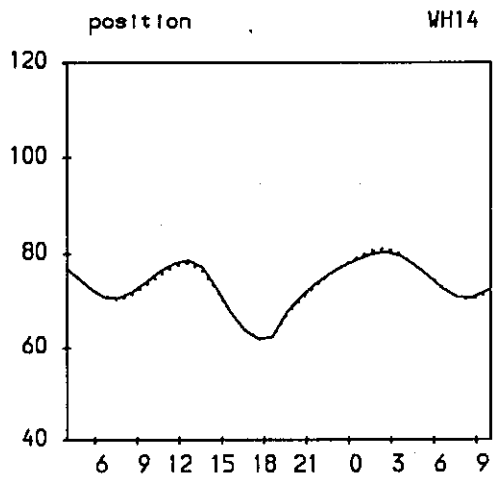
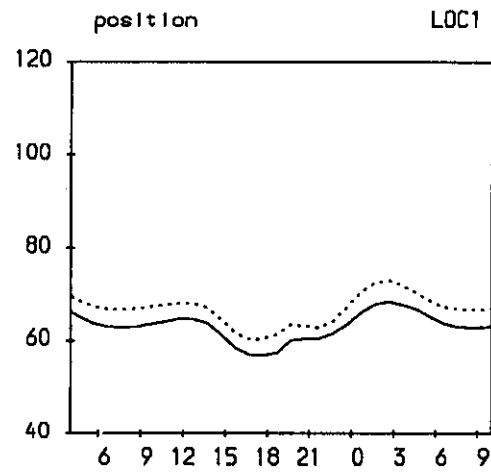
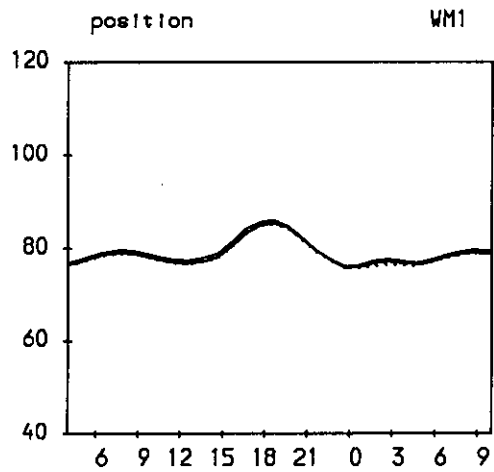
Dissolved Oxygen (% saturation) against time

2 Layer, 100m grid 29 Nov 1993

— Full scen.

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Dry Spring Full scenario (Case 5)

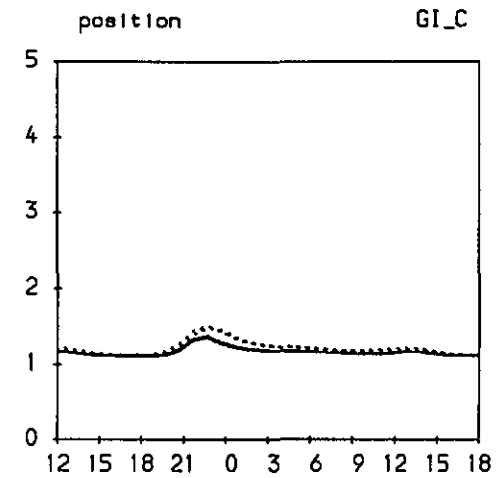
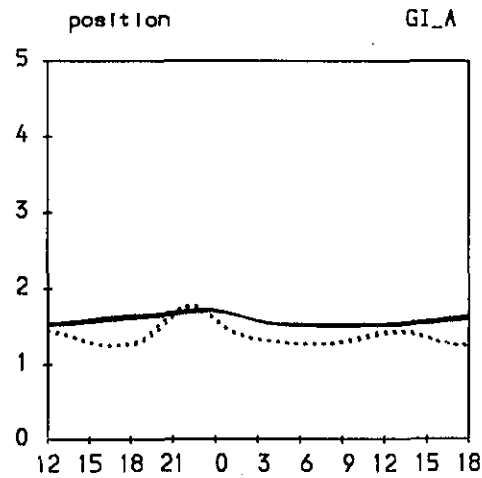
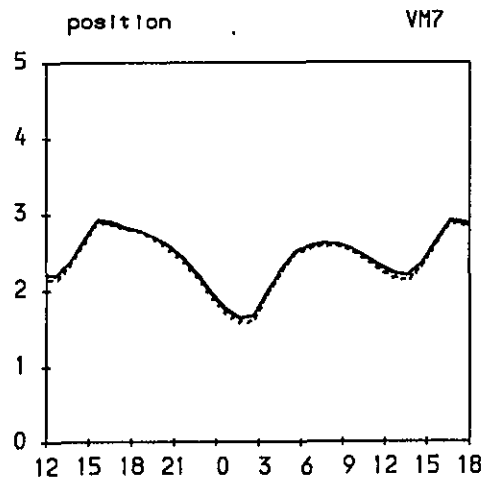
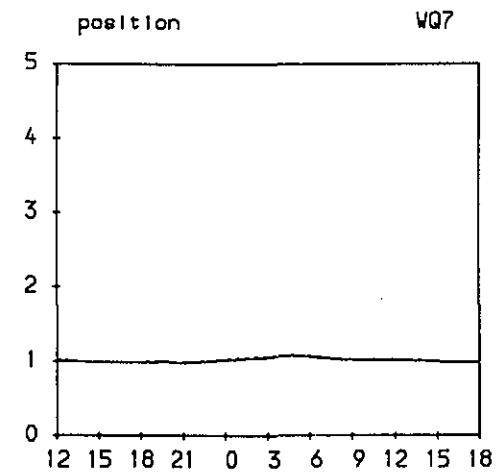
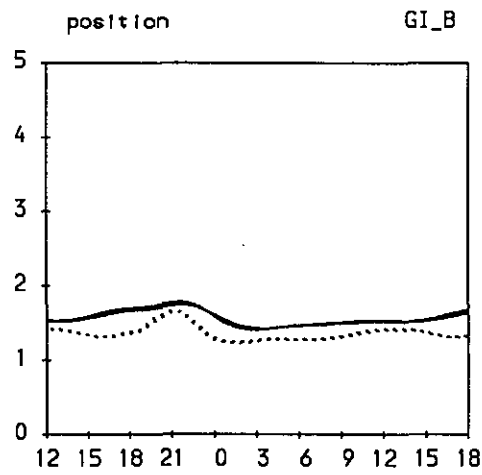
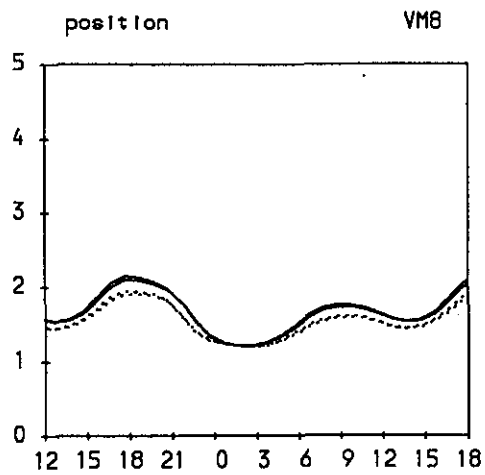
BOD (mg/l) against time

2 Layer, 100m grid 29 Nov 1993

— Full scen.

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Dry Spring Full scenario (Case 5)

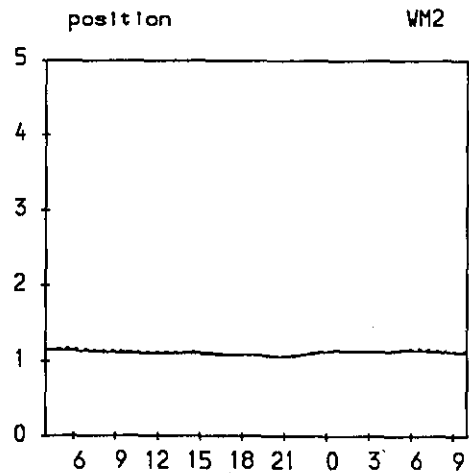
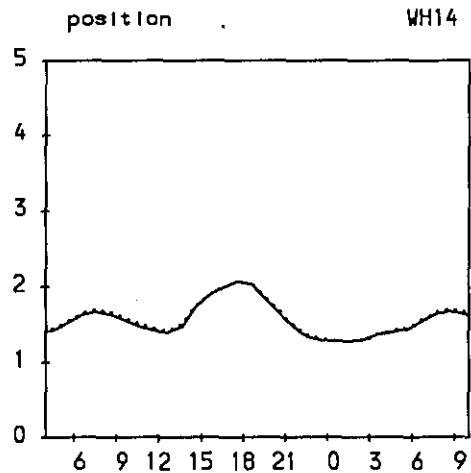
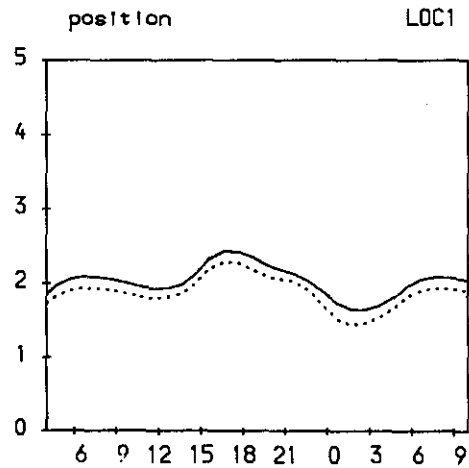
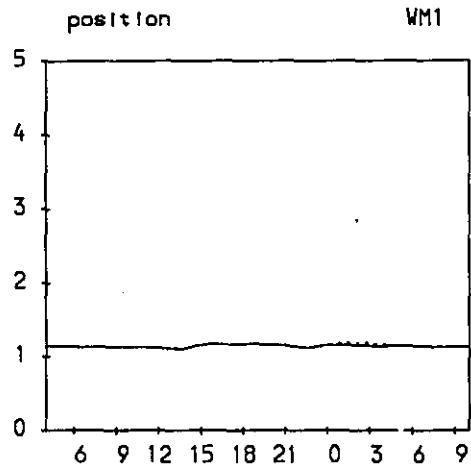
BOD (mg/L) against time

2 Layer, 100m grid 29 Nov 1993

— Full scen.

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Dry Spring Full scenario (Case 5)

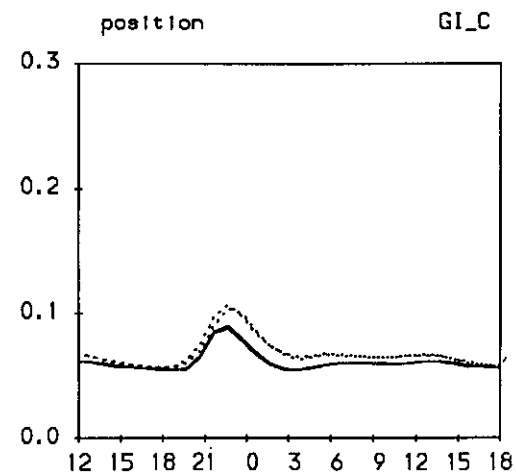
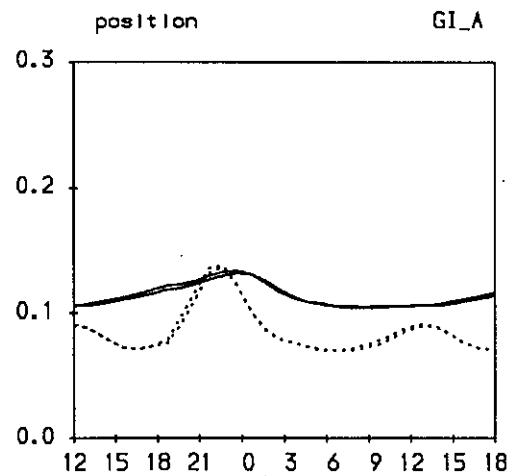
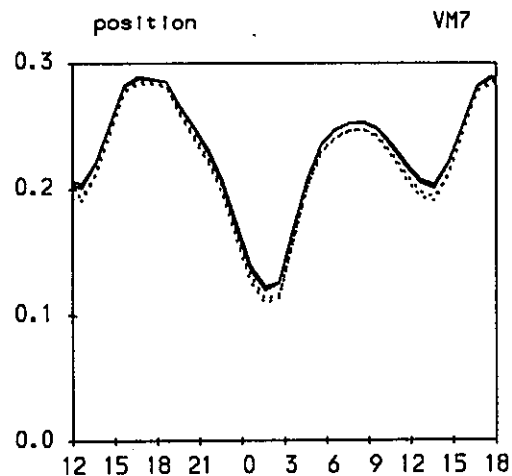
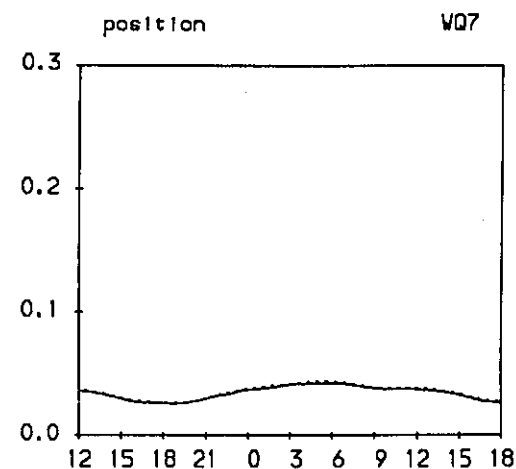
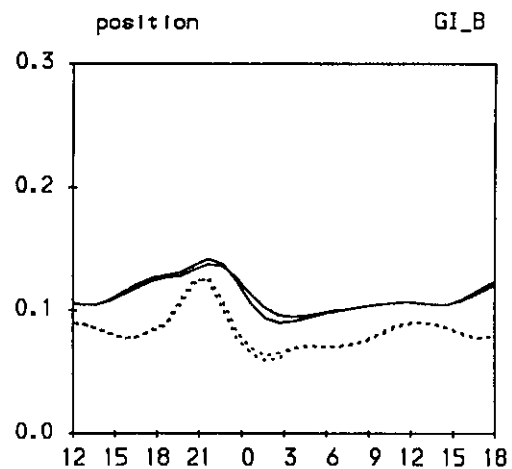
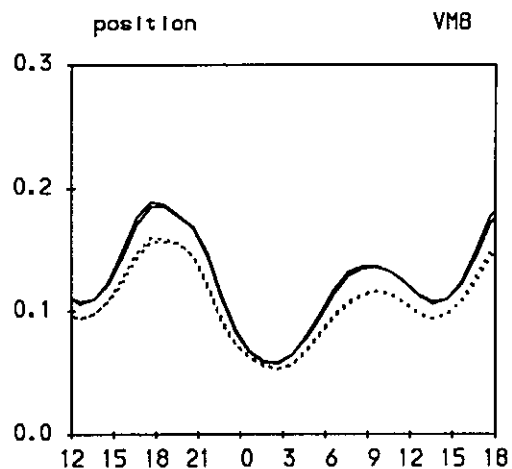
Ammoniacal Nitrogen (mg N/l) against time

2 Layer, 100m grid 29 Nov 1993

— Full scen.

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Dry Spring Full scenario (Case 5)

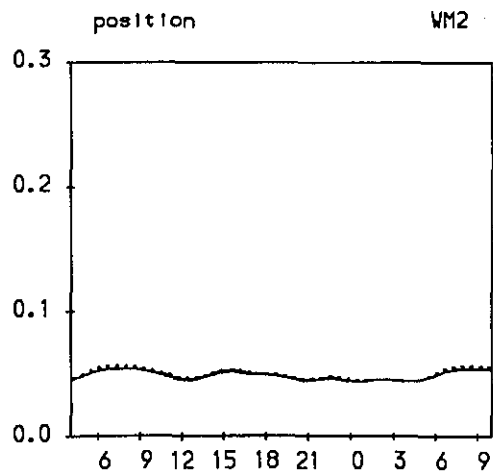
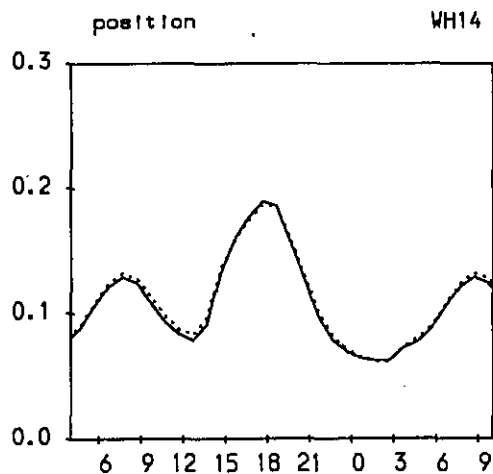
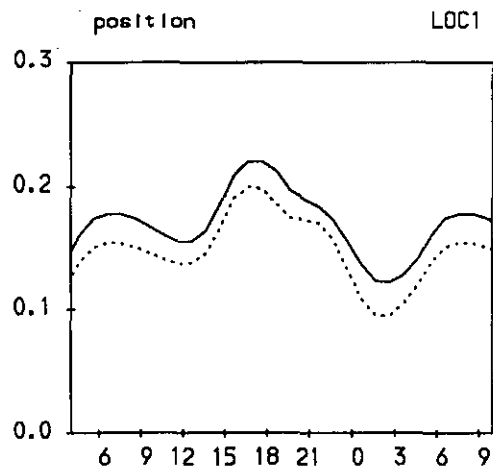
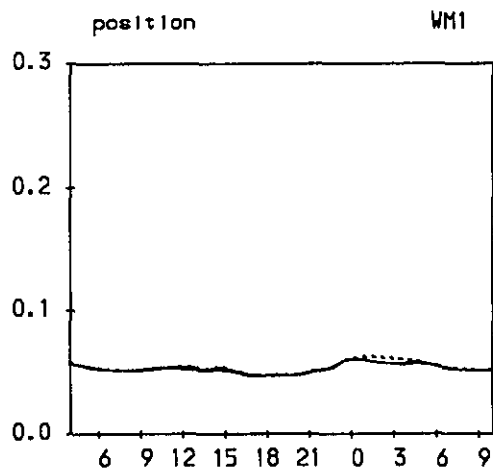
Ammoniacal Nitrogen (mg N/L) against time

2 Layer, 100m grid 29 Nov 1993

— Full scen.

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Dry Spring Full scenario (Case 5)

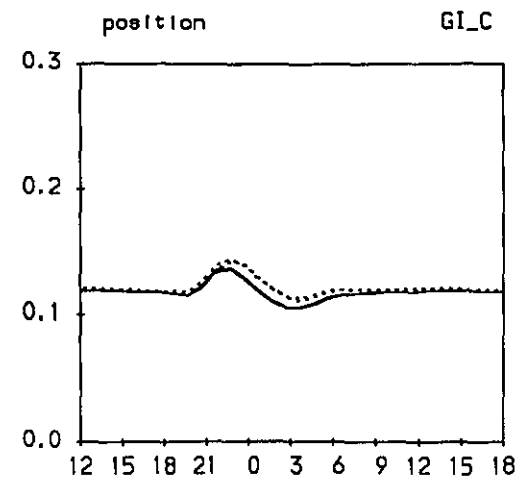
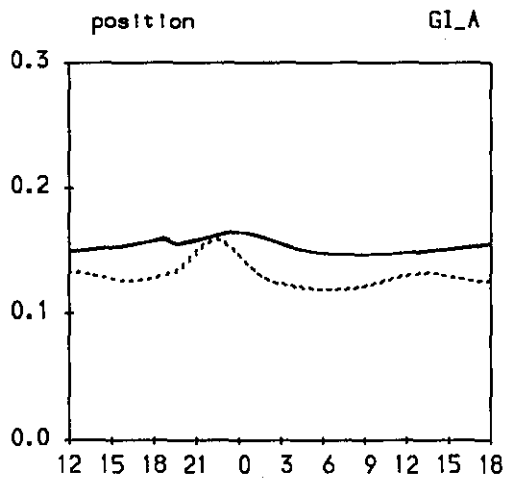
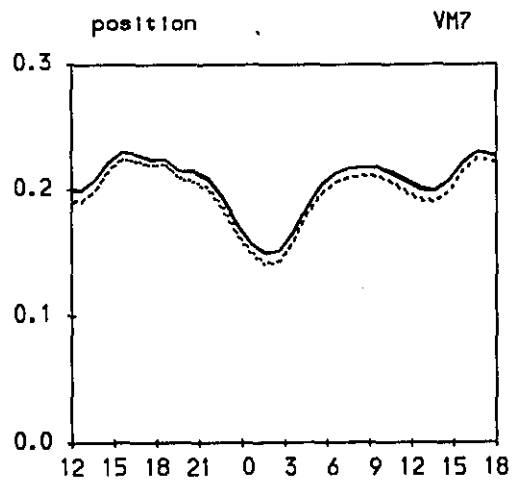
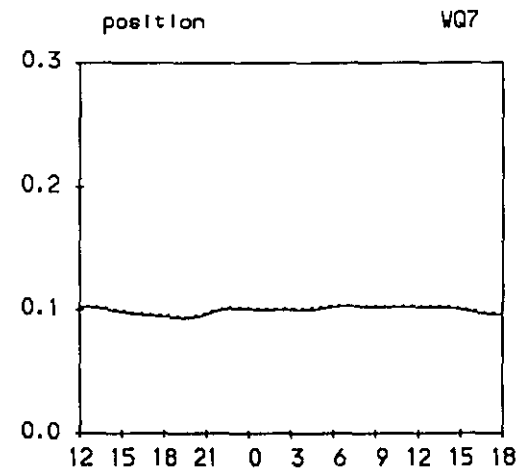
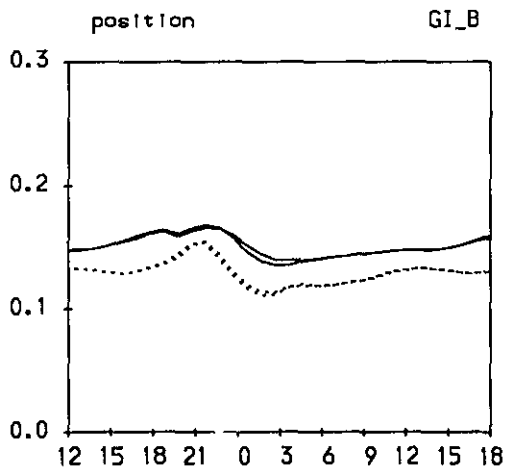
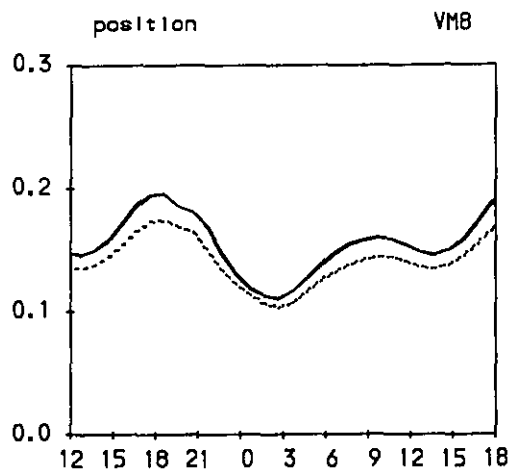
Oxidised Nitrogen (mg N/L) against time

2 Layer, 100m grid 29 Nov 1993

— Full scen.

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Dry Spring Full scenario (Case 5)

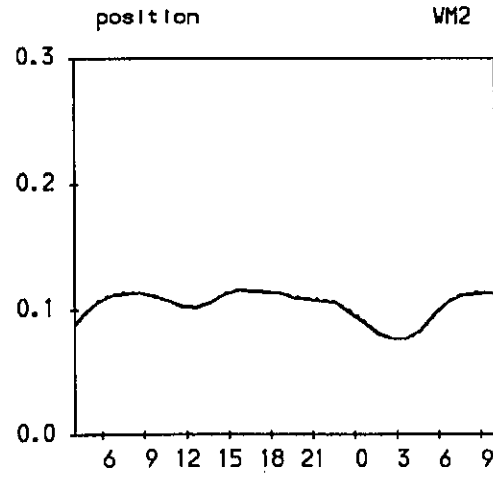
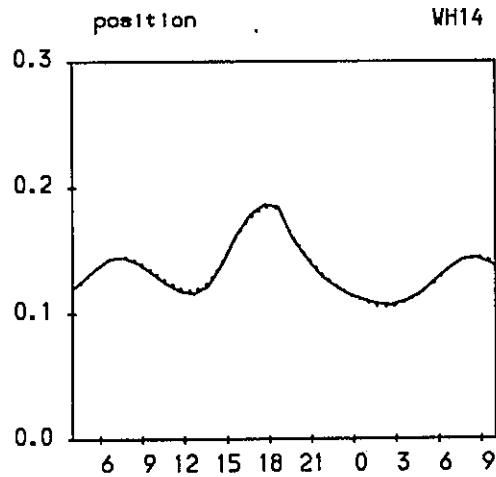
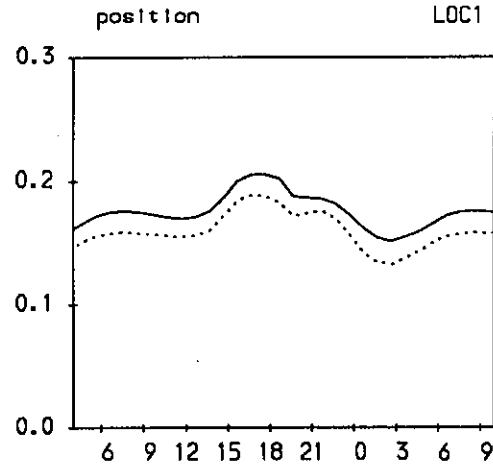
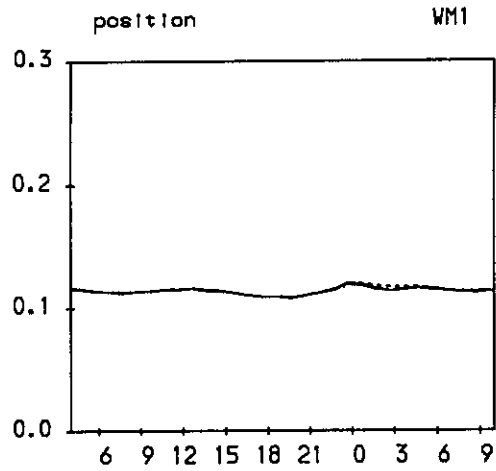
Oxidised Nitrogen (mg N/L) against time

2 Layer, 100m grid 29 Nov 1993

— Full scen.

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Dry Spring Full scenario (Case 5)

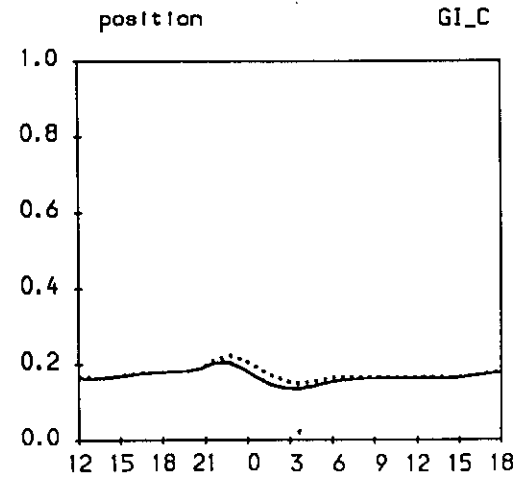
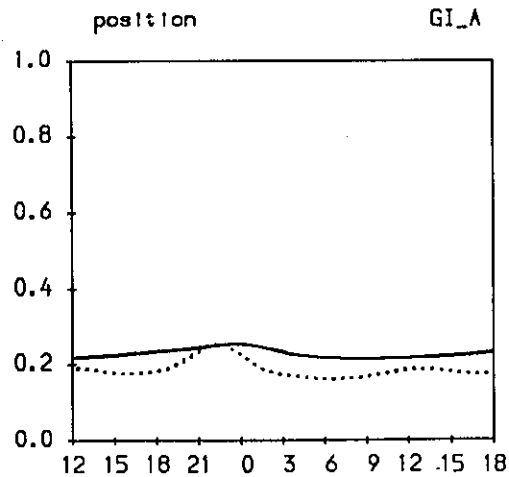
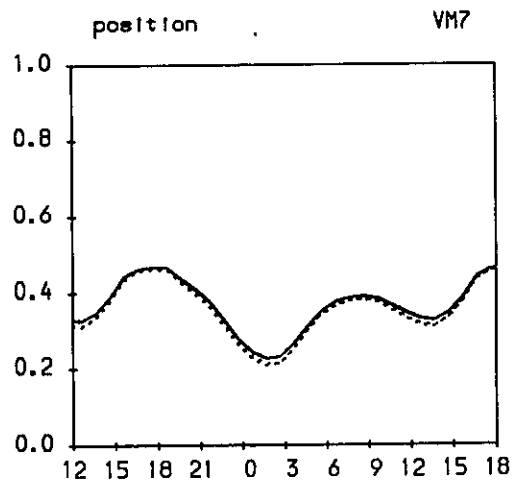
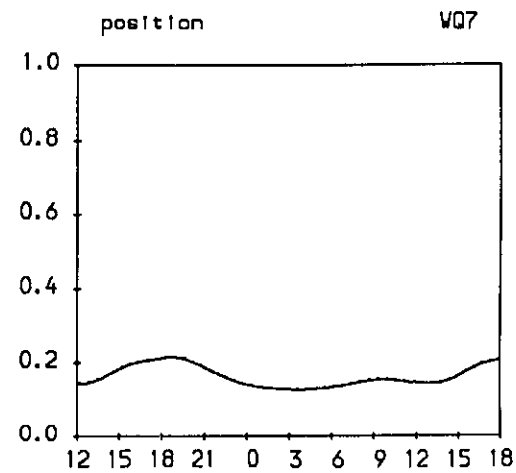
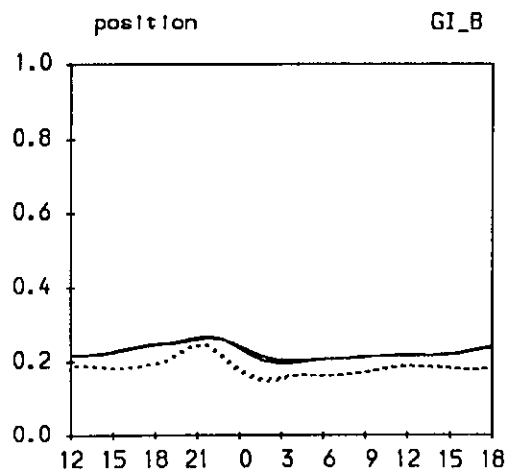
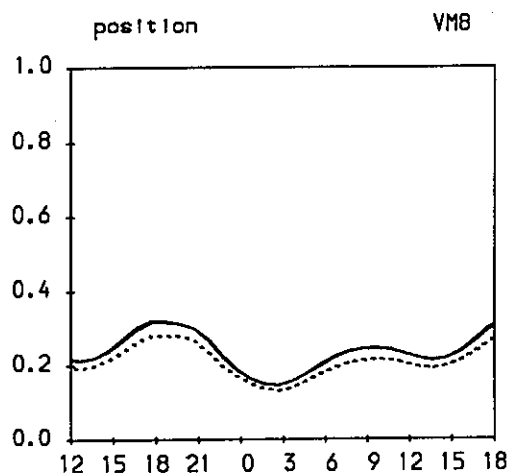
Organic Nitrogen (mg N/L) against time

2 Layer, 100m grid 29 Nov 1993

— Full scen.

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Dry Spring Full scenario (Case 5)

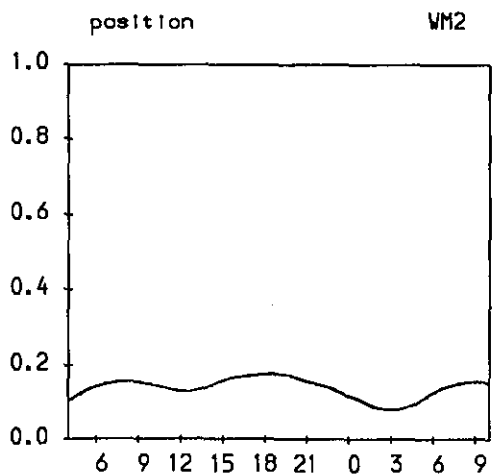
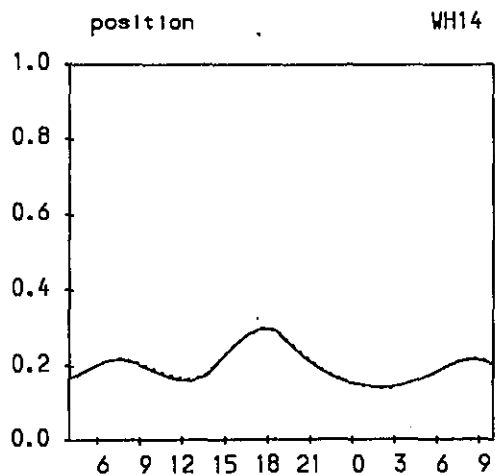
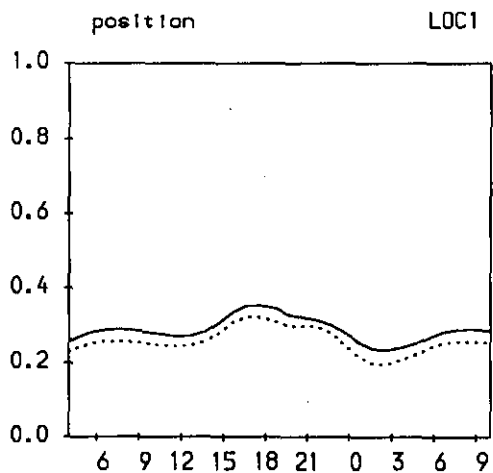
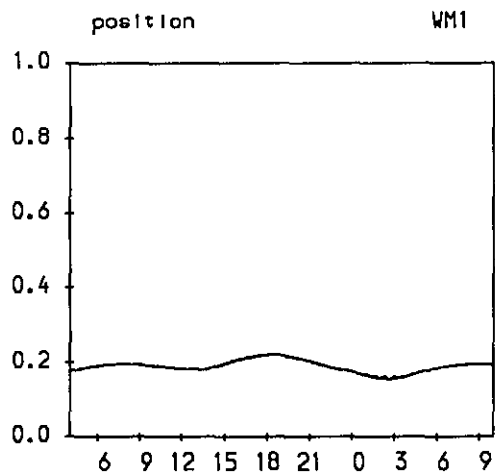
Organic Nitrogen (mg N/L) against time

2 Layer, 100m grid 29 Nov 1993

— Full scen.

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Dry Spring Full scenario (Case 5)

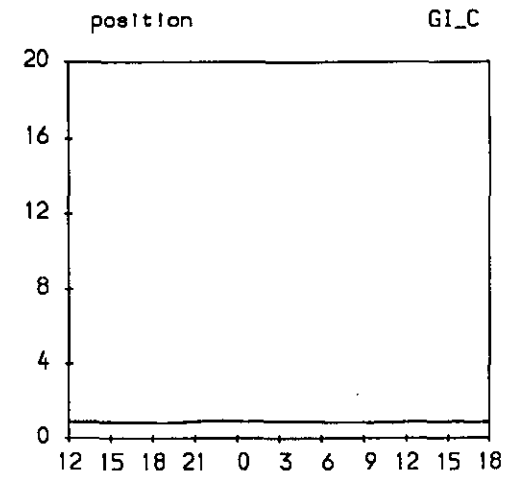
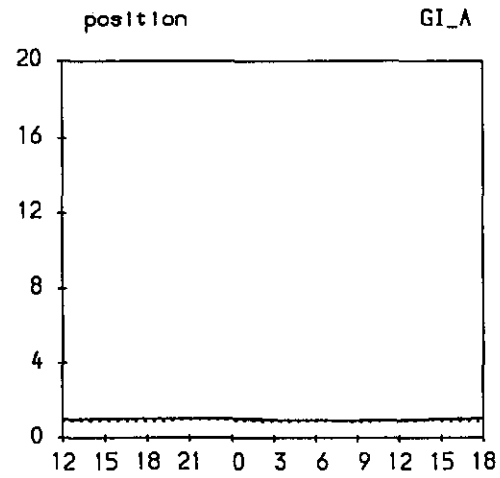
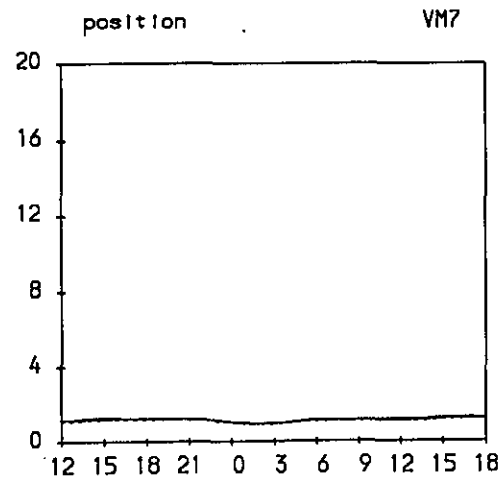
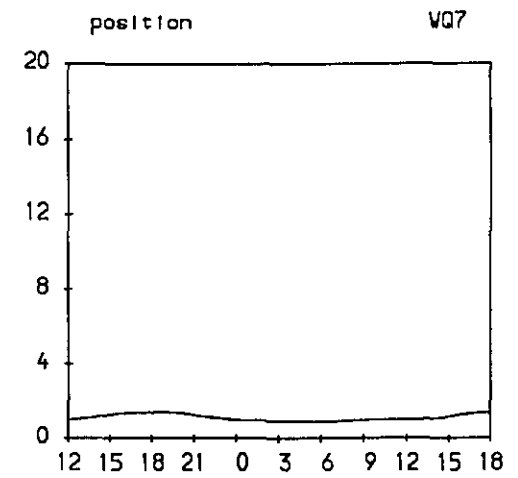
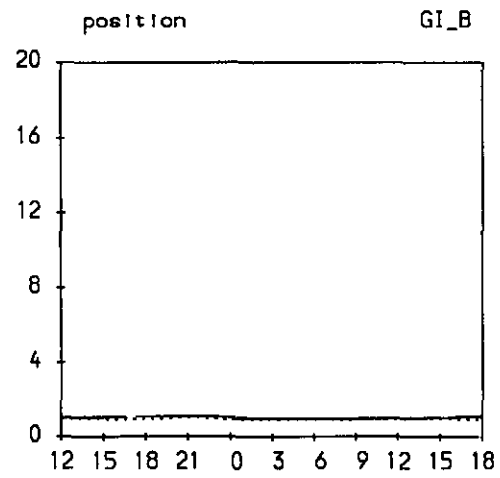
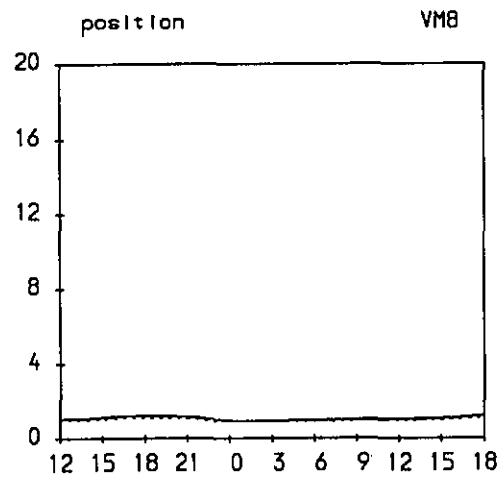
Chlorophyll (ug/l) against time

2 Layer, 100m grid 29 Nov 1993

— Full scen.

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Dry Spring Full scenario (Case 5)

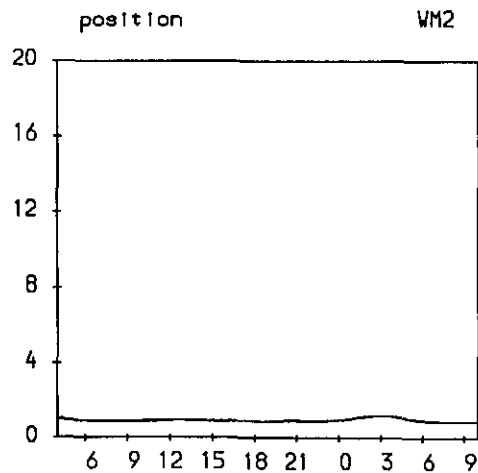
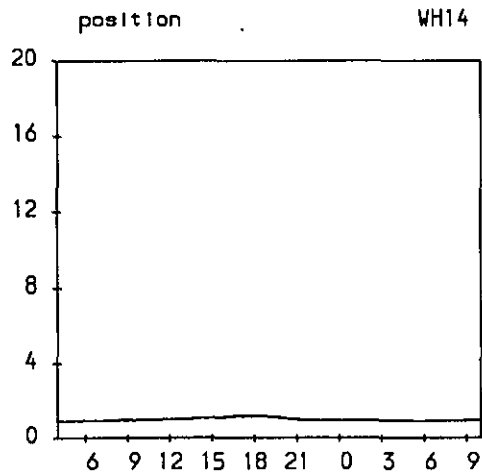
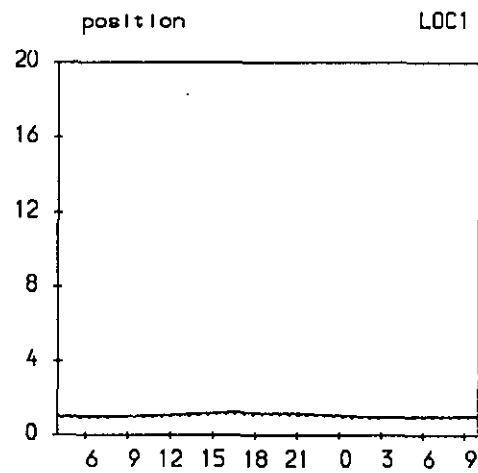
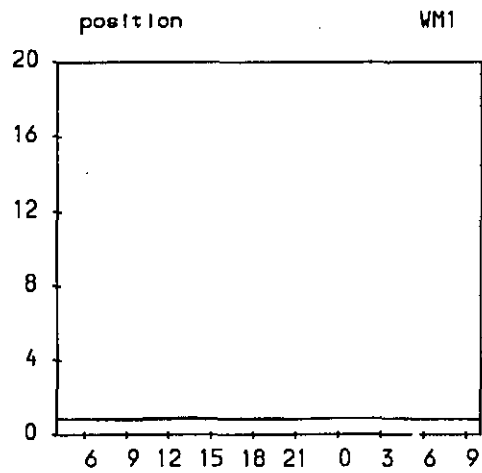
Chlorophyll (ug/l) against time

2 Layer, 100m grid 29 Nov 1993

— Full scen.

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Dry Spring Full scenario (Case 5)

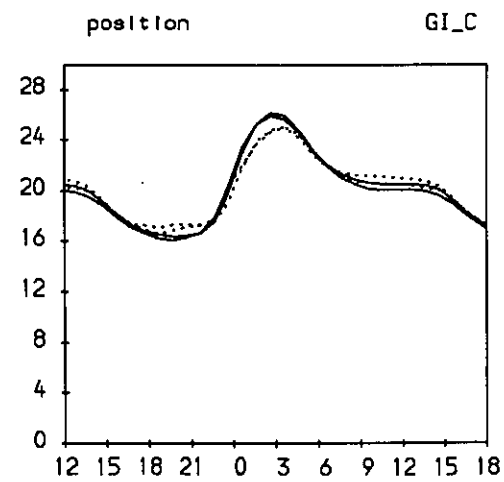
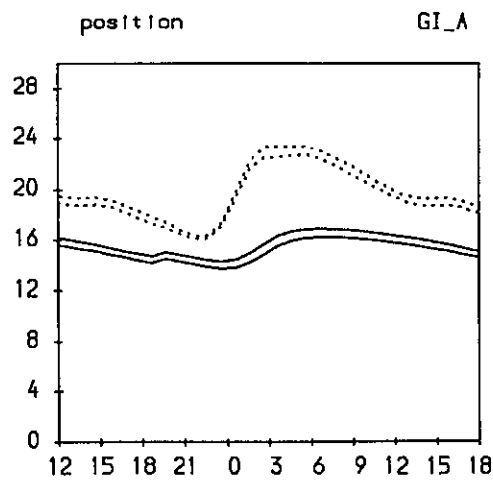
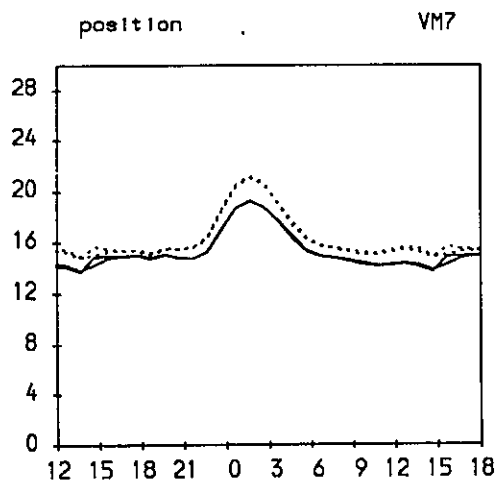
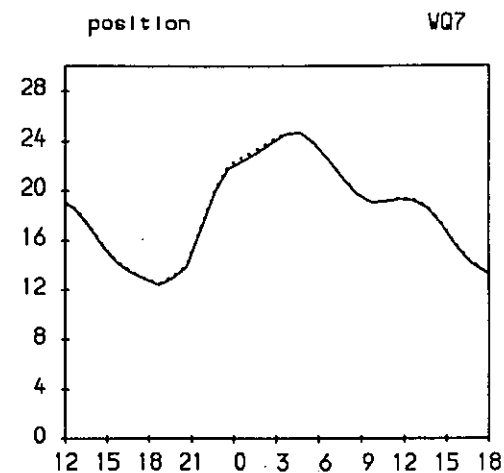
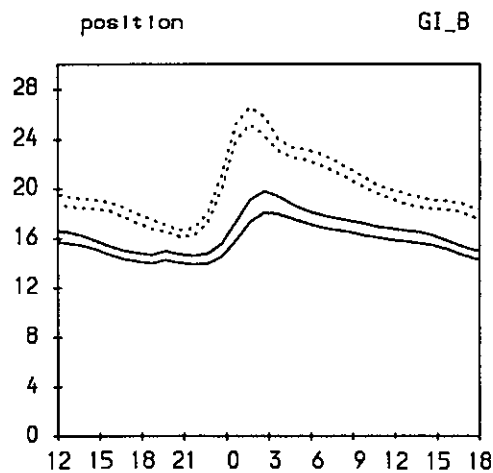
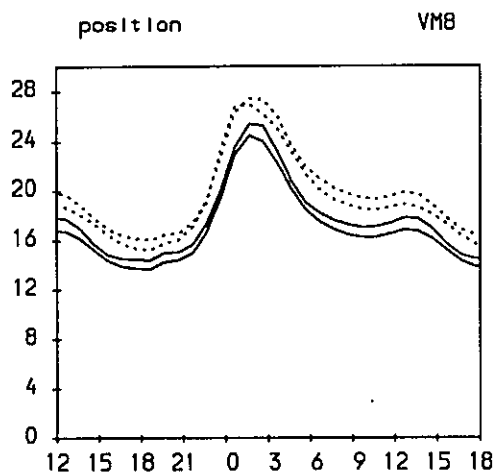
Suspended Solids (mg/L) against time

2 Layer, 100m grid 29 Nov 1993

— Full scen.

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Dry Spring Full scenario (Case 5)

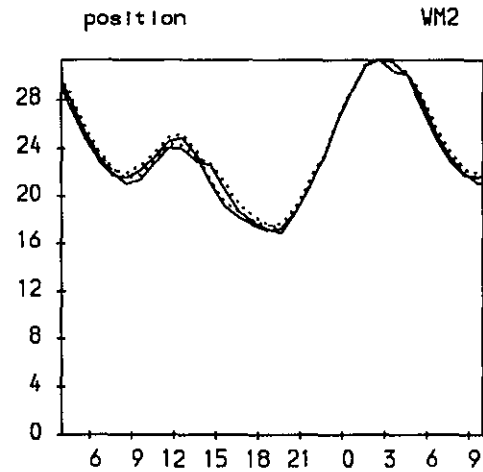
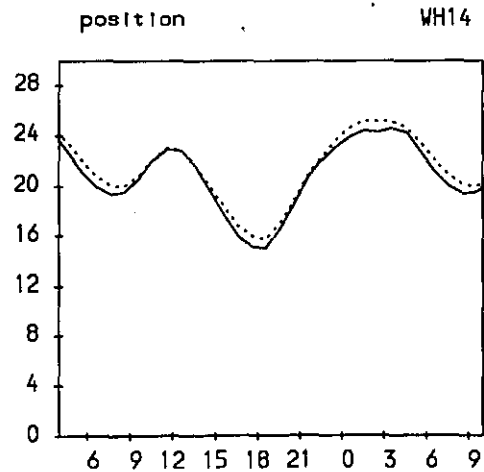
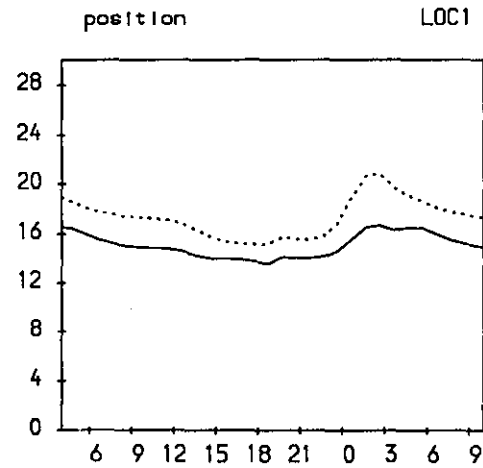
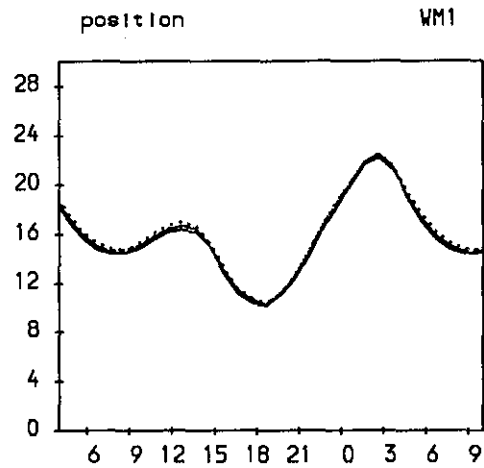
Suspended Solids (mg/l) against time

2 Layer, 100m grid 29 Nov 1993

— Full scen.

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer

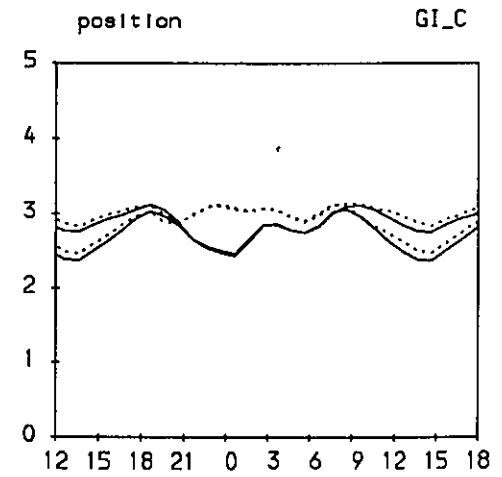
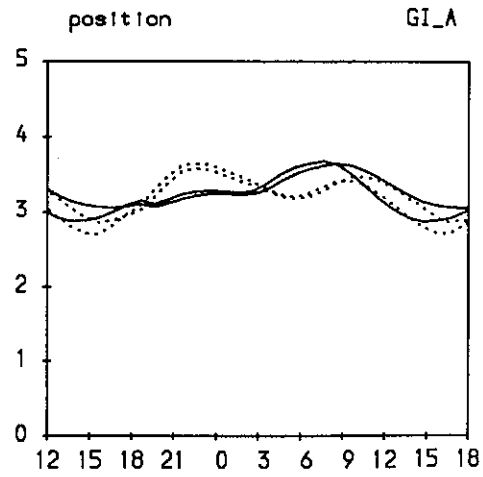
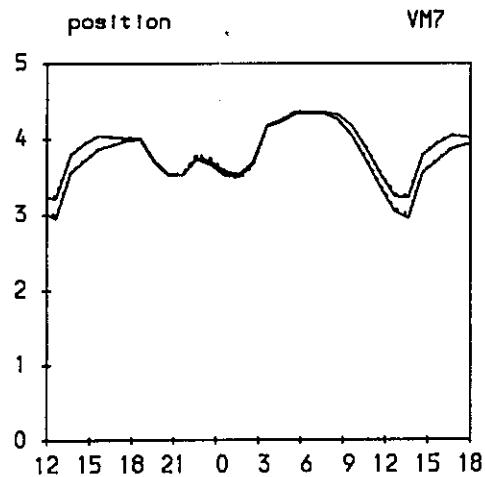
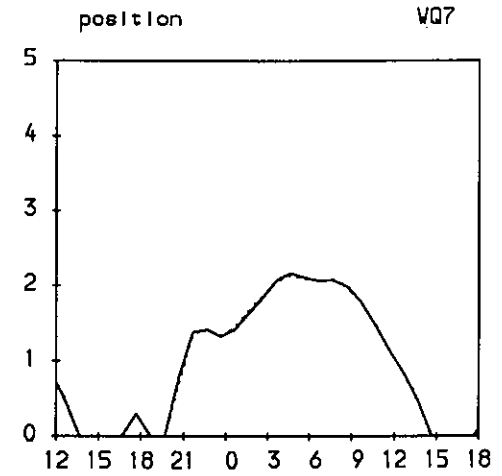
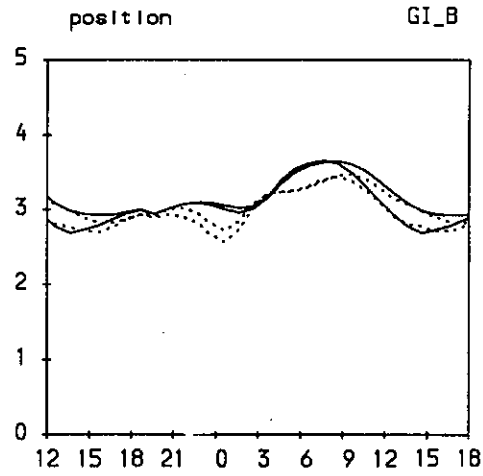
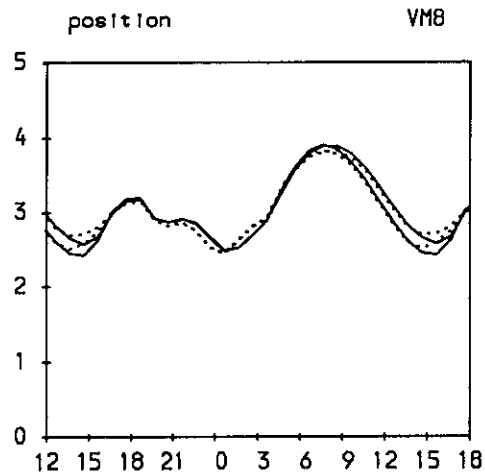


Green Island Dry Spring Full scenario (Case 5)

E.Coli (no/100ml) against time (log to base 10 on y-axis)

2 Layer, 100m grid 29 Nov 1993 — Full scen. Baseline

Observed symbols: * Upper layer, Δ Lower layer

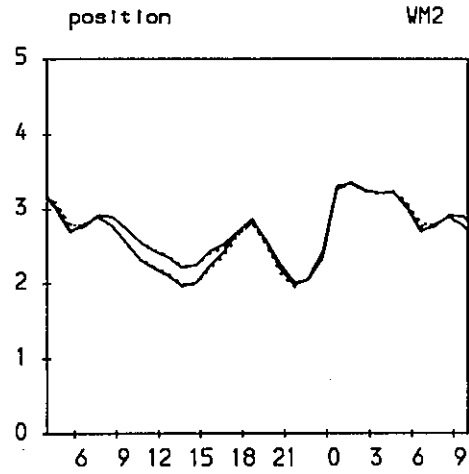
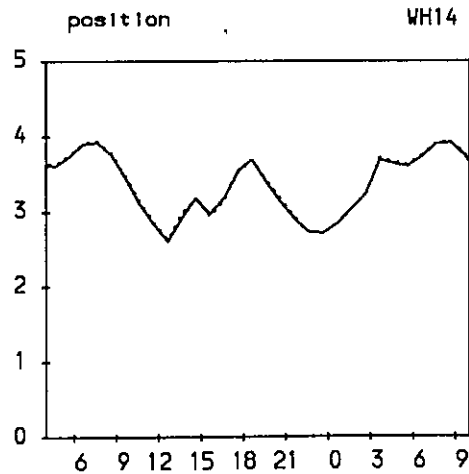
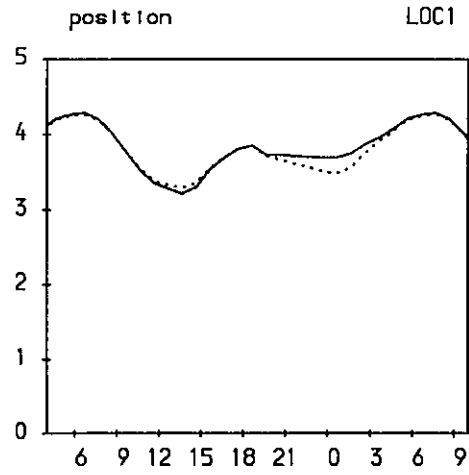
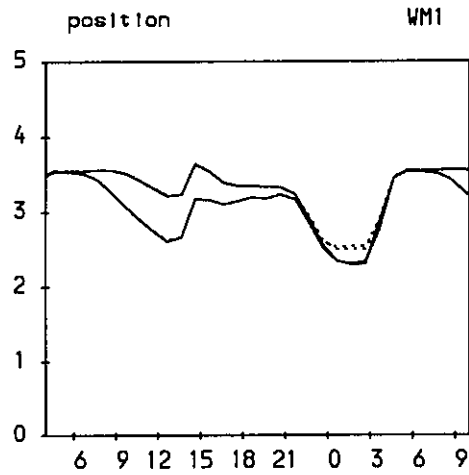


Green Island Dry Spring Full scenario (Case 5)

E.Coli (no/100ml) against time (log to base 10 on y-axis)

2 Layer, 100m grid 29 Nov 1993 — Full scen. Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Dry Spring Full scenario (Case 5)

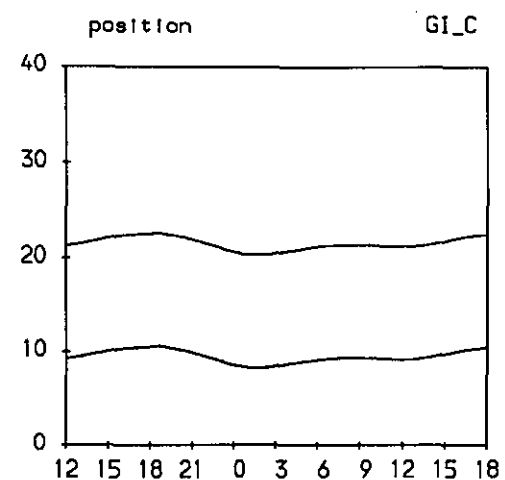
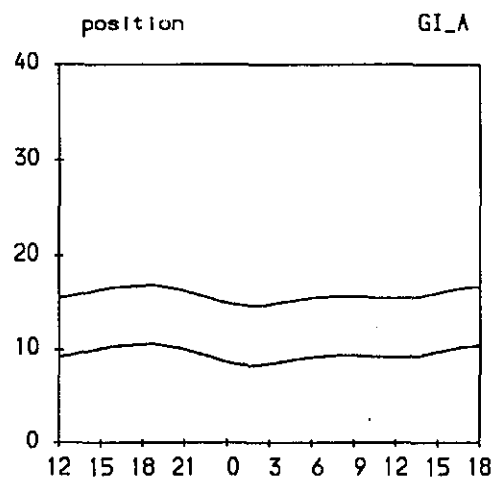
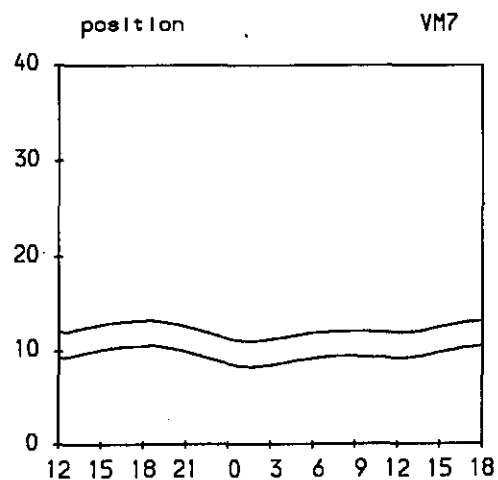
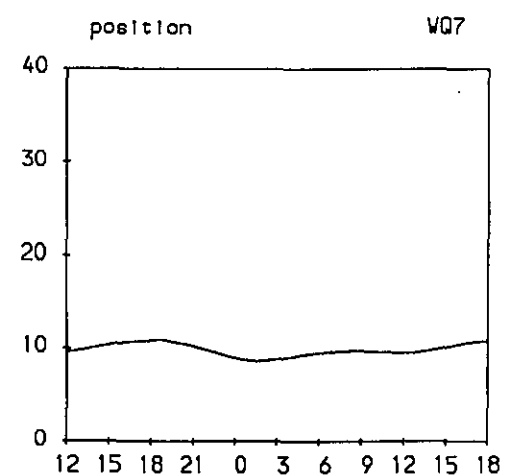
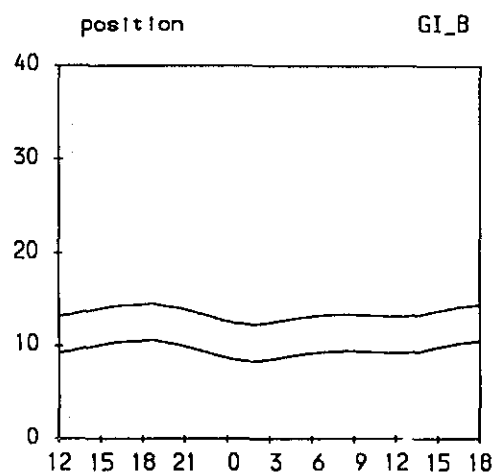
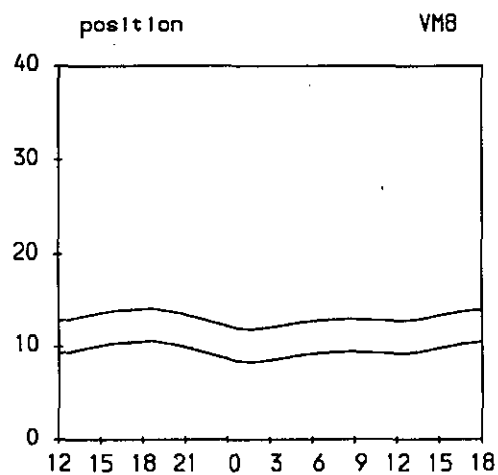
Layer Depth (metres) against time

2 Layer, 100m grid 29 Nov 1993

— Full scen.

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Dry Spring Full scenario (Case 5)

Layer Depth (metres) against time

2 Layer, 100m grid 29 Nov 1993

— Full scen.

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer

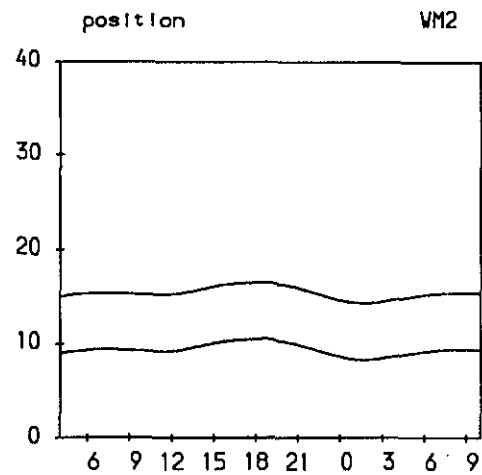
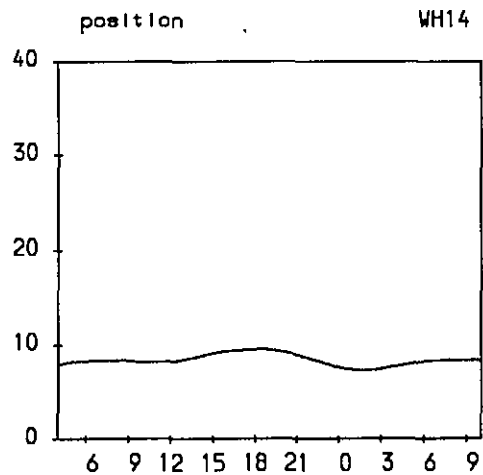
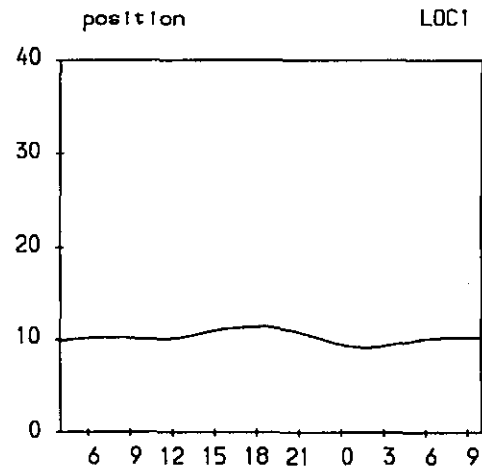
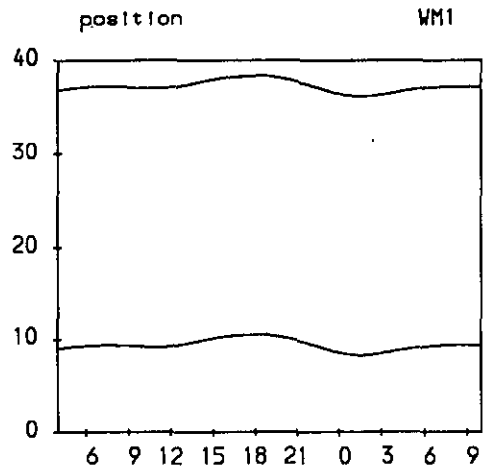


FIGURE 13

CASE 5 (FULL SCENARIO) : WET' SEASON NEAP TIDE

Green Island. Wet Neap Full scenario (Case 5)

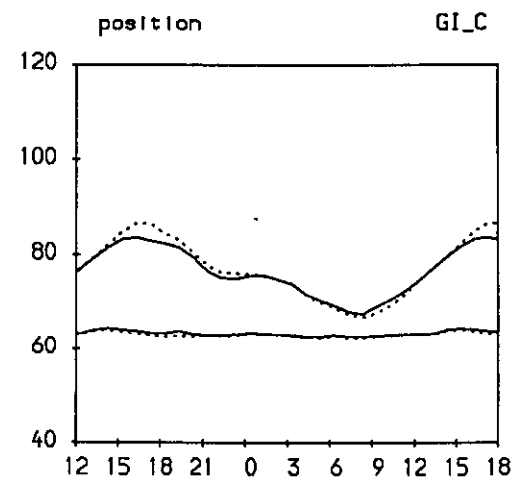
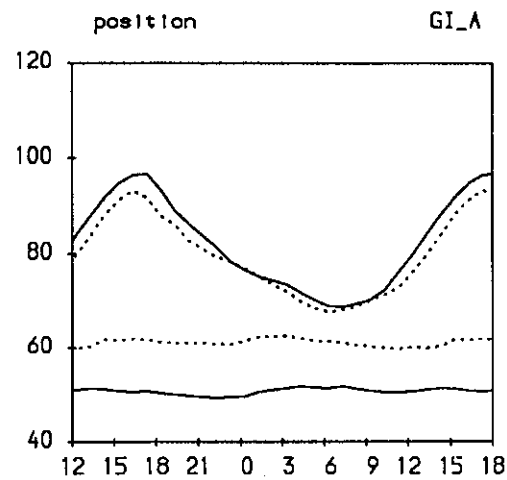
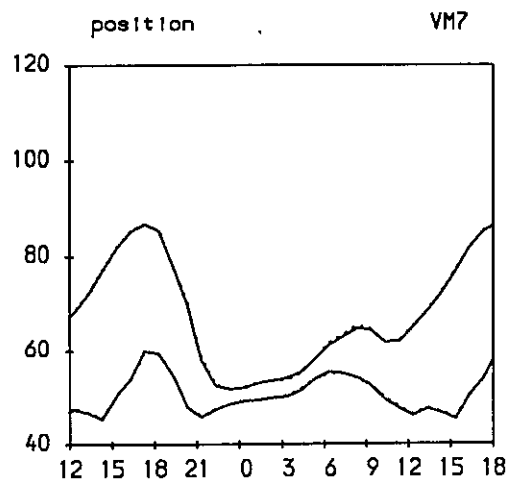
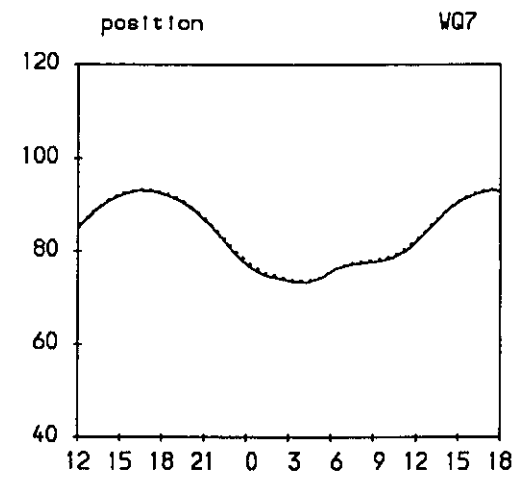
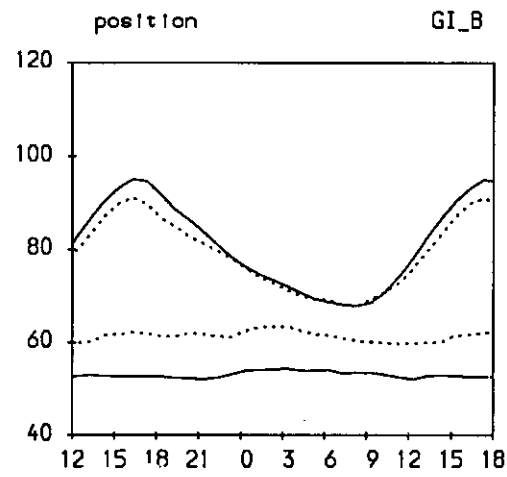
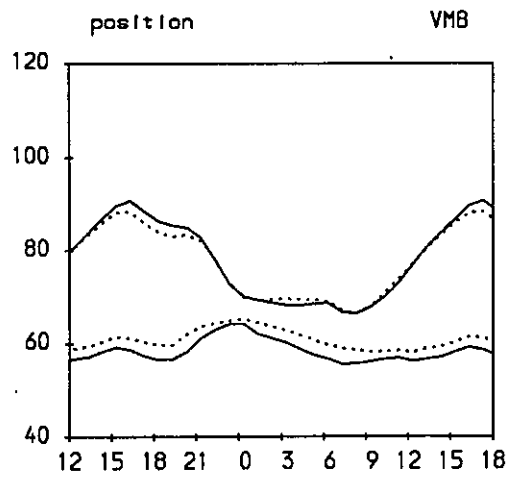
Dissolved Oxygen (% saturation) against time

2 Layer, 100m grid 26 Nov 1993

— Full scen.

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Wet Neap Full scenario (Case 5)

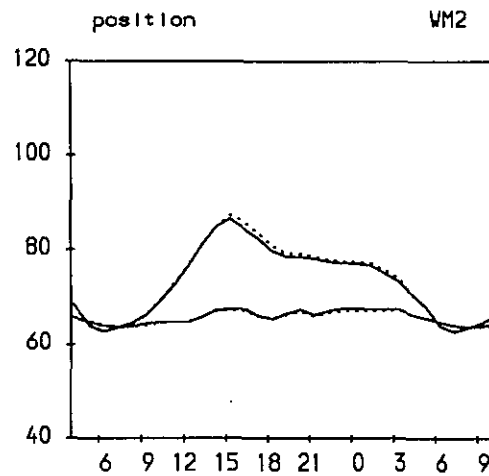
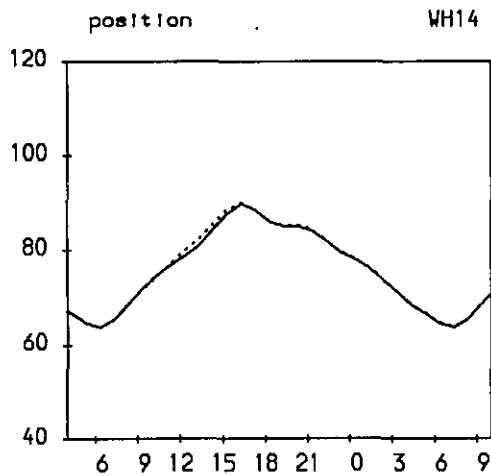
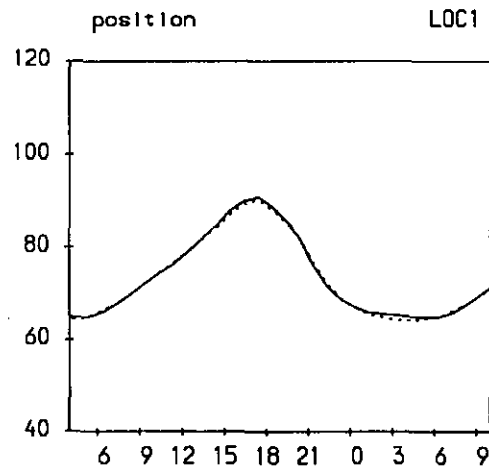
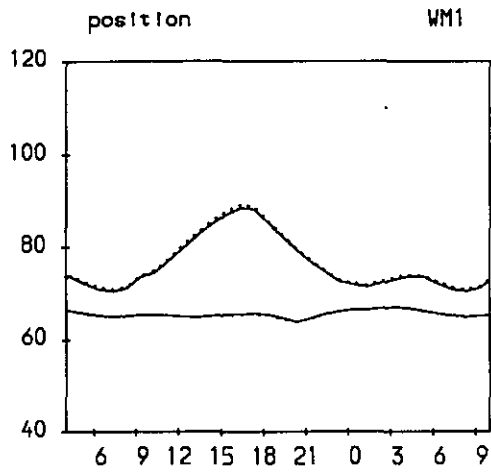
Dissolved Oxygen (% saturation) against time

2 Layer, 100m grid 26 Nov 1993

— Full scen.

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Wet Neap Full scenario (Case 5)

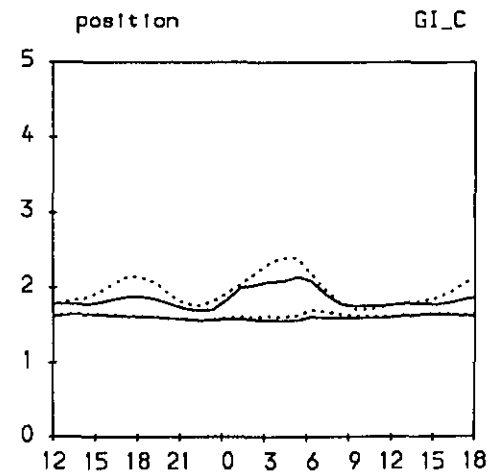
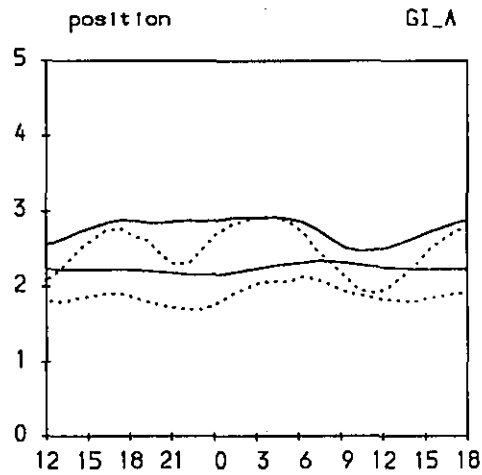
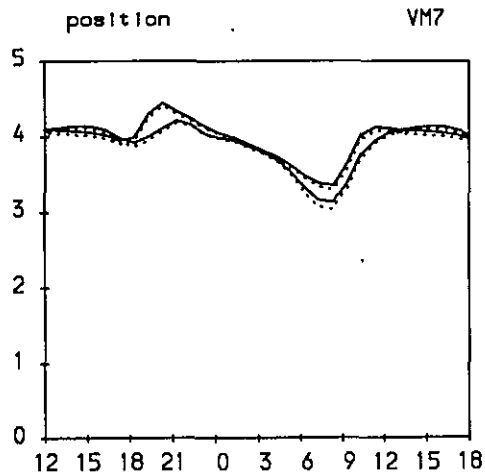
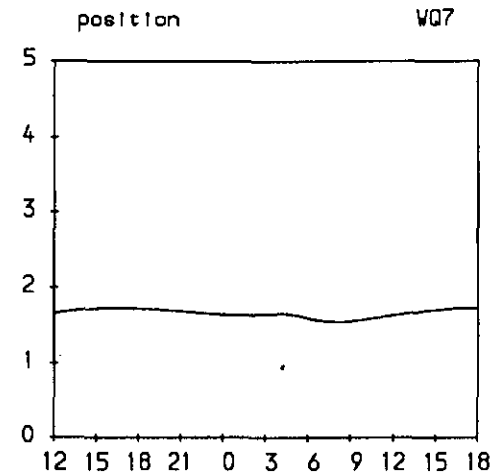
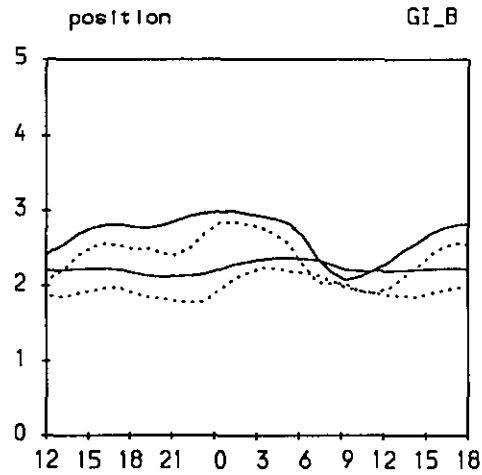
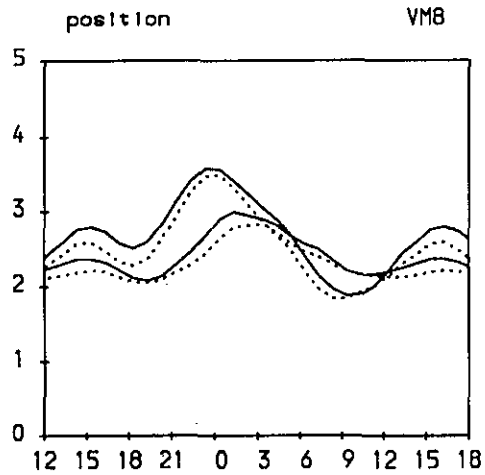
BOD (mg/L) against time

2 Layer, 100m grid 26 Nov 1993

— Full scen.

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Wet Neap Full scenario (Case 5)

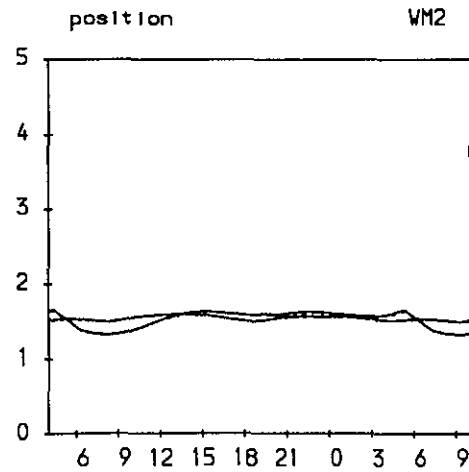
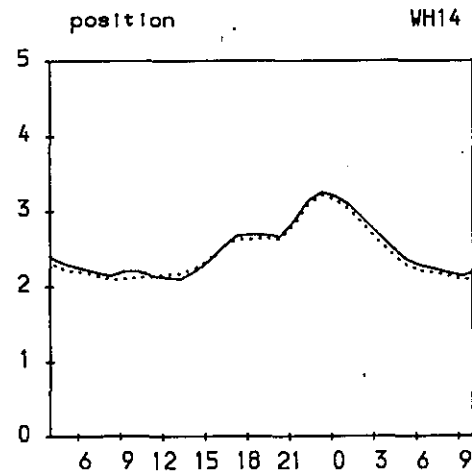
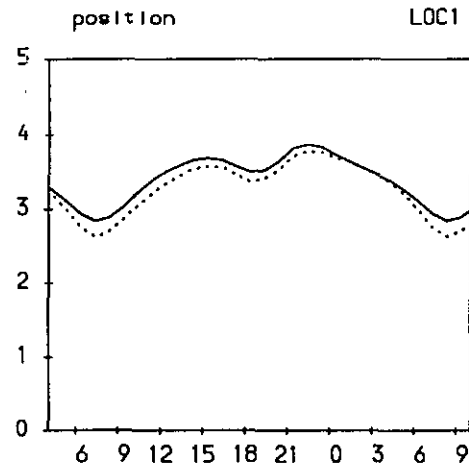
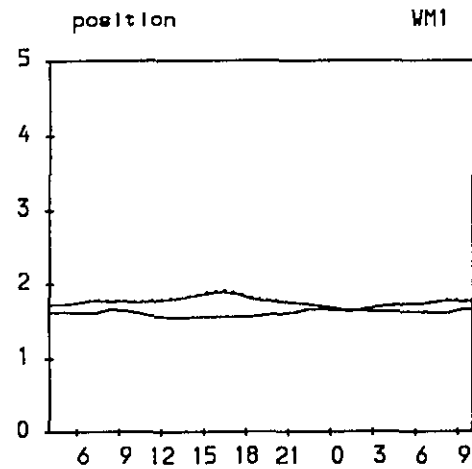
BOD (mg/l) against time

2 Layer, 100m grid 26 Nov 1993

— Full scen.

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Wet Neap Full scenario (Case 5)

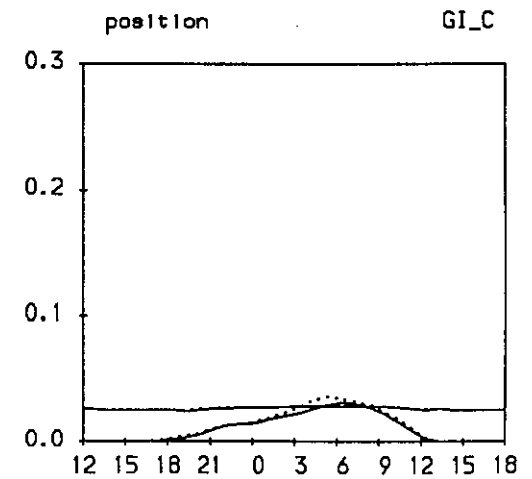
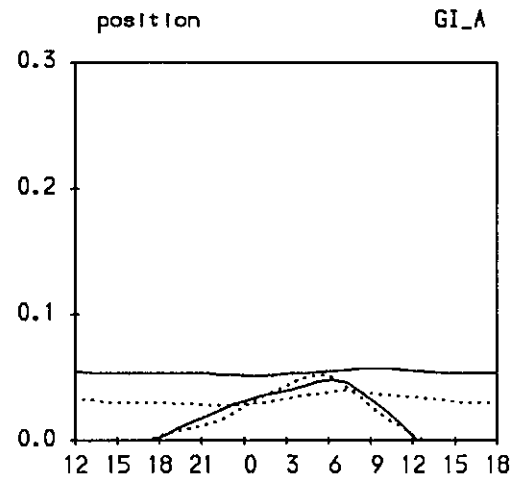
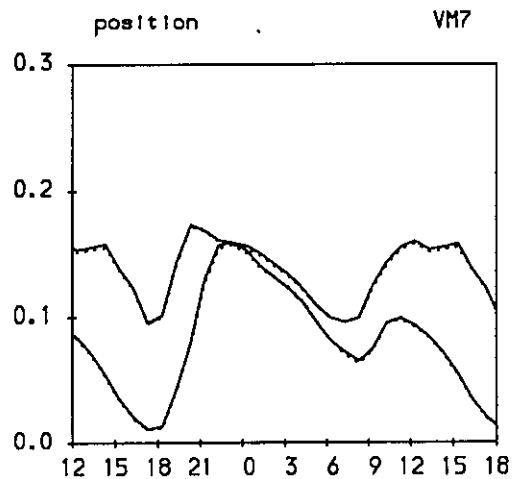
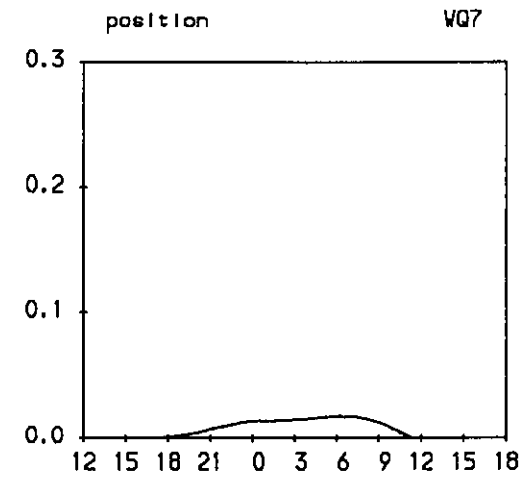
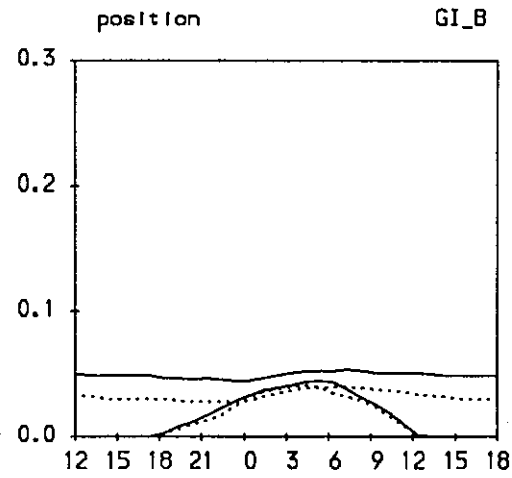
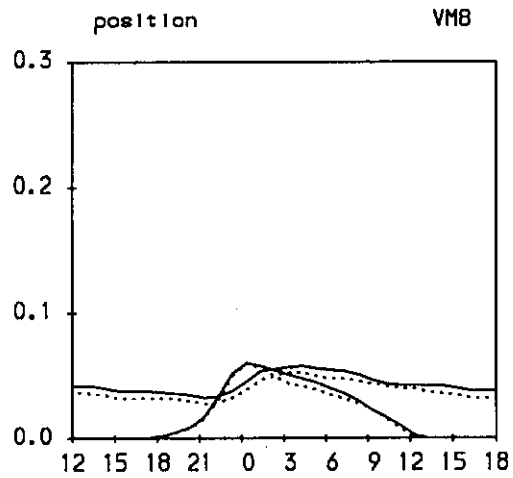
Ammoniacal Nitrogen (mg N/l) against time

2 Layer, 100m grid 26 Nov 1993

— Full scen.

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Wet Neap Full scenario (Case 5)

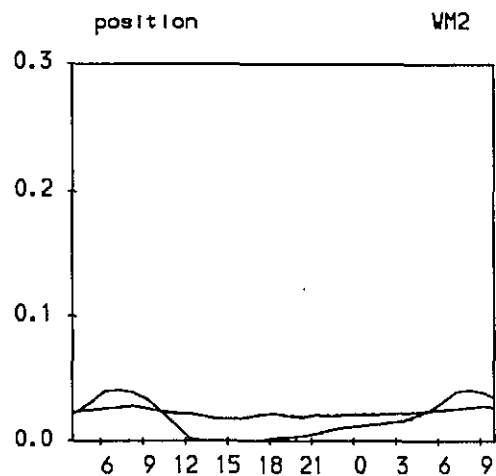
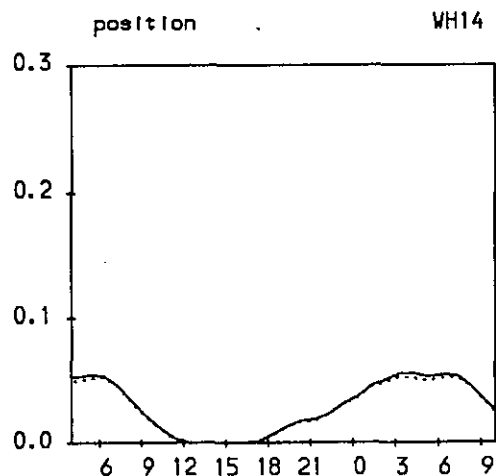
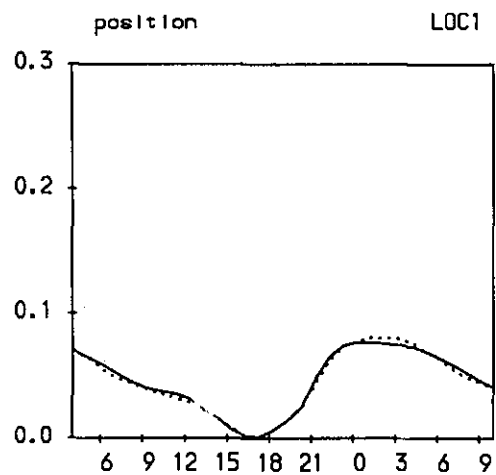
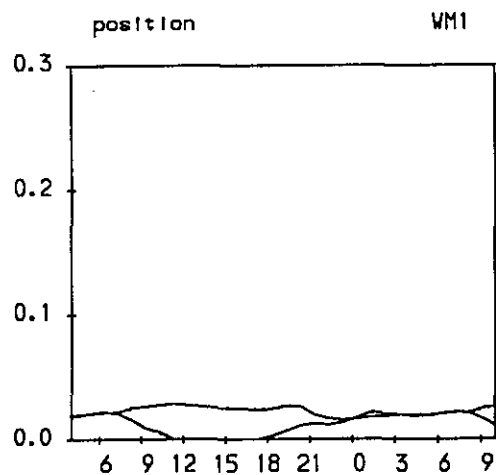
Ammoniacal Nitrogen (mg N/l) against time

2 Layer, 100m grid 26 Nov 1993

— Full scen.

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Wet Neap Full scenario (Case 5)

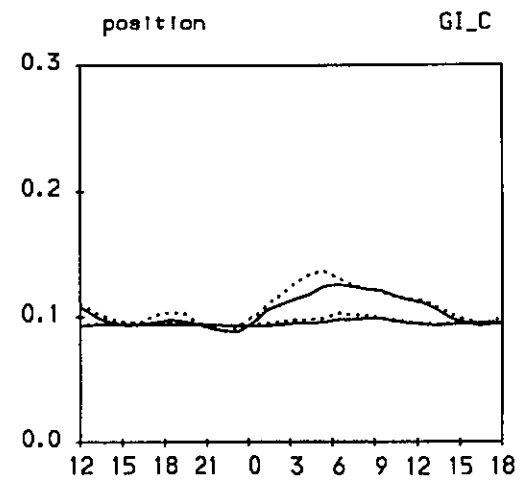
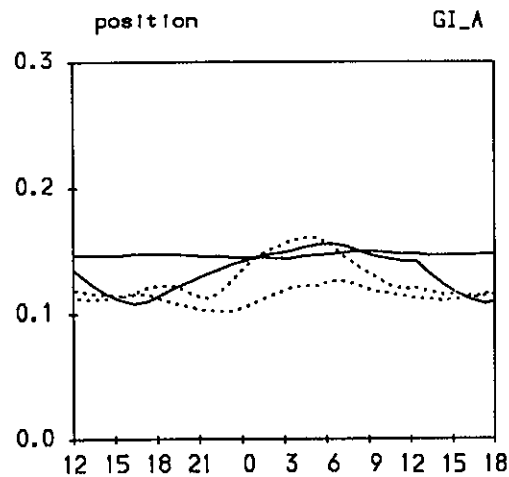
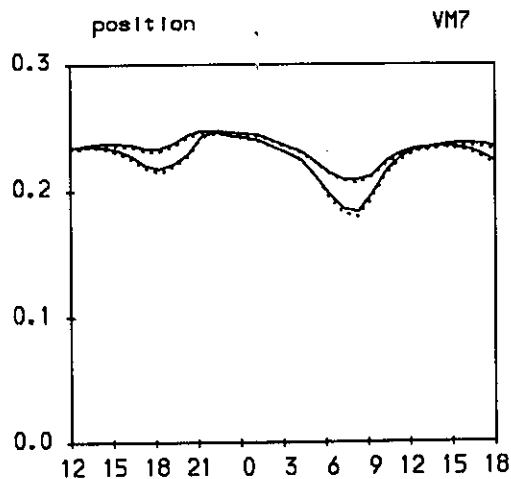
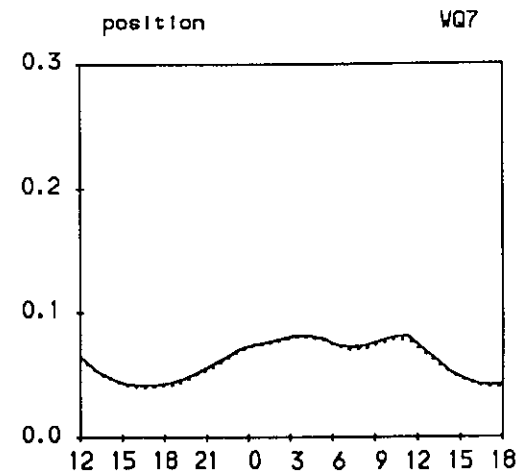
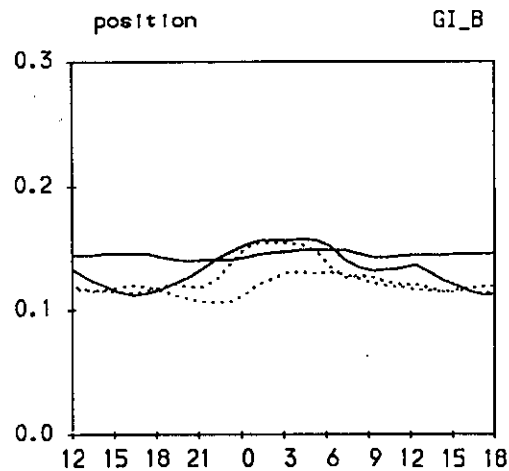
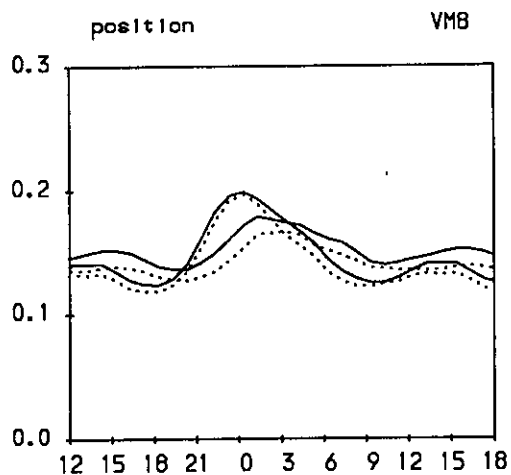
Oxidised Nitrogen (mg N/L) against time

2 Layer, 100m grid 26 Nov 1993

— Full scen.

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Wet Neap Full scenario (Case 5)

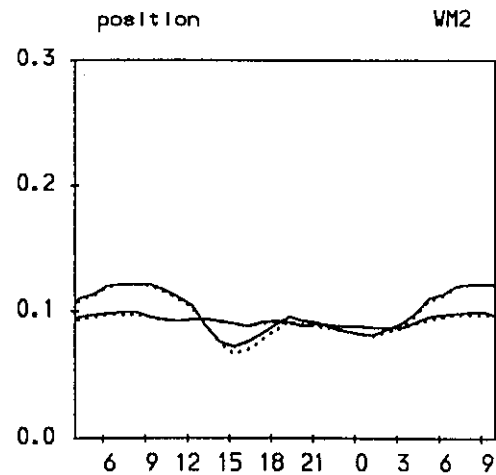
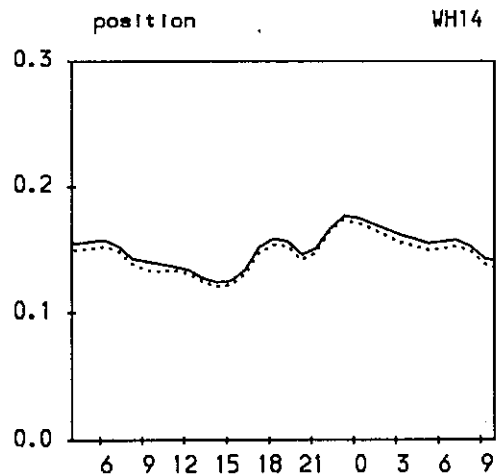
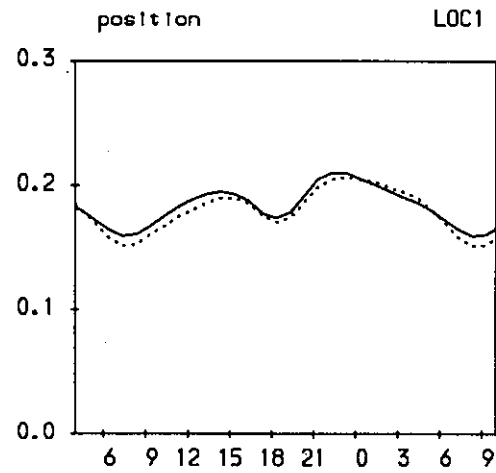
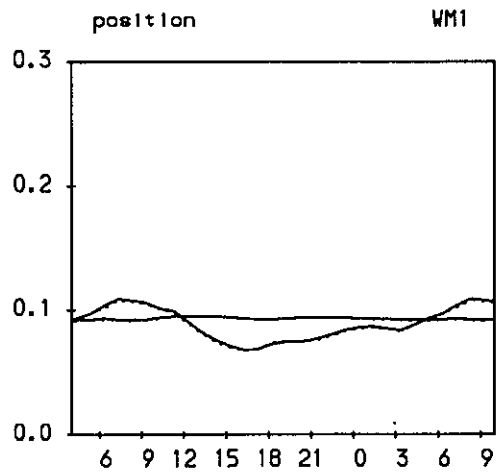
Oxidised Nitrogen (mg N/l) against time

2 Layer, 100m grid 26 Nov 1993

— Full scen.

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Wet Neap Full scenario (Case 5)

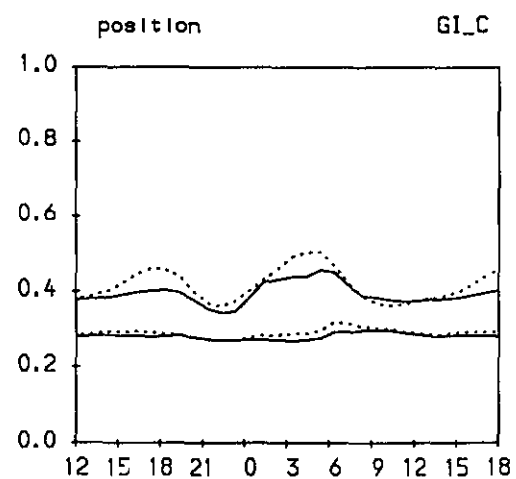
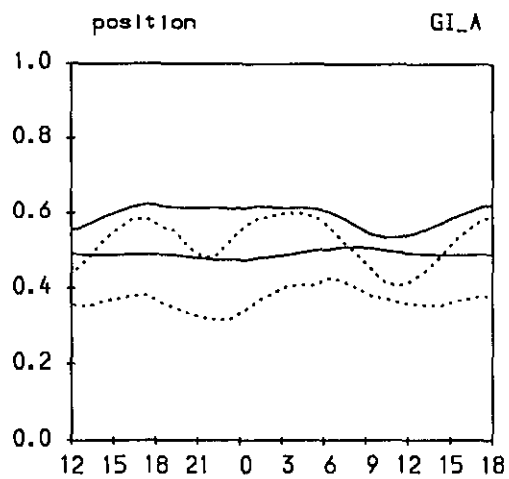
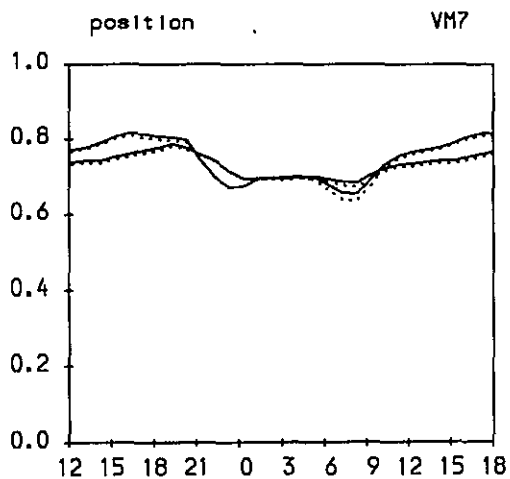
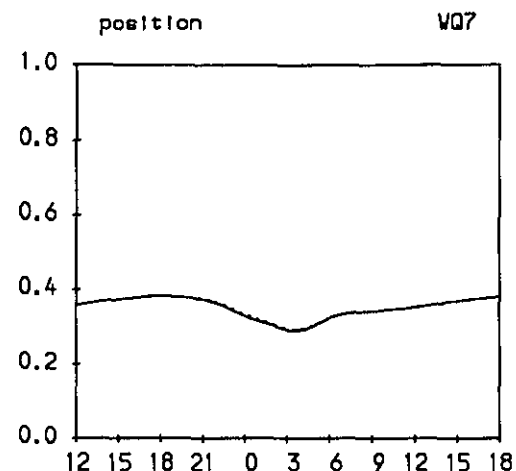
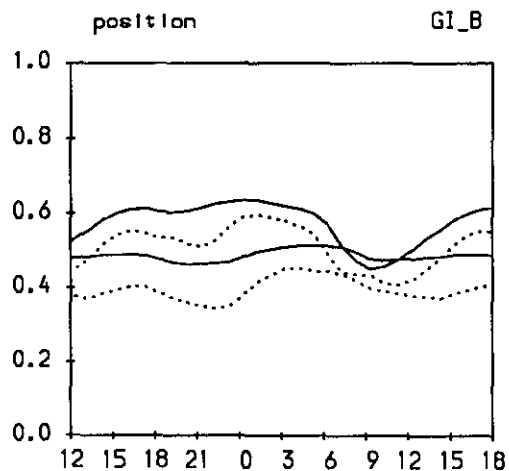
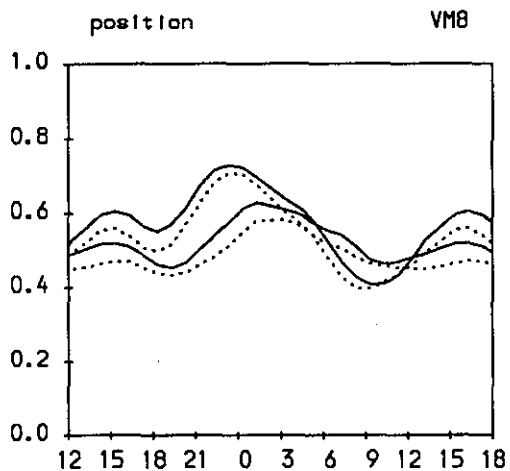
Organic Nitrogen (mg N/U) against time

2 Layer, 100m grid 26 Nov 1993

— Full scen.

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Wet Neap Full scenario (Case 5)

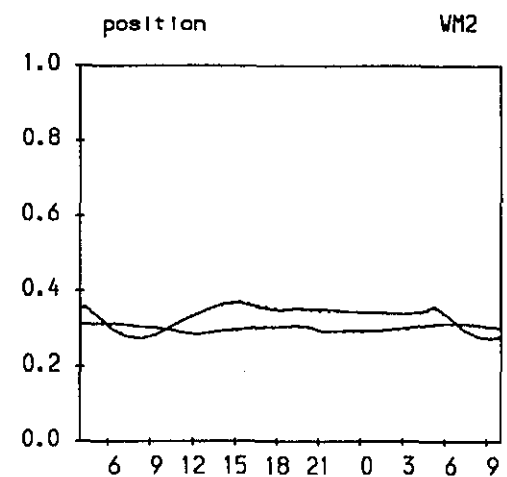
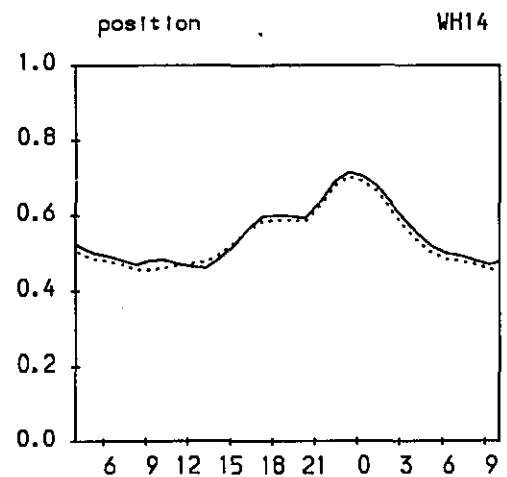
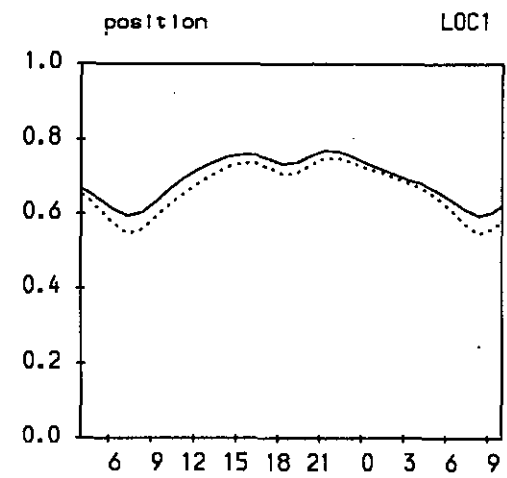
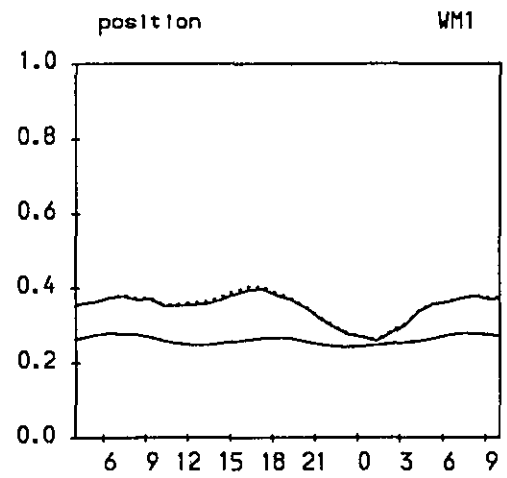
Organic Nitrogen (mg N/l) against time

2 Layer, 100m grid 26 Nov 1993

— Full scen.

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Wet Neap Full scenario (Case 5)

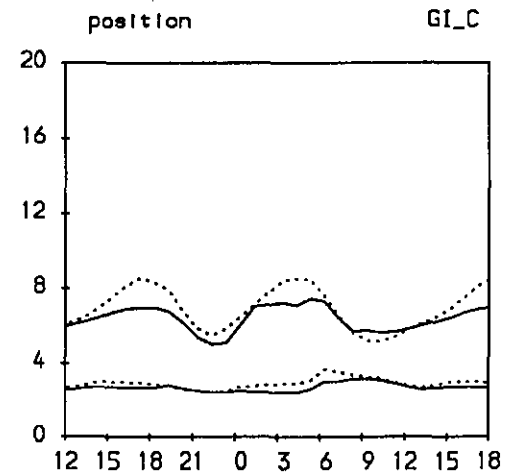
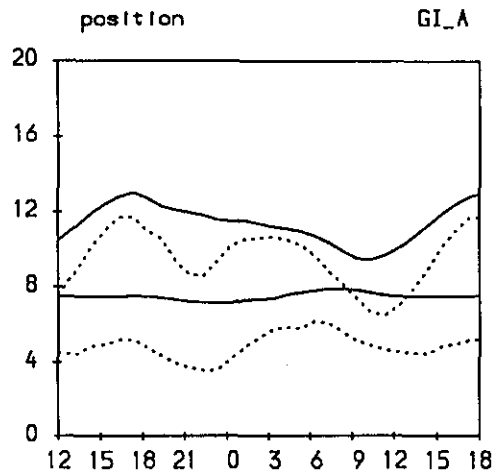
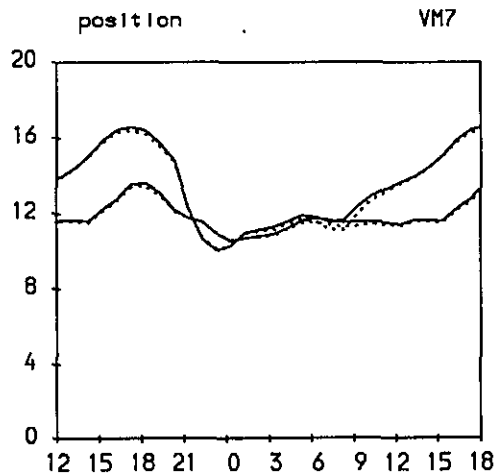
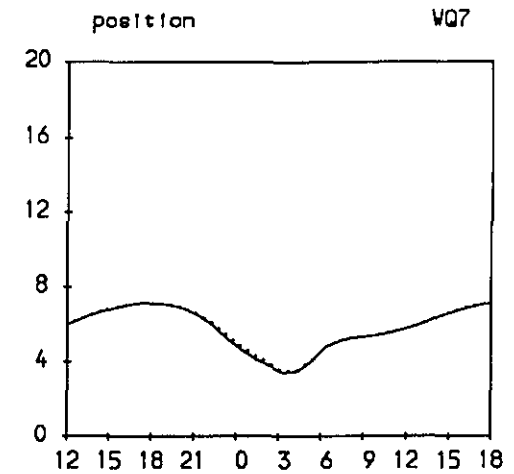
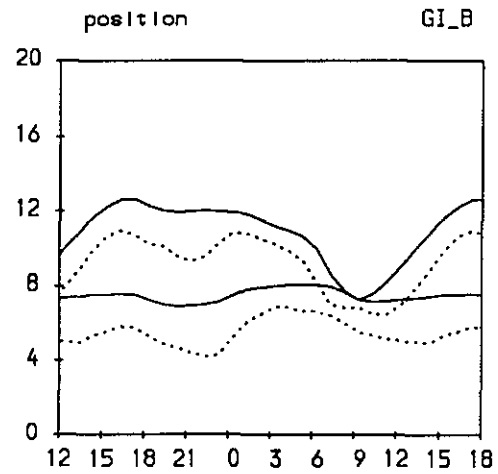
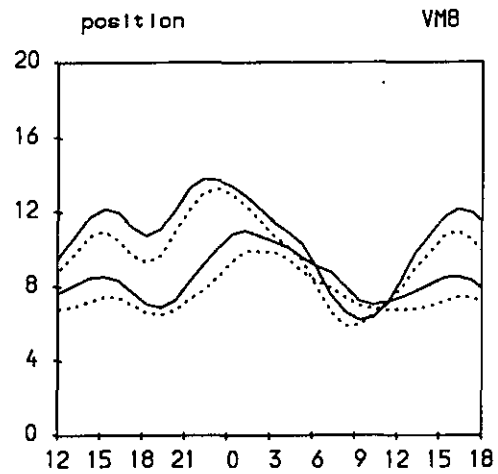
Chlorophyll (ug/l) against time

2 Layer, 100m grid 26 Nov 1993

— Full scen.

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Wet Neap Full scenario (Case 5)

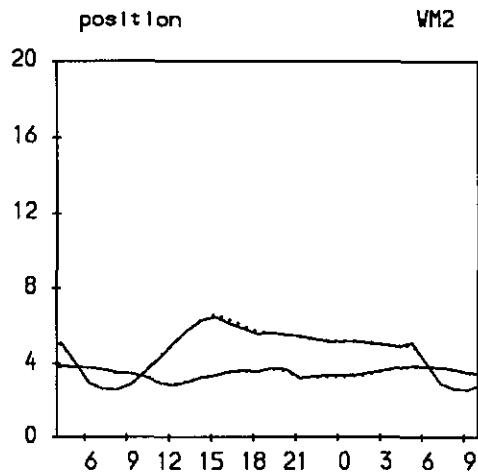
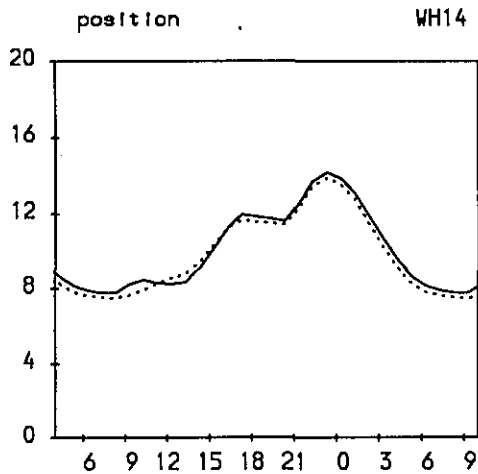
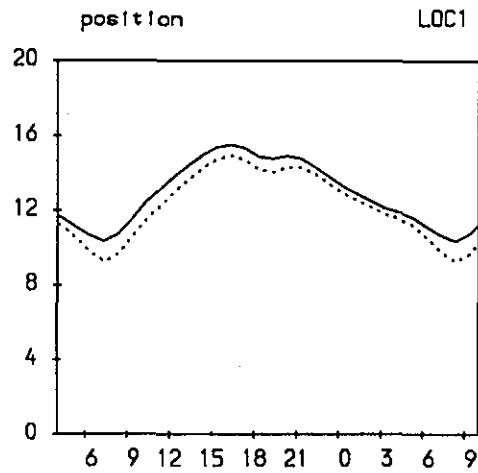
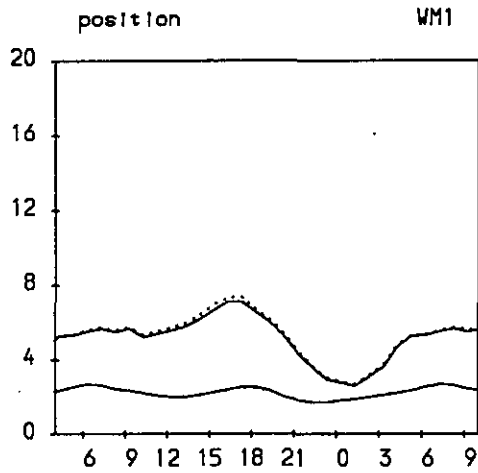
Chlorophyll (ug/L) against time

2 Layer, 100m grid 26 Nov 1993

— Full scen.

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Wet Neap Full scenario (Case 5)

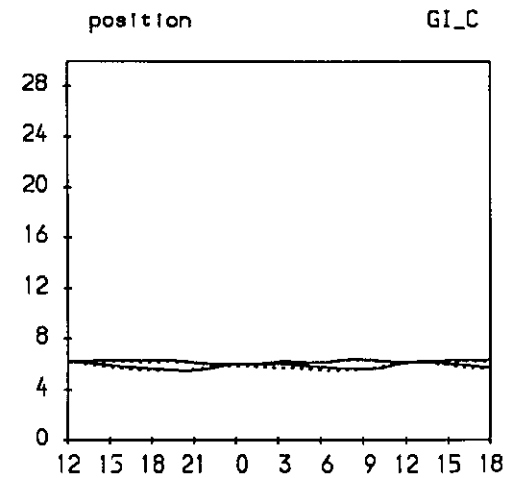
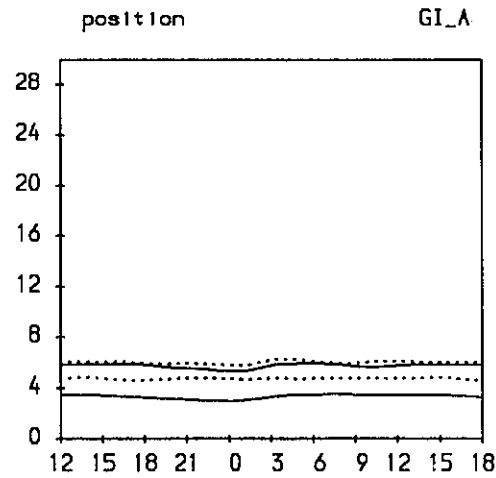
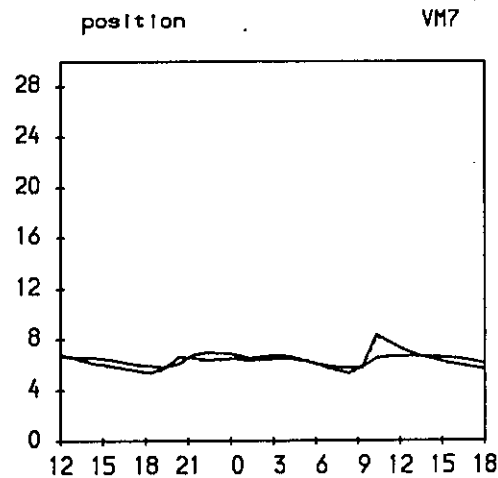
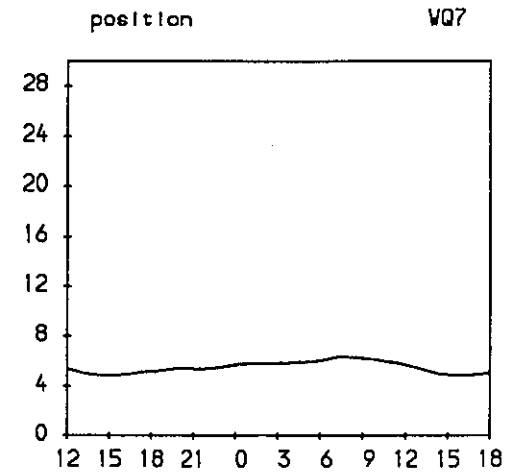
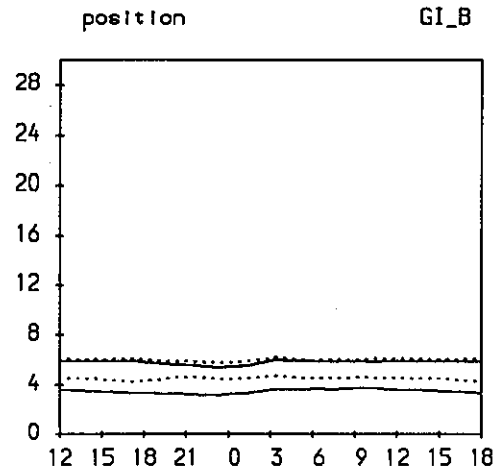
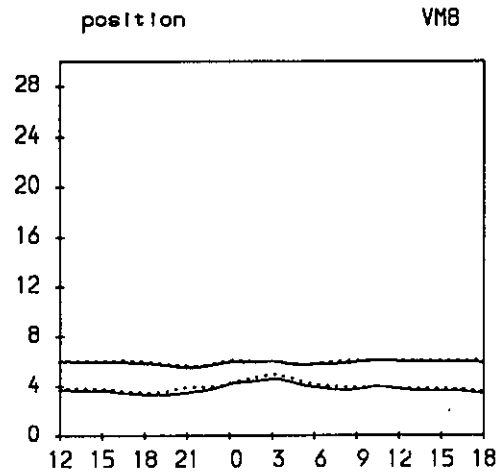
Suspended Solids (mg/l) against time

2 Layer, 100m grid 26 Nov 1993

— Full scen.

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Wet Neap Full scenario (Case 5)

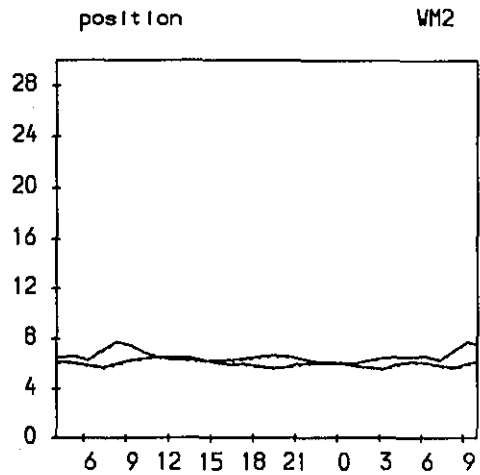
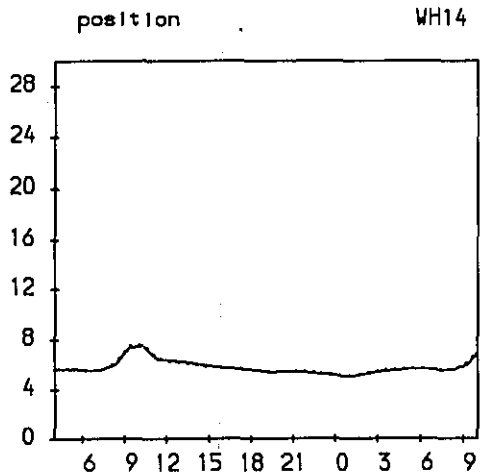
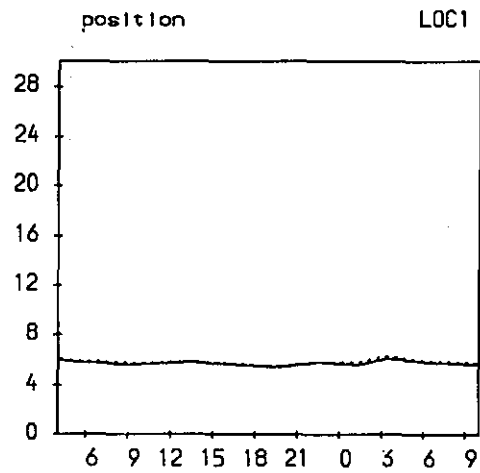
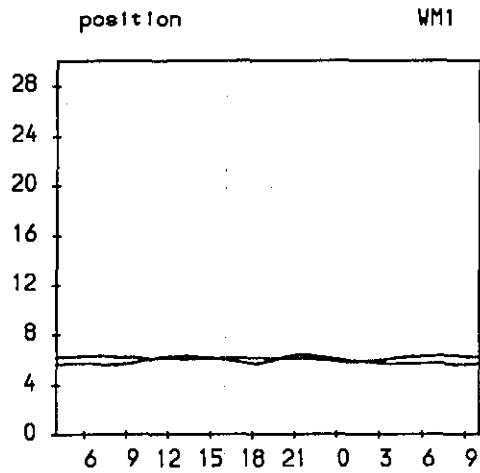
Suspended Solids (mg/L) against time

2 Layer, 100m grid 26 Nov 1993

— Full scen.

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Wet Neap Full scenario (Case 5)

E.Coli (no/100ml) against time

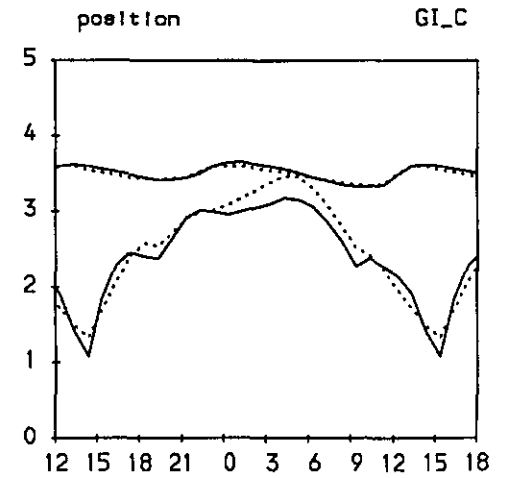
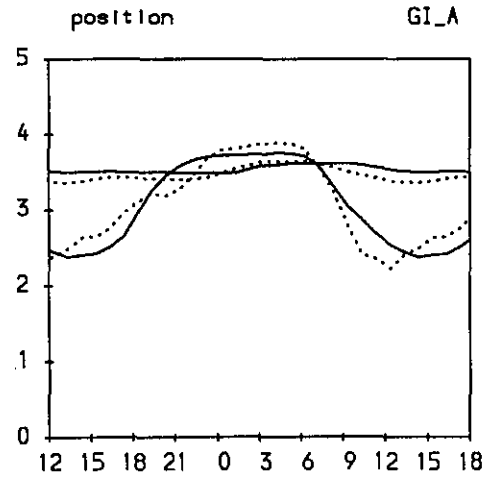
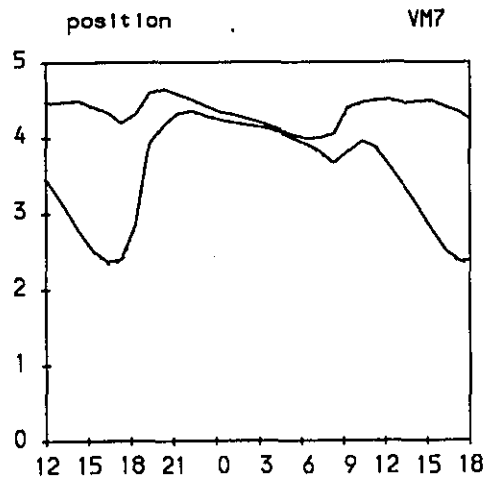
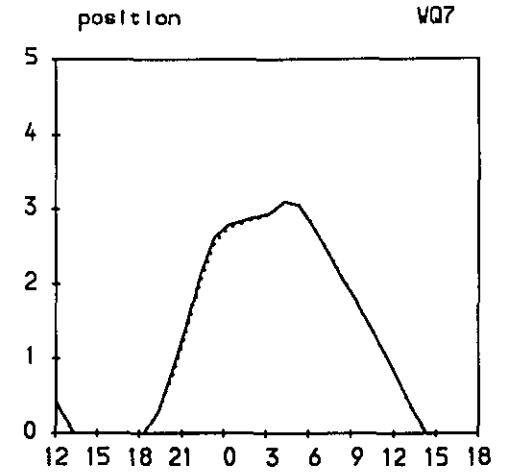
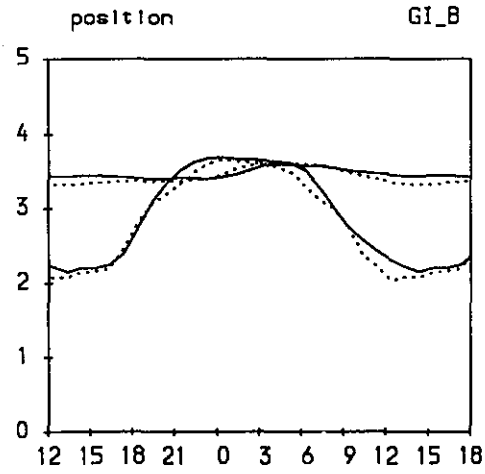
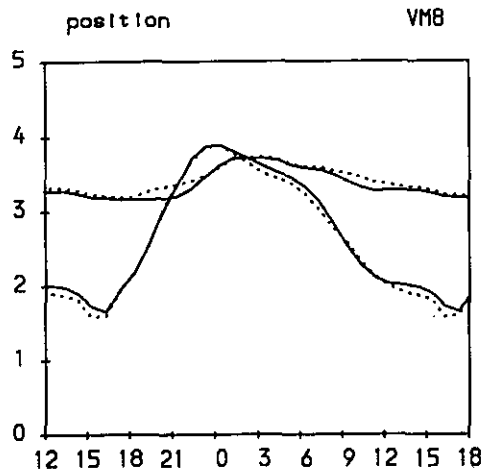
(log to base 10 on y-axis)

2 Layer, 100m grid 26 Nov 1993

— Full scen.

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer

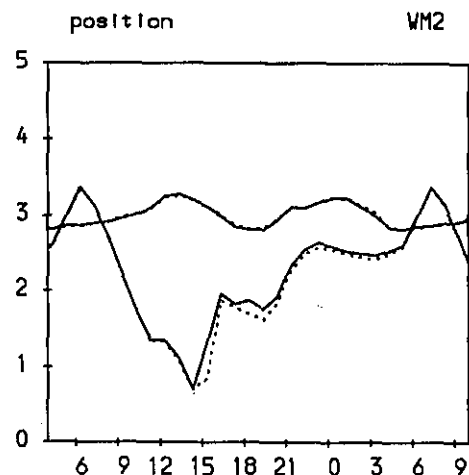
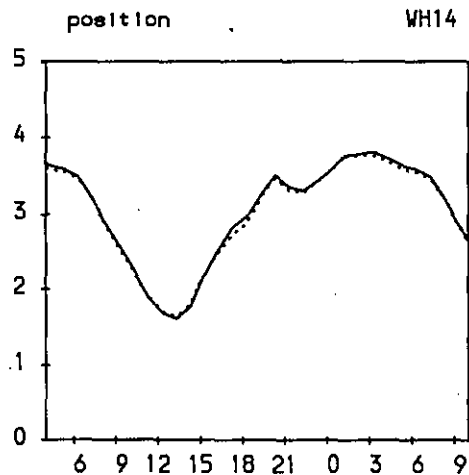
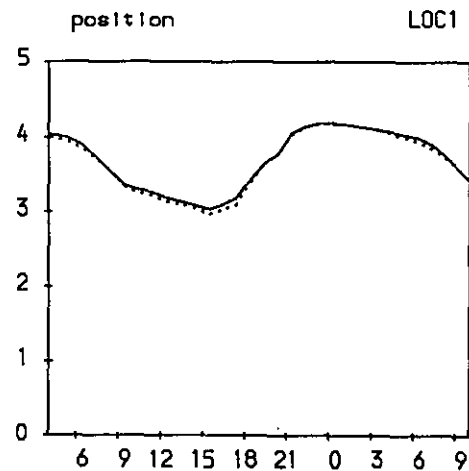
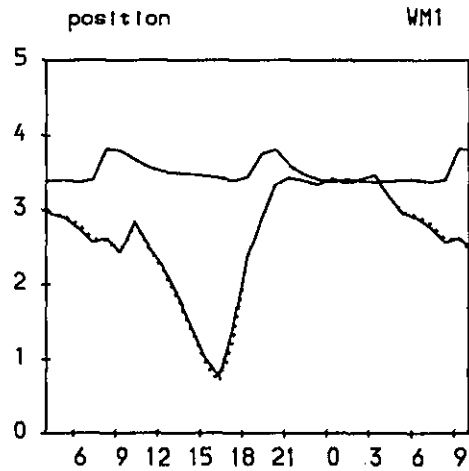


Green Island Wet Neap Full scenario (Case 5)

E.Coli (no/100ml) against time (log to base 10 on y-axis)

2 Layer, 100m grid 26 Nov 1993 — Full scen. Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Wet Neap Full scenario (Case 5)

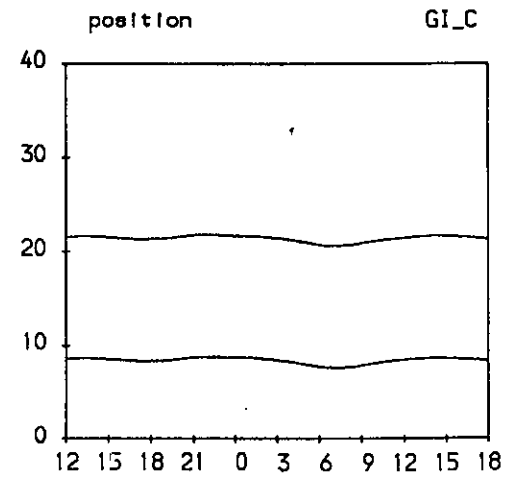
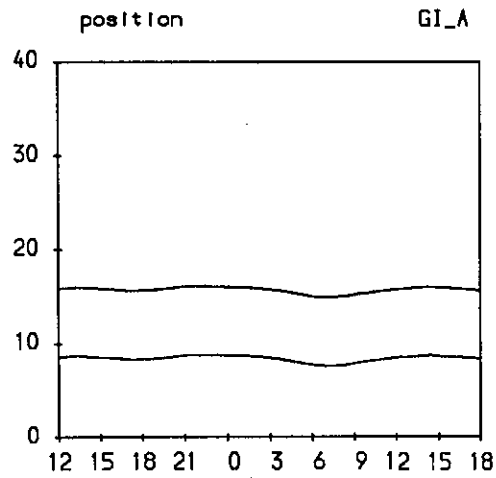
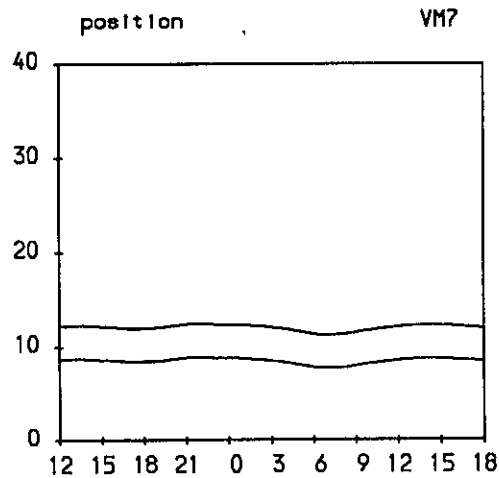
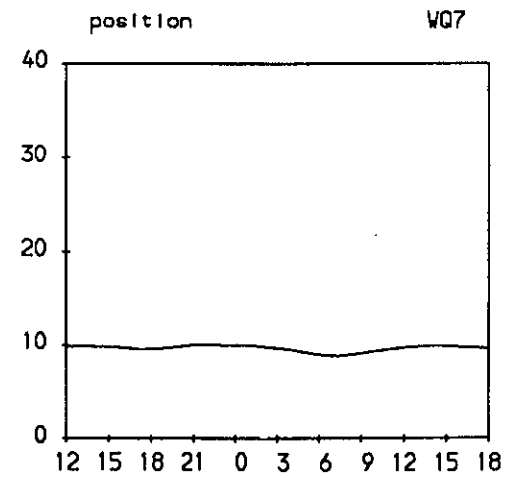
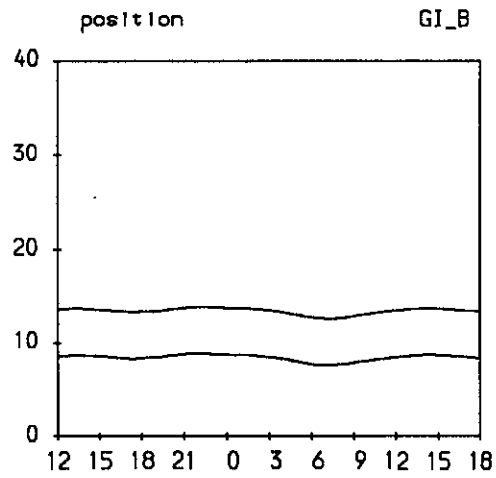
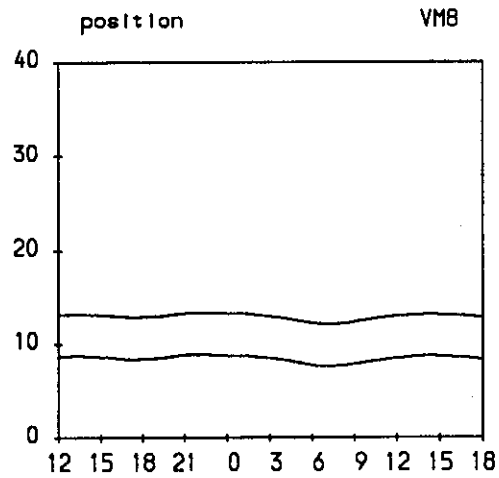
Layer Depth (metres) against time

2 Layer, 100m grid 26 Nov 1993

— Full scen.

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Wet Neap Full scenario (Case 5)

Layer Depth (metres) against time

2 Layer, 100m grid 26 Nov 1993

— Full scen.

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer

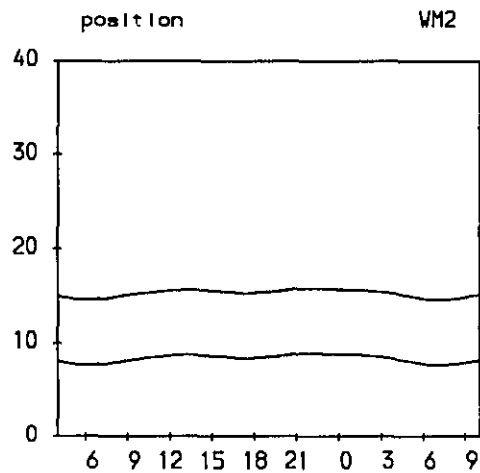
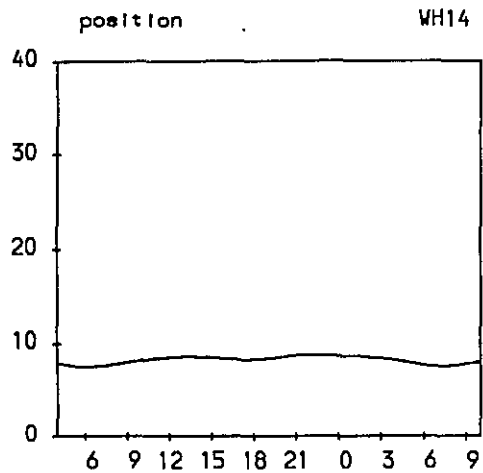
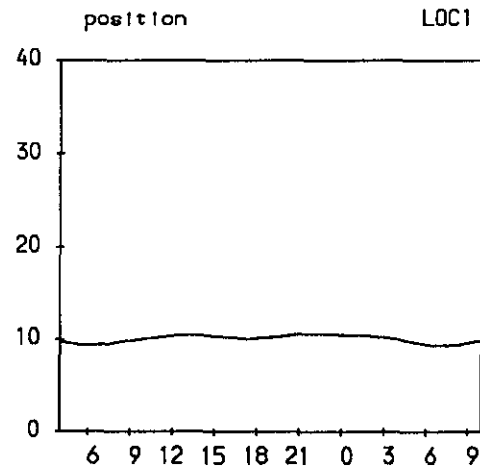
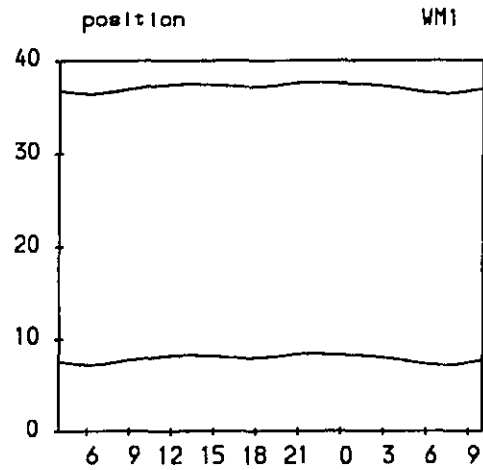


FIGURE 14

CASE 5 (FULL SCENARIO) : WET SEASON SPRING TIDE

Green Island Wet Spring Full scenario (Case 5)

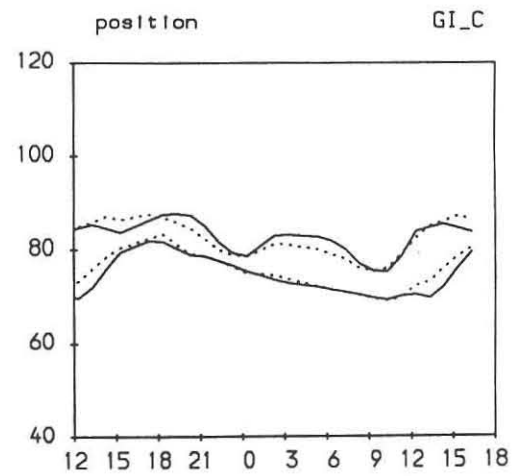
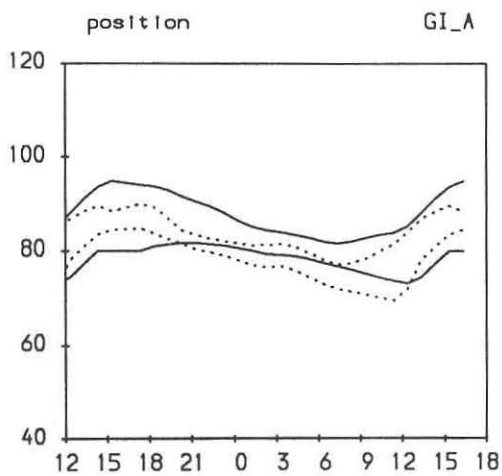
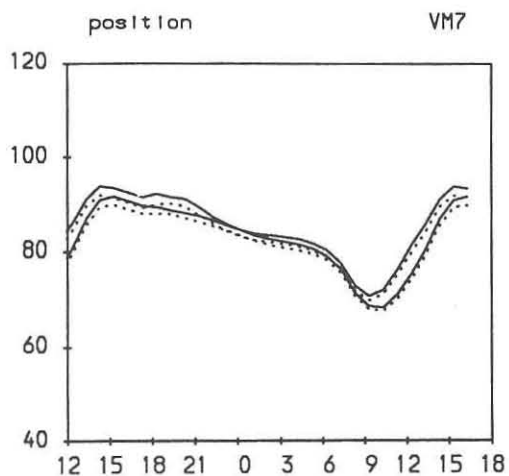
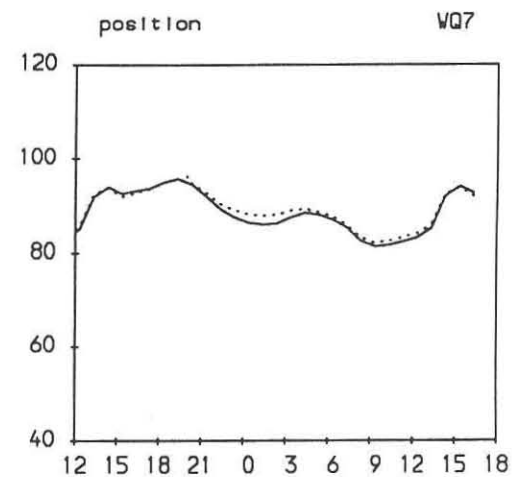
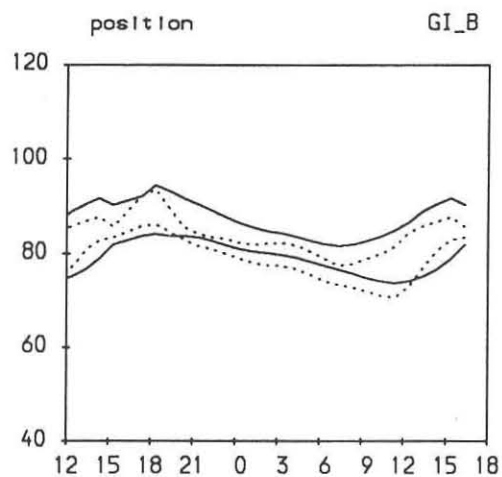
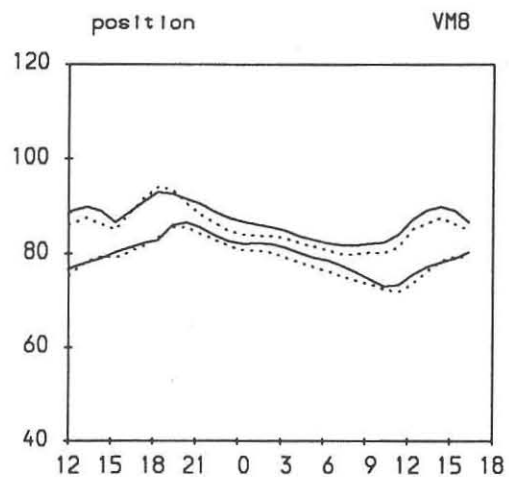
Dissolved Oxygen (% saturation) against time

2 Layer, 100m grid 29 Nov 1993

— Full scen.

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Wet Spring Full scenario (Case 5)

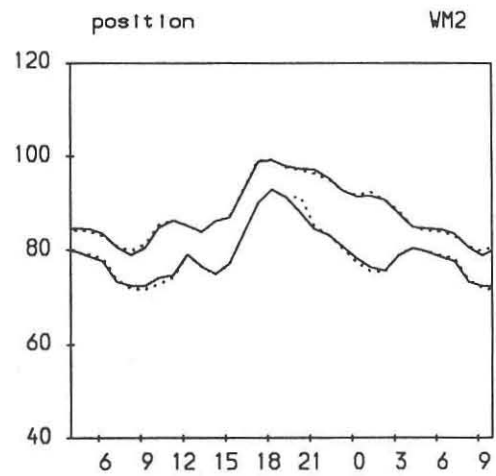
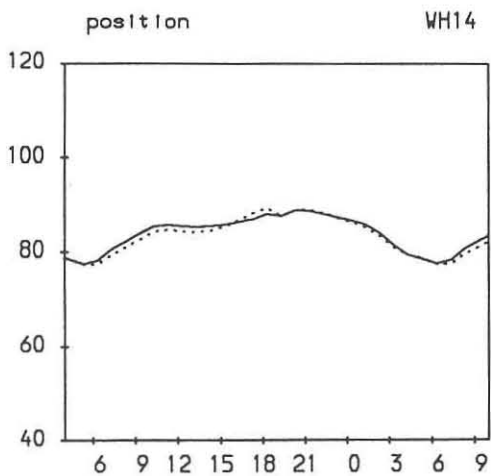
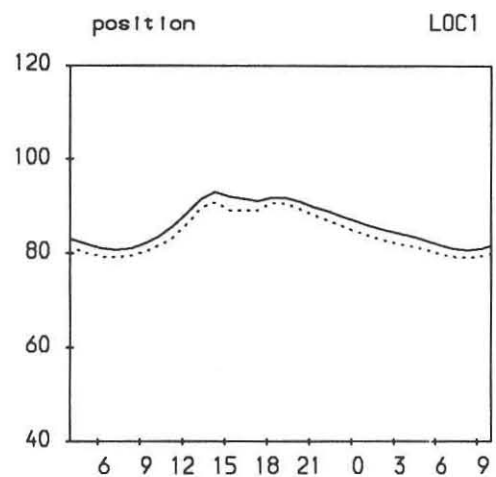
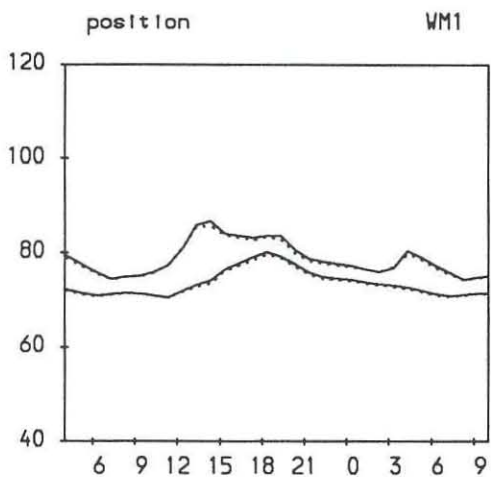
Dissolved Oxygen (% saturation) against time

2 Layer, 100m grid 29 Nov 1993

— Full scen.

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Wet Spring Full scenario (Case 5)

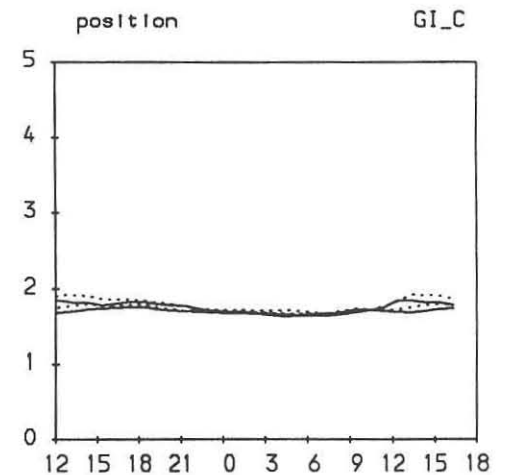
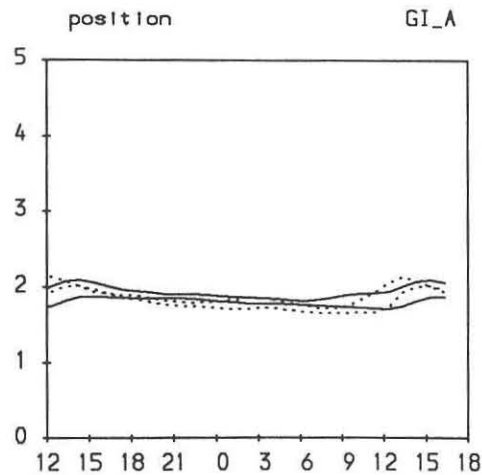
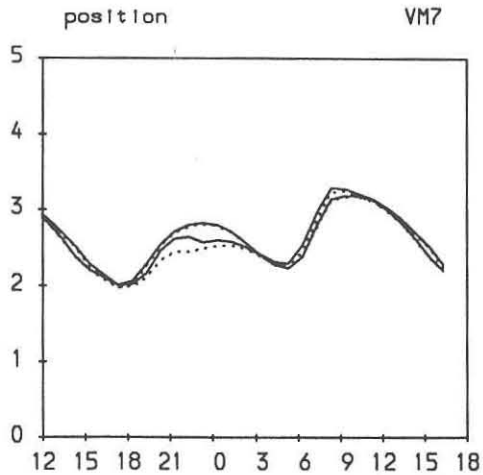
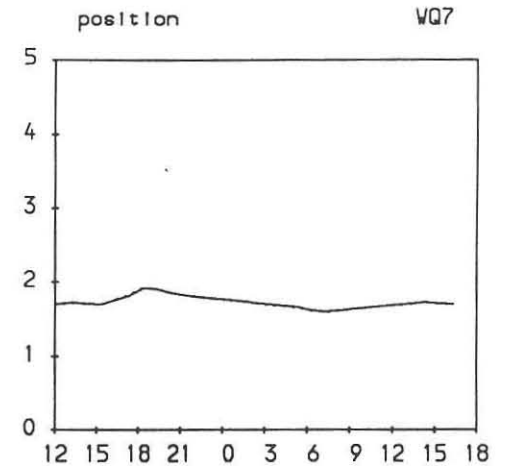
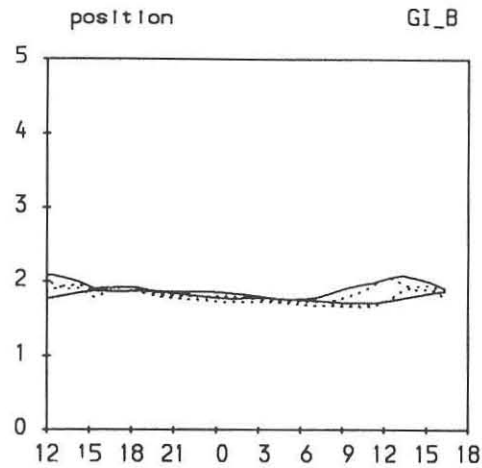
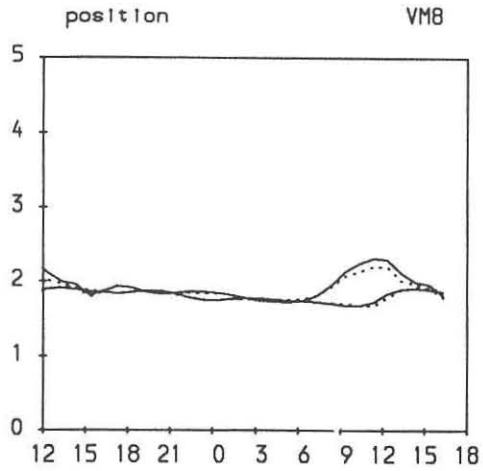
BOD (mg/L) against time

2 Layer, 100m grid 29 Nov 1993

— Full scen.

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Wet Spring Full scenario (Case 5)

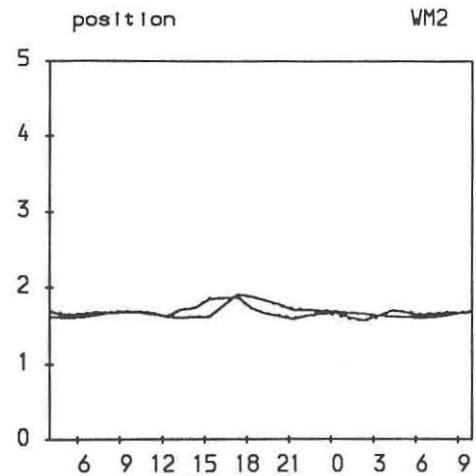
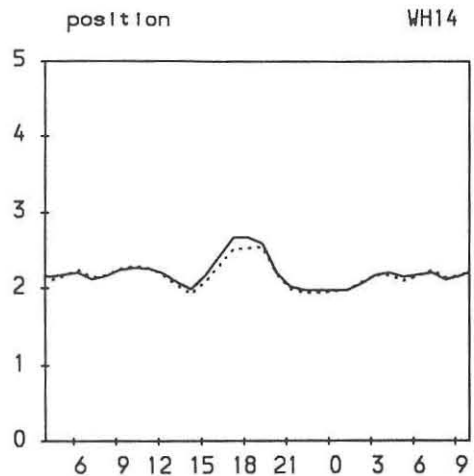
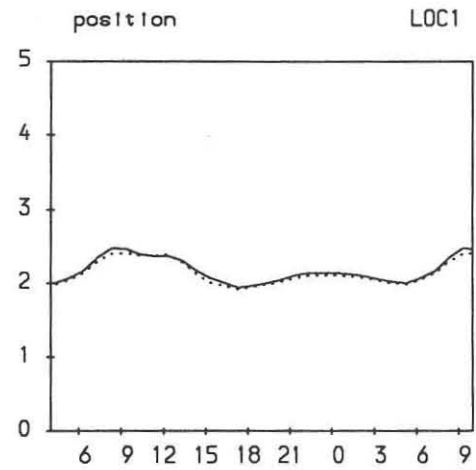
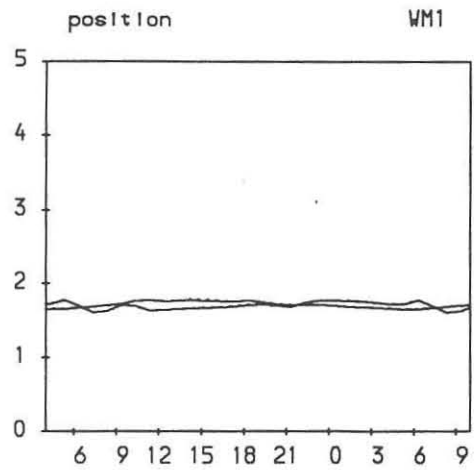
BOD (mg/l) against time

2 Layer, 100m grid 29 Nov 1993

— Full scen.

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Wet Spring Full scenario (Case 5)

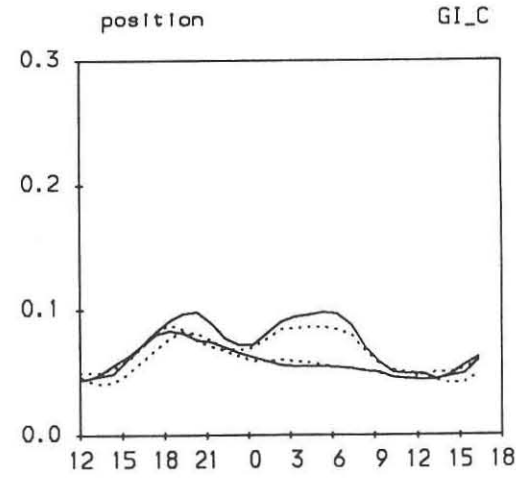
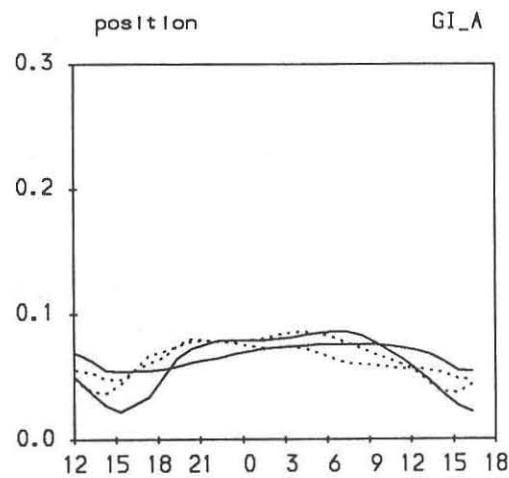
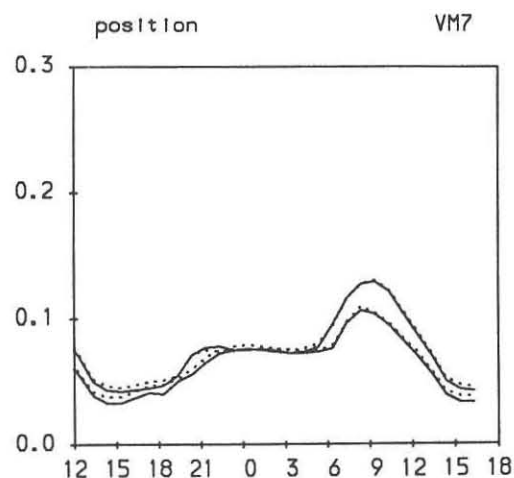
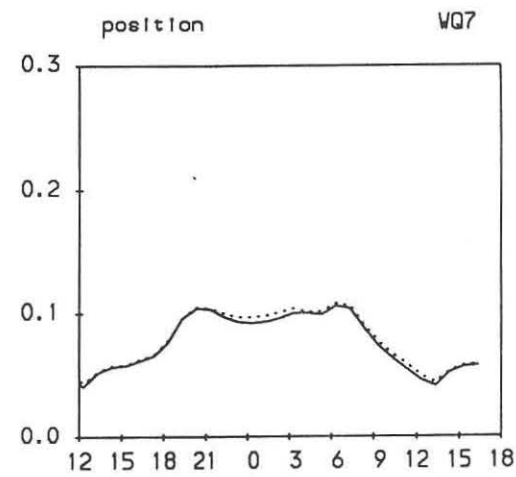
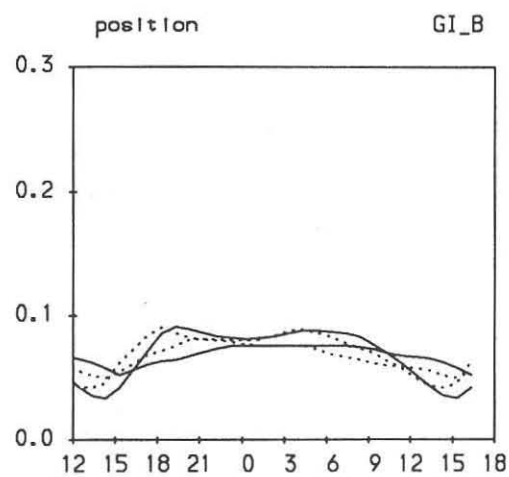
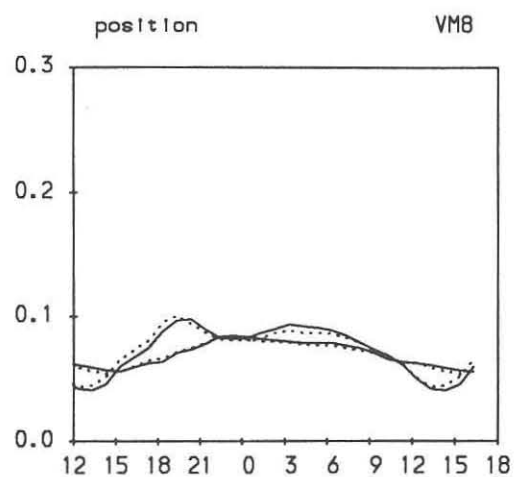
Ammoniacal Nitrogen (mg N/L) against time

2 Layer, 100m grid 29 Nov 1993

— Full scen.

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Wet Spring Full scenario (Case 5)

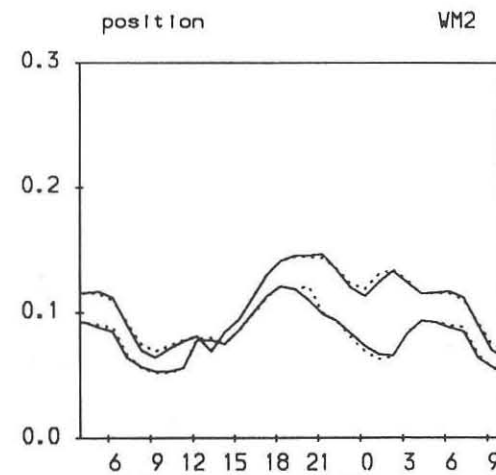
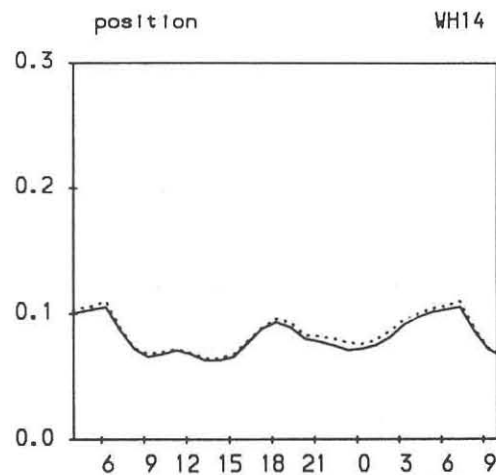
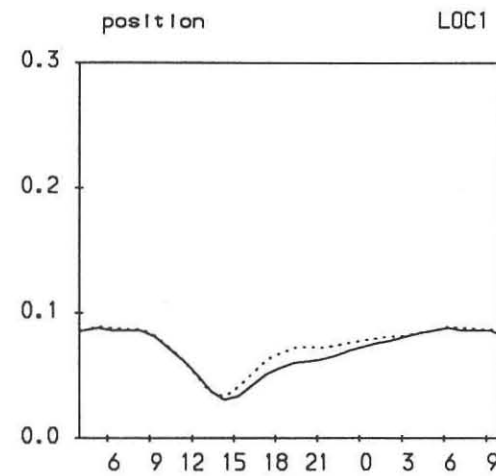
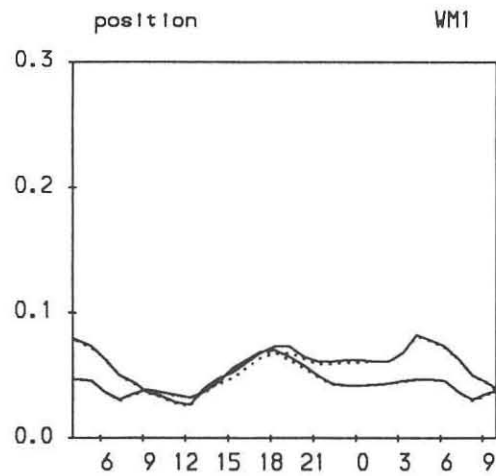
Ammoniacal Nitrogen (mg N/l) against time

2 Layer, 100m grid 29 Nov 1993

— Full scen.

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Wet Spring Full scenario (Case 5)

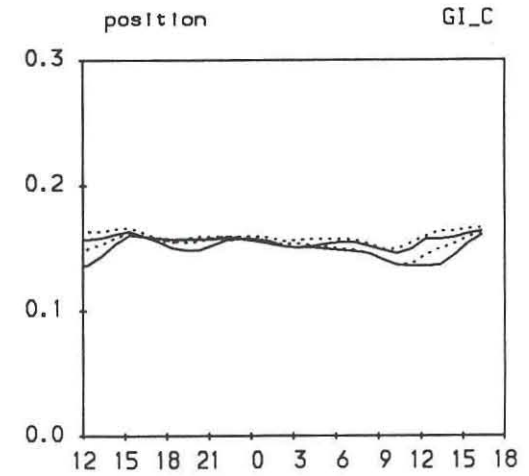
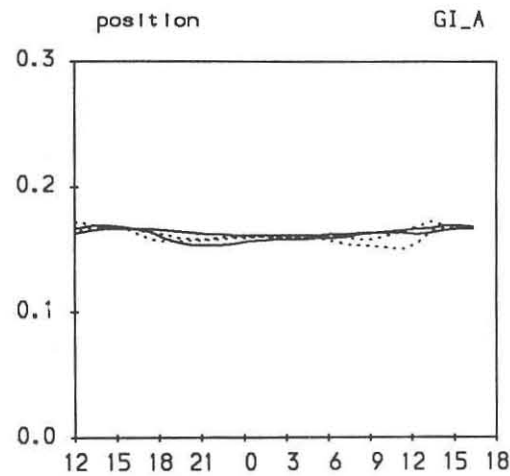
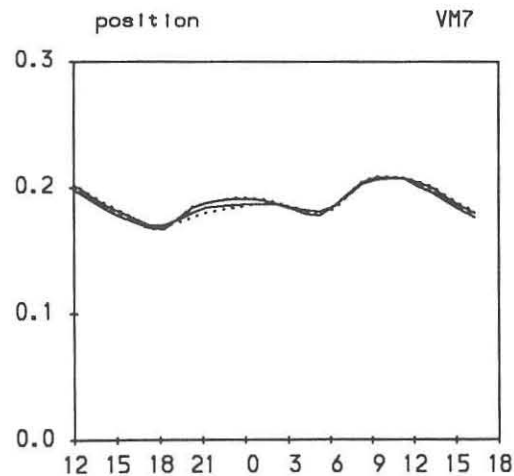
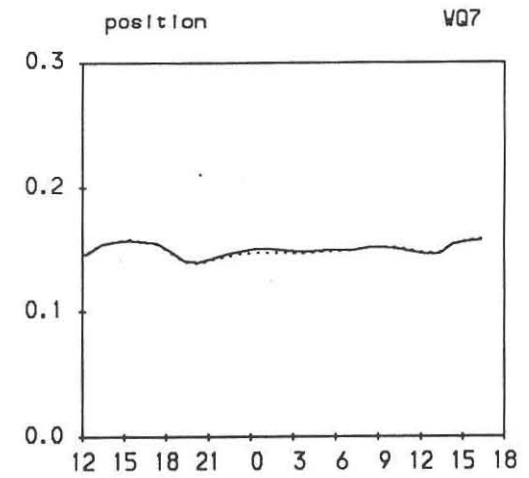
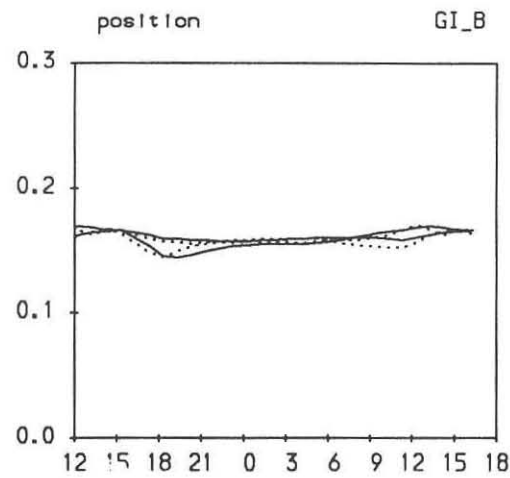
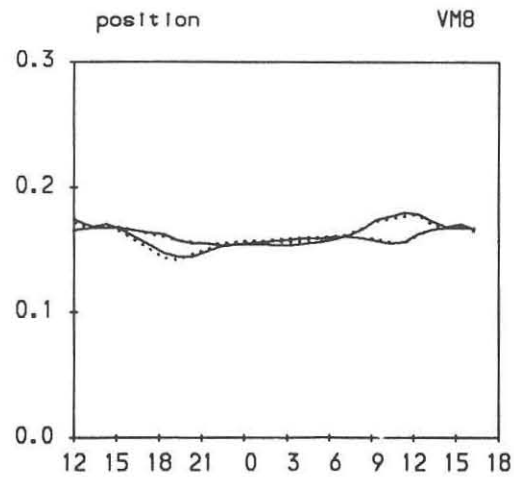
Oxidised Nitrogen (mg N/L) against time

2 Layer, 100m grid 29 Nov 1993

— Full scen.

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Wet Spring Full scenario (Case 5)

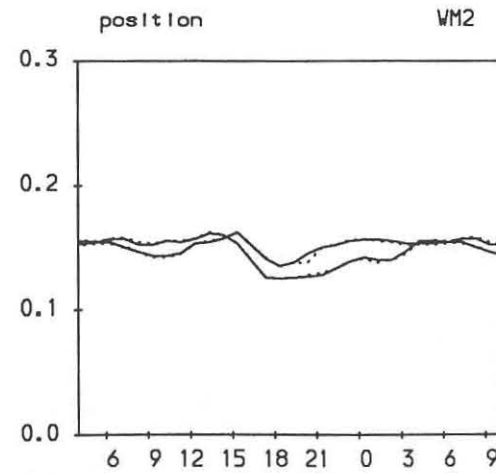
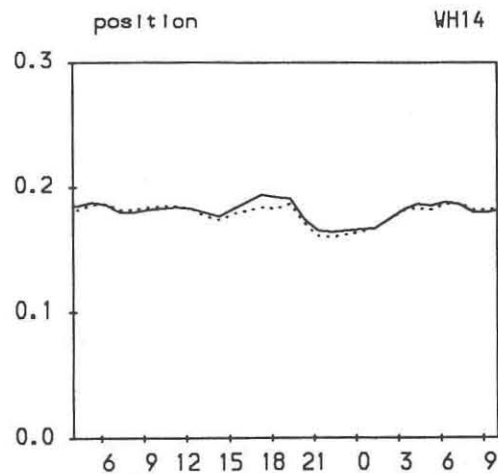
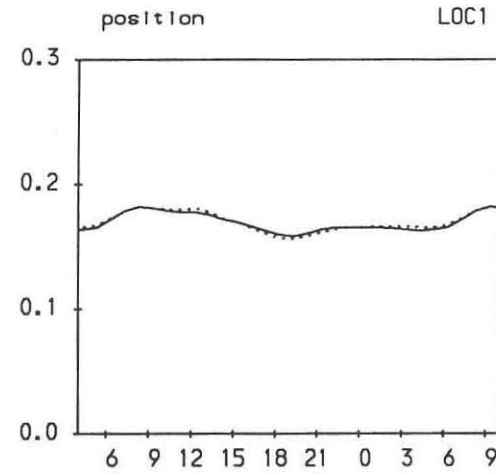
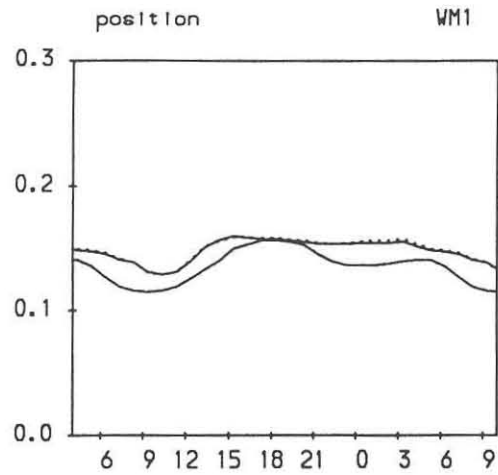
Oxidised Nitrogen (mg N/l) against time

2 Layer, 100m grid 29 Nov 1993

— Full scen.

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Wet Spring Full scenario (Case 5)

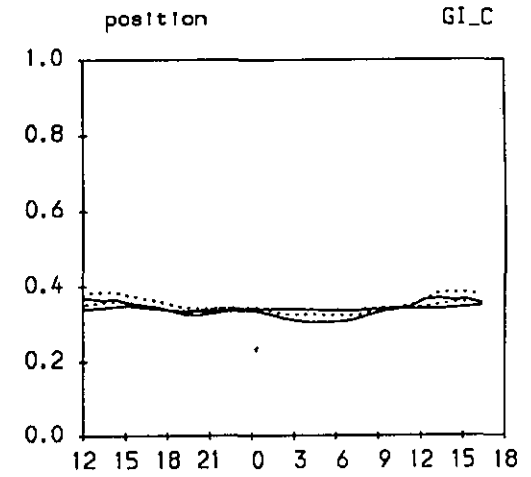
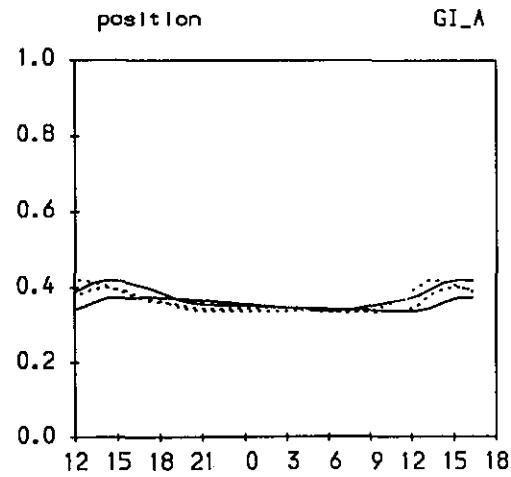
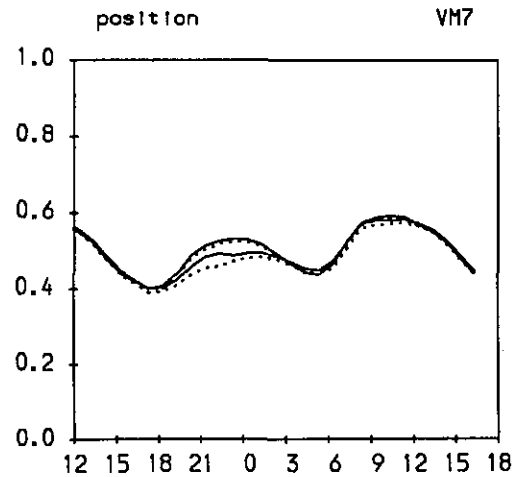
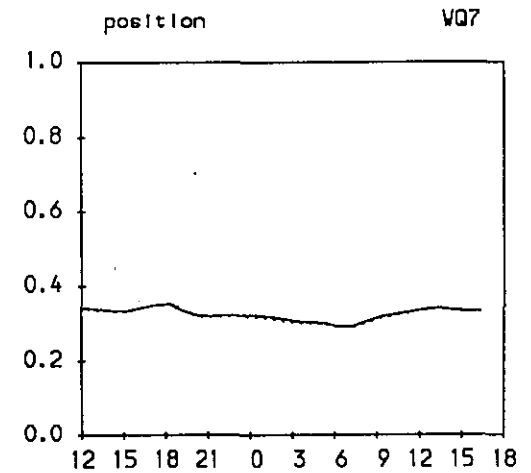
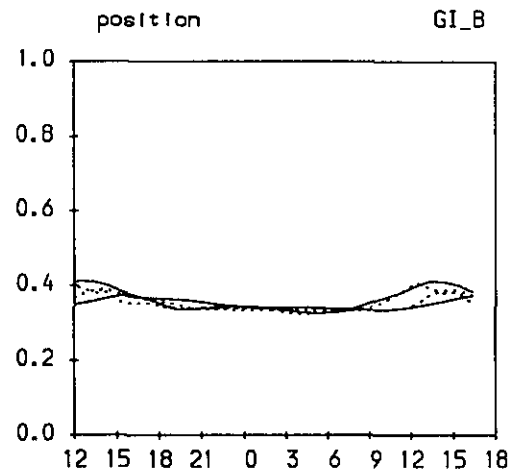
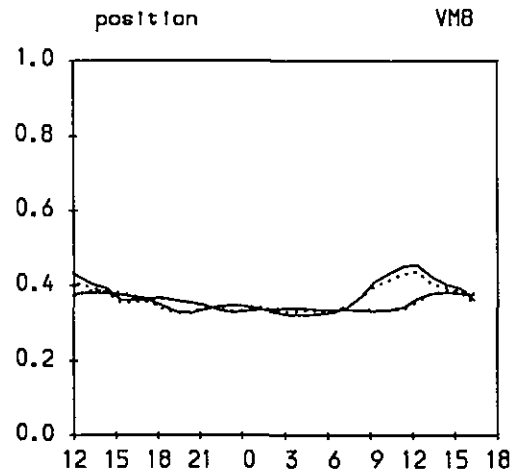
Organic Nitrogen (mg N/L) against time

2 Layer, 100m grid 29 Nov 1993

— Full scen.

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Wet Spring Full scenario (Case 5)

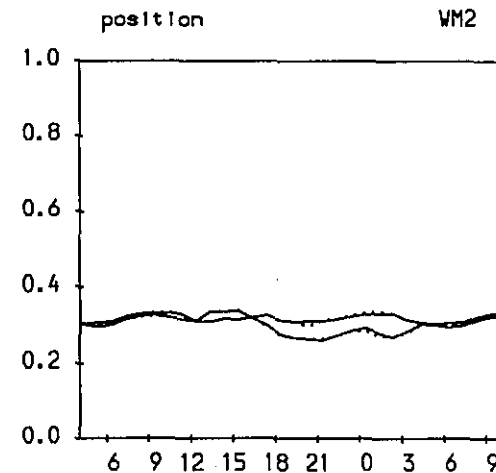
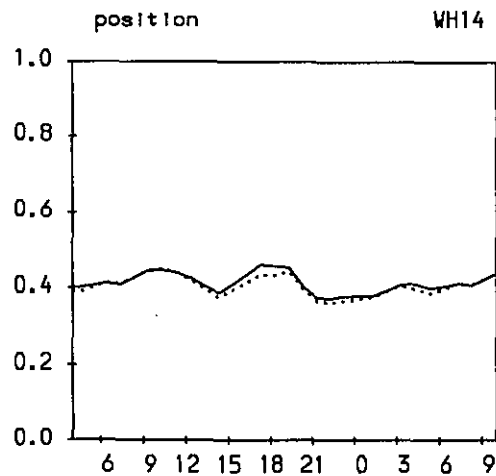
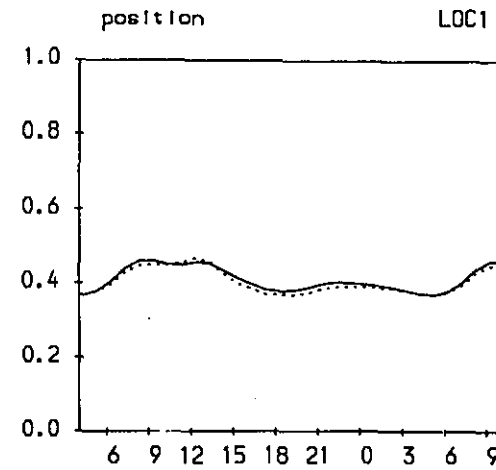
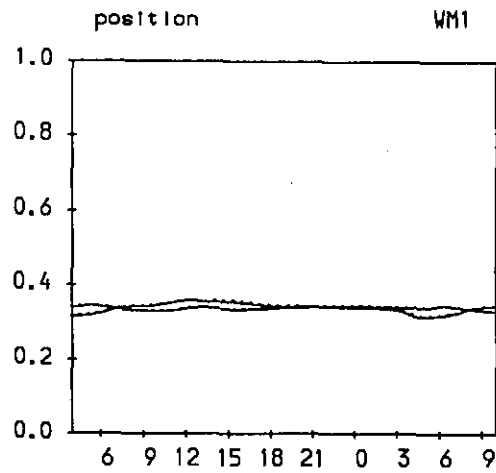
Organic Nitrogen (mg N/L) against time

2 Layer, 100m grid 29 Nov 1993

— Full scen.

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Wet Spring Full scenario (Case 5)

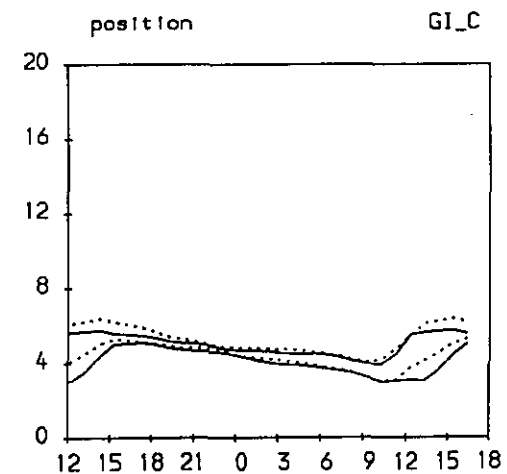
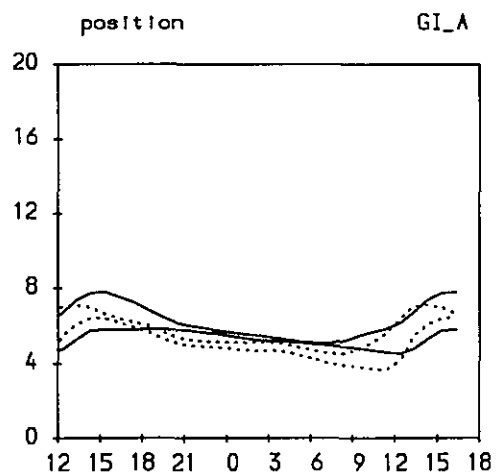
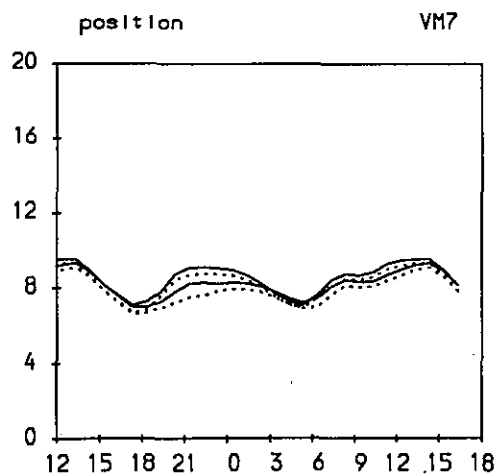
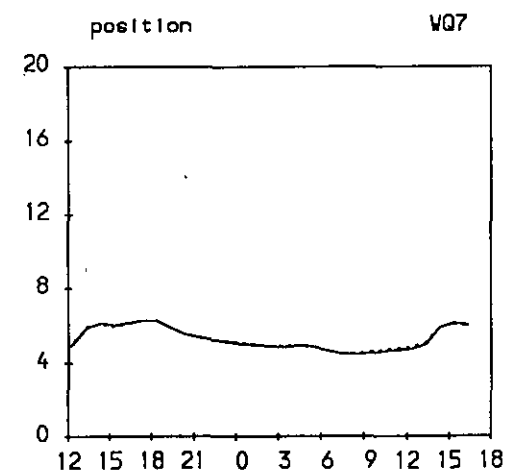
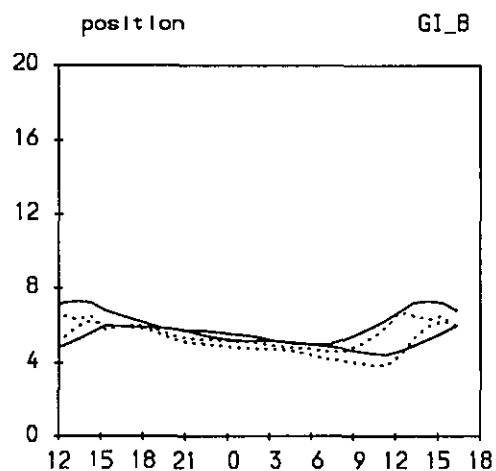
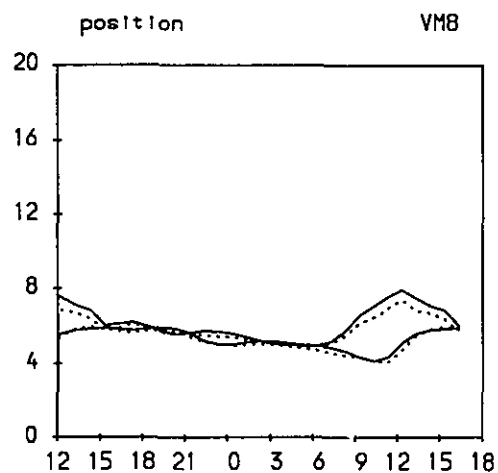
Chlorophyll (ug/l) against time

2 Layer, 100m grid 29 Nov 1993

— Full scen.

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Wet Spring Full scenario (Case 5)

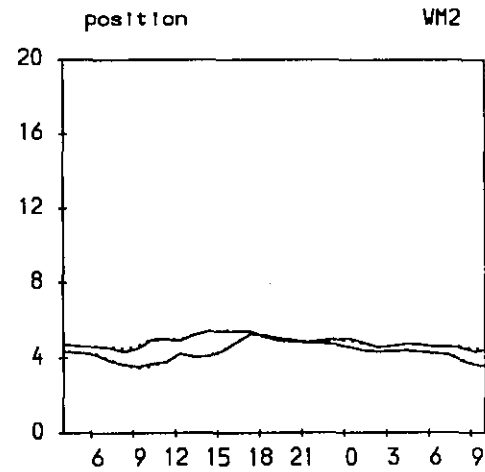
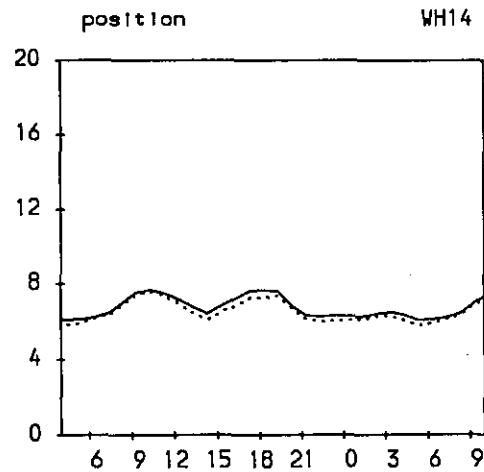
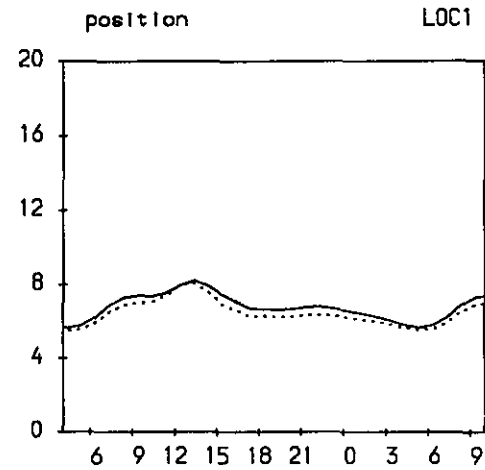
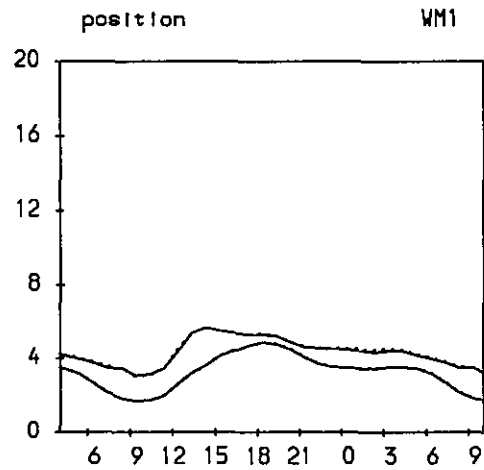
Chlorophyll (ug/L) against time

2 Layer, 100m grid 29 Nov 1993

— Full scen.

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Wet Spring Full scenario (Case 5)

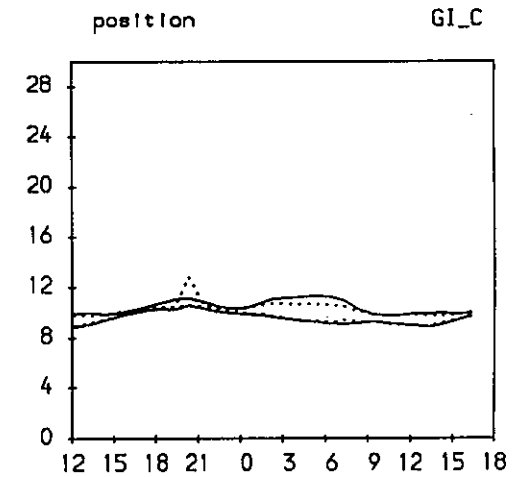
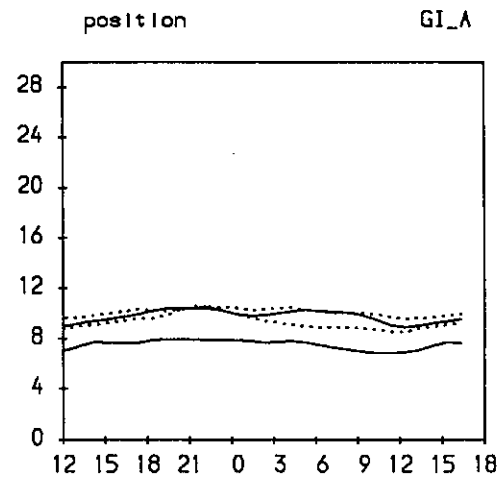
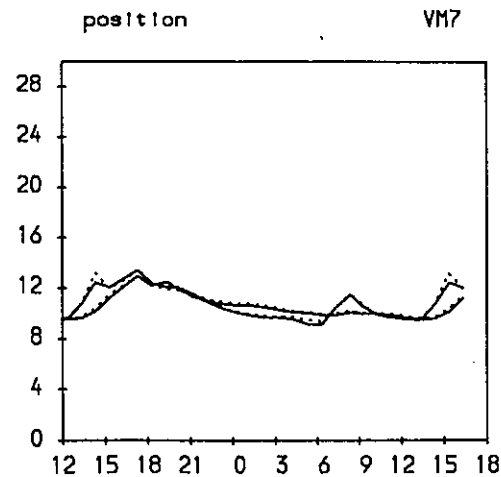
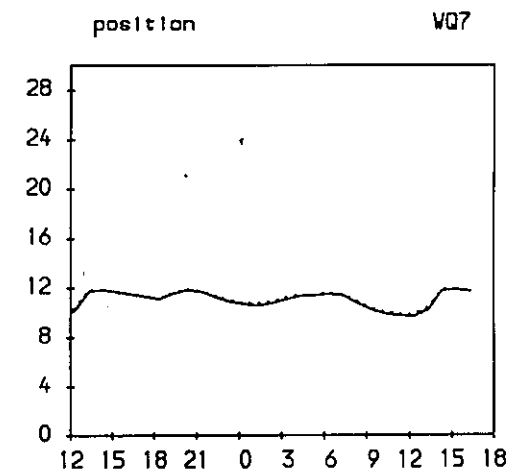
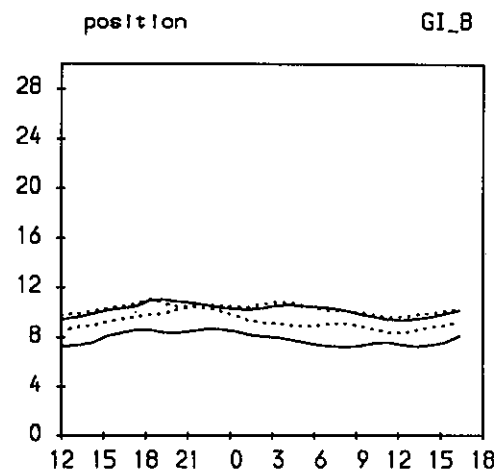
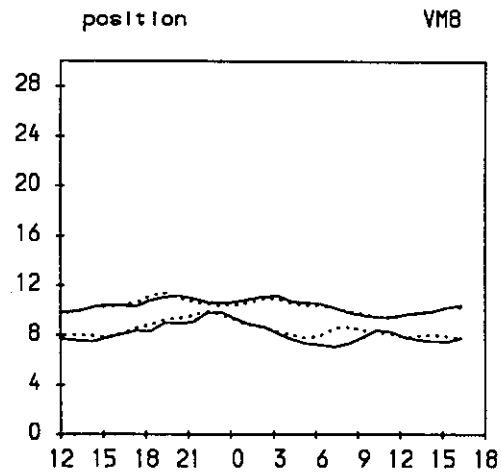
Suspended Solids (mg/l) against time

2 Layer, 100m grid 29 Nov 1993

— Full scen.

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Wet Spring Full scenario (Case 5)

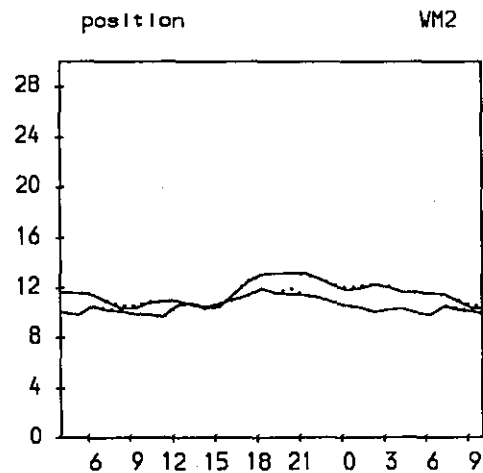
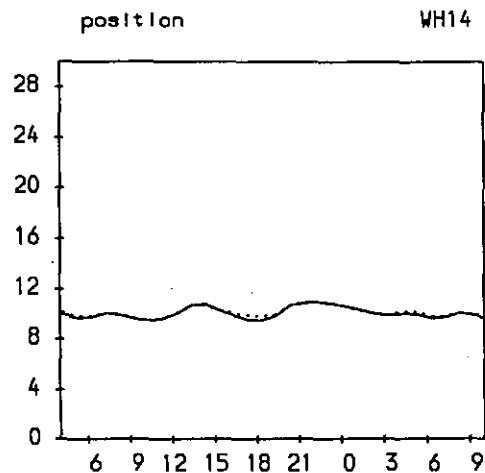
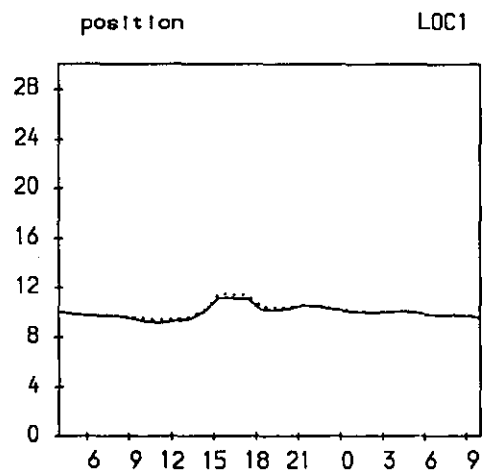
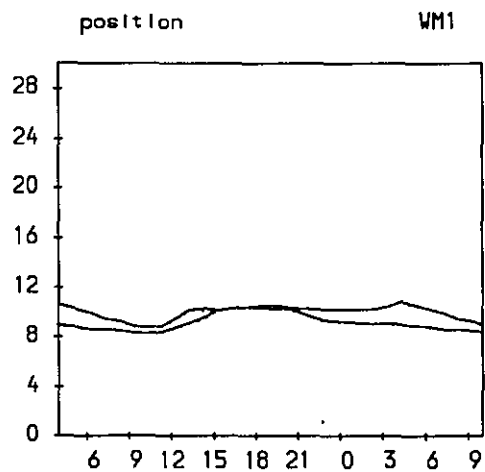
Suspended Solids (mg/l) against time

2 Layer, 100m grid 29 Nov 1993

— Full scen.

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Wet Spring Full scenario (Case 5)

E.Coli (no/100ml) against time

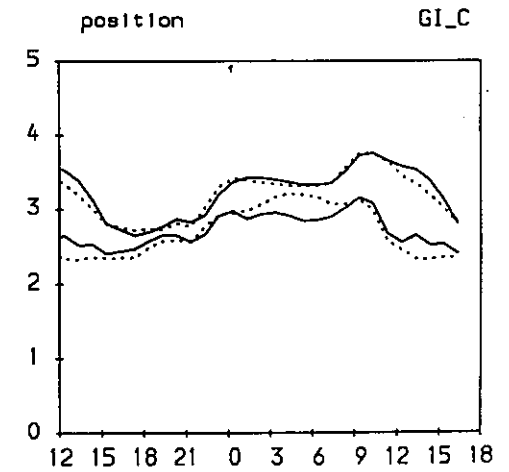
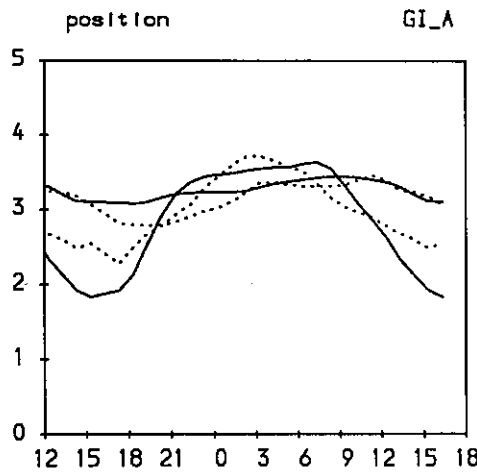
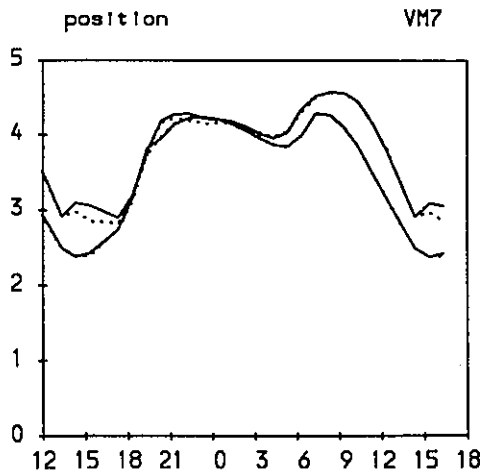
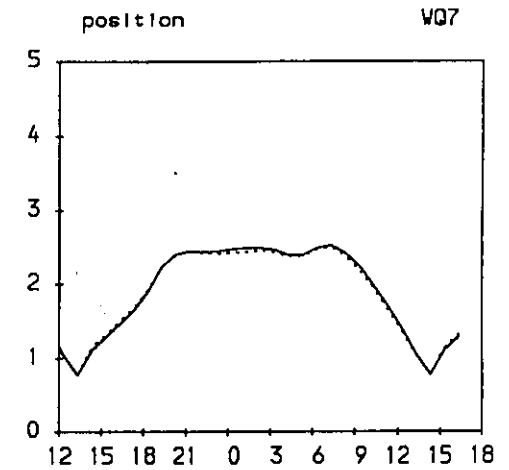
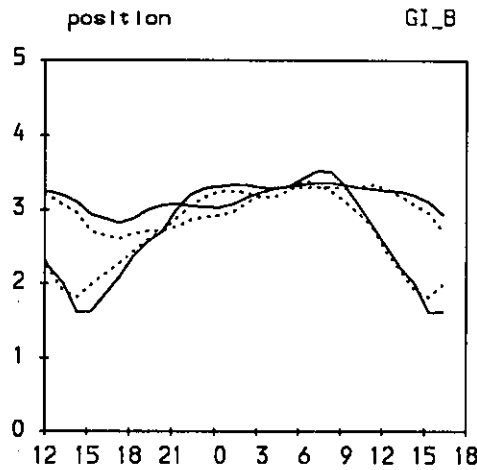
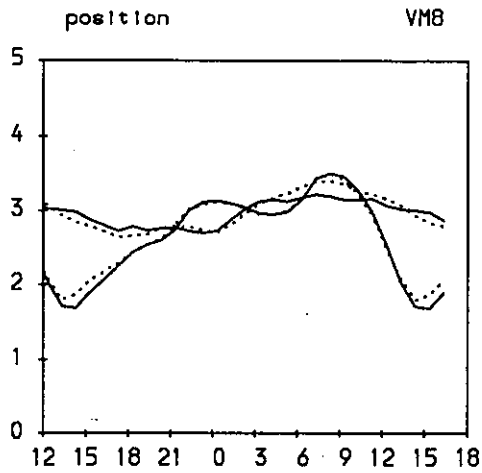
(log to base 10 on y-axis)

2 Layer, 100m grid 29 Nov 1993

— Full scen.

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer

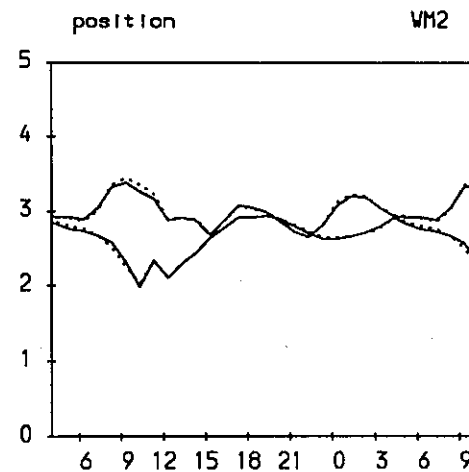
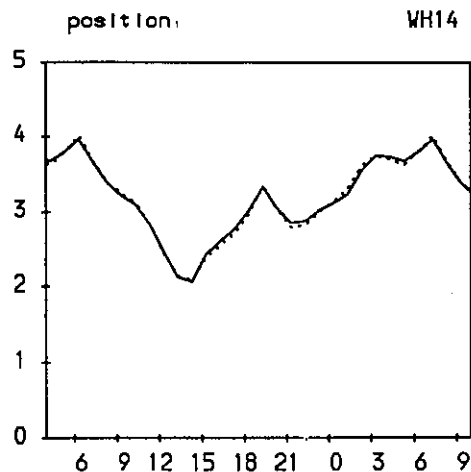
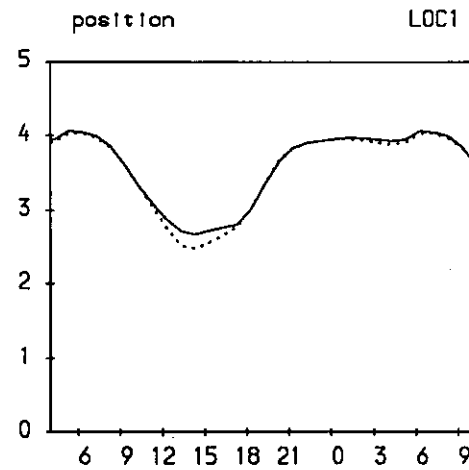
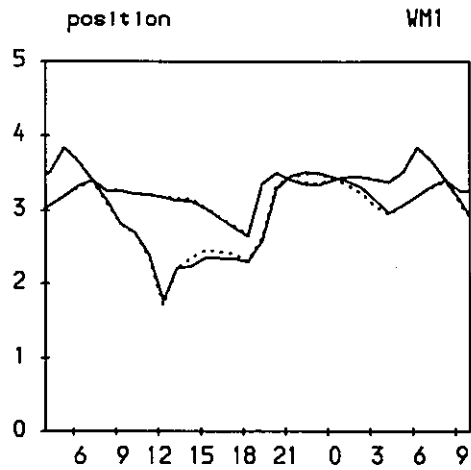


Green Island Wet Spring Full scenario (Case 5)

E.Coli (no/100ml) against time (log to base 10 on y-axis)

2 Layer, 100m grid 29 Nov 1993 — Full scen. Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Wet Spring Full scenario (Case 5)

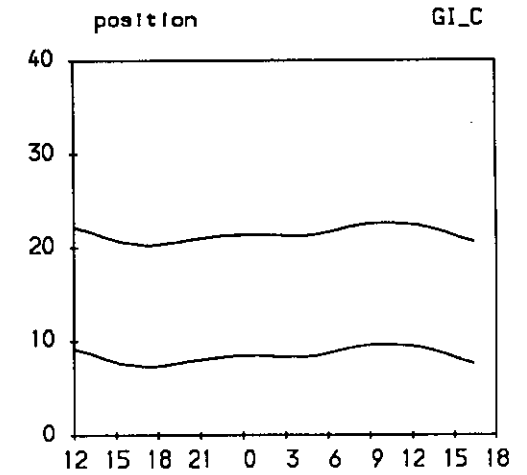
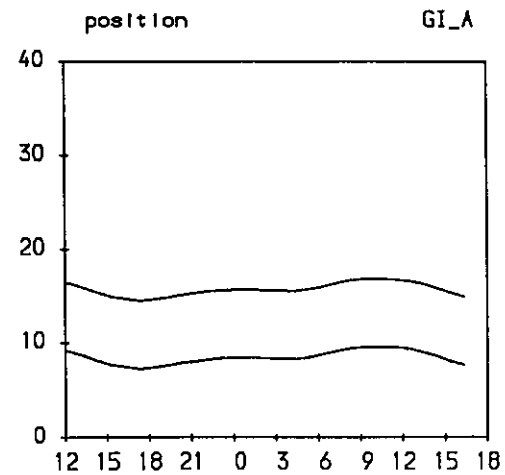
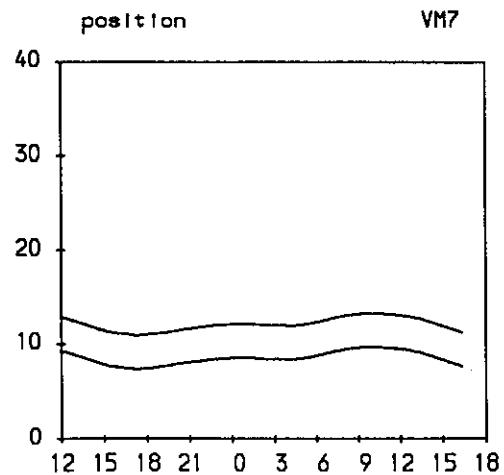
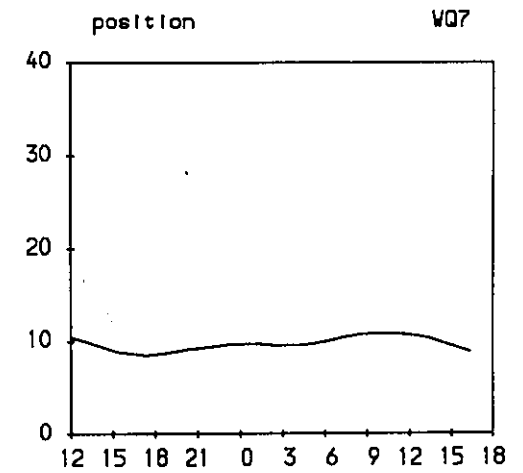
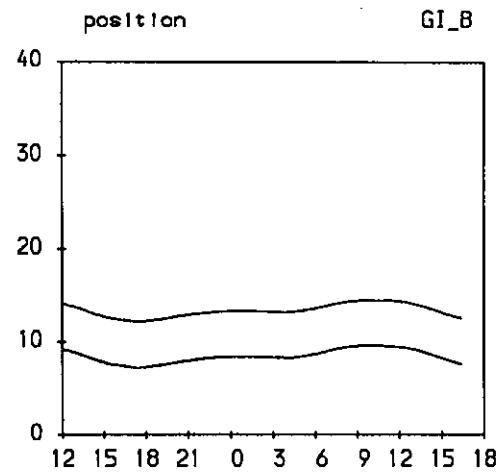
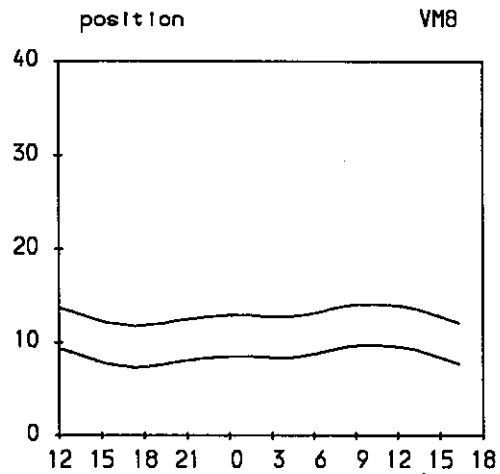
Layer Depth (metres) against time

2 Layer, 100m grid 29 Nov 1993

— Full scen.

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



Green Island Wet Spring Full scenario (Case 5)

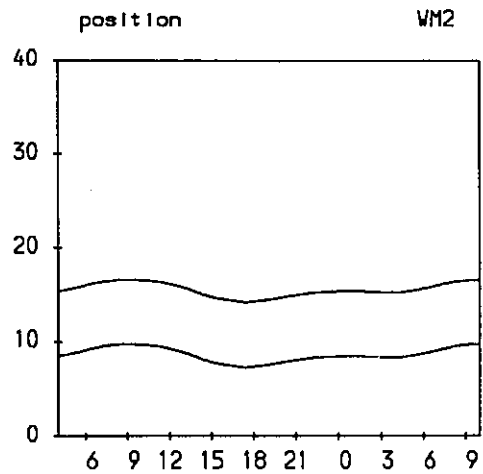
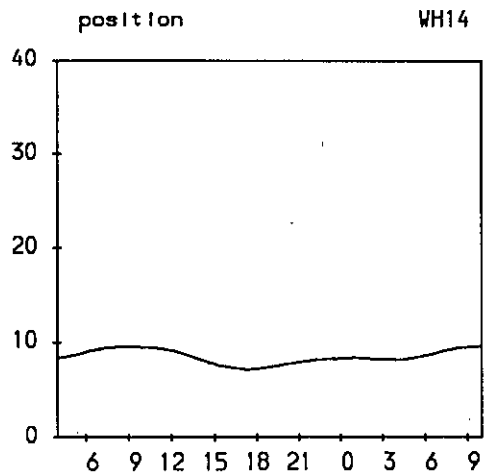
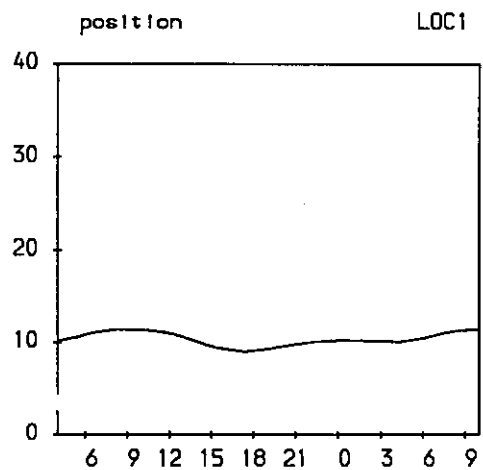
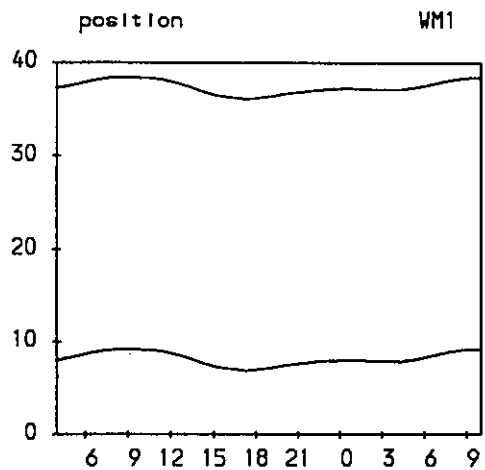
Layer Depth (metres) against time

2 Layer, 100m grid 29 Nov 1993

— Full scen.

..... Baseline

Observed symbols: * Upper layer, Δ Lower layer



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