

NRA South West 107



ENVIRONMENT  
AGENCY

**An Interim Report on the Coastwatch  
Bioaccumulation Programme - Metals**

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Wessex NRA

## Interim report on the Coastwatch Bioaccumulation Programme

The results of the 1980, 1983, 1991 and 1992 Coastwatch metal bioaccumulation programmes are presented for each metal, graphically along the coastlines to allow comparisons between sites. Year to year comparisons can be made between 1992 and 1991 but less confidently with the older data owing to likely differences in methods of collection, preparation and analysis. Between site differences within 1980 and 1983 are probably valid.

The majority of 1991 & 1992 samples were analysed at Severn-Trent plc Laboratories, Coventry except the six Joint Monitoring Programme (JMP) sites which were analysed at Welsh NRA Laboratory, Llanelli. Methods of collection and preparation were consistent for all sites.

Those results from laboratories expressed in wet weights (Severn-Trent and Saltford (1980's)) were converted to dry weight for consistency and comparability. These results are indicated with a tick (✓) in the column "wet->dry". The following conversion was used as developed by previous biologists 'in house'.

|                          |                    |                         |
|--------------------------|--------------------|-------------------------|
| <i>Fucus vesiculosus</i> | mg/kg dry weight = | 5 x mg/kg wet weight    |
| <i>Fucus serratus</i>    | mg/kg dry weight = | 6.15 x mg/kg wet weight |
| <i>Patella vulgata</i>   | mg/kg dry weight = | 5.1 x mg/kg wet weight  |
| <i>Mytilus edulis</i>    | mg/kg dry weight = | 6.9 x mg/kg wet weight  |

Three tissues were sampled to estimate the different routes of metal uptake. The brown seaweed *Fucus vesiculosus* (or *F. serratus* when unavailable, for the dissolved phases), the limpet *Patella vulgata* (particulate) and the mussel *Mytilus edulis* (dissolved and particulate).

Standardised methods were employed throughout to minimise spurious between site and between year differences. All animals and plants were collected from mid-shore height at a fixed time of the year; seaweeds and mussels in February and limpets in April. The time of year is chosen to avoid the reproductive season yet when the animals and plants are in reasonable numbers on the shore. Tissues were quickly washed and lightly scrubbed in distilled water and dissected before sending for analysis. The growing tips of the seaweed fronds were discarded as these are too young to have accumulated any metals. The next 5-7 cm (which includes one 'branch' and equates to no more than one year of growth) was removed and cut into small pieces to aid liquidisation at the laboratory. Air bladders and damaged parts were avoided.

Most of the seaweed data from 1991 and some of the JMP sites limpet samples were discarded at Exeter laboratory following a mix-up. This along with the more sporadic sampling of the 1980's makes any trend analysis difficult. This report will outline the recent situation and leave any trend analysis until the 1993 samples have been analysed.

Published information from ICES of national background and 'substantially elevated' levels of contaminants help put these results in a national context. From these comparisons, it appears that the greatest bioaccumulation is occurring in the Severn Estuary. In most cases the north coast samples reveal far greater metal bioaccumulation than the south coast.

Source : "The 1990 River and Estuary Classification Survey of England and Wales" Water Quality Survey Group.

*Mytilus edulis*

| Substance | National Background | Substantially Elevated |
|-----------|---------------------|------------------------|
| Mercury   | 0.15                | 1.5                    |
| Cadmium   | 1                   | 10                     |
| Arsenic   | 7                   | 70                     |
| Chromium  | 2                   | 20                     |
| Copper    | 6                   | 30                     |
| Lead      | 2.5                 | 25                     |
| Nickel    | 1.5                 | 15                     |
| Zinc      | 90                  | 400                    |

*Fucus vesiculosus*

|          |      |     |
|----------|------|-----|
| Mercury  | 0.02 | 0.2 |
| cadmium  | 0.8  | 8   |
| Arsenic  | 10   | 100 |
| Chromium | 0.6  | 6   |
| Copper   | 3.5  | 35  |
| Lead     | 1    | 10  |
| Nickel   | 4    | 40  |
| Zinc     | 35   | 350 |

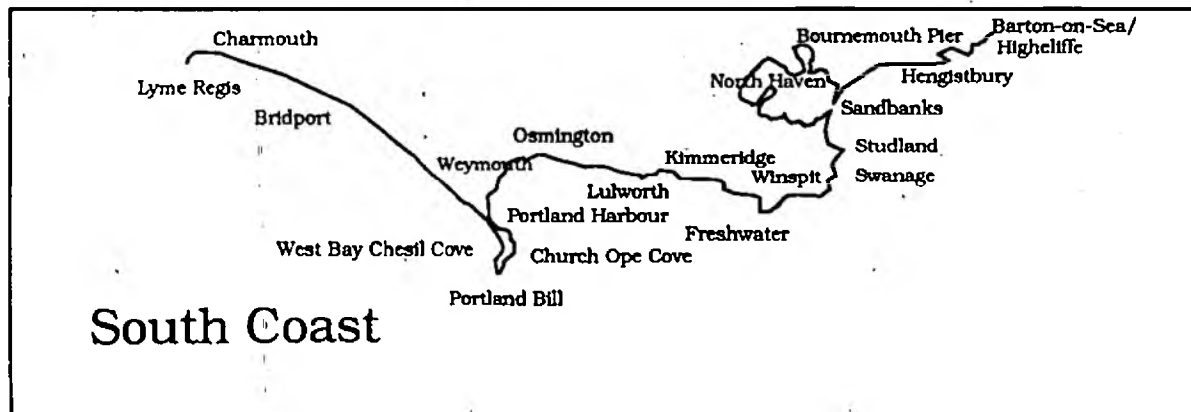
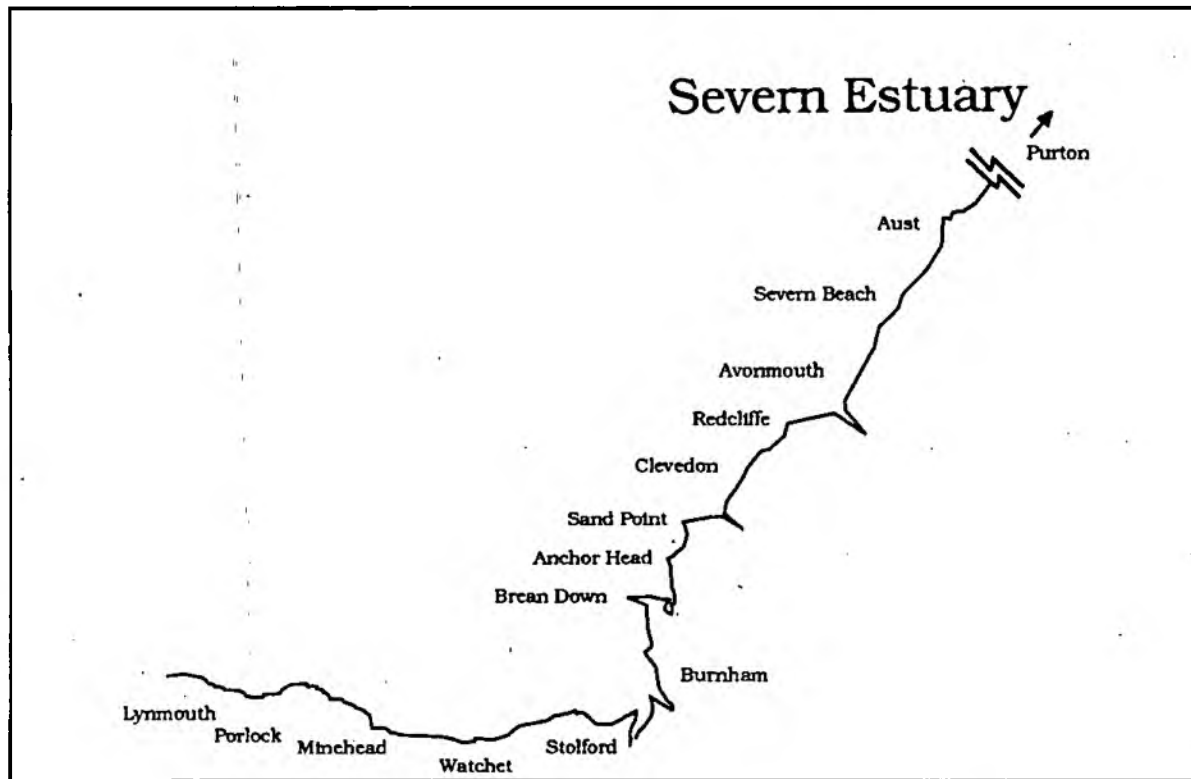
One serious metal contaminant problem is cadmium. In 1992 seaweeds from all North coast sites above Stolford (which equates to the Severn Estuary proper) were 'substantially elevated' above national background levels. The problem sites were the Avonmouth areas and the three headlands of Sand Point, Anchor Head (Weston-Super-Mare) and Brean Down. Comparison with the 1991 data is difficult as some of it is missing, but the 1980 and 1983 data support the recent situation. Cadmium arises most commonly as a by-product of zinc smelting, and much is known to arise from the Avonmouth industry. It has a long half-life and so readily accumulates in plant and animal tissues. Although only moderately toxic itself, it is synergistic with many other elements. Zinc levels themselves were substantially elevated over the same region (except Redcliffe) in 1992, and although very high in 1991 only substantially elevated at Brean Down. Both limpet and seaweed data indicate an increase in zinc levels and a slight decrease in nickel and mercury.

It is worth noting the frequency that high levels of various metals which occur at Anchor Head (Weston-Super-Mare). In 1992 the highest seaweed levels of silver, cadmium, copper and zinc were found here and in the limpets, Anchor Head had the highest levels of nickel, lead, zinc and very high cadmium.

The mussel data is very limited but nonetheless showed very little variation between the few south coast sites represented.

Following the analysis of the 1993 data I will produce a review of the Coastwatch programme to date which will also include the 1985 data already reported. At that time it will be possible to more confidently attempt some viable trend analysis. It is unfortunately unsafe to attempt it on the data in hand at present.

## Coastwatch Sites



## Notes

All sites are sampled at mid-tide

Sampling Dates;

Seaweed *Fucus vesiculosus* - February

Mussel *Mytilus edulis* - February

Limpet *Patella vulgata* - April

|                                                                                       |                                                                                                                            |
|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Job Title:                                                                            | Coastwatch Bio-accumulation Programme                                                                                      |
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|  |                                                                                                                            |

## 1992 Coastwatch Survey. Metal Bio-accumulation.

| <i>Fucus vesiculosus</i> |                      | mg/kg dry weight |         |         |         |         |         |         |         |         | wet->dry |
|--------------------------|----------------------|------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| No.                      | North Coast          | As               | Ni      | Cu      | Cd      | Pb      | Cr      | Hg      | Ag      | Zn      |          |
| 1                        | Purton               | 15.3             | 13.8    | 21.1    | 12.7    | 1.70    | 2.5     | 0.08    | No Data | 445     |          |
| 2                        | Aust                 | 5.5              | 25.0    | 20.0    | 17.0    | 20.00   | <10     | <0.25   | <5      | 600     | ✓        |
| 3                        | Severn Beach         | 2.5              | 20.0    | 25.0    | 18.5    | 20.00   | <10     | <0.25   | <5      | 550     | ✓        |
| 4                        | Avonmouth            | 5.5              | 15.0    | 25.0    | 18.0    | 25.00   | <10     | <0.25   | <5      | 600     | ✓        |
| 5                        | Redcliffe            | 25.8             | 16.2    | 15.7    | 13.4    | 0.91    | 1.9     | 0.05    | No Data | 338     |          |
| 6                        | Clevedon             | 23.3             | 13.1    | 13.6    | 10.8    | 1.03    | 1.8     | 0.03    | No Data | 367     |          |
| 7                        | Sand Point           | 2.5              | 20.0    | 20.0    | 16.5    | 15.00   | <10     | <0.25   | <5      | 1300    | ✓        |
| 8                        | Anchor Head          | 8.0              | 20.0    | 35.0    | 18.5    | <10     | <10     | <0.25   | 5.5     | 2450    | ✓        |
| 9                        | Brean Down           | 33.6             | 19.1    | 20.3    | 16.5    | 1.18    | 1.6     | 0.04    | No Data | 423     |          |
| 10                       | Burnham              | 7.0              | 10.0    | 30.0    | 15.0    | <10     | <10     | <0.25   | <5      | 445     | ✓        |
| 11                       | Stolford             | 30.8             | 13.5    | 16.5    | 10.4    | 1.67    | 1.6     | 0.04    | No Data | 464     |          |
| 12                       | Watchet              | 3.5              | 10.0    | 10.0    | 7.5     | 15.00   | <10     | <0.25   | <5      | 235     | ✓        |
| 13                       | Minehead             | No Data          | 10.0    | 10.0    | 4.5     | 20.00   | <10     | <0.25   | No Data | 205     | ✓        |
| 14                       | Porlock              | 6.0              | 10.0    | 15.0    | 4.5     | <10     | <10     | <0.25   | <5      | 190     | ✓        |
| 15                       | Lynmouth             | 47.7             | 4.9     | 6.8     | 4.7     | 1.07    | <1.5    | 0.04    | No Data | 338     |          |
| No.                      | South Coast          | As               | Ni      | Cu      | Cd      | Pb      | Cr      | Hg      | Ag      | Zn      |          |
| 21                       | Highcliffe           | No Data          | No Data | No Data | No Data | No Data | No Data | No Data | No Data | No Data |          |
| 22                       | Hengistbury          | 3.5              | <10     | 5.0     | <2.5    | <10     | <10     | <0.25   | <5      | 100     | ✓        |
| 23                       | Bournemouth Pier     | No Data          | No Data | No Data | No Data | No Data | No Data | No Data | No Data | No Data |          |
| 24                       | Sandbanks            | 8.0              | 10.0    | 10.0    | <2.5    | <10     | <10     | <0.25   | <5      | 85      | ✓        |
| 25                       | Studland             | 7.0              | <10     | 15.0    | <2.5    | <10     | <10     | <0.25   | <5      | 190     | ✓        |
| 26                       | Swanage              | 5.5              | <10     | 25.0    | 3.0     | 10.00   | <10     | <0.25   | <5      | 125     | ✓        |
| 27                       | Winspit              | No Data          | No Data | No Data | No Data | No Data | No Data | No Data | No Data | No Data |          |
| 28                       | Kimmeridge           | 5.5              | 10.0    | 5.0     | <2.5    | <10     | <10     | <0.25   | <5      | 65      | ✓        |
| 29                       | Lulworth             | 7.0              | <10     | 10.0    | <2.5    | <10     | <10     | <0.25   | <5      | 50      | ✓        |
| 30                       | Osmington            | 2.0              | <10     | 5.0     | <2.5    | <10     | <10     | <0.25   | <5      | 75      | ✓        |
| 31                       | Weymouth             | 3.0              | <10     | 5.0     | <2.5    | 10.00   | <10     | <0.25   | <5      | 60      | ✓        |
| 33                       | Portland Bill        | 6.0              | 10.0    | 5.0     | <2.5    | 10.00   | 10.0    | <0.25   | <5      | 90      | ✓        |
| 34                       | West Bay Chesil Cove | 4.0              | <10     | 15.0    | <2.5    | 15.00   | <10     | <0.25   | <5      | 80      | ✓        |
| 35                       | Portland Harbour     | 6.0              | 10.0    | 10.0    | <2.5    | <10     | <10     | <0.25   | <5      | 125     | ✓        |
| 37                       | Bridport             | 6.0              | 10.0    | 5.0     | 3.0     | <10     | <10     | <0.25   | <5      | 125     | ✓        |
| 38                       | Charmouth            | 2.5              | 15.0    | 15.0    | 3.0     | <10     | <10     | <0.25   | <5      | 155     | ✓        |
|                          | Maximum level        | 47.7             | 25.0    | 35.0    | 18.5    | 25.00   | 10.0    | 0.08    | 5.5     | 2450    |          |

## 1992 Coastwatch Survey. Metal Bio-accumulation.

| <i>Patella vulgata</i> |                      | mg/kg dry weight |         |         |         |         |         |         |         |         | wet->dry |
|------------------------|----------------------|------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| No.                    | North Coast          | As               | Ni      | Cu      | Cd      | Pb      | Cr      | Hg      | Ag      | Zn      |          |
| 1                      | Purton               | No Data          | No Data | No Data | No Data | No Data | No Data | No Data | No Data | No Data |          |
| 2                      | Aust                 | No Data          | No Data | No Data | No Data | No Data | No Data | No Data | No Data | No Data |          |
| 3                      | Severn Beach         | No Data          | No Data | No Data | No Data | No Data | No Data | No Data | No Data | No Data |          |
| 4                      | Avonmouth            | No Data          | No Data | No Data | No Data | No Data | No Data | No Data | No Data | No Data |          |
| 5                      | Redcliffe            | 13.60            | 3.9     | 18.7    | 77.70   | 2.9     | 1.8     | 0.09    | No Data | No Data |          |
| 6                      | Clevedon             | 12.90            | 5.6     | 22.6    | 89.70   | 11.6    | 5.5     | 0.26    | No Data | No Data |          |
| 7                      | Sand Point           | 6.63             | <10.2   | 56.1    | 234.60  | <10.2   | <10.2   | <0.255  | 9.18    | 255.00  | ✓        |
| 8                      | Anchor Head          | 2.55             | 15.3    | 45.9    | 224.40  | 15.3    | 15.3    | <0.255  | <5.1    | 275.40  | ✓        |
| 9                      | Brean Down           | 11.80            | 3.9     | 19.9    | 86.00   | 2.7     | 3.8     | 0.20    | No Data | No Data |          |
| 10                     | Burnham              | No Data          | No Data | No Data | No Data | No Data | No Data | No Data | No Data | No Data |          |
| 11                     | Stolford             | 15.70            | 2.6     | 17.6    | 95.80   | 2.4     | <1.5    | 0.08    | No Data | No Data |          |
| 12                     | Watchet              | 6.12             | 10.2    | 71.4    | 137.70  | <10.2   | <10.2   | <0.255  | <5.1    | 265.20  | ✓        |
| 13                     | Minehead             | 4.08             | <10.2   | 15.3    | 39.78   | <10.2   | <10.2   | <0.255  | 6.63    | 127.50  | ✓        |
| 14                     | Porlock              | 38.76            | <10.2   | 71.4    | 27.54   | <10.2   | <10.2   | <0.255  | No Data | 275.40  | ✓        |
| 15                     | Lynmouth             | 11.90            | 2.8     | 10.8    | 11.90   | 2.2     | 3.1     | 0.13    | No Data | No Data |          |
| No.                    | South Coast          | As               | Ni      | Cu      | Cd      | Pb      | Cr      | Hg      | Ag      | Zn      |          |
| 21                     | Highcliffe           | 1.53             | 10.2    | 20.4    | 4.59    | <10.2   | <10.2   | <0.255  | <5.1    | 81.60   | ✓        |
| 22                     | Hengistbury          | 5.61             | 10.2    | 15.3    | <2.55   | <10.2   | <10.2   | <0.255  | <5.1    | 76.50   | ✓        |
| 23                     | Bournemouth Pier     | 4.59             | <10.2   | 30.6    | <2.55   | <10.2   | <10.2   | <0.255  | <5.1    | 147.90  | ✓        |
| 24                     | Sandbanks            | 3.06             | 10.2    | 30.6    | 3.57    | 10.2    | 10.2    | <0.255  | <5.1    | 117.30  | ✓        |
| 25                     | Studland             | No Data          | No Data | No Data | No Data | No Data | No Data | No Data | No Data | No Data |          |
| 26                     | Swanage              | 0.51             | <10.2   | 20.4    | 3.06    | 10.2    | <10.2   | <0.255  | <5.1    | 112.20  | ✓        |
| 27                     | Winspit              | 2.04             | <10.2   | 20.4    | <2.55   | <10.2   | <10.2   | <0.255  | <5.1    | 61.20   | ✓        |
| 28                     | Kimmeridge           | 2.40             | <10.2   | 20.4    | 3.57    | <10.2   | <10.2   | <0.255  | <5.1    | 81.60   | ✓        |
| 29                     | Lulworth             | 3.57             | <10.2   | 15.3    | <2.55   | <10.2   | <10.2   | <0.255  | <5.1    | 66.30   | ✓        |
| 30                     | Osmington            | 2.55             | <10.2   | 15.3    | 4.59    | <10.2   | <10.2   | <0.255  | <5.1    | 86.70   | ✓        |
| 31                     | Weymouth             | 1.02             | <10.2   | 15.3    | 4.08    | <10.2   | <10.2   | <0.255  | <5.1    | 81.60   | ✓        |
| 33                     | Portland Bill        | 2.04             | <10.2   | 10.2    | 2.55    | <10.2   | <10.2   | <0.255  | <5.1    | 61.20   | ✓        |
| 34                     | West Bay Chesil Cove | 37.23            | 10.2    | 25.5    | 2.55    | <10.2   | 15.3    | <0.255  | 5.61    | 61.20   |          |
| 35                     | Portland Harbour     | No Data          | No Data | No Data | No Data | No Data | No Data | No Data | No Data | No Data |          |
| 37                     | Bridport             | 5.10             | 10.2    | 30.6    | 3.57    | <10.2   | 20.4    | <0.255  | <5.1    | 76.50   | ✓        |
| 38                     | Lyme Regis           | 4.08             | 15.3    | 30.6    | 6.12    | <10.2   | 10.2    | <0.255  | <5.1    | 127.50  | ✓        |
|                        | Maximum level        | 38.76            | 15.3    | 71.4    | 234.60  | 15.3    | 20.4    | 0.26    | 9.18    | 275.40  |          |



1992 Coastwatch Survey. Metal Bio-accumulation.

| <i>Mytilus edulis</i> |                  | mg/kg dry weight |       |      |       |       |       |        |      |      | wet->dry |
|-----------------------|------------------|------------------|-------|------|-------|-------|-------|--------|------|------|----------|
| No.                   | South Coast      | As               | Ni    | Cu   | Cd    | Pb    | Cr    | Hg     | Ag   | Zn   |          |
| 21                    | Highcliffe       | 2.07             | <13.8 | 13.8 | <3.45 | <13.8 | <13.8 | <0.345 | <6.9 | 69.0 | ✓        |
| 22                    | Hengistbury      | 2.07             | <13.8 | 13.8 | <3.45 | <13.8 | <13.8 | <0.345 | <6.9 | 82.8 | ✓        |
| 23                    | Bournemouth Pier | 2.07             | <13.8 | 6.9  | <3.45 | <13.8 | <13.8 | <0.345 | <6.9 | 82.8 | ✓        |
| 26                    | Swanage          | 2.76             | <13.8 | 13.8 | 3.45  | <13.8 | <13.8 | <0.345 | <6.9 | 82.8 | ✓        |
|                       | Maximum level    | 2.76             | <13.8 | 13.8 | 3.45  | <13.8 | <13.8 | <0.345 | <6.9 | 82.8 |          |

1991 Coastwatch Survey. Metal Bio-accumulation.

| <i>Fucus vesiculosus</i> |                      | mg/kg dry weight |         |         |         |         |         |         |         |         |          |
|--------------------------|----------------------|------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| No.                      | North Coast          | As               | Ni      | Cu      | Cd      | Pb      | Cr      | Hg      | Ag      | Zn      | wet->dry |
| 1                        | Purton               | 11.2             | 18.3    | 28      | 9.8     | 1.9     | <1.5    | 0.083   | No Data | 299     |          |
| 2                        | Aust                 | No Data          | No Data | No Data | No Data | No Data | No Data | No Data | No Data | No Data |          |
| 3                        | Severn Beach         | No Data          | No Data | No Data | No Data | No Data | No Data | No Data | No Data | No Data |          |
| 4                        | Avonmouth            | No Data          | No Data | No Data | No Data | No Data | No Data | No Data | No Data | No Data |          |
| 5                        | Redcliffe            | 12.6             | 17.4    | 24      | 6.9     | 0.96    | <1.5    | 0.06    | No Data | 183     |          |
| 6                        | Clevedon             | 9.5              | 13      | 16.9    | 5.4     | 1.2     | <1.5    | 0.054   | No Data | 152     |          |
| 7                        | Sand Point           | No Data          | No Data | No Data | No Data | No Data | No Data | No Data | No Data | No Data |          |
| 8                        | Anchor Head          | No Data          | No Data | No Data | No Data | No Data | No Data | No Data | No Data | No Data |          |
| 9                        | Brean Down           | 24               | 31      | 28      | 18.6    | 1.7     | <1.5    | 0.079   | No Data | 432     |          |
| 10                       | Burnham              | No Data          | No Data | No Data | No Data | No Data | No Data | No Data | No Data | No Data |          |
| 11                       | Stolford             | 20               | 14.5    | 41      | 8.6     | 1.7     | <1.5    | 0.109   | No Data | 224     |          |
| 12                       | Watchet              | No Data          | No Data | No Data | No Data | No Data | No Data | No Data | No Data | No Data |          |
| 13                       | Minehead             | No Data          | No Data | No Data | No Data | No Data | No Data | No Data | No Data | No Data |          |
| 14                       | Porlock              | 18.7             | 12.4    | 50      | 4.8     | 2.9     | <1.5    | 0.19    | No Data | 208     |          |
| 15                       | Lynmouth             | No Data          | No Data | No Data | No Data | No Data | No Data | No Data | No Data | No Data |          |
| No.                      | South Coast          | As               | Ni      | Cu      | Cd      | Pb      | Cr      | Hg      | Ag      | Zn      |          |
| 21                       | Highcliffe           | No Data          | No Data | No Data | No Data | No Data | No Data | No Data | No Data | No Data |          |
| 22                       | Hengistbury          | No Data          | No Data | No Data | No Data | No Data | No Data | No Data | No Data | No Data |          |
| 23                       | Bournemouth Pier     | No Data          | No Data | No Data | No Data | No Data | No Data | No Data | No Data | No Data |          |
| 24                       | Sandbanks            | No Data          | No Data | No Data | No Data | No Data | No Data | No Data | No Data | No Data |          |
| 25                       | Studland             | No Data          | No Data | No Data | No Data | No Data | No Data | No Data | No Data | No Data |          |
| 26                       | Swanage              | No Data          | No Data | No Data | No Data | No Data | No Data | No Data | No Data | No Data |          |
| 27                       | Winspit              | No Data          | No Data | No Data | No Data | No Data | No Data | No Data | No Data | No Data |          |
| 28                       | Kimmeridge           | No Data          | No Data | No Data | No Data | No Data | No Data | No Data | No Data | No Data |          |
| 29                       | Lulworth             | No Data          | No Data | No Data | No Data | No Data | No Data | No Data | No Data | No Data |          |
| 30                       | Osmington            | No Data          | No Data | No Data | No Data | No Data | No Data | No Data | No Data | No Data |          |
| 31                       | Weymouth             | No Data          | No Data | No Data | No Data | No Data | No Data | No Data | No Data | No Data |          |
| 33                       | Portland Bill        | No Data          | No Data | No Data | No Data | No Data | No Data | No Data | No Data | No Data |          |
| 34                       | West Bay Chesil Cove | No Data          | No Data | No Data | No Data | No Data | No Data | No Data | No Data | No Data |          |
| 35                       | Portland Harbour     | No Data          | No Data | No Data | No Data | No Data | No Data | No Data | No Data | No Data |          |
| 37                       | Bridport             | No Data          | No Data | No Data | No Data | No Data | No Data | No Data | No Data | No Data |          |
| 38                       | Lyme Regis           | No Data          | No Data | No Data | No Data | No Data | No Data | No Data | No Data | No Data |          |
|                          | Maximum level        | 24               | 31      | 50      | 18.6    | 2.9     | <1.5    | 0.19    | No Data | 432     |          |



## 1991 Coastwatch Survey. Metal Bio-accumulation.

| <i>Patella vulgata</i> |                      | mg/kg dry weight |         |         |         |         |         |         |         |         | wet->dry |
|------------------------|----------------------|------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| No.                    | North Coast          | As               | Ni      | Cu      | Cd      | Pb      | Cr      | Hg      | Ag      | Zn      |          |
| 1                      | Purton               | No Data          | No Data | No Data | No Data | No Data | No Data | No Data | No Data | No Data |          |
| 2                      | Aust                 | No Data          | No Data | No Data | No Data | No Data | No Data | No Data | No Data | No Data |          |
| 3                      | Severn Beach         | No Data          | No Data | No Data | No Data | No Data | No Data | No Data | No Data | No Data |          |
| 4                      | Avonmouth            | No Data          | No Data | No Data | No Data | No Data | No Data | No Data | No Data | No Data |          |
| 5                      | Redcliffe            | No Data          | No Data | No Data | No Data | No Data | No Data | No Data | No Data | No Data |          |
| 6                      | Clevedon             | No Data          | No Data | No Data | No Data | No Data | No Data | No Data | No Data | No Data |          |
| 7                      | Sand Point           | 19.8             | 12.2    | 26.9    | 227     | 8.2     | 20.8    | 0.214   | 4.58    | 197     |          |
| 8                      | Anchor Head          | 20.2             | 20.3    | 26.4    | 230     | 13.3    | 38.9    | 0.225   | 5.56    | 173     |          |
| 9                      | Brean Down           | No Data          | No Data | No Data | No Data | No Data | No Data | No Data | No Data | No Data |          |
| 10                     | Burnham              | No Data          | No Data | No Data | No Data | No Data | No Data | No Data | No Data | No Data |          |
| 11                     | Stolford             | No Data          | No Data | No Data | No Data | No Data | No Data | No Data | No Data | No Data |          |
| 12                     | Watchet              | 26.1             | 15      | 23.5    | 199     | 8.5     | 26.4    | 0.217   | 4.91    | 138     |          |
| 13                     | Minehead             | No Data          | No Data | No Data | No Data | No Data | No Data | No Data | No Data | No Data |          |
| 14                     | Porlock              | No Data          | No Data | No Data | No Data | No Data | No Data | No Data | No Data | No Data |          |
| 15                     | Lynmouth             | 14               | 8       | 9.9     | 17.3    | 5.8     | 15.5    | 0.167   | 5.23    | 88      |          |
| No.                    | South Coast          | As               | Ni      | Cu      | Cd      | Pb      | Cr      | Hg      | Ag      | Zn      |          |
| 21                     | Highcliffe           | 13.4             | 8.03    | 9.5     | 2.32    | 2.49    | 14.6    | 0.078   | 1.3     | 85.5    |          |
| 22                     | Hengistbury          | 13.9             | 6.03    | 10.2    | 1.77    | 1.72    | 6.5     | 0.089   | 0.84    | 92.1    |          |
| 23                     | Bournemouth Pier     | 14.3             | 6.9     | 10.2    | 2.21    | 2.08    | 10.2    | 0.092   | 0.8     | 95.4    |          |
| 24                     | Sandbanks            | 16.4             | 5.1     | 9.6     | 3.54    | 2.02    | 7.4     | 0.083   | 0.93    | 70.9    |          |
| 25                     | Studland             | No Data          | No Data | No Data | No Data | No Data | No Data | No Data | No Data | No Data |          |
| 26                     | Swanage              | 17.3             | 4.36    | 12.1    | 2.86    | 6.08    | 3.72    | 0.067   | 0.61    | 78.2    |          |
| 27                     | Winspit              | 14.6             | 3.14    | 8.4     | 2.41    | 1.49    | 3.07    | 0.064   | 1.47    | 52.1    |          |
| 28                     | Kimmeridge           | 26               | 4.9     | 8       | 12.1    | 1.54    | 6.4     | 0.09    | 1.78    | 74.1    |          |
| 29                     | Lulworth             | 15.6             | 9.4     | 8.6     | 4.2     | 1.71    | 16.4    | 0.101   | 1.53    | 53.6    |          |
| 30                     | Osmington            | 23               | 6.6     | 8.1     | 7.13    | 1.77    | 8.7     | 0.085   | 1.27    | 79.3    |          |
| 31                     | Weymouth             | 27.9             | 3.15    | 8.4     | 5.85    | 1.16    | 3.6     | 0.1     | 1.6     | 78      |          |
| 33                     | Portland Bill        | 19.6             | 3.71    | 8.1     | 2.49    | 2.21    | 3.96    | 0.085   | 1.24    | 51.5    |          |
| 34                     | West Bay Chesil Cove | No Data          | No Data | No Data | No Data | No Data | No Data | No Data | No Data | No Data |          |
| 35                     | Portland Harbour     | No Data          | No Data | No Data | No Data | No Data | No Data | No Data | No Data | No Data |          |
| 37                     | Bridport             | 16.8             | 12.7    | 11.8    | 4.58    | 2.76    | 26.5    | 0.123   | 1.23    | 82.4    |          |
| 38                     | Lyme Regis           | No Data          | No Data | No Data | No Data | No Data | No Data | No Data | No Data | No Data |          |
|                        | Maximum level        | 27.9             | 20.3    | 26.9    | 230     | 13.3    | 38.9    | 0.225   | 5.56    | 197     |          |

1991 Coastwatch Survey. Metal Bio-accumulation.

| <i>Mytilus edulis</i> |                  | mg/kg dry weight |     |     |     |     |     |       |      |       |          |
|-----------------------|------------------|------------------|-----|-----|-----|-----|-----|-------|------|-------|----------|
| No.                   | North Coast      | As               | Ni  | Cu  | Cd  | Pb  | Cr  | Hg    | Ag   | Zn    | wet->dry |
| 21                    | Highcliffe       | 8.6              | 4.2 | 6.4 | 0.6 | 1.9 | 5.3 | 0.136 | 0.16 | 62.30 |          |
| 22                    | Hengistbury      | 10.8             | 4.4 | 6.1 | 0.6 | 1.4 | 3.3 | 0.152 | 0.15 | 73.20 |          |
| 23                    | Bournemouth Pier | 9.8              | 2.3 | 6.4 | 0.5 | 2.0 | 2.4 | 0.109 | 0.24 | 70.20 |          |
| 24                    | Sandbanks        | 12.8             | 2.2 | 8.0 | 0.5 | 2.6 | 1.8 | 0.157 | 0.12 | 73.20 |          |
| 37                    | Bridport         | 10.2             | 5.0 | 7.0 | 0.6 | 2.5 | 6.0 | 0.200 | 0.10 | 65.10 |          |
|                       | Maximum level    | 12.8             | 5.0 | 8.0 | 0.6 | 2.6 | 6.0 | 0.200 | 0.24 | 73.20 |          |

1983 Coastwatch Survey. Metal Bio-accumulation.

| <i>Fucus vesiculosus</i> mg/kg dry weight |               |       |       |      |       |       |      |        |        |       |          |
|-------------------------------------------|---------------|-------|-------|------|-------|-------|------|--------|--------|-------|----------|
| No.                                       | North Coast   | Ni    | Cu    | Cd   | Pb    | Cr    | Hg   | Zn     | Fe     | Mn    | wet->dry |
| 2                                         | Aust          | 2.40  | 12.20 | 6.40 | 5.00  | 1.00  | <0.1 | 132.00 | 250.00 | 28.00 | ✓        |
| 3                                         | Severn Beach  | 6.00  | 10.00 | 5.30 | 5.00  | 5.00  | <0.1 | 102.00 | 590.00 | 49.00 | ✓        |
| 5                                         | Redcliffe     | 1.80  | 3.40  | 2.90 | 2.00  | 2.00  | <0.1 | 44.00  | 120.00 | 16.00 | ✓        |
| 7                                         | Sand Point    | 2.40  | 8.90  | 3.70 | 2.00  | 1.00  | 0.10 | 51.00  | 130.00 | 14.00 | ✓        |
| 10                                        | Burnham       | 6.00  | 12.80 | 3.00 | 2.00  | 1.00  | <0.1 | 73.00  | 90.00  | 32.00 | ✓        |
| 12                                        | Watchet       | 29.80 | 8.90  | 2.60 | 2.00  | 27.00 | <0.1 | 64.00  | 320.00 | 42.00 | ✓        |
| 13                                        | Minehead      | 4.80  | 8.90  | 4.50 | 3.00  | 3.00  | <0.1 | 98.00  | 160.00 | 22.00 | ✓        |
| No.                                       | South Coast   | Ni    | Cu    | Cd   | Pb    | Cr    | Hg   | Zn     | Fe     | Mn    |          |
| 25                                        | Studland      | 6.00  | 5.60  | 1.00 | 13.00 | 3.00  | <0.1 | 41.00  | 190.00 | 60.00 | ✓        |
| 26                                        | Swanage       | 3.50  | 5.00  | 1.10 | 1.00  | 2.00  | <0.1 | 43.00  | 80.00  | 25.00 | ✓        |
| 28                                        | Kimmeridge    | 18.00 | 3.90  | 1.10 | <1    | 2.00  | <0.1 | 30.00  | 70.00  | 12.00 | ✓        |
| 38                                        | Lyme Regis    | 3.00  | 2.20  | 0.90 | <1    | 1.00  | 0.20 | 23.00  | 100.00 | 18.00 | ✓        |
|                                           | Maximum level | 29.80 | 12.80 | 6.40 | 13.00 | 27.00 | 0.20 | 132.00 | 590.00 | 60.00 |          |

1983 Coastwatch Survey. Metal Bio-accumulation.

| <b>Patella</b> |                    | <b>mg/kg dry weight</b> |           |           |           |           |           |           |           |           |                    |
|----------------|--------------------|-------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--------------------|
| <b>No.</b>     | <b>North Coast</b> | <b>Ni</b>               | <b>Cu</b> | <b>Cd</b> | <b>Pb</b> | <b>Cr</b> | <b>Hg</b> | <b>Zn</b> | <b>Fe</b> | <b>Mn</b> | <b>wet-&gt;dry</b> |
| 8              | Weston-S-Mare      | 8.57                    | 16.32     | 157.08    | 9.18      | 10.20     | No Data   | 145.86    | 2111.40   | 47.94     | √                  |
| <b>No.</b>     | <b>South Coast</b> | <b>Ni</b>               | <b>Cu</b> | <b>Cd</b> | <b>Pb</b> | <b>Cr</b> | <b>Hg</b> | <b>Zn</b> | <b>Fe</b> | <b>Mn</b> |                    |
| 26             | Swanage            | 6.73                    | 26.11     | 11.93     | 21.42     | 3.06      | 0.31      | 151.98    | 3192.60   | 22.44     | √                  |
| 38             | Lyme Regis         | 80.58                   | 24.48     | 6.43      | 9.18      | 108.12    | 0.10      | 121.38    | 7864.20   | 173.40    | √                  |
|                | Maximum level      | 80.58                   | 26.11     | 157.08    | 21.42     | 108.12    | 0.31      | 151.98    | 7864.20   | 173.40    |                    |

1980 Coastwatch Survey. Metal Bio-accumulation.

| Fucoids |                  | mg/kg dry weight     |       |       |       |       |      |        |          |
|---------|------------------|----------------------|-------|-------|-------|-------|------|--------|----------|
| No.     | North Coast      | Species              | Ni    | Cu    | Cd    | Pb    | Cr   | Zn     | wet->dry |
| 4       | Avonmouth        | <i>F.serratus</i>    | 10.28 | 29.60 | 10.95 | 31.90 | 1.81 | 224.00 |          |
| No.     | South Coast      | Species              | Ni    | Cu    | Cd    | Pb    | Cr   | Zn     |          |
| 20      | North Haven      | <i>F.vesiculosus</i> | 4.74  | 12.75 | 0.95  | 22.45 | 1.35 | 50.75  |          |
| 22      | Hengistbury      | <i>F.serratus</i>    | 4.83  | 20.20 | 0.99  | 30.25 | 1.48 | 74.25  |          |
| 24      | Sandbanks        | <i>F.spiralis</i>    | 4.48  | 24.65 | 0.96  | 30.20 | 1.58 | 55.65  |          |
| 25      | Studland         | <i>F.serratus</i>    | 5.09  | 18.50 | 0.61  | 32.95 | 1.73 | 55.25  |          |
| 26      | Swanage          | <i>F.serratus</i>    | 3.96  | 13.55 | 1.94  | 32.50 | 1.59 | 59.15  |          |
| 28      | Kimmeridge       | <i>F.vesiculosus</i> | 5.63  | 11.80 | 1.12  | 26.80 | 1.86 | 50.00  |          |
| 29      | Lulworth         | <i>F.vesiculosus</i> | 4.50  | 9.00  | 0.44  | 28.55 | 6.09 | 47.85  |          |
| 30      | Osmington        | <i>F.vesiculosus</i> | 4.99  | 12.10 | 0.60  | 31.05 | 1.98 | 50.60  |          |
| 31      | Weymouth         | <i>F.serratus</i>    | 5.35  | 24.83 | 0.75  | 41.20 | 2.22 | 208.00 |          |
| 32      | Church Hope Cove | <i>F.spiralis</i>    | 3.82  | 10.45 | 0.70  | 32.95 | 1.77 | 40.10  |          |
| 33      | Portland Bill    | <i>F.spiralis</i>    | 5.67  | 13.50 | 0.42  | 27.00 | 1.44 | 44.80  |          |
| 34      | West Bay         | <i>F.serratus</i>    | 6.03  | 13.50 | 1.03  | 36.76 | 1.82 | 158.20 |          |
| 38      | Lyme/Bridport    | <i>F.serratus</i>    | 13.35 | 19.75 | 1.89  | 39.40 | 1.83 | 541.00 |          |
| 39      | Freshwater       | <i>F.spiralis</i>    | 3.60  | 9.86  | 0.32  | 32.00 | 1.56 | 65.30  |          |
|         | Maximum level    |                      | 13.35 | 29.60 | 10.95 | 41.20 | 6.09 | 541.00 |          |

1980 Coastwatch Survey. Metal Bio-accumulation.

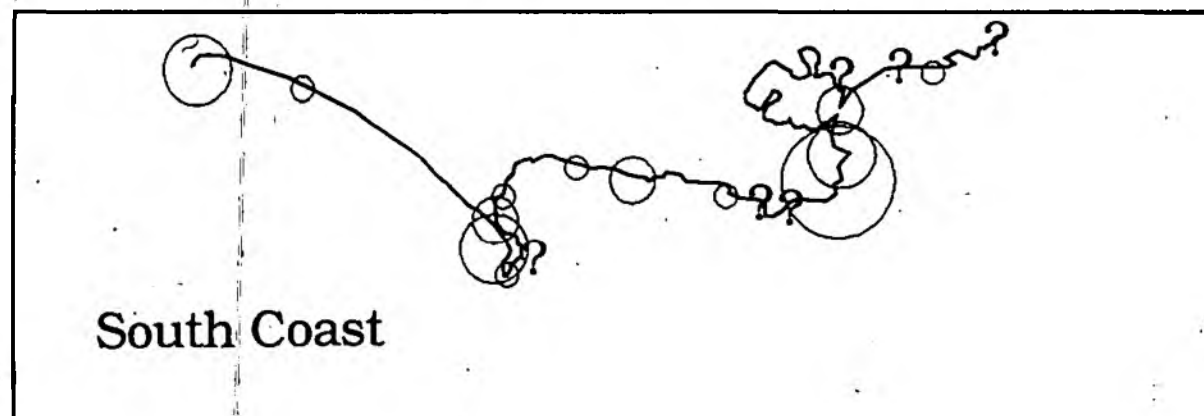
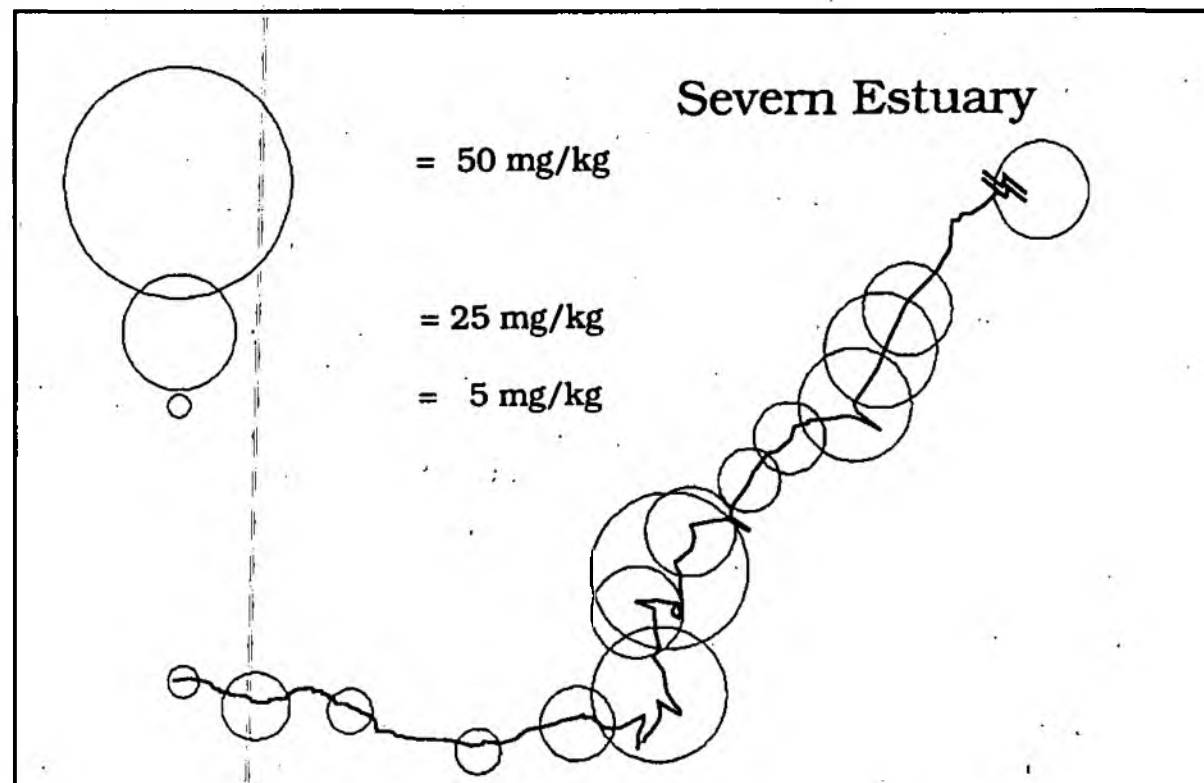
| <i>Patella vulgata</i> |                  | mg/kg dry weight |       |       |       |      |        |          |
|------------------------|------------------|------------------|-------|-------|-------|------|--------|----------|
| No.                    | North Coast      | Ni               | Cu    | Cd    | Pb    | Cr   | Zn     | wet->dry |
| 4                      | Avonmouth        | 9.14             | 61.08 | 44.59 | 33.77 | 7.67 | 267.19 |          |
| No.                    | South Coast      | Ni               | Cu    | Cd    | Pb    | Cr   | Zn     |          |
| 20                     | North Haven      | 2.98             | 27.88 | 5.85  | 29.35 | 5.69 | 72.58  |          |
| 22                     | Hengistbury      | 2.32             | 40.69 | 8.05  | 22.78 | 1.91 | 67.49  |          |
| 24                     | Sandbanks        | 3.55             | 28.92 | 5.17  | 37.20 | 2.75 | 74.52  |          |
| 25                     | Studland         | 8.17             | 23.68 | 2.00  | 34.91 | 2.78 | 72.66  |          |
| 26                     | Swanage          | 1.89             | 31.66 | 5.62  | 38.73 | 1.48 | 76.08  |          |
| 27                     | Winspit          | 2.05             | 25.28 | 3.90  | 18.74 | 1.19 | 58.15  |          |
| 28                     | Kimmeridge       | 4.94             | 28.37 | 6.70  | 32.30 | 2.46 | 73.82  |          |
| 29                     | Lulworth         | 2.58             | 27.78 | 4.40  | 26.48 | 1.76 | 65.60  |          |
| 30                     | Osmington        | 1.80             | 29.55 | 5.46  | 17.80 | 1.98 | 56.22  |          |
| 31                     | Weymouth         | 4.11             | 20.14 | 3.67  | 22.95 | 5.61 | 88.28  |          |
| 32                     | Church Hope Cove | 3.09             | 21.71 | 1.66  | 20.19 | 1.47 | 49.04  |          |
| 33                     | Portland Bill    | 3.22             | 22.72 | 5.28  | 34.46 | 2.15 | 46.96  |          |
| 34                     | West Bay         | 4.29             | 22.79 | 1.91  | 32.15 | 3.57 | 46.57  |          |
| 38                     | Lyme/Bridport    | 4.12             | 24.76 | 3.28  | 46.15 | 5.27 | 60.36  |          |
| 39                     | Freshwater       | 3.16             | 33.41 | 2.39  | 26.88 | 1.60 | 44.67  |          |
|                        | Maximum level    | 9.14             | 61.08 | 44.59 | 46.15 | 7.67 | 267.19 |          |



1980 Coastwatch Survey. Metal Bio-accumulation.

| <i>Mytilus edulis</i> |               | mg/kg dry weight |       |      |       |      |        |          |
|-----------------------|---------------|------------------|-------|------|-------|------|--------|----------|
| No.                   | South Coast   | Ni               | Cu    | Cd   | Pb    | Cr   | Zn     | wet->dry |
| 21                    | Barton-on-Sea | 3.37             | 30.90 | 5.58 | 16.70 | 1.98 | 193.00 |          |
| 22                    | Hengistbury   | 3.66             | 27.10 | 1.07 | 14.30 | 2.93 | 297.00 |          |
| 24                    | Sandbanks     | 1.16             | 17.28 | 0.95 | 12.38 | 1.01 | 168.46 |          |
| 33                    | Portland Bill | 5.28             | 54.90 | 1.12 | 32.55 | 5.12 | 224.60 |          |
|                       | Maximum level | 5.28             | 54.90 | 5.58 | 32.55 | 5.12 | 297.00 |          |

# 1992 *Fucus vesiculosus* Copper



## Notes

Levels are in mg/kg dry weight

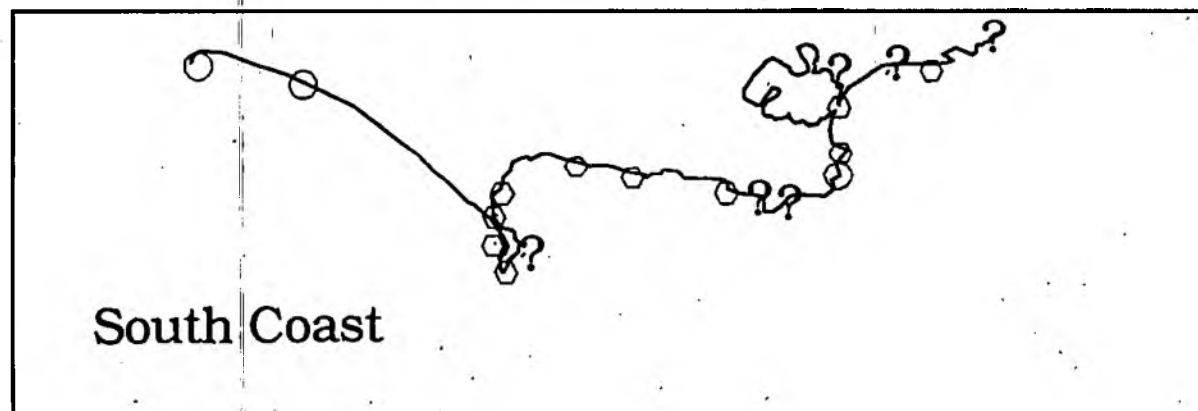
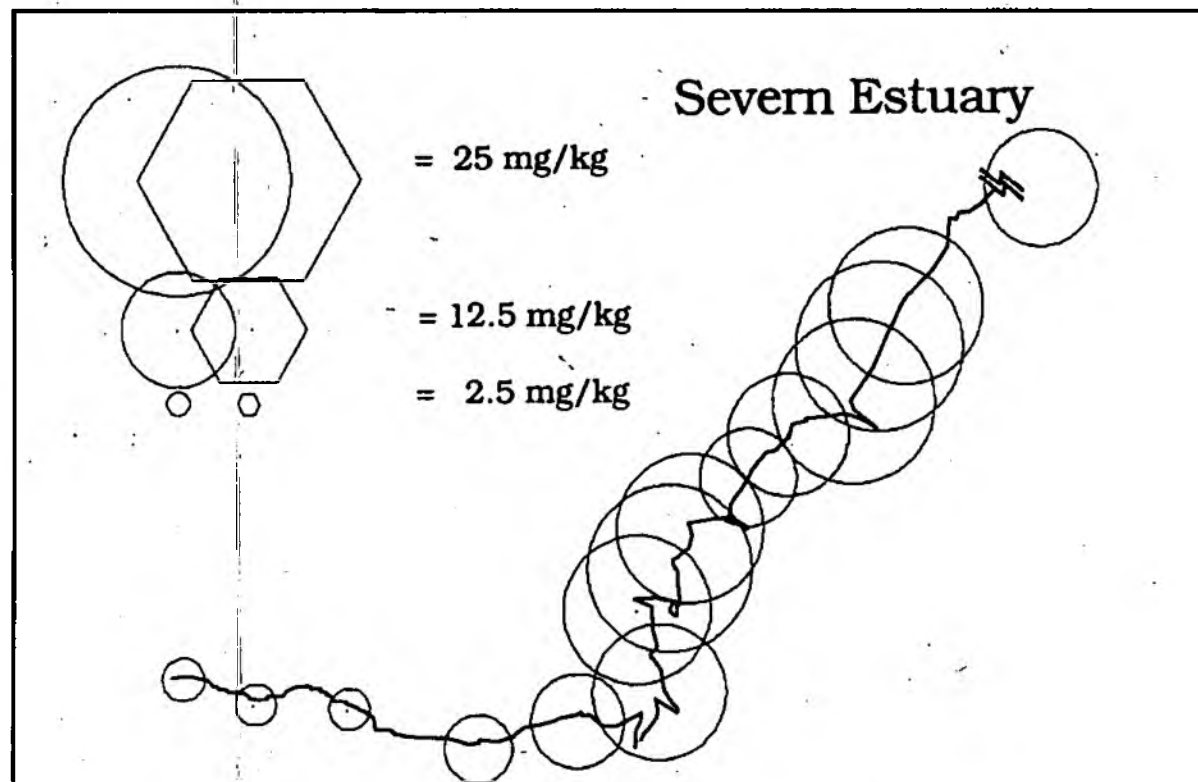
? = No data available

○ = Actual value

⬡ = Less than limit of detection

|                                                                                       |                                                                                                                            |
|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Job Title:                                                                            | Coastwatch Bio-monitoring Programme                                                                                        |
| Prepared by:                                                                          | S. J. White, Biology Laboratory,<br>NRA Wessex Region, Rivers House,<br>Sunrise Business Park,<br>Blandford Forum, Dorset. |
|  |                                                                                                                            |

# 1992 *Fucus vesiculosus* Cadmium



## Notes

Levels are in mg/kg dry weight

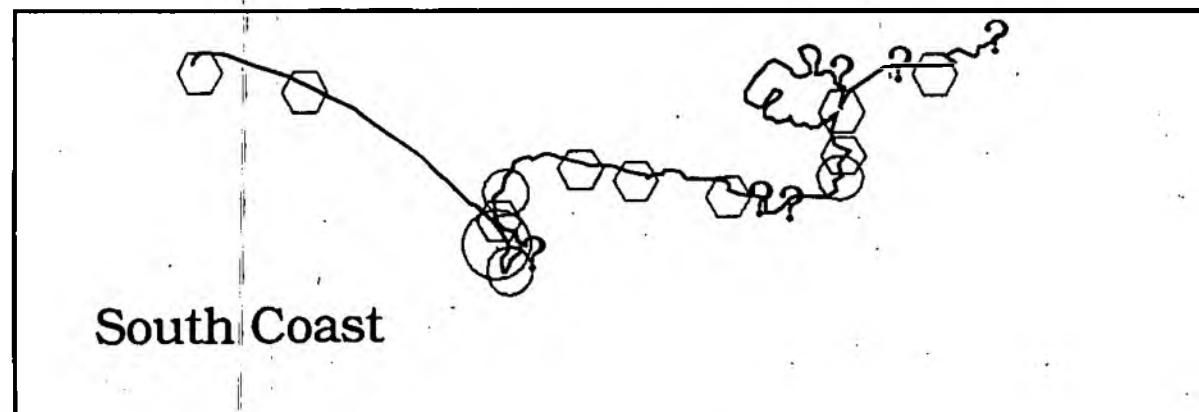
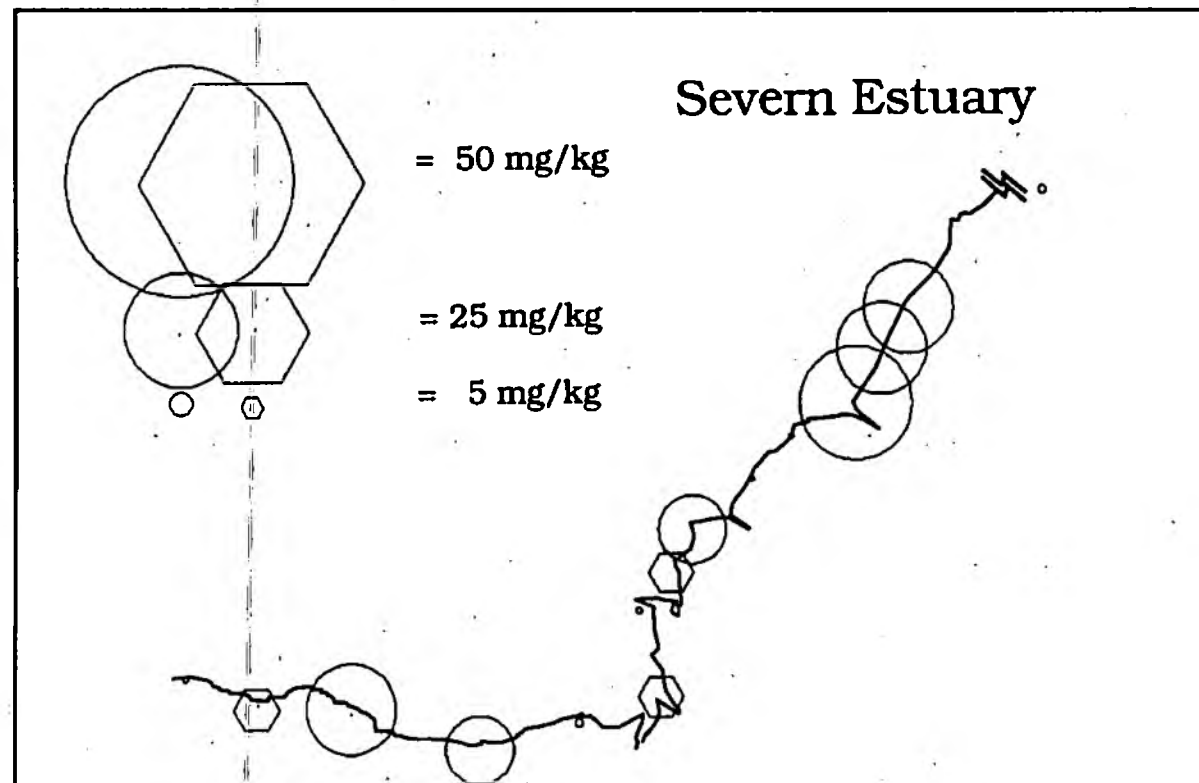
? = No data available

○ = Actual value

⬡ = Less than limit of detection

|              |                                                                                                                            |
|--------------|----------------------------------------------------------------------------------------------------------------------------|
| Job Title:   | Coastwatch Bio-accumulation Programme                                                                                      |
| Prepared by: | S. J. White, Biology Laboratory,<br>NRA Wessex Region, Rivers House,<br>Sunrise Business Park,<br>Blandford Forum, Dorset. |
| NRA          |                                                                                                                            |

# 1992 *Fucus vesiculosus* Lead



## Notes

Levels are in mg/kg dry weight

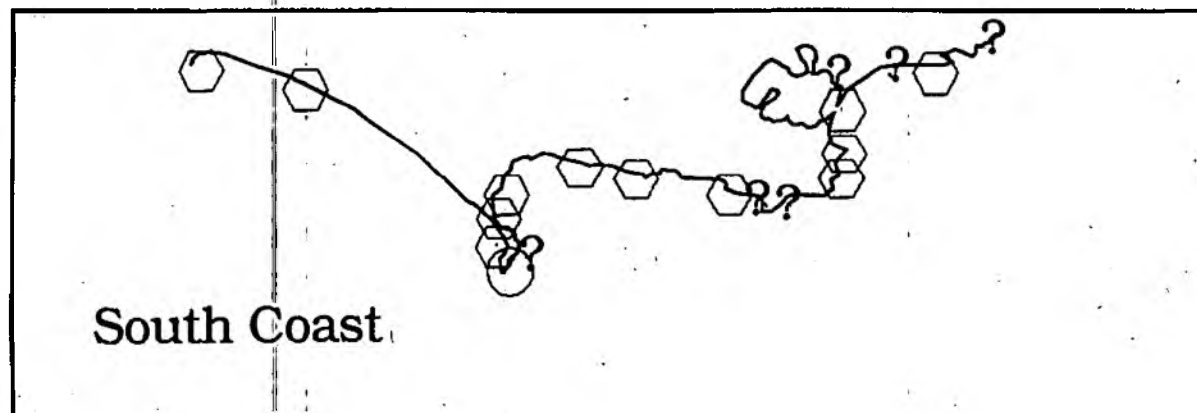
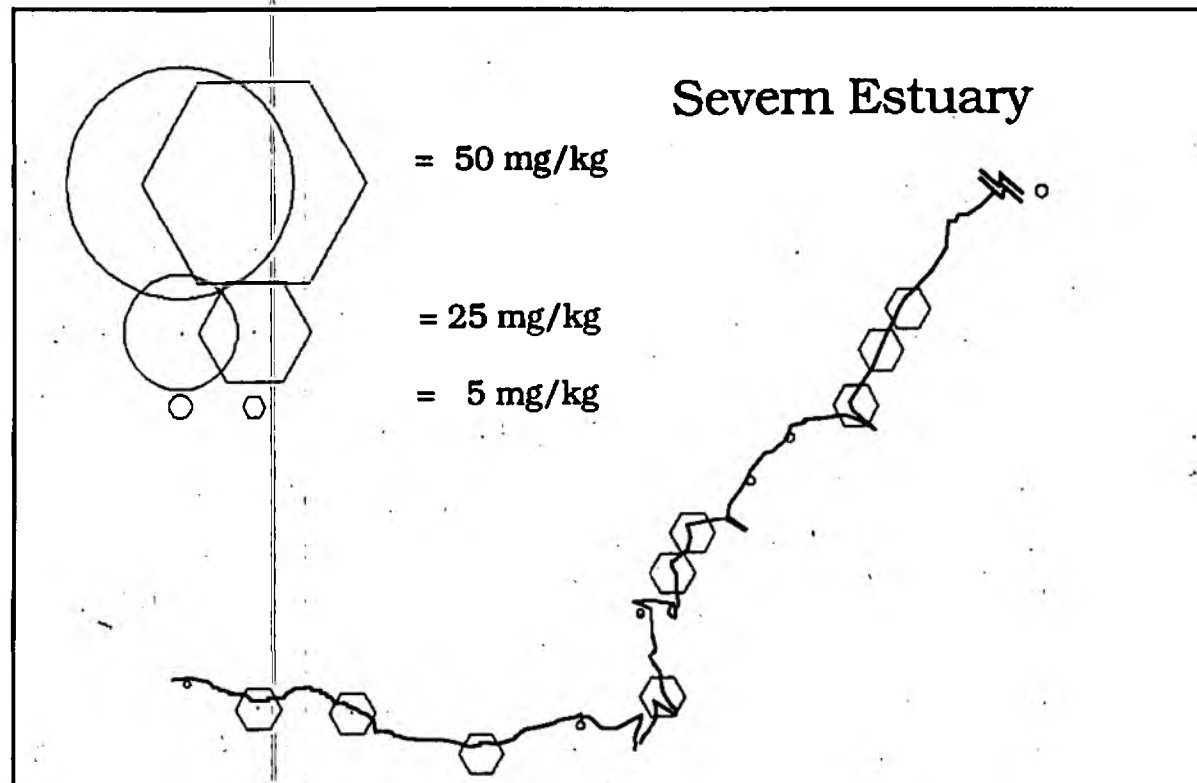
? = No data available

○ = Actual value

⬡ = Less than limit of detection

|              |                                                                                                                            |
|--------------|----------------------------------------------------------------------------------------------------------------------------|
| Job Title:   | Coastwatch Bio-accumulation Programme                                                                                      |
| Prepared by: | S. J. White, Biology Laboratory,<br>NRA Wessex Region, Rivers House,<br>Sunrise Business Park,<br>Blandford Forum, Dorset. |
| NRA          |                                                                                                                            |

# 1992 *Fucus vesiculosus* Chromium



## Notes

Levels are in mg/kg dry weight

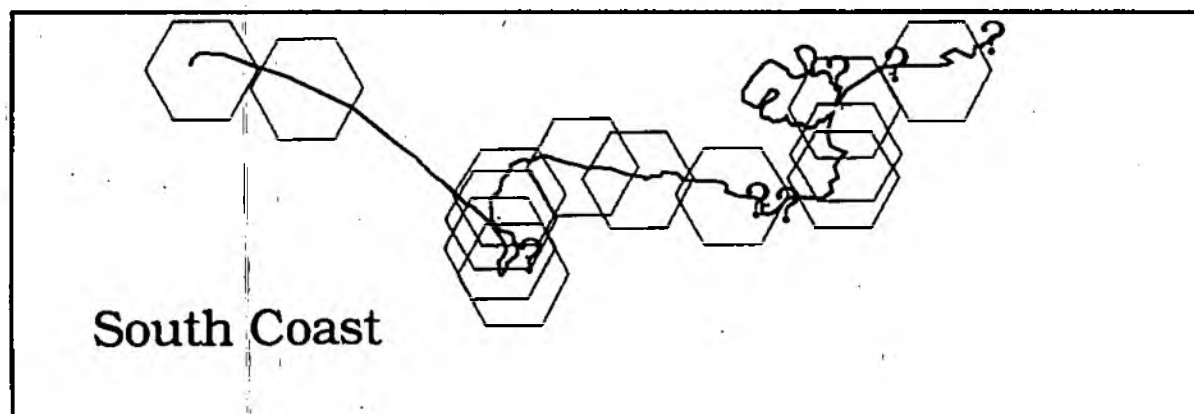
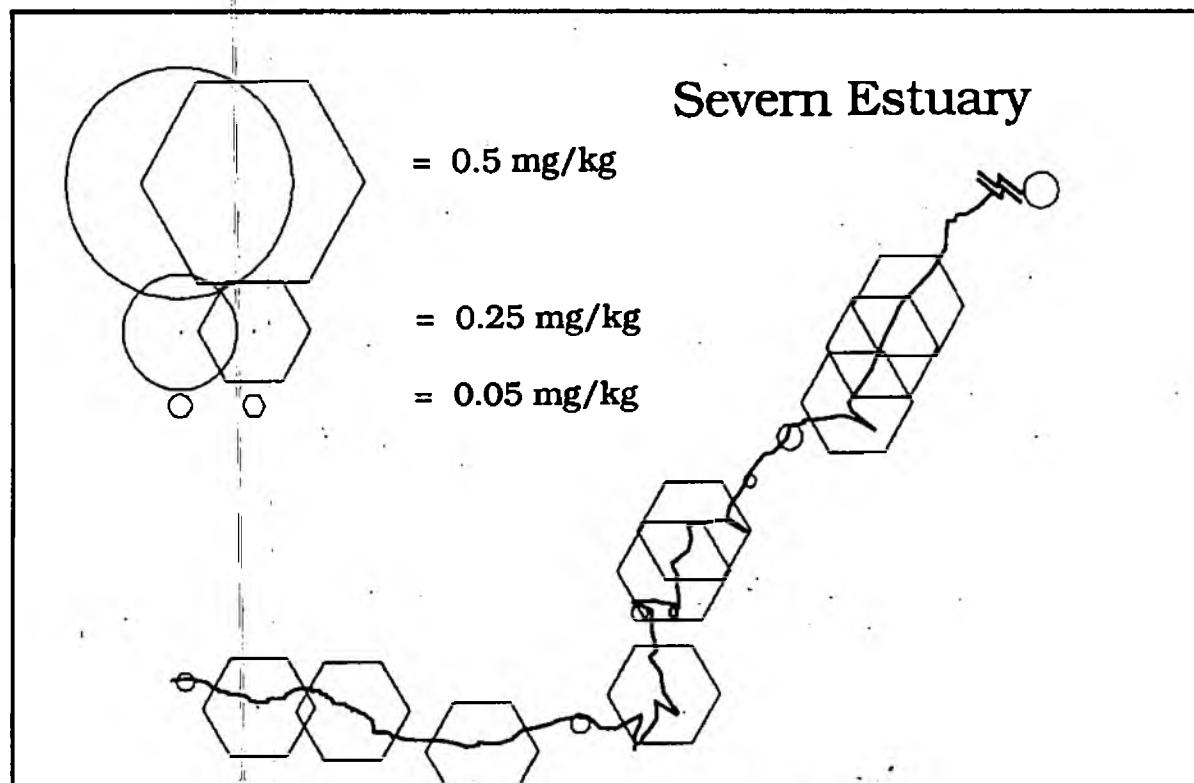
? = No data available

○ = Actual value

⬡ = Less than limit of detection

|              |                                                                                                                            |
|--------------|----------------------------------------------------------------------------------------------------------------------------|
| Job Title:   | Coastwatch Bio-accumulation Programme                                                                                      |
| Prepared by: | S. J. White, Biology Laboratory,<br>NRA Wessex Region, Rivers House,<br>Sunrise Business Park,<br>Blandford Forum, Dorset. |
| NRA          |                                                                                                                            |

# 1992 *Fucus vesiculosus* Mercury



## Notes

Levels are in mg/kg dry weight

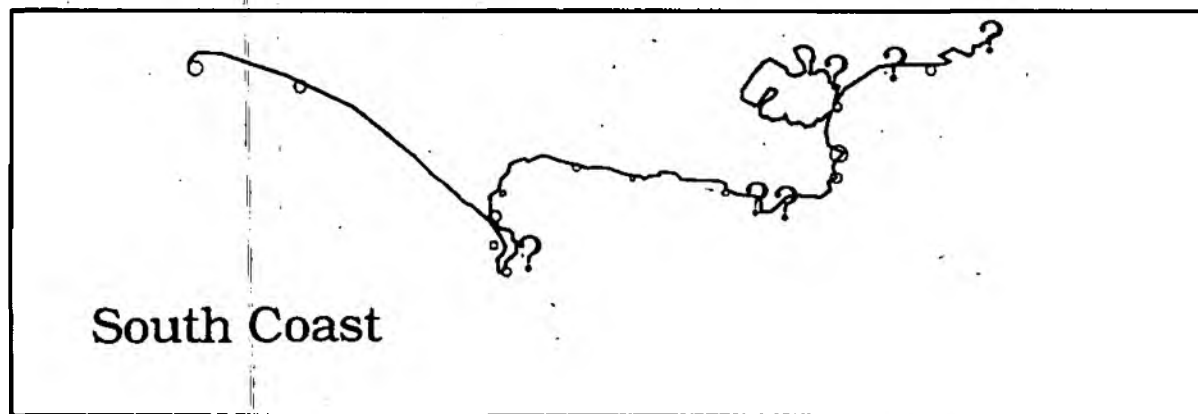
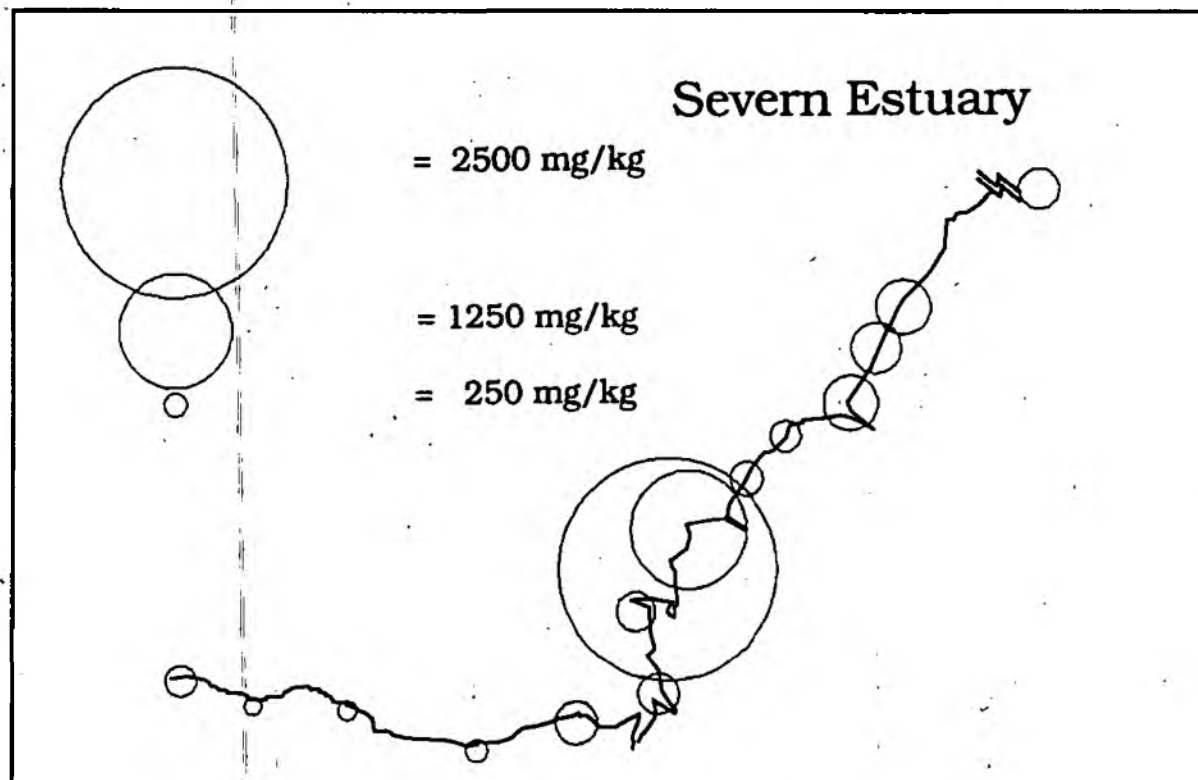
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○ = Actual value

⬡ = Less than limit of detection

|                                                                                       |                                                                                                                        |
|---------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Job Title:                                                                            | Coastwatch Bio-accumulation Programme                                                                                  |
| Prepared by:                                                                          | S. J. White, Biology Laboratory,<br>NRA Wexham Ridge, Rivers House<br>Surrey Business Park,<br>Barnard Castle, Dorset. |
|  |                                                                                                                        |

# 1992 *Fucus vesiculosus* Zinc



## Notes

Levels are in mg/kg dry weight

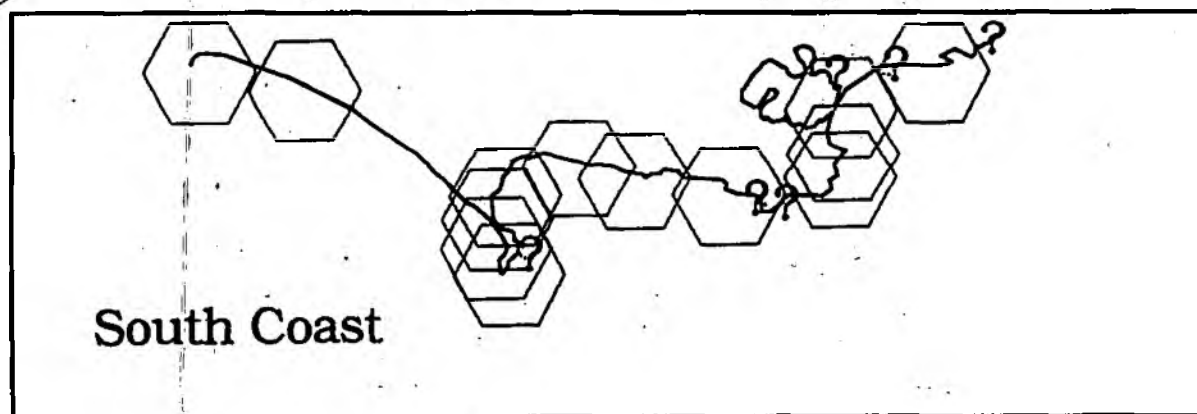
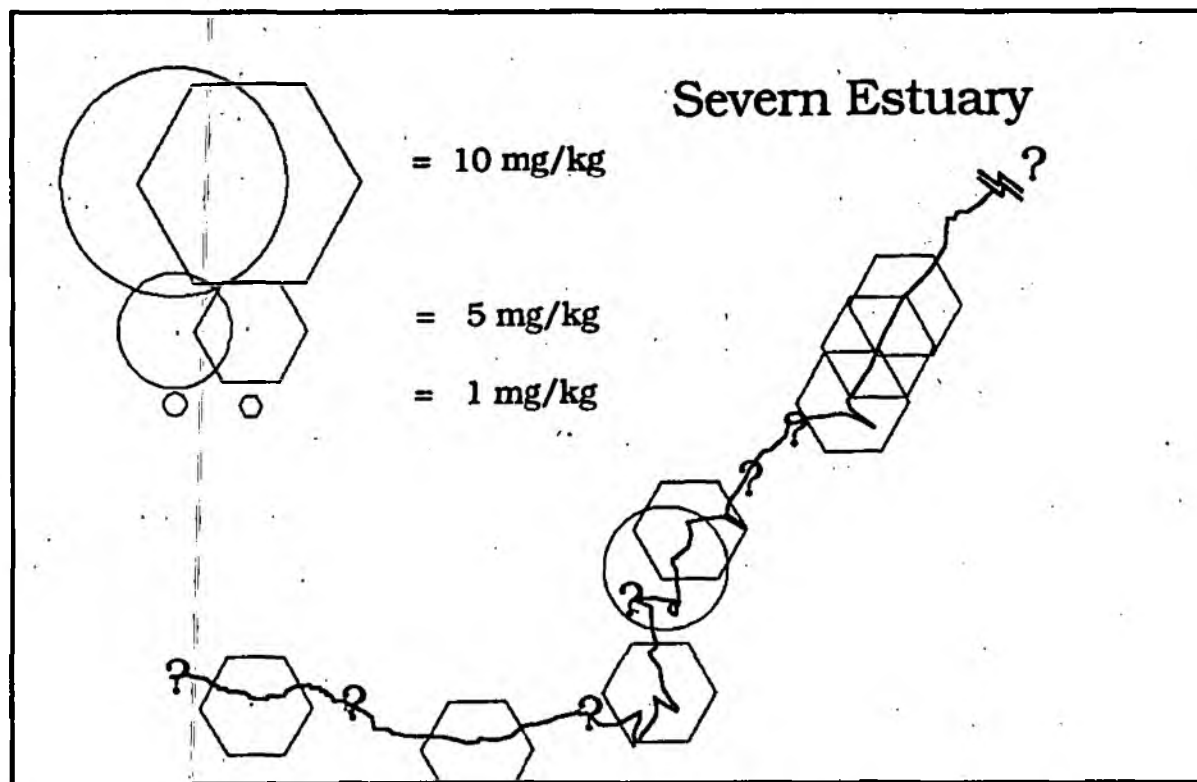
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○ = Actual value

◻ = Less than limit of detection

|              |                                                                                                                           |
|--------------|---------------------------------------------------------------------------------------------------------------------------|
| Job Title:   | Coastwatch Bio-monitoring Programme                                                                                       |
| Prepared by: | S. J. White, Biology Laboratory,<br>NRA Wessex Region, Rivers House,<br>Summit Business Park,<br>Blandford Forum, Dorset. |
| NRA          |                                                                                                                           |

# 1992 *Fucus vesiculosus* Silver



## Notes

Levels are in mg/kg dry weight

? = No data available

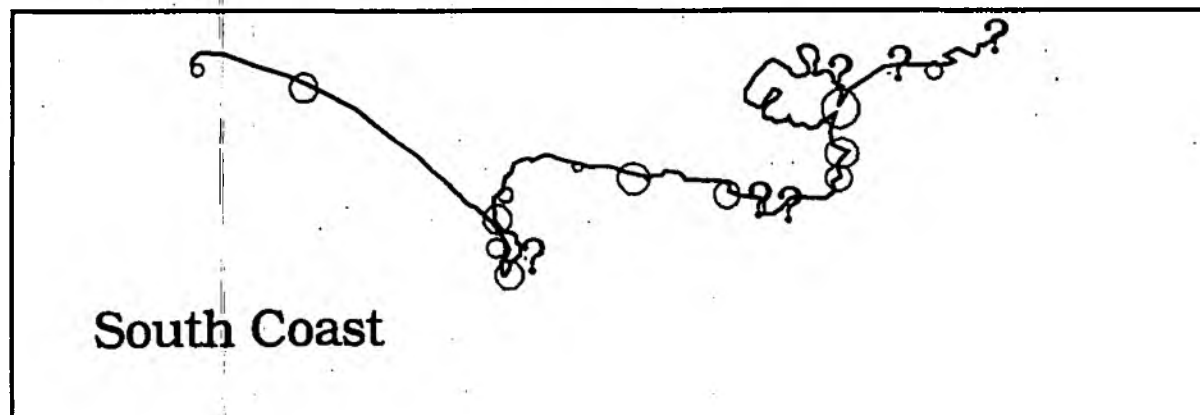
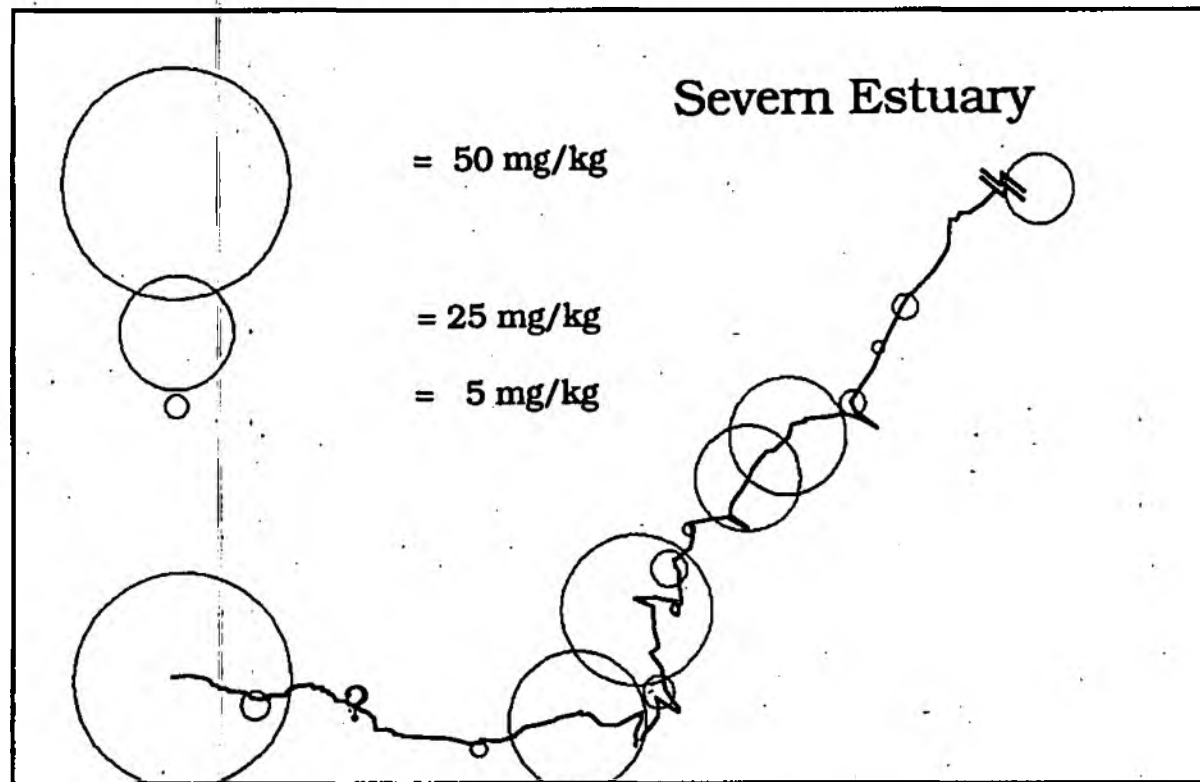
○ = Actual value

⬡ = Less than limit of detection

|              |                                                                                                                          |
|--------------|--------------------------------------------------------------------------------------------------------------------------|
| Job Title:   | Coastwatch Bio-accumulation Programme                                                                                    |
| Prepared by: | S. J. White, Biology Laboratory,<br>NRA Wessex Region, Rivers House,<br>Sunrise Business Park,<br>Hamford Forum, Dorset. |
| NRA          |                                                                                                                          |



# 1992 *Fucus vesiculosus* Arsenic



## Notes

Levels are in mg/kg dry weight

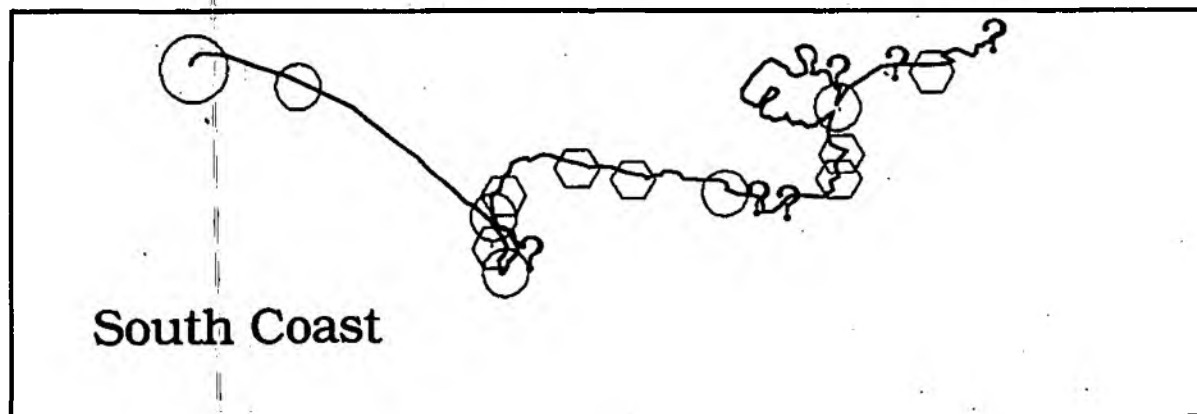
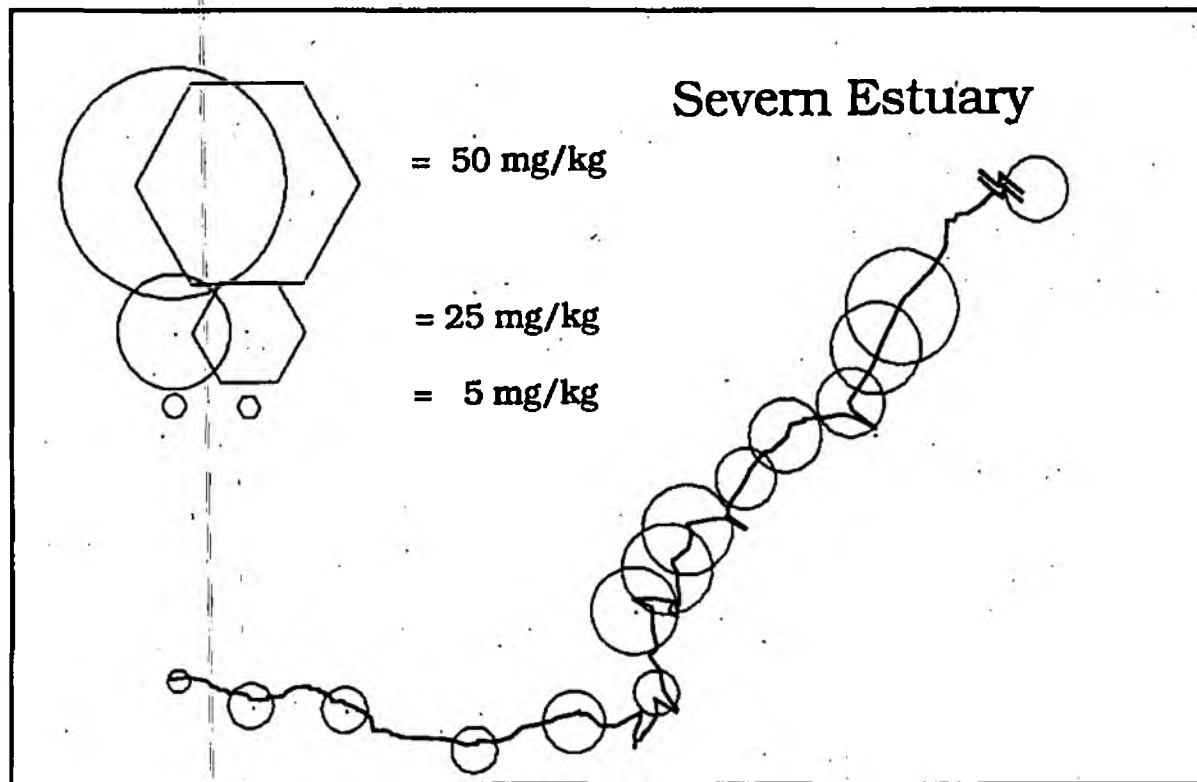
? = No data available

○ = Actual value

⬡ = Less than limit of detection

|                                                                                       |                                                                                                                           |
|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Job Title:                                                                            | Coastwatch Bio-accumulation Programme                                                                                     |
| Prepared by:                                                                          | S. J. White, Biology Laboratory,<br>NRA Wessex Region, Rivers House,<br>Sunrise Business Park,<br>Handford Forum, Dorset. |
|  |                                                                                                                           |

# 1992 *Fucus vesiculosus* Nickel



## Notes

Levels are in mg/kg dry weight

? = No data available

○ = Actual value

⬡ = Less than limit of detection

|                                                                                       |                                                                                                                            |
|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Job Title:                                                                            | Coastwatch Bio-monitoring Programme                                                                                        |
| Prepared by:                                                                          | S. J. Wicks, Biology Laboratory,<br>NRA Wessex Region, Rivers House,<br>Sunrise Business Park,<br>Blandford Forum, Dorset. |
|  |                                                                                                                            |

# 1992 *Patella vulgata* Nickel

## Notes

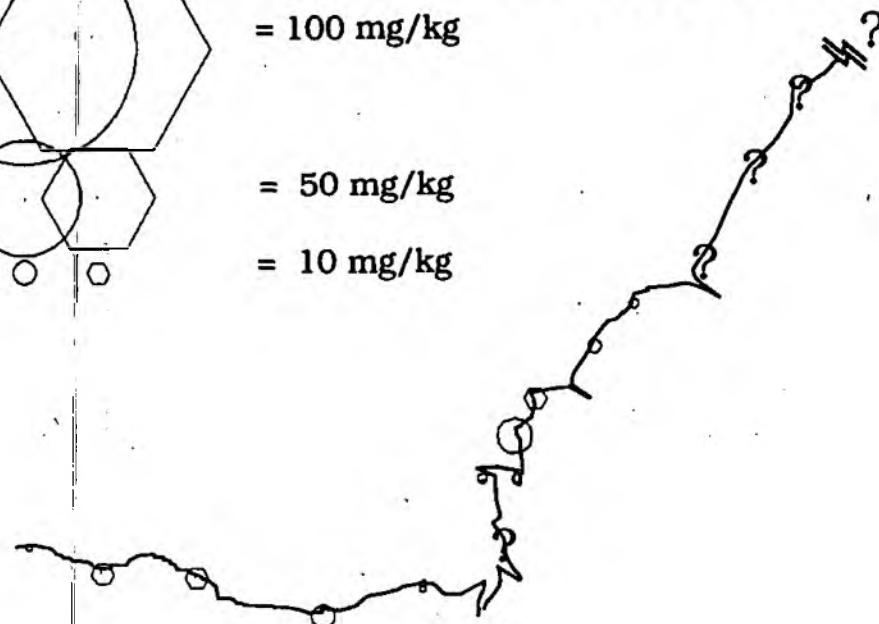
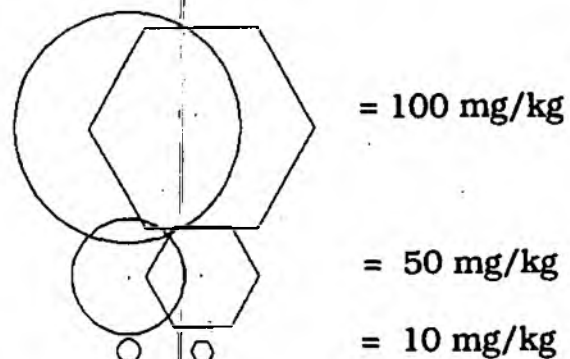
Levels are in mg/kg dry weight

? = No data available

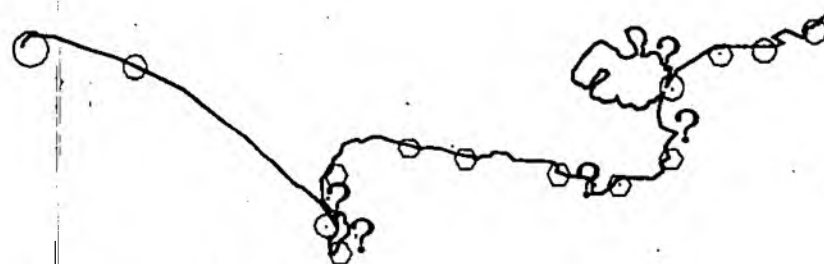
○ = Actual value

⬡ = Less than limit of detection

### Severn Estuary

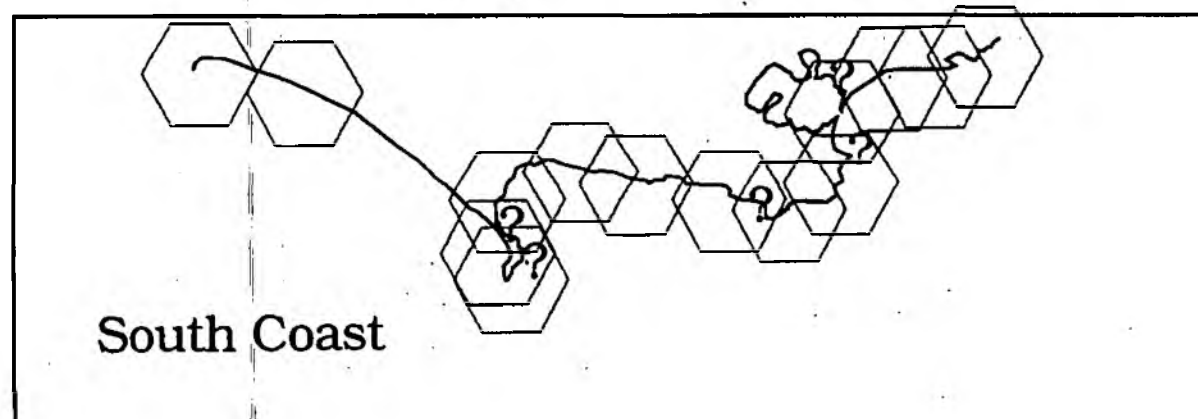
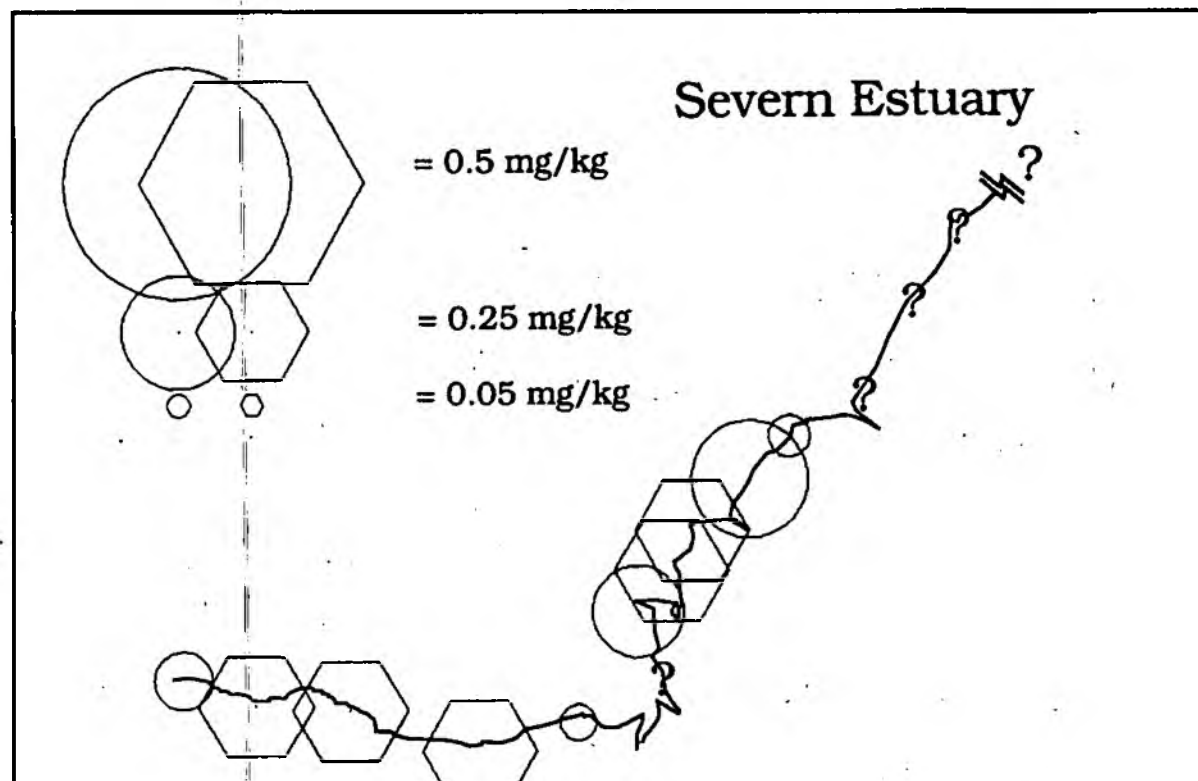


### South Coast



|                                                                                       |                                                                                                                            |
|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Job Title:                                                                            | Coastwatch Bio-accumulation Programme                                                                                      |
| Prepared by:                                                                          | S. J. White, Biology Laboratory,<br>NRA Wessex Region, Rivers House<br>Surfside Business Park,<br>Blandford Forum, Dorset. |
|  |                                                                                                                            |

# 1992 *Patella vulgata* Mercury



## Notes

Levels are in mg/kg dry weight

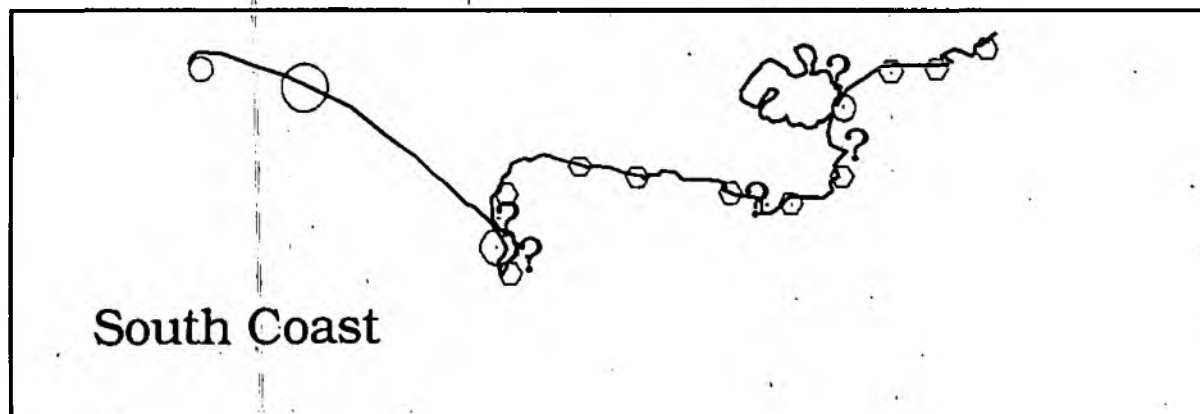
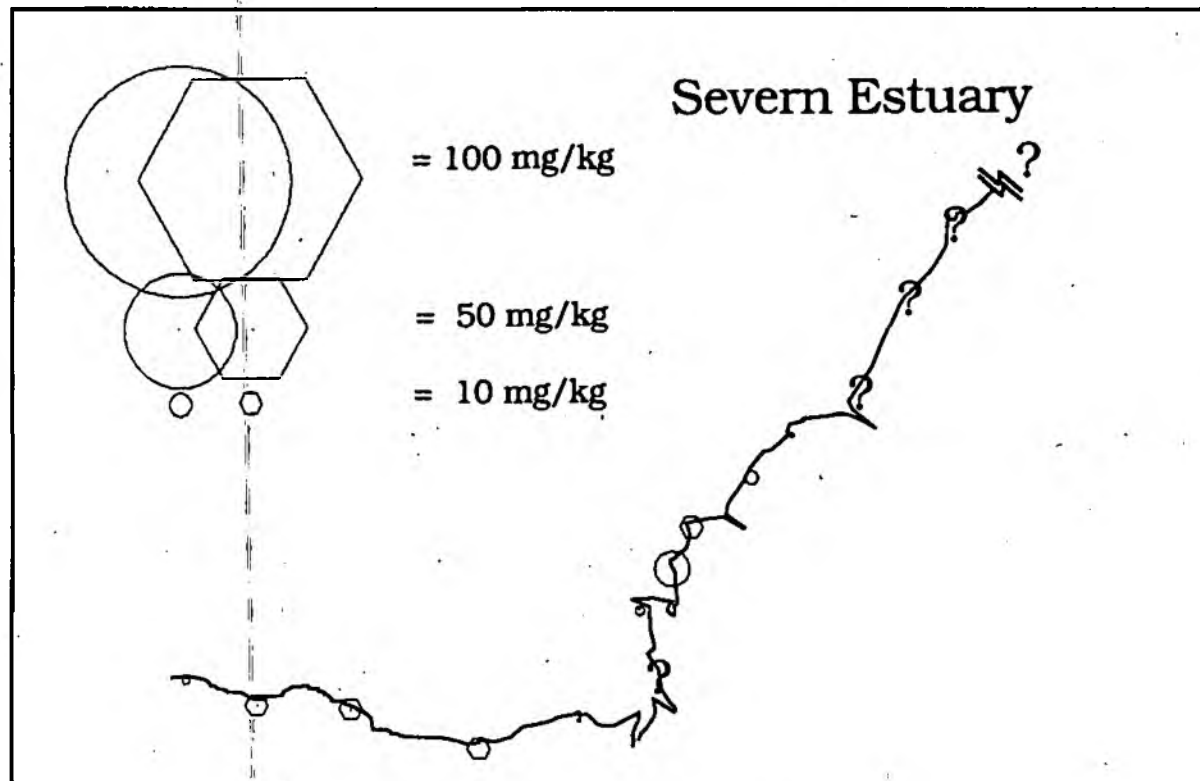
? = No data available

○ = Actual value

⬡ = Less than limit of detection

|                                                                                       |                                                                                                                           |
|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Job Title:                                                                            | Coastwatch Bio-accumulation Programme                                                                                     |
| Prepared by:                                                                          | S. J. White, Biology Laboratory,<br>NRA Wessex Region, Rivers House,<br>Surrey Business Park,<br>Blandford Forum, Dorset. |
|  |                                                                                                                           |

# 1992 *Patella vulgata* Chromium



## Notes

Levels are in mg/kg dry weight

? = No data available

○ = Actual value

⬡ = Less than limit of detection

|                                                                                       |                                                                                                                            |
|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Job Title:                                                                            | Coastwatch Bio-accumulation Programme                                                                                      |
| Prepared by:                                                                          | S. J. White, Biology Laboratory,<br>NRA Wessex Region, Rivers House,<br>Sunrise Business Park,<br>Blandford Forum, Dorset. |
|  |                                                                                                                            |

# 1992 *Patella vulgata* Lead

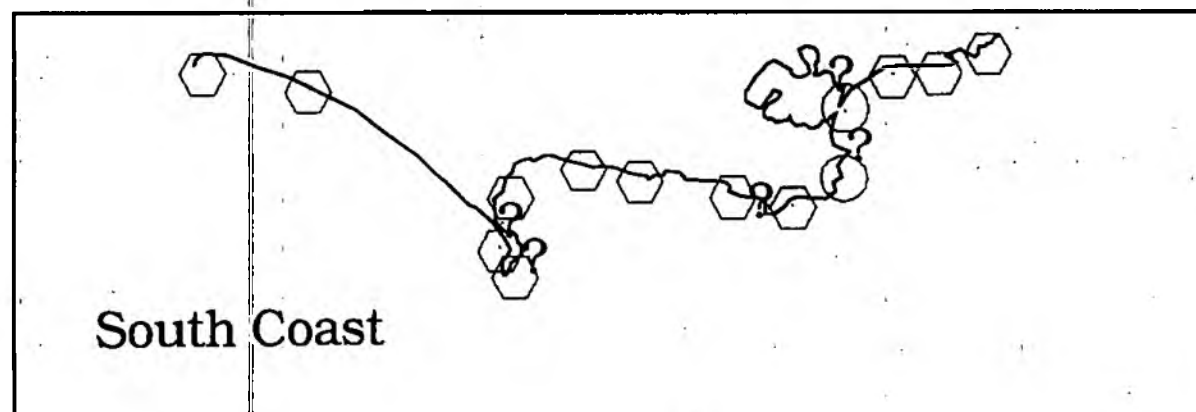
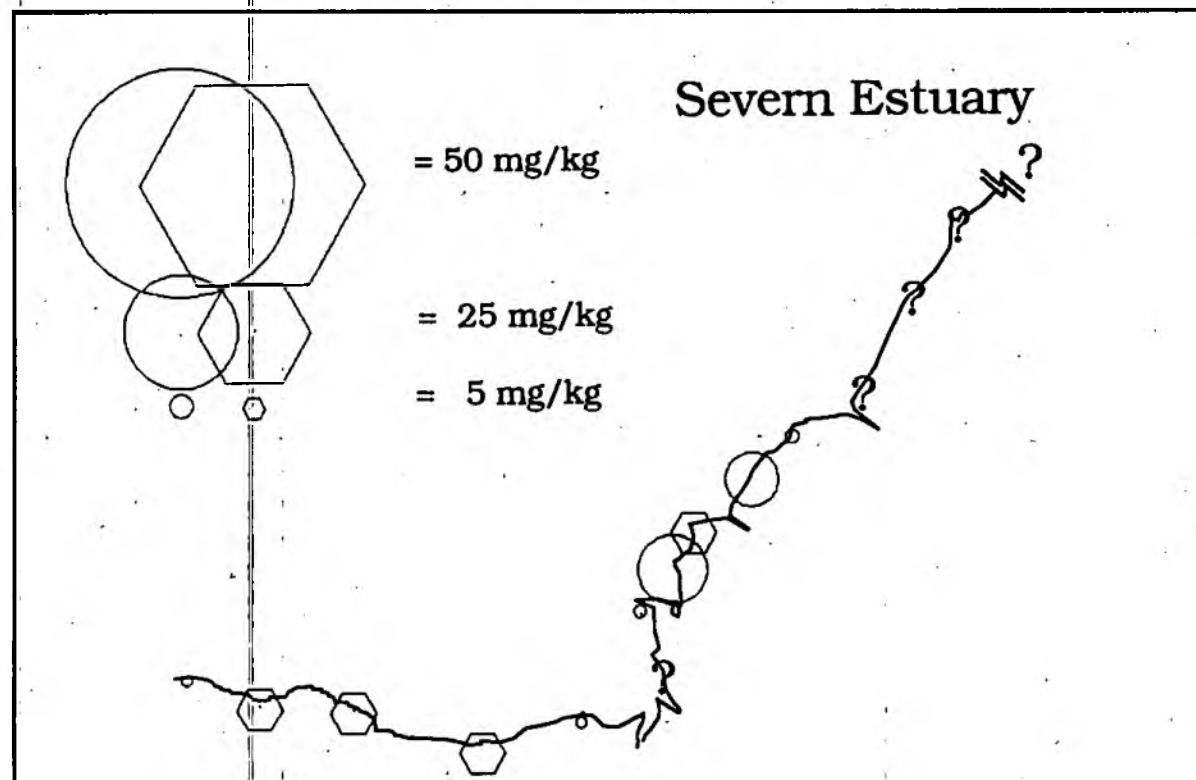
## Notes

Levels are in mg/kg dry weight

? = No data available

○ = Actual value

⬡ = Less than limit of detection



|                                                                                       |                                                                                                                           |
|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Job Title:                                                                            | Coastwatch Bio-accumulation Programme                                                                                     |
| Prepared by:                                                                          | S. J. White, Biology Laboratory,<br>NRA Wexham Region, Rivers House,<br>Surrey Business Park,<br>Blandford Forum, Dorset. |
|  |                                                                                                                           |

# 1992 *Patella vulgata* Cadmium

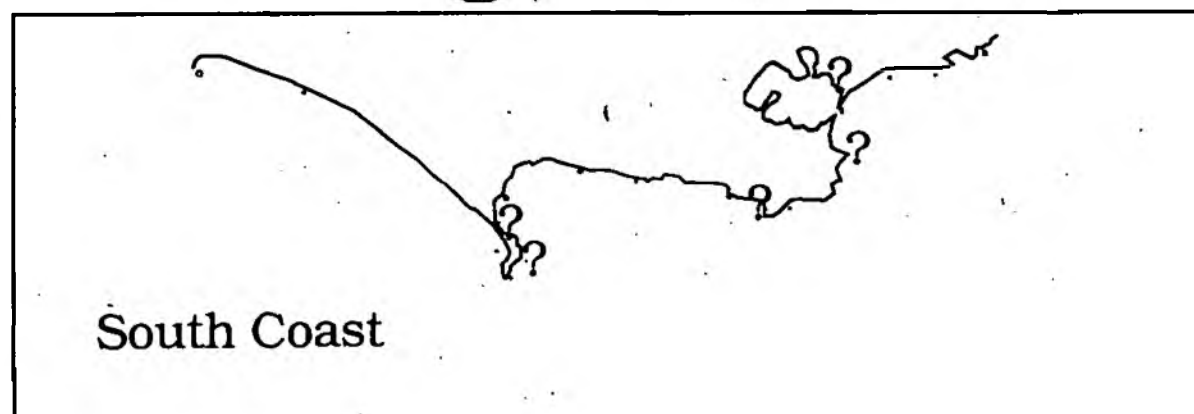
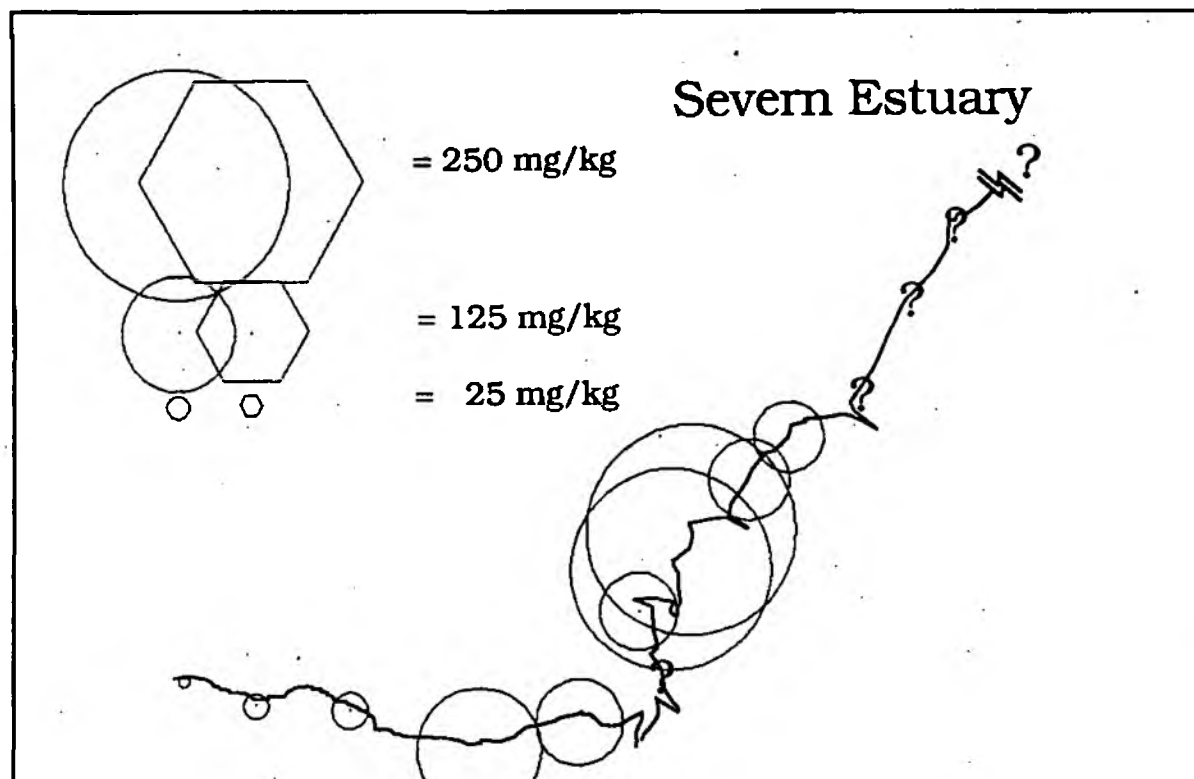
## Notes

Levels are in mg/kg dry weight

? = No data available

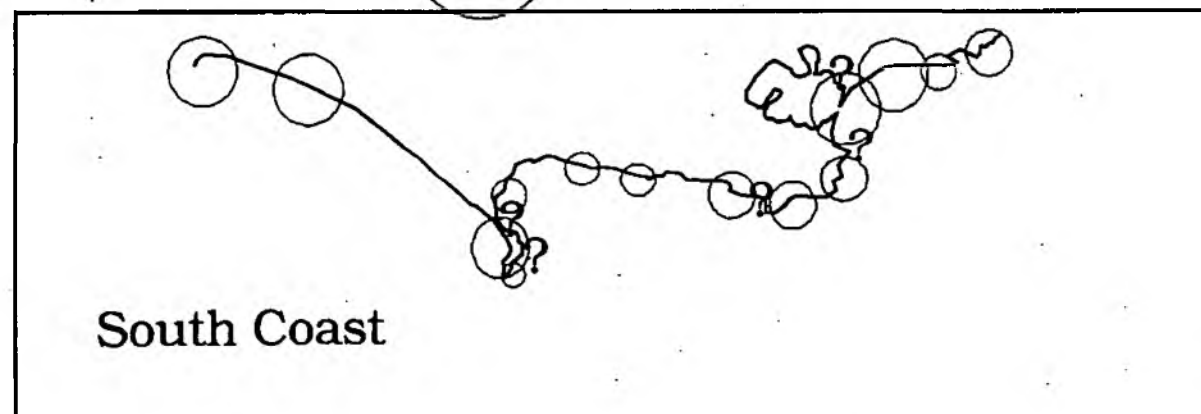
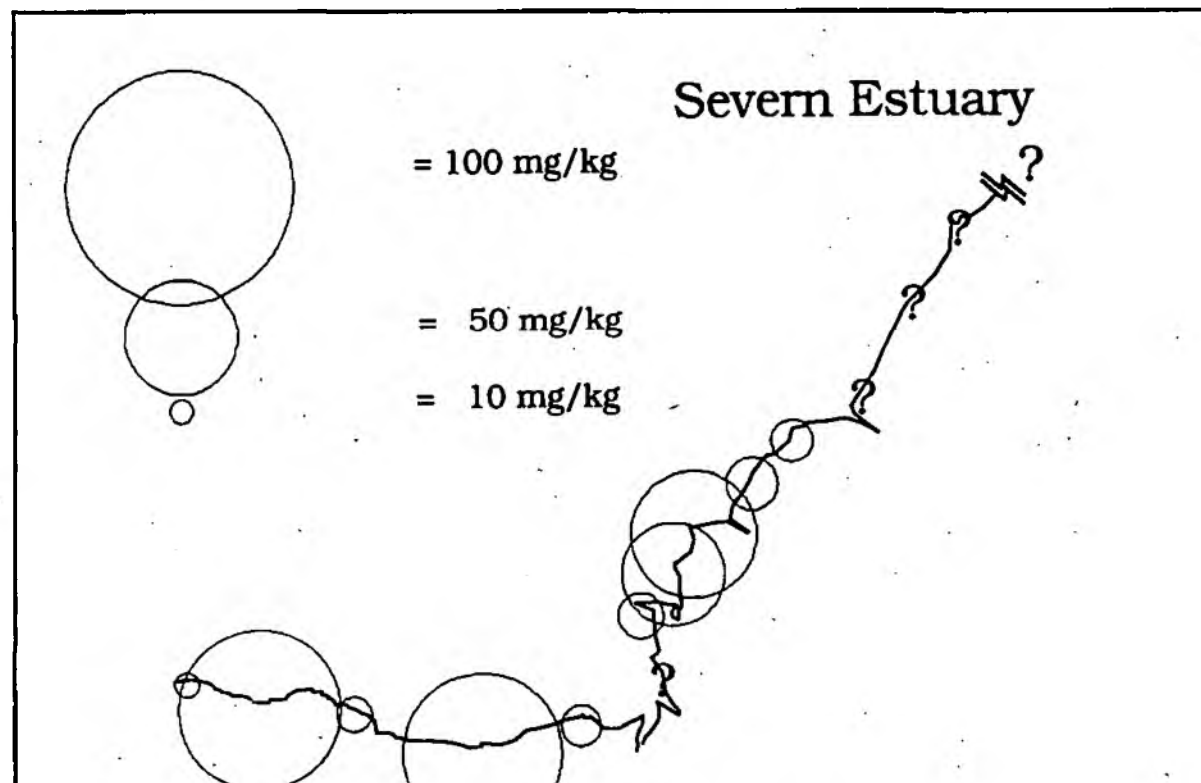
○ = Actual value

⬡ = Less than limit of detection



|                                                                                       |                                                                                                                            |
|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Job Title:                                                                            | Coastwatch Bio-monitoring Programme                                                                                        |
| Prepared by:                                                                          | S. J. White, Biology Laboratory,<br>NRA Wessex Region, Rivers House,<br>Sunrise Business Park,<br>Blandford Forum, Dorset. |
|  |                                                                                                                            |

# 1992 *Patella vulgata* Copper



## Notes

Levels are in mg/kg dry weight

? = No data available

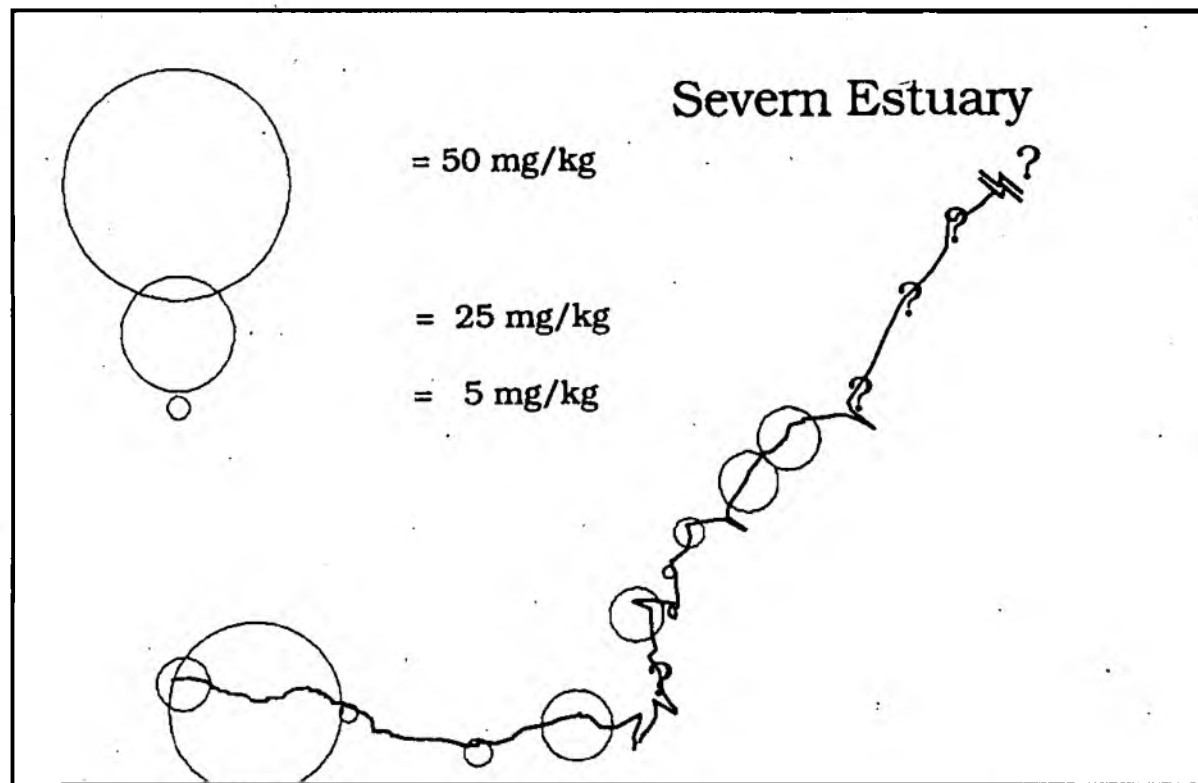
○ = Actual value

⬡ = Less than limit of detection

|                                                                                       |                                                                                                                            |
|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Job Title:                                                                            | Coastwatch Bio-accumulation Programme                                                                                      |
| Prepared by:                                                                          | S. J. White, Biology Laboratory,<br>NRA Wessex Region, Rivers House,<br>Sunrise Business Park,<br>Blandford Forum, Dorset. |
|  |                                                                                                                            |



# 1992 *Patella vulgata* Arsenic



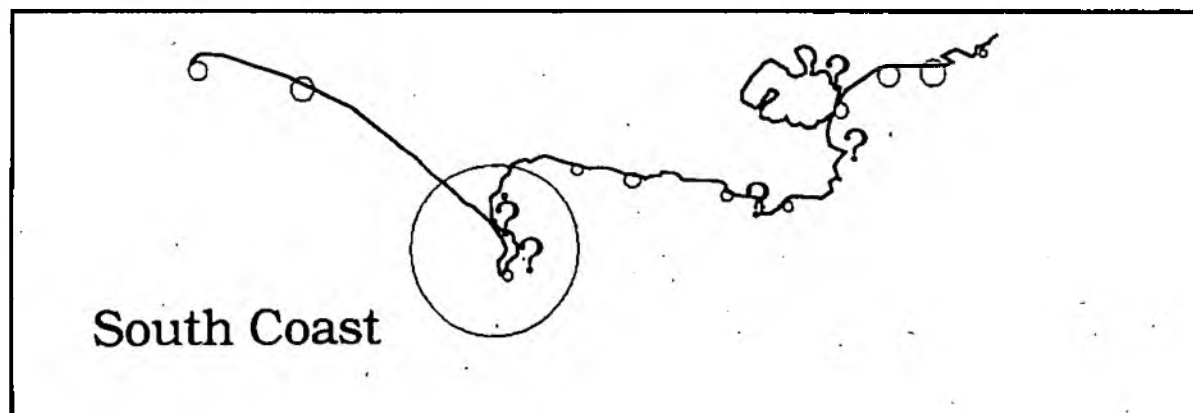
## Notes

Levels are in mg/kg dry weight

? = No data available

○ = Actual value

⬡ = Less than limit of detection



|                                                                                       |                                                                                                                            |
|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Job Title:                                                                            | Coastwatch Bio-accumulation Programme                                                                                      |
| Prepared by:                                                                          | S. J. White, Biology Laboratory,<br>NRA Wessex Region, Rivers House,<br>Sunrise Business Park,<br>Blandford Forum, Dorset. |
|  |                                                                                                                            |

# 1992 *Patella vulgata* Zinc

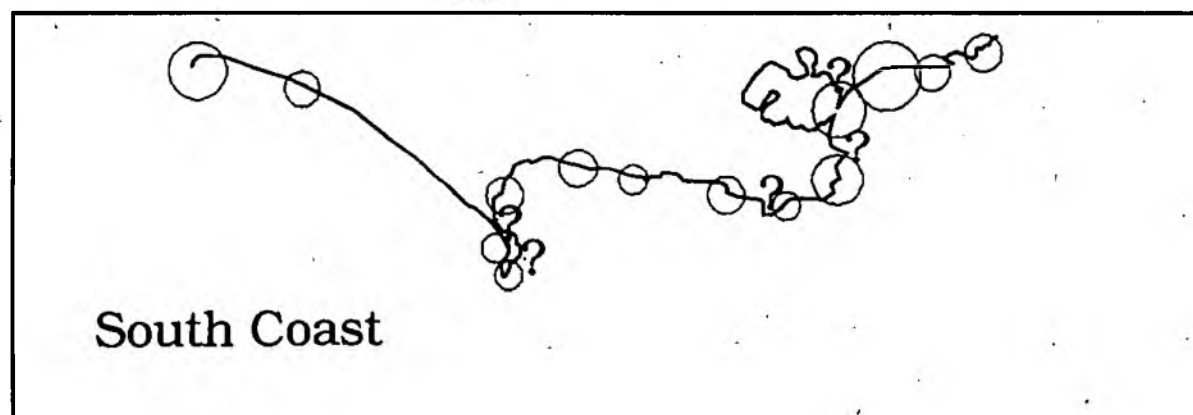
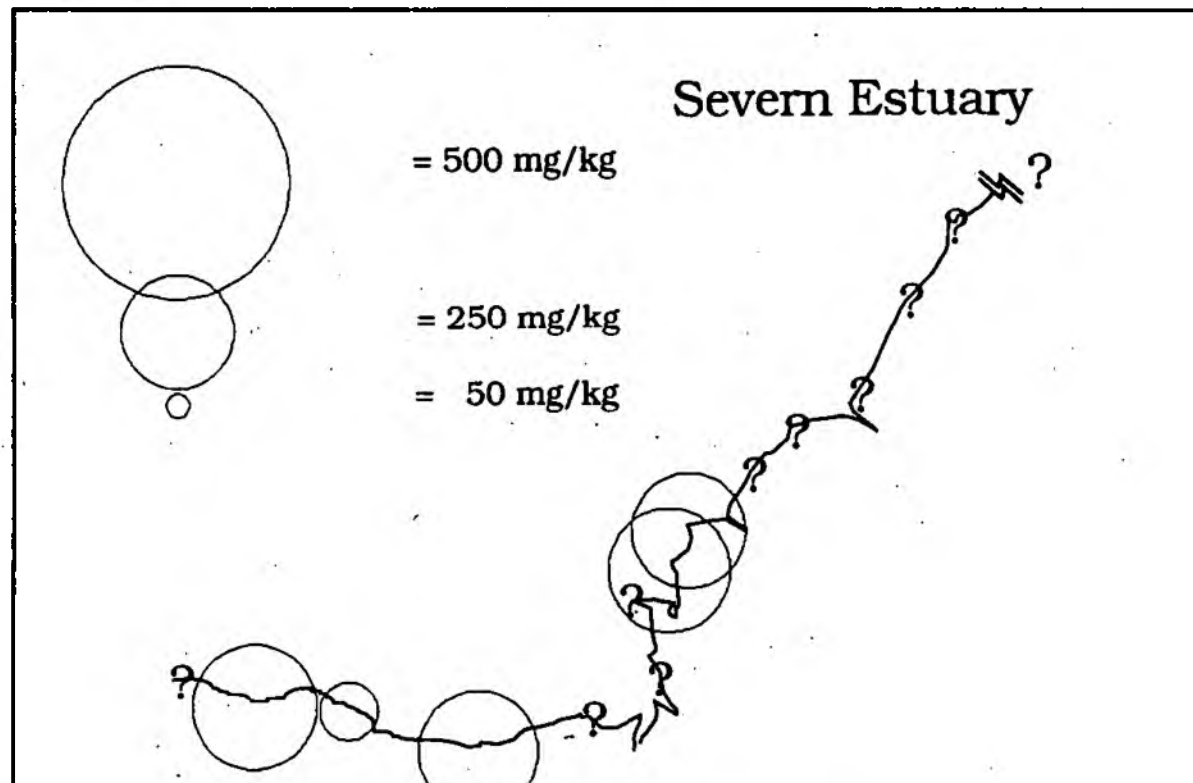
## Notes

Levels are in mg/kg dry weight

? = No data available

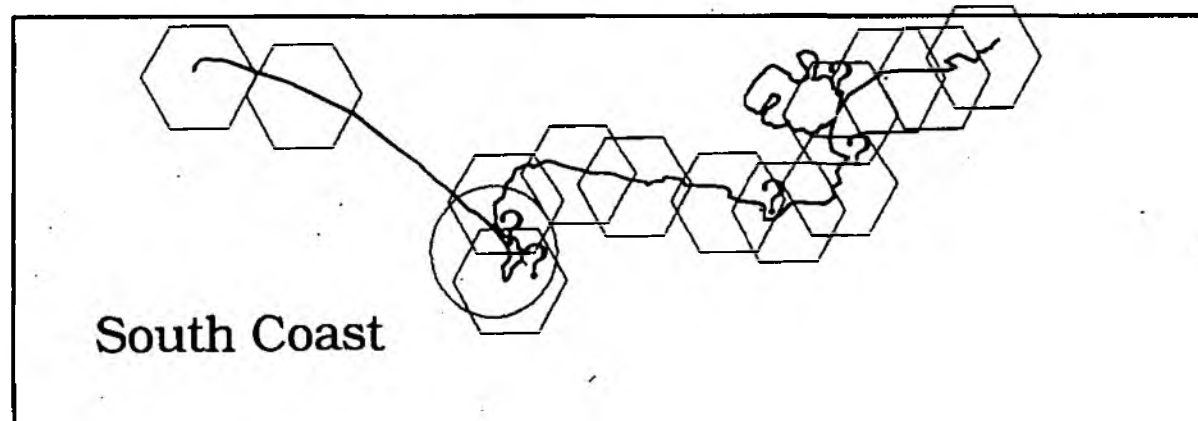
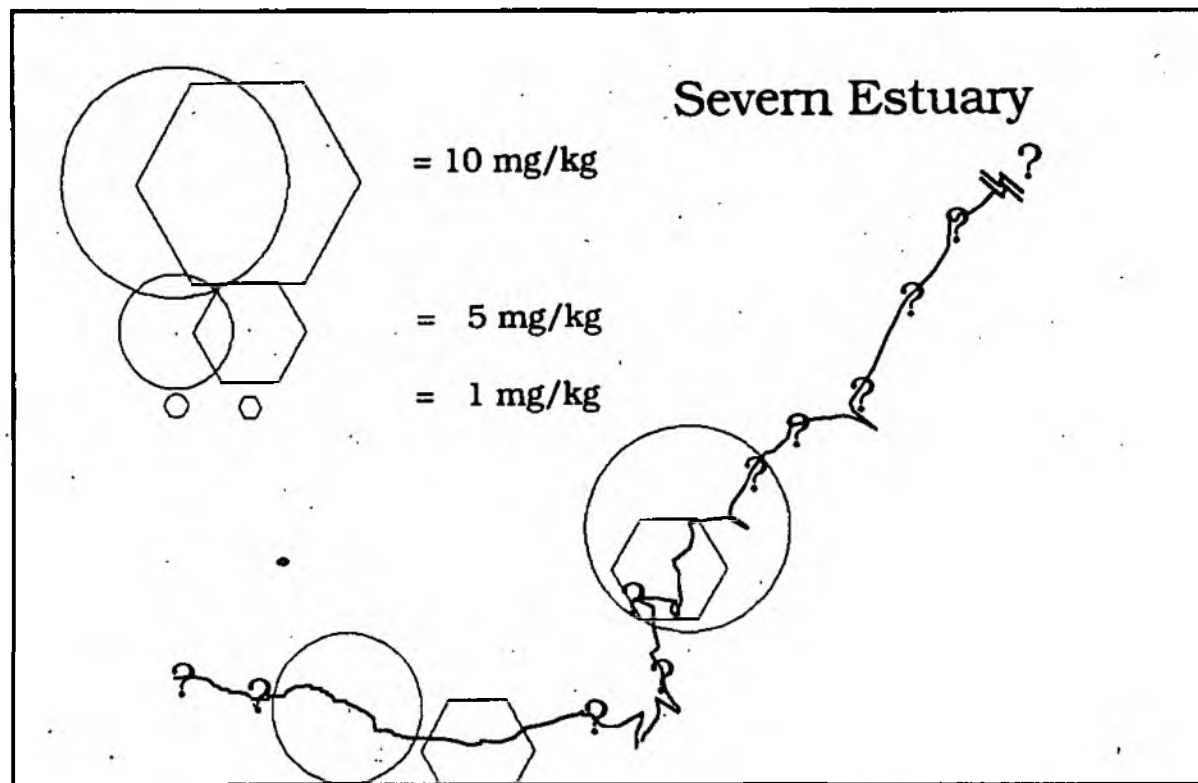
○ = Actual value

⬡ = Less than limit of detection



|                                                                                       |                                                                                                                           |
|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Job Title:                                                                            | Coastwatch Bio-accumulation Programme                                                                                     |
| Prepared by:                                                                          | S. J. White, Biology Laboratory,<br>NRA Wessex Region, Rivers House<br>Sunrise Business Park,<br>Blandford Forum, Dorset. |
|  |                                                                                                                           |

# 1992 *Patella vulgata* Silver



## Notes

Levels are in mg/kg dry weight

? = No data available

○ = Actual value

⬡ = Less than limit of detection

|                                                                                       |                                                                                                                            |
|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Job Title:                                                                            | Coastwatch Bio-accumulation Programme                                                                                      |
| Prepared by:                                                                          | S. J. White, Biology Laboratory,<br>NRA Wexham Region, Rivers House,<br>Sunrise Business Park,<br>Blandford Forum, Dorset. |
|  |                                                                                                                            |

# 1992 *Mytilus edulis* Arsenic

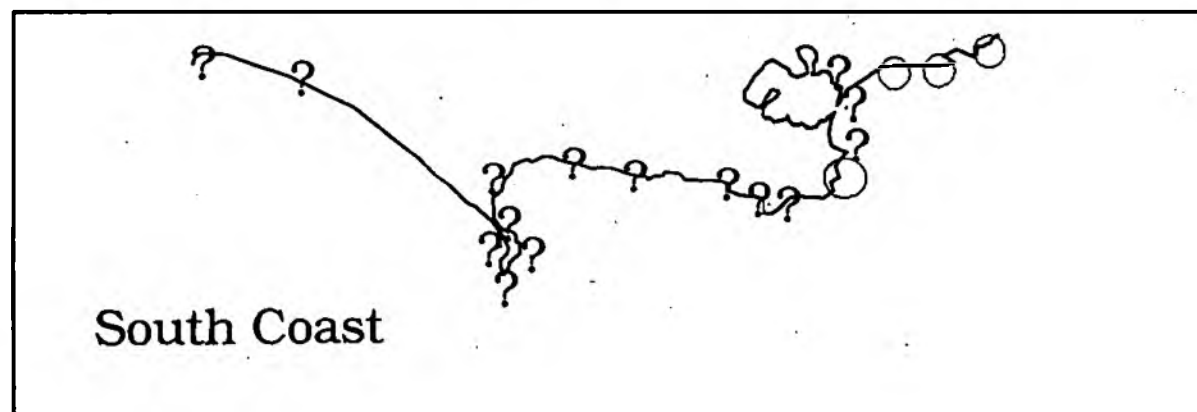
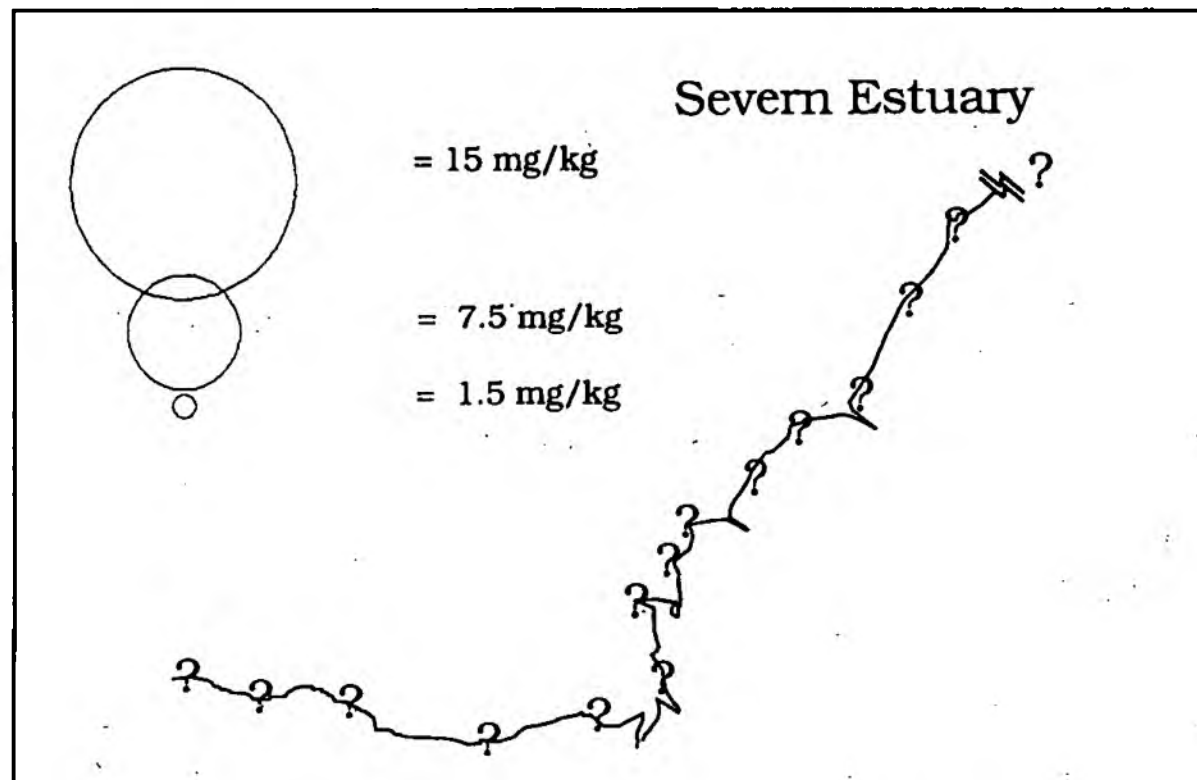
## Notes

Levels are in mg/kg dry weight

? = No data available

○ = Actual value

◻ = Less than limit of detection



|                                                                                       |                                                                                                                            |
|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Job Title:                                                                            | Coastwatch Bio-accumulation Programme                                                                                      |
| Prepared by:                                                                          | S. J. White, Biology Laboratory,<br>NRA Wessex Region, Rivers House,<br>Sunrise Business Park,<br>Blandford Forum, Dorset. |
|  |                                                                                                                            |

# 1992 *Mytilus edulis* Nickel

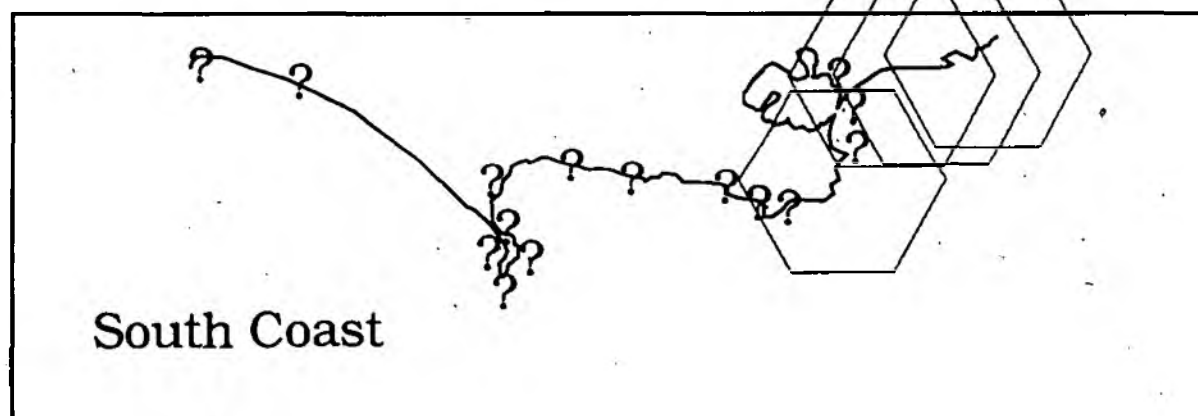
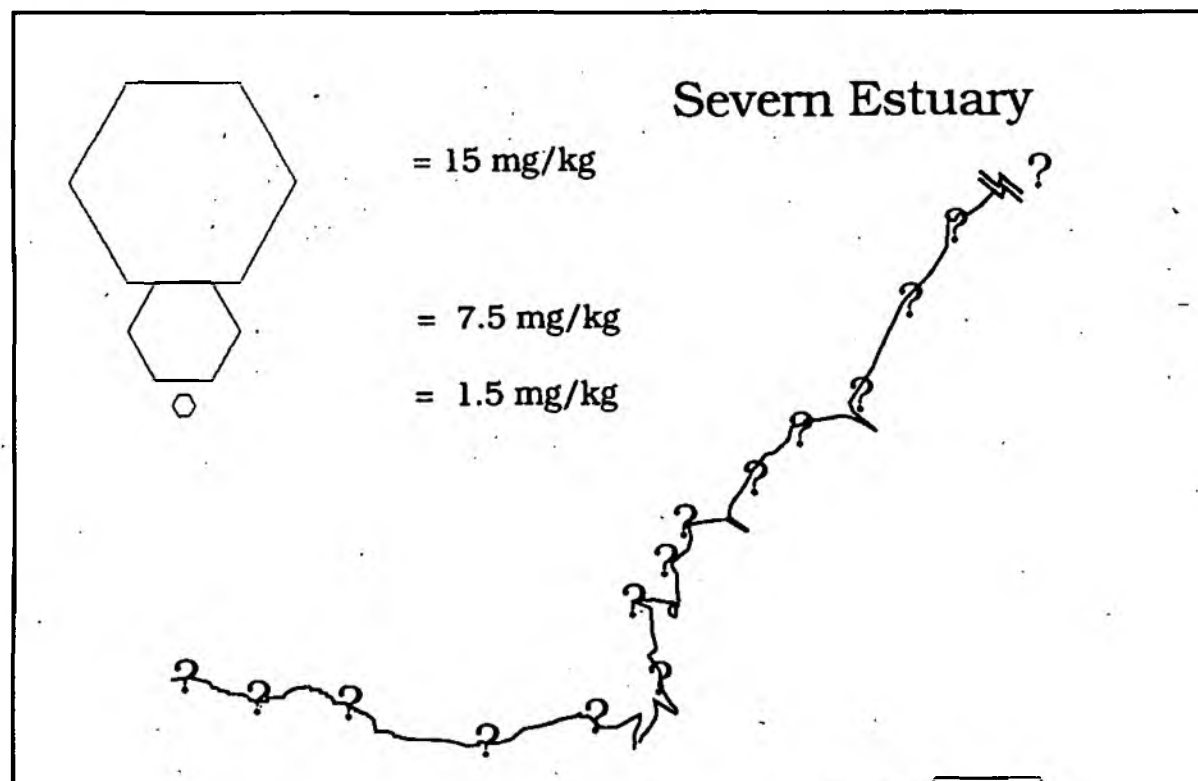
## Notes

Levels are in mg/kg dry weight

? = No data available

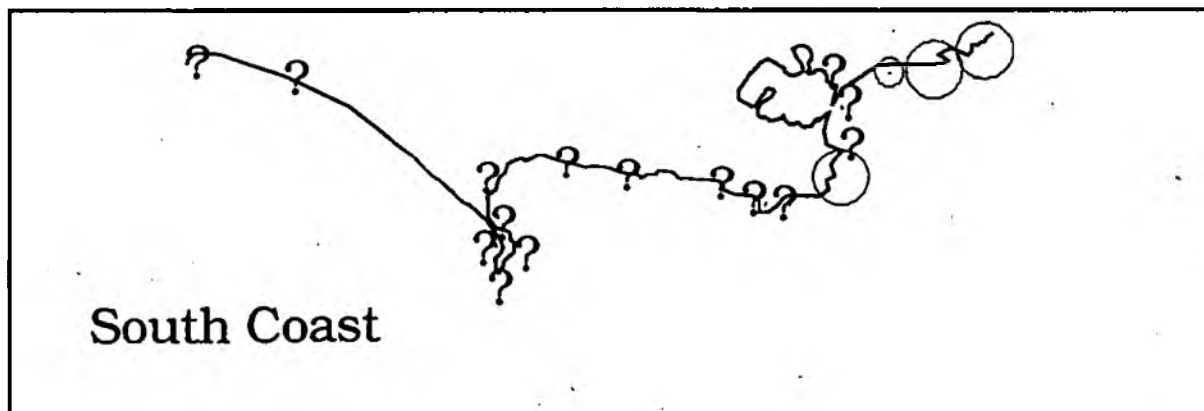
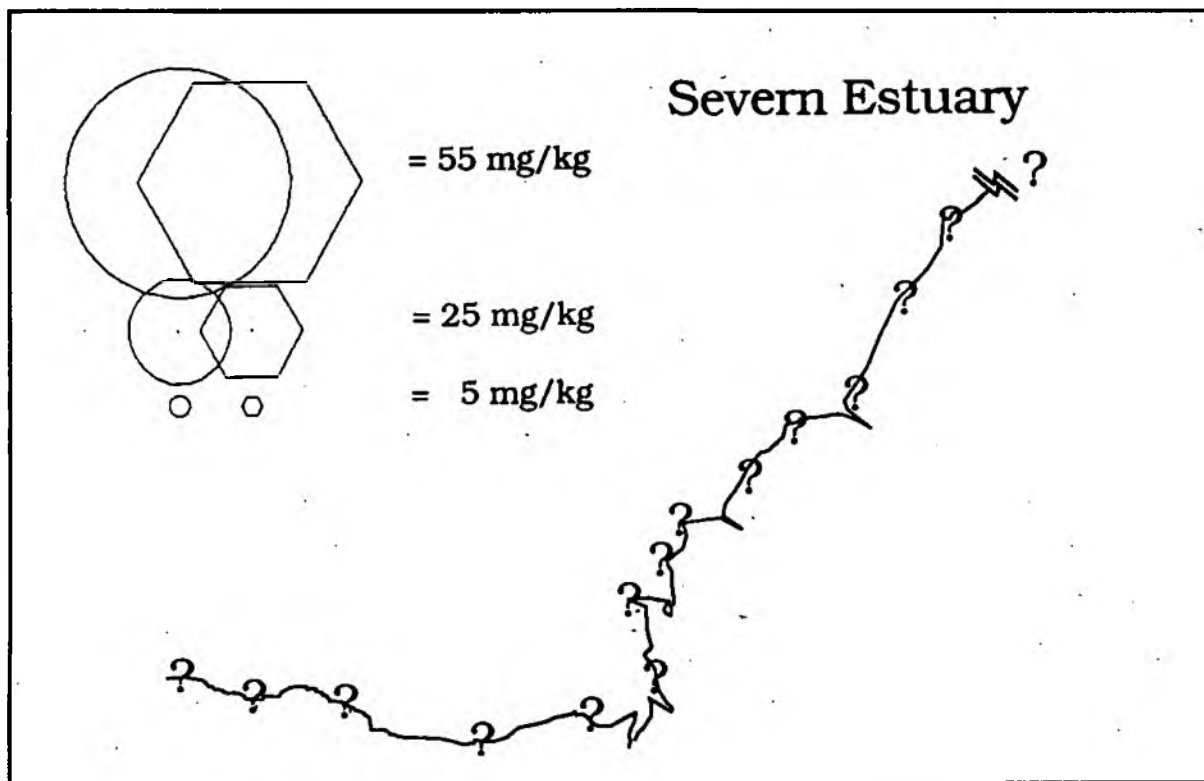
○ = Actual value

⬡ = Less than limit of detection



|              |                                                                                                                           |
|--------------|---------------------------------------------------------------------------------------------------------------------------|
| Job Title:   | Coastwatch Bio-accumulation Programme                                                                                     |
| Prepared by: | S. J. White, Biology Laboratory,<br>NRA Wessex Region, Rivers House,<br>Sumner Business Park,<br>Blandford Forum, Dorset. |
| NRA          |                                                                                                                           |

# 1992 *Mytilus edulis* Copper



# Notes

Levels are in mg/kg dry weight

? = No data available

○ = Actual value

⬡ = Less than limit of detection

|                                                                                                                |                                                                                                                           |
|----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Job Title:                                                                                                     | Coastwatch Bio-accumulation<br>Programme                                                                                  |
| Prepared<br>by :<br><br>NRA | S. J. White, Biology Laboratory,<br>NRA Wessex Region, Rivers House<br>Sunrise Business Park,<br>Blandford Forum, Dorset. |

# 1992 *Mytilus edulis* Cadmium

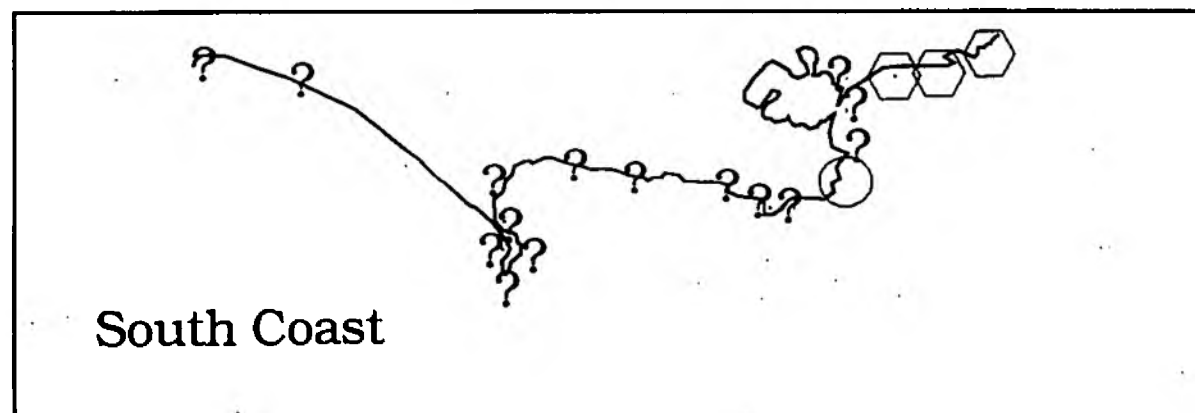
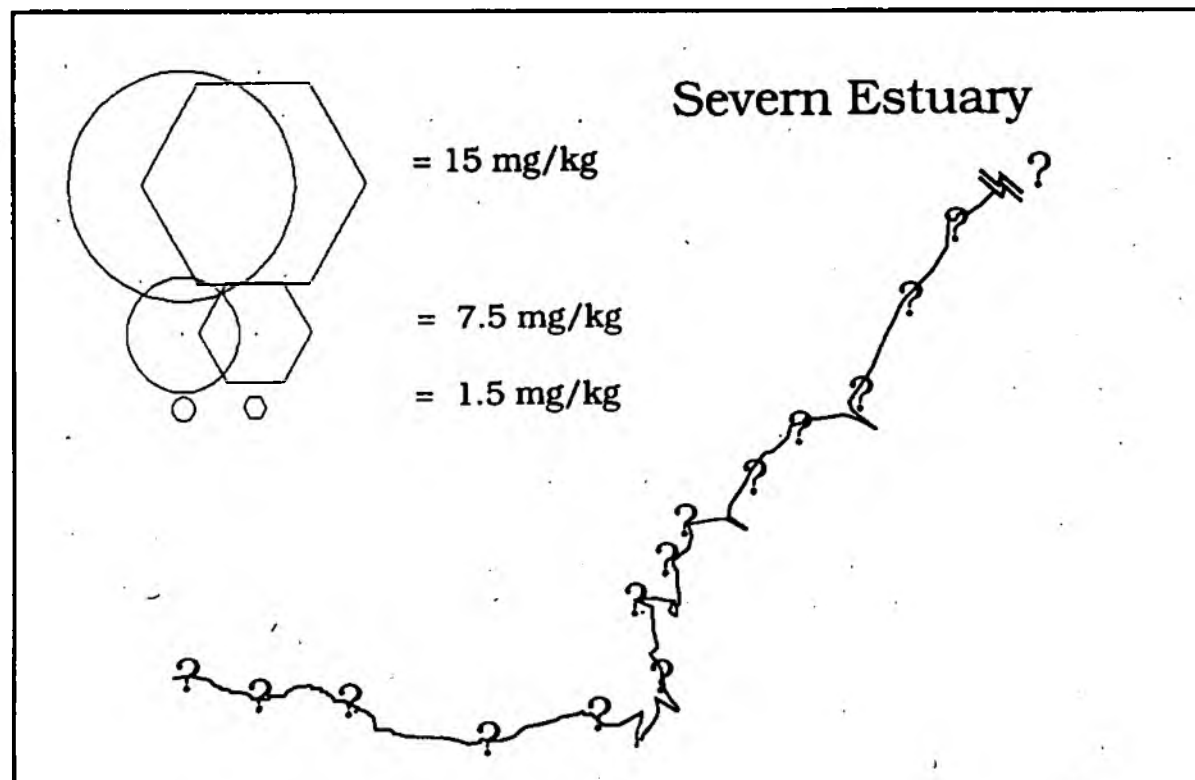
## Notes

Levels are in mg/kg dry weight

? = No data available

○ = Actual value

⬡ = Less than limit of detection



|                                                                                       |                                                                                                                           |
|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Job Title:                                                                            | Coastwatch Bio-accumulation Programme                                                                                     |
| Prepared by:                                                                          | S. J. White, Biology Laboratory,<br>NRA Wessex Region, Rivers House<br>Sunrise Business Park,<br>Blandford Forum, Dorset. |
|  |                                                                                                                           |



# 1992 *Mytilus edulis* Lead

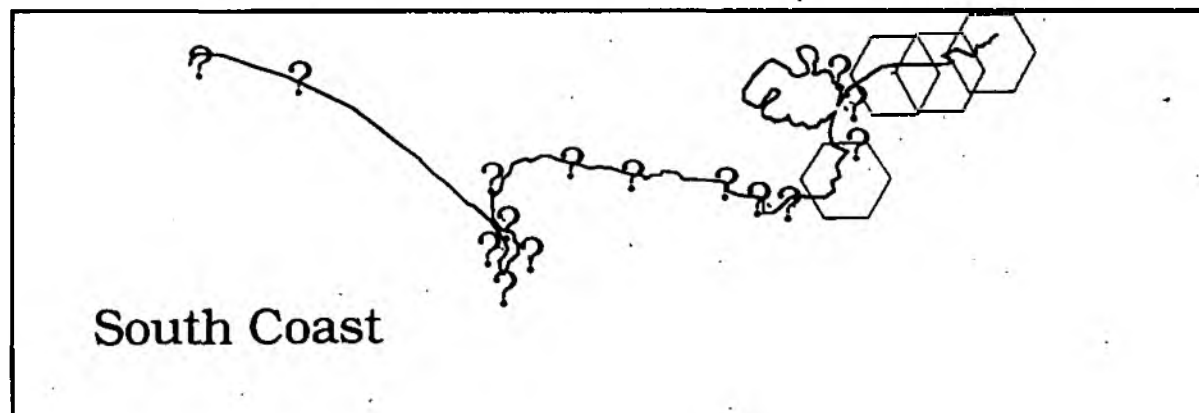
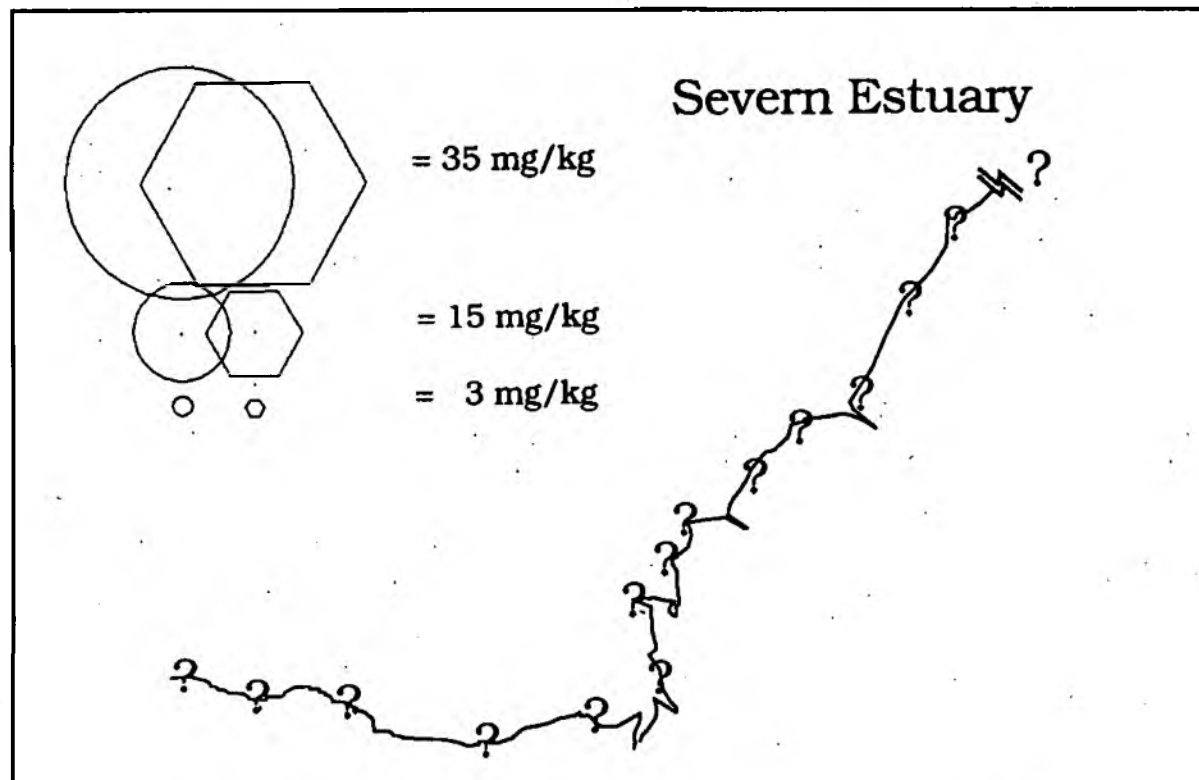
## Notes

Levels are in mg/kg dry weight

? = No data available

○ = Actual value

⬡ = Less than limit of detection



|              |                                                                                                                          |
|--------------|--------------------------------------------------------------------------------------------------------------------------|
| Job Title:   | Coastwatch Bio-accumulation Programme                                                                                    |
| Prepared by: | S. J. White, Biology Laboratory,<br>NRA Wessex Region, Rivers House<br>Surrey Business Park,<br>Blandford Forum, Dorset. |
| NRA          |                                                                                                                          |

# 1992 *Mytilus edulis* Chromium

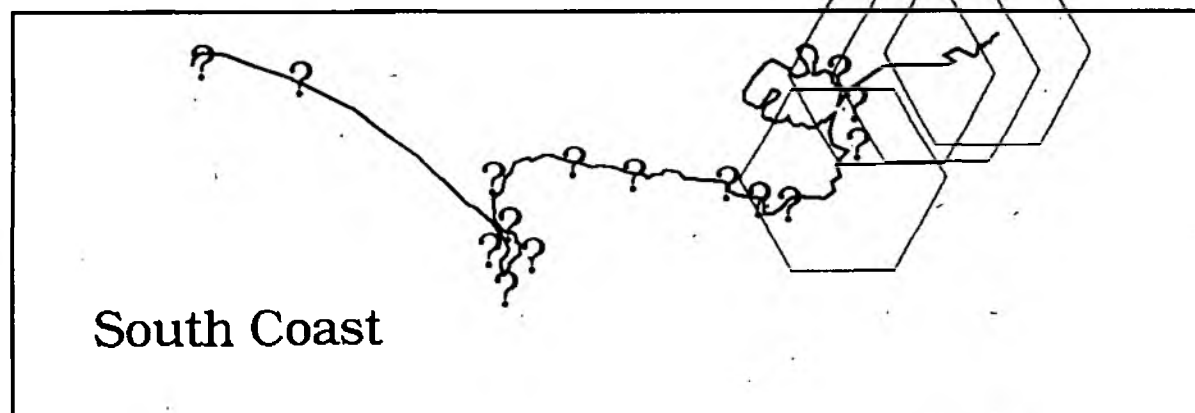
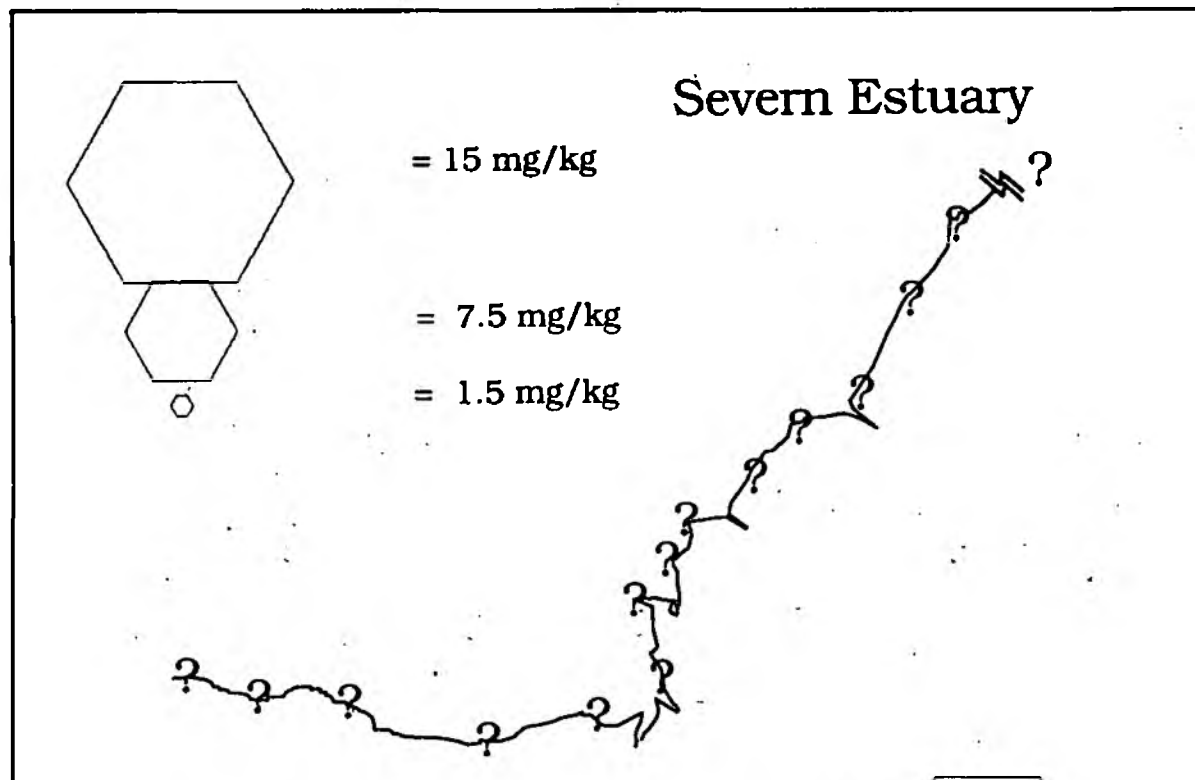
## Notes

Levels are in mg/kg dry weight

? = No data available

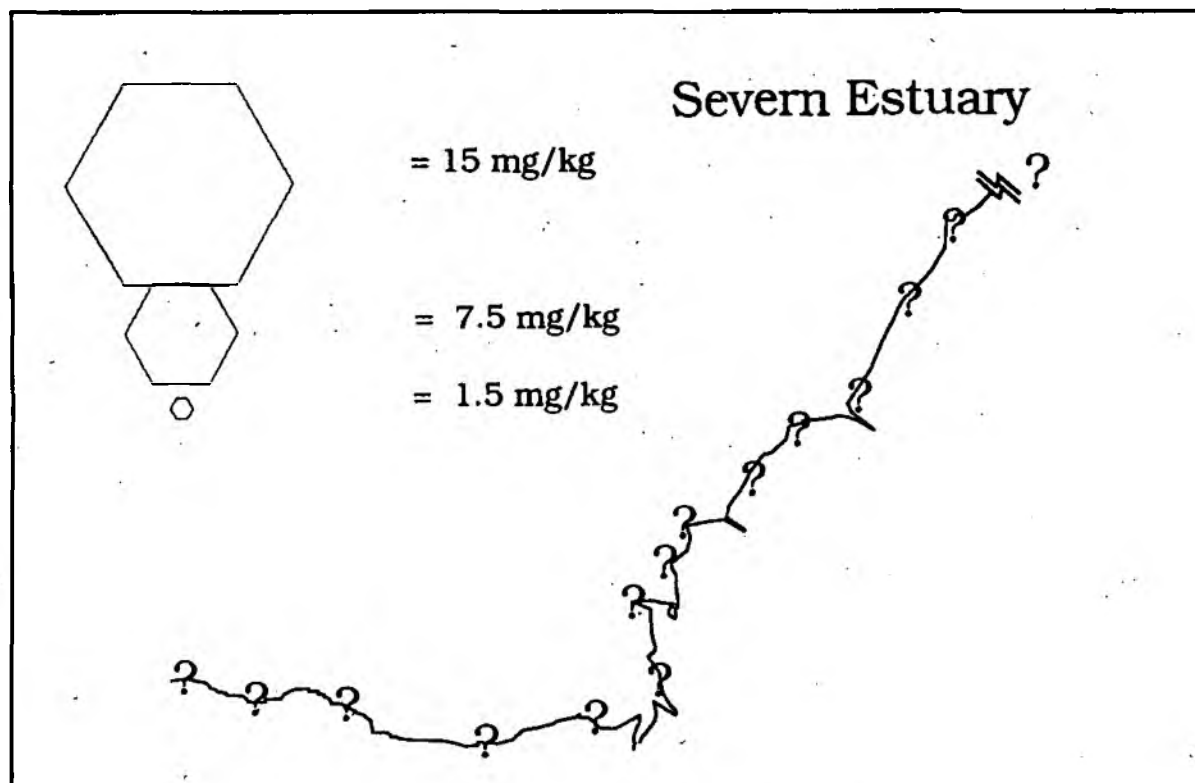
○ = Actual value

⬡ = Less than limit of detection



|                                                                                       |                                                                                                                            |
|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Job Title:                                                                            | Coastwatch Bio-accumulation Programme                                                                                      |
| Prepared by:                                                                          | S. J. White, Biology Laboratory,<br>NRA Wessex Region, Rivers House,<br>Sunrise Business Park,<br>Blandford Forum, Dorset. |
|  |                                                                                                                            |

# 1992 *Mytilus edulis* Mercury



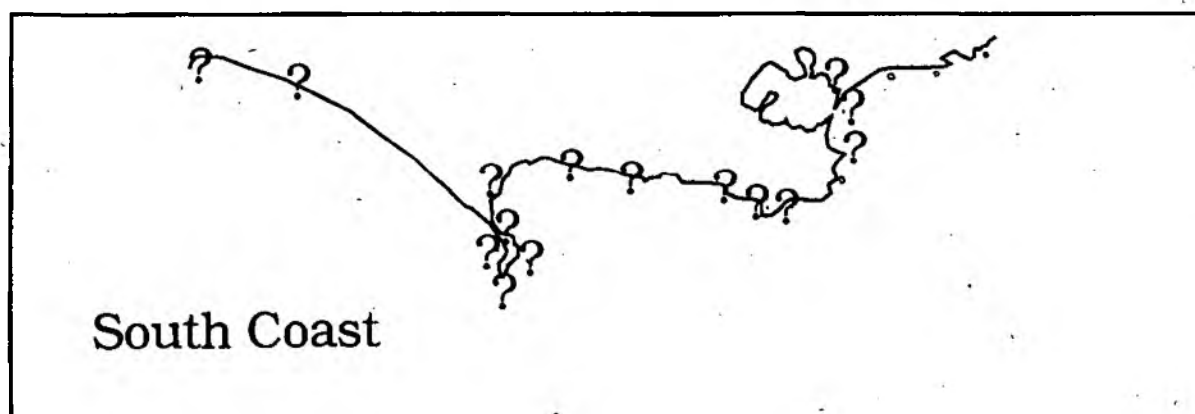
## Notes

Levels are in mg/kg dry weight

? = No data available

= Actual value

= Less than limit of detection



|              |                                                                                                                            |
|--------------|----------------------------------------------------------------------------------------------------------------------------|
| Job Title:   | Coastwatch Bio-accumulation Programme                                                                                      |
| Prepared by: | S. J. White, Biology Laboratory,<br>NRA Wessex Region, Rivers House,<br>Sunrise Business Park,<br>Blandford Forum, Dorset. |
|              |                                                                                                                            |

# 1992 *Mytilus edulis* Silver

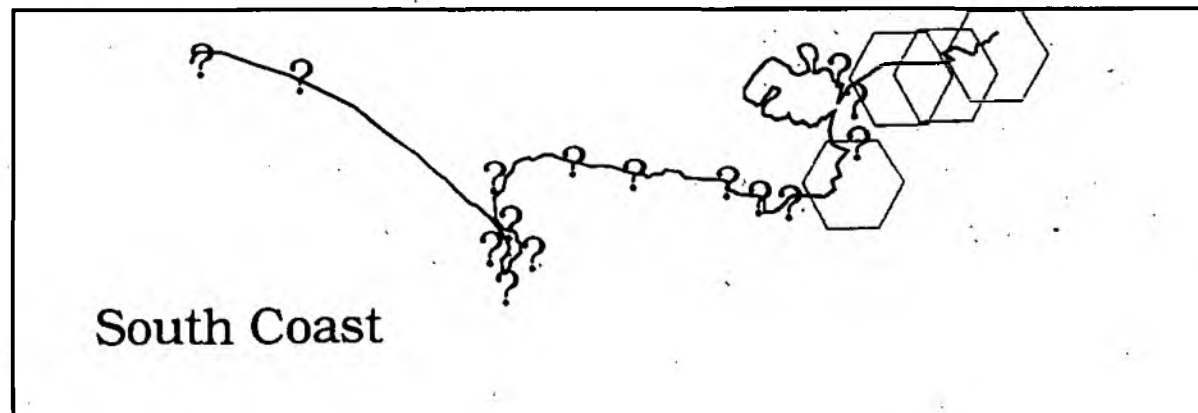
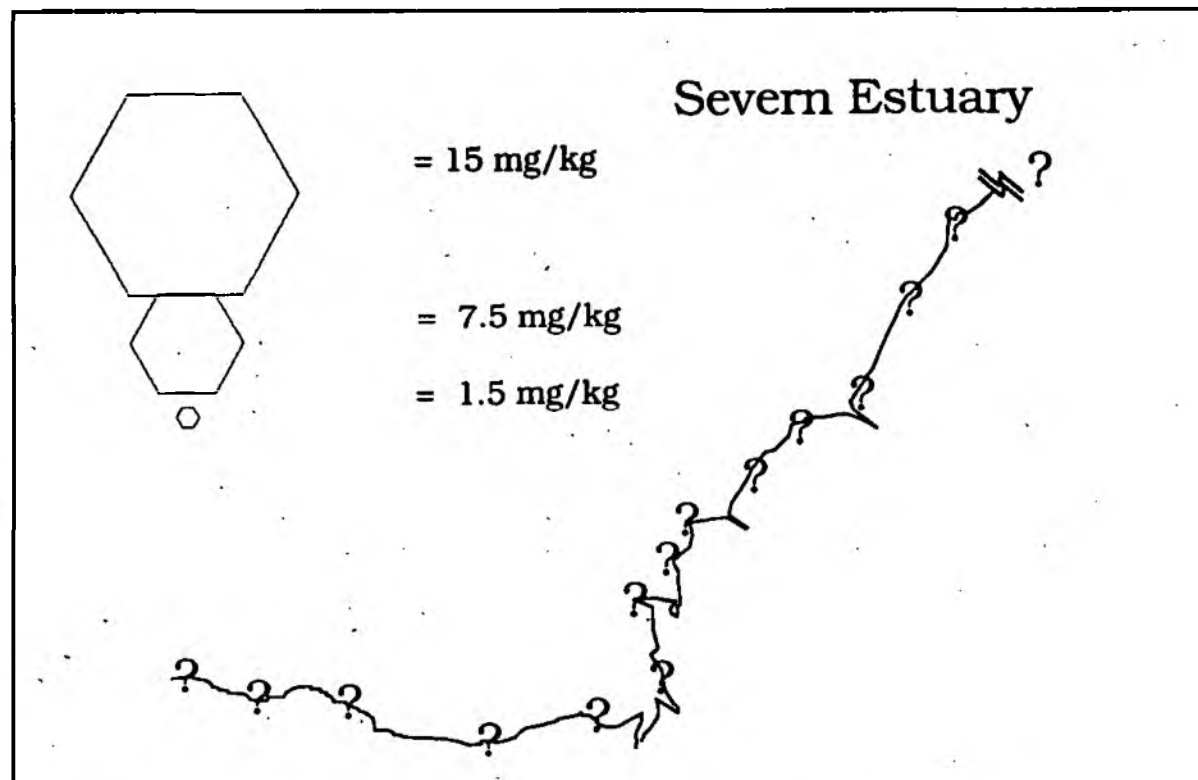
## Notes

Levels are in mg/kg dry weight

? = No data available

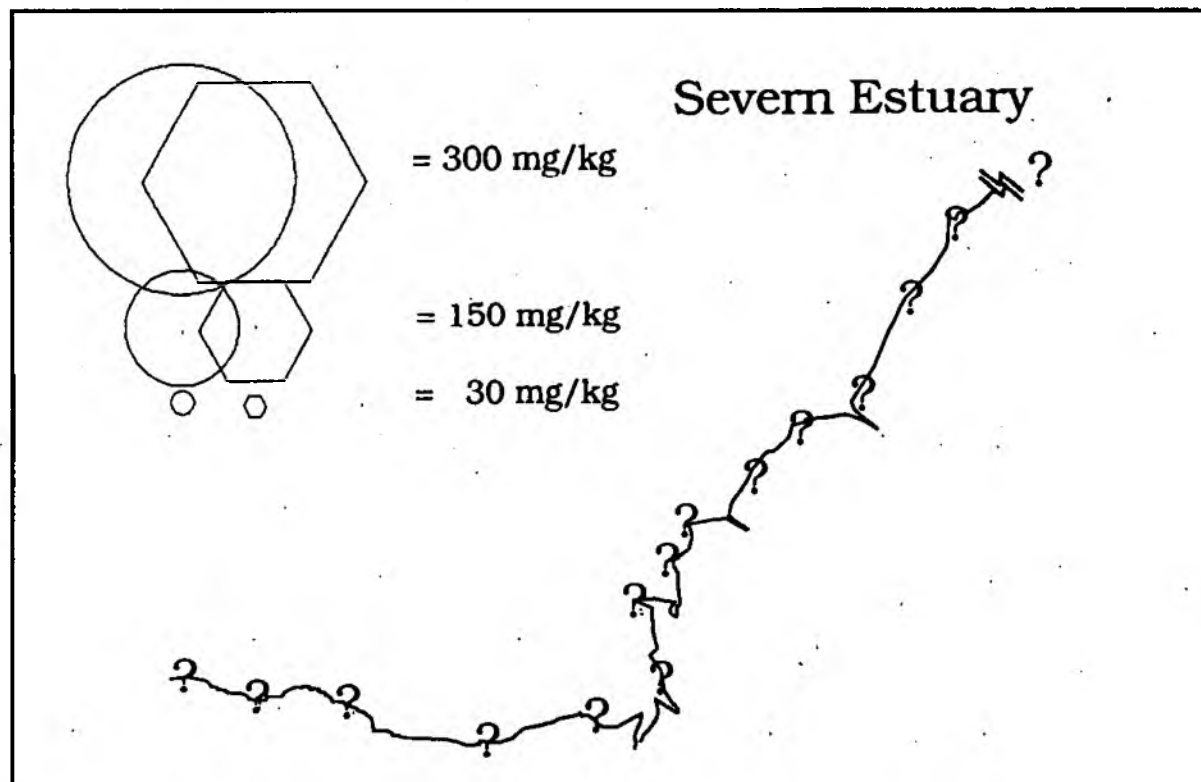
○ = Actual value

⬡ = Less than limit of detection



|                                                                                       |                                                                                                                           |
|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Job Title:                                                                            | Coastwatch Bio-accumulation Programme                                                                                     |
| Prepared by:                                                                          | S. J. White, Biology Laboratory,<br>NRA Wessex Region, Rivers House<br>Sunrise Business Park,<br>Blandford Forum, Dorset. |
|  |                                                                                                                           |

# 1992 *Mytilus edulis* Zinc



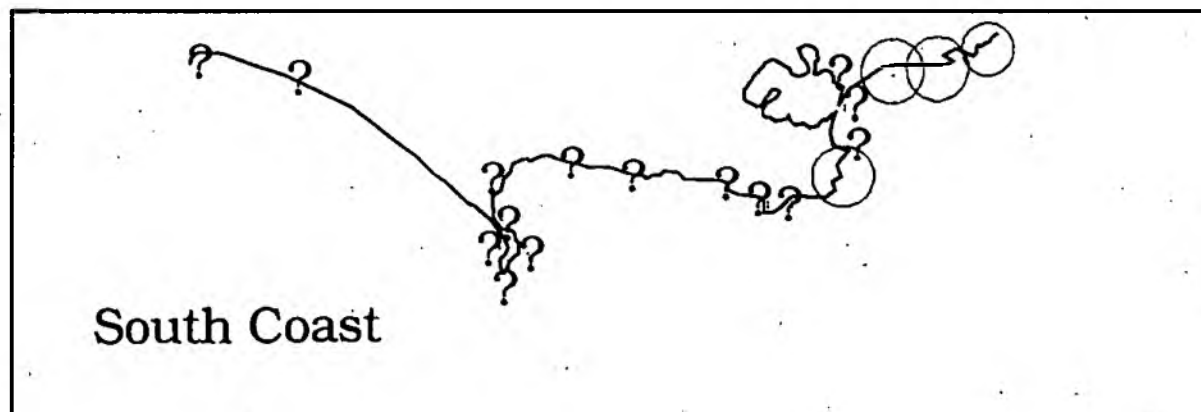
## Notes

Levels are in mg/kg dry weight

? = No data available

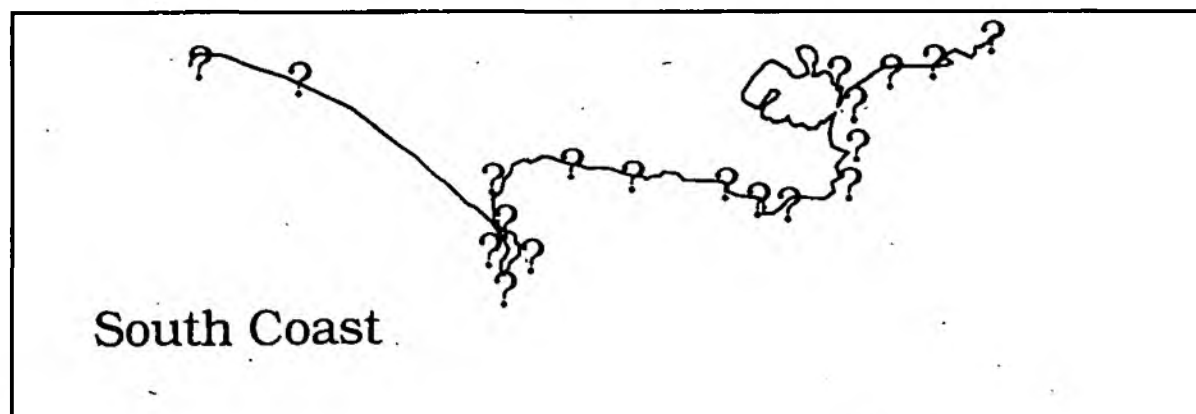
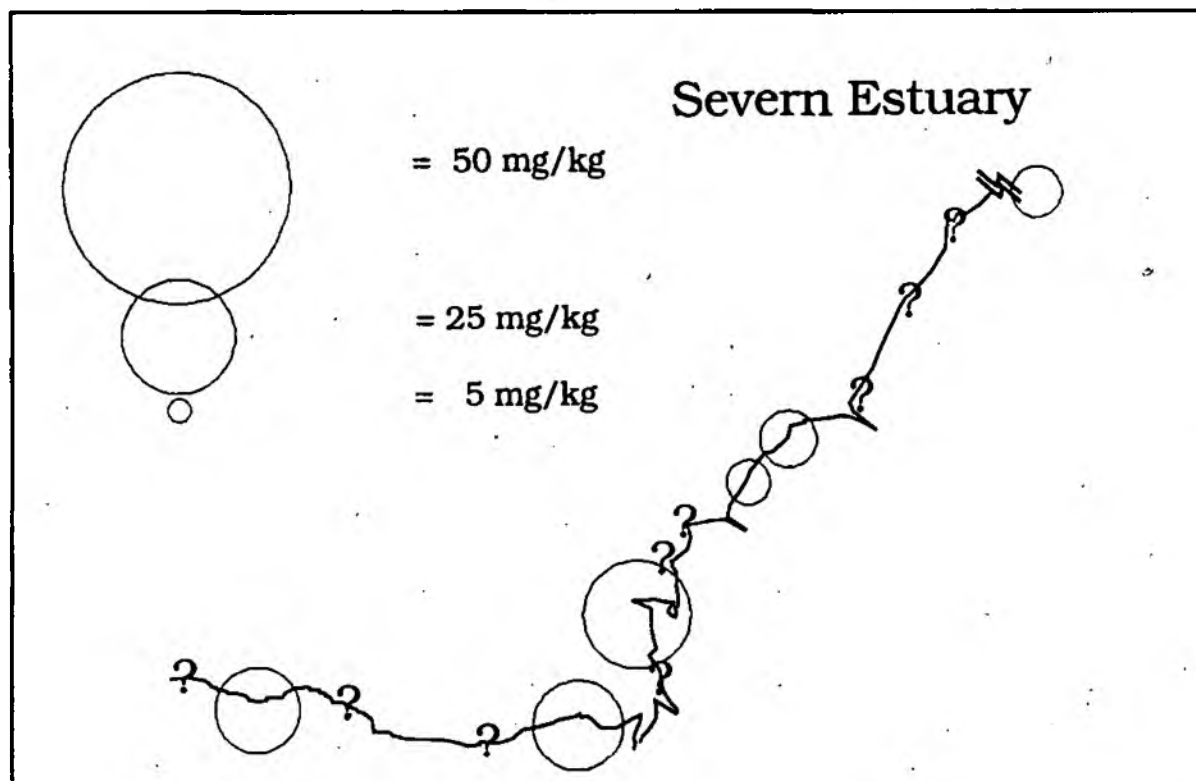
○ = Actual value

⬡ = Less than limit of detection



|                                                                                       |                                                                                                                            |
|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Job Title:                                                                            | Coastwatch Bio-accumulation Programme                                                                                      |
| Prepared by:                                                                          | S. J. White, Biology Laboratory,<br>NRA Wessex Region, Rivers House,<br>Sunrise Business Park,<br>Blandford Forum, Dorset. |
|  |                                                                                                                            |

# 1991 *Fucus vesiculosus* Arsenic



## Notes

Levels are in mg/kg dry weight

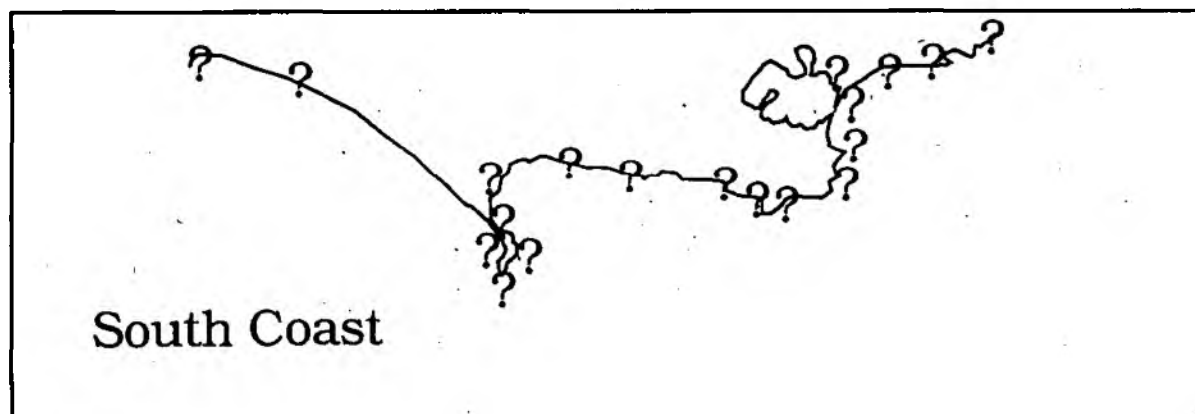
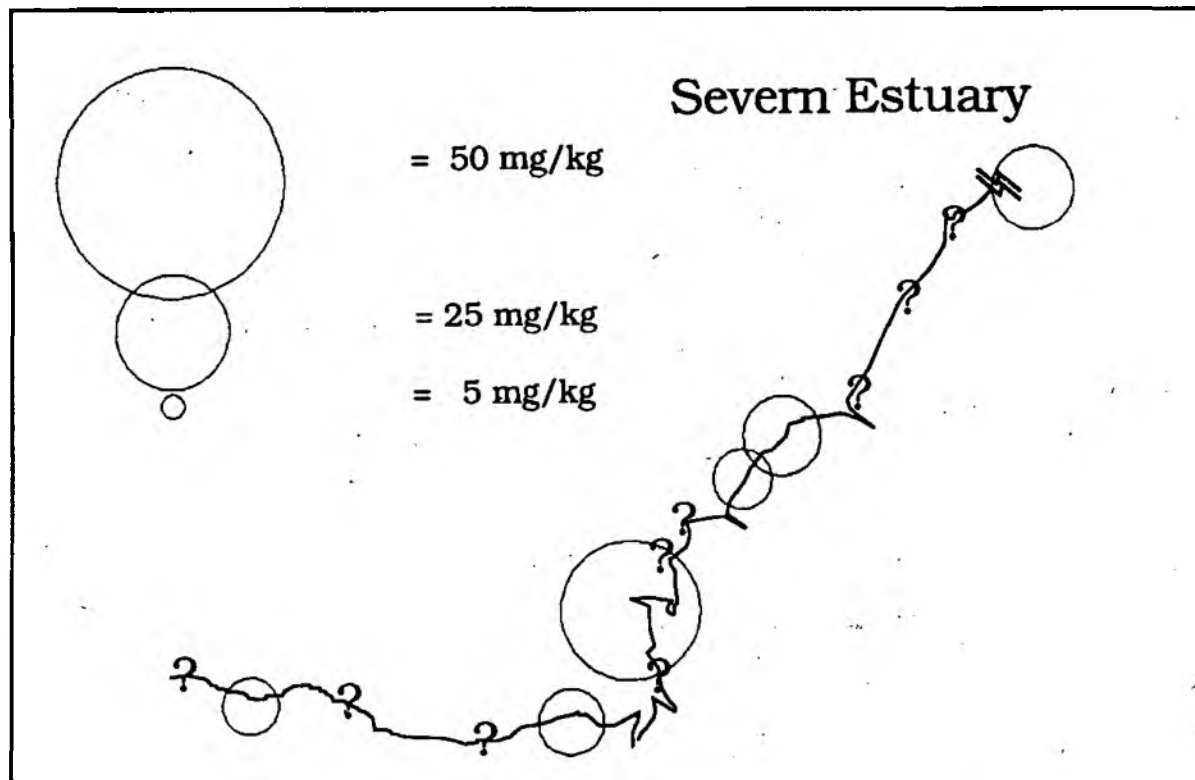
? = No data available

○ = Actual value

⬡ = Less than limit of detection

|                                                                                       |                                                                                                                           |
|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Job Title:                                                                            | Coastwatch Bio-accumulation Programme                                                                                     |
| Prepared by:                                                                          | S. J. White, Biology Laboratory,<br>NRA Wessex Region, Rivers House,<br>Sunrise Business Park,<br>Blandford Forum, Dorset |
|  |                                                                                                                           |

# 1991 *Fucus vesiculosus* Nickel



## Notes

Levels are in mg/kg dry weight

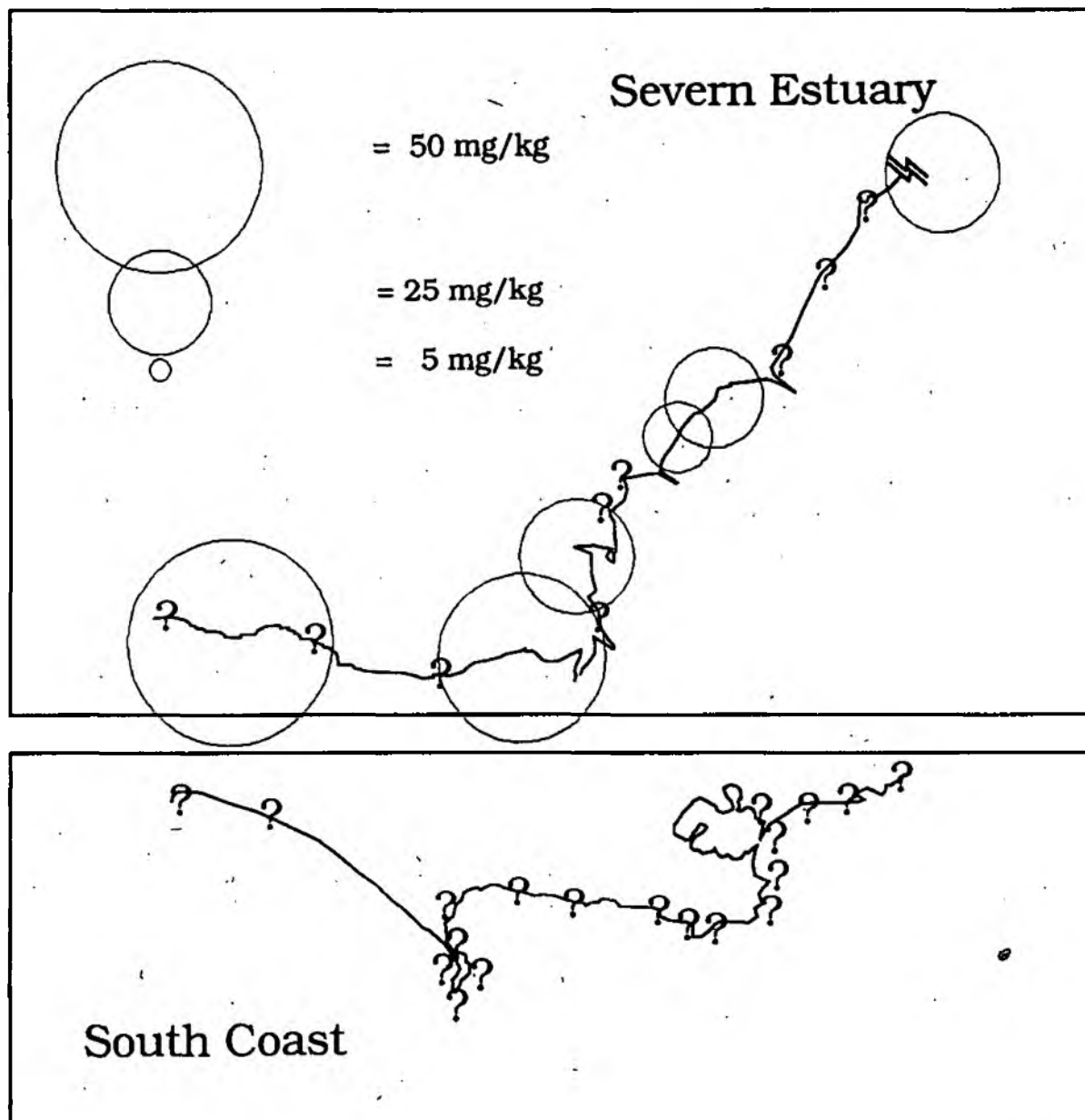
? = No data available

○ = Actual value

⬡ = Less than limit of detection

|                                                                                       |                                                                                                                            |
|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Job Title:                                                                            | Coastwatch Bio-accumulation Programme                                                                                      |
| Prepared by:                                                                          | S. J. White, Biology Laboratory,<br>NRA Wessex Region, Rivers House,<br>Sunrise Business Park,<br>Blandford Forum, Dorset. |
|  |                                                                                                                            |

# 1991 *Fucus vesiculosus* Copper



## Notes

Levels are in mg/kg dry weight

? = No data available

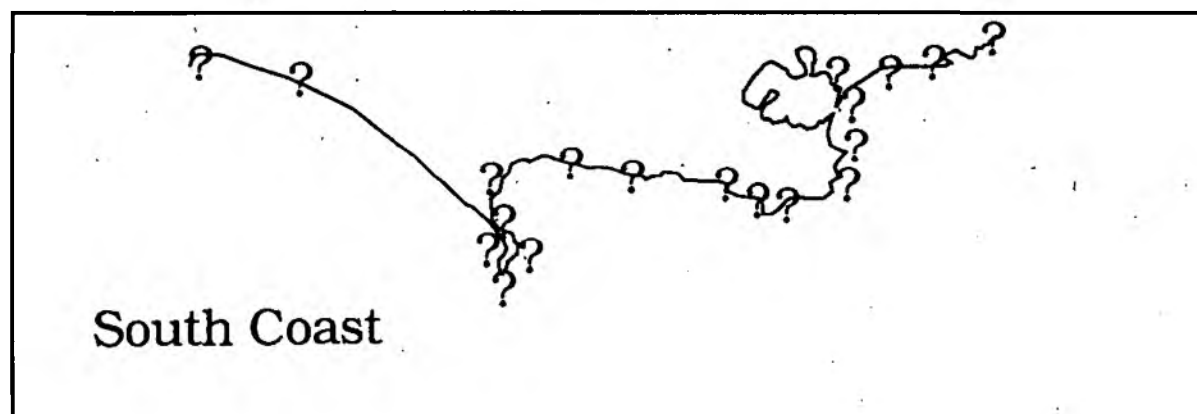
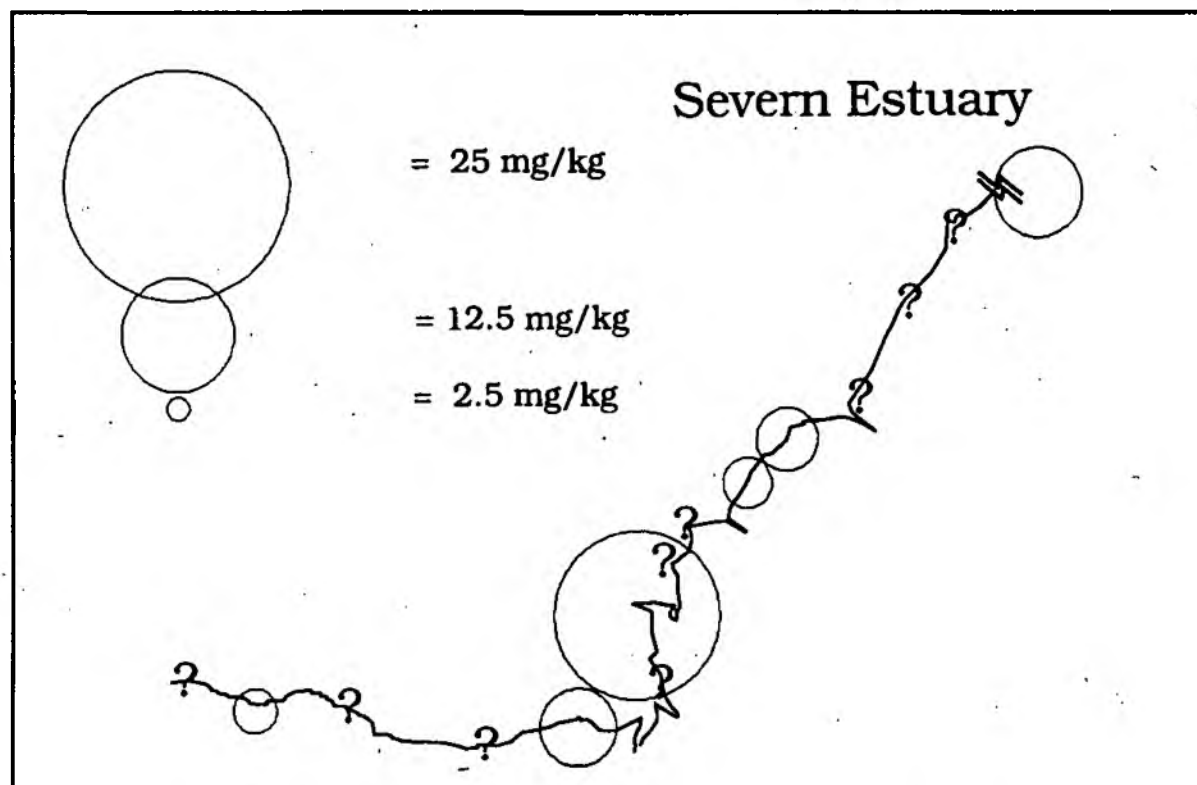
○ = Actual value

◻ = Less than limit of detection

|                                                                                       |                                                                                                                           |
|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Job Title:                                                                            | Coastwatch Bio-accumulation Programme                                                                                     |
| Prepared by:                                                                          | S. J. White, Biology Laboratory,<br>NRA Wessex Region, Rivers House,<br>Surrey Business Park,<br>Blandford Forum, Dorset. |
|  |                                                                                                                           |



# 1991 *Fucus vesiculosus* Cadmium



## Notes

Levels are in mg/kg dry weight

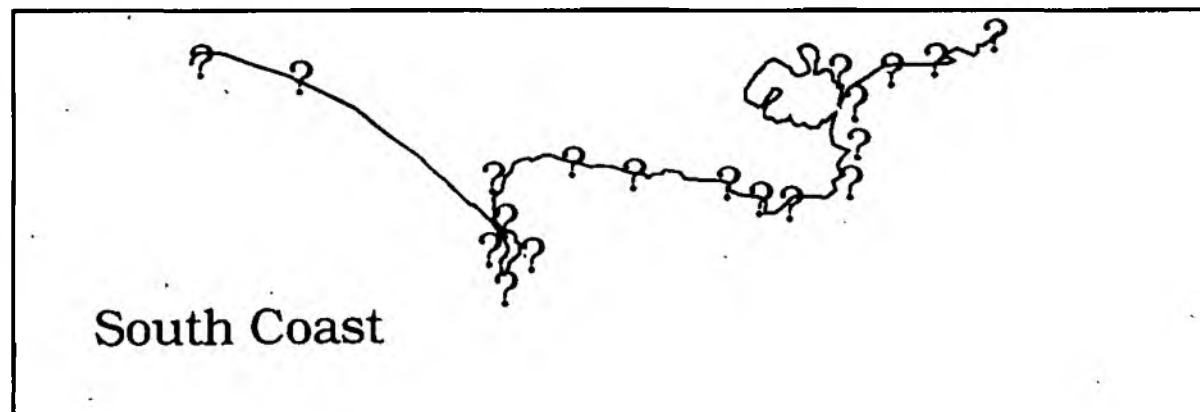
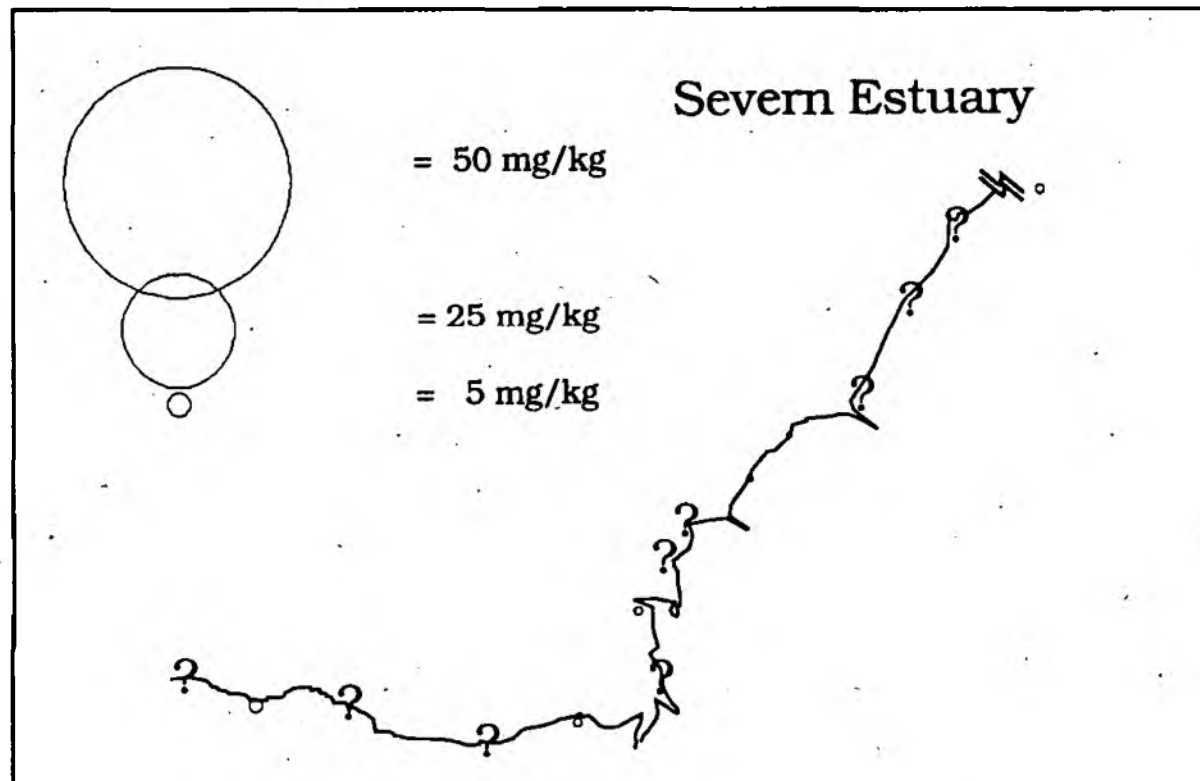
? = No data available

○ = Actual value

⬡ = Less than limit of detection

|              |                                                                                                                           |
|--------------|---------------------------------------------------------------------------------------------------------------------------|
| Job Title:   | Coastwatch Bio-accumulation Programme                                                                                     |
| Prepared by: | S. J. White, Biology Laboratory,<br>NRA Wessex Region, Rivers House<br>Sunrise Business Park,<br>Blandford Forum, Dorset. |
| NEA          |                                                                                                                           |

# 1991 *Fucus vesiculosus* Lead



## Notes

Levels are in mg/kg dry weight

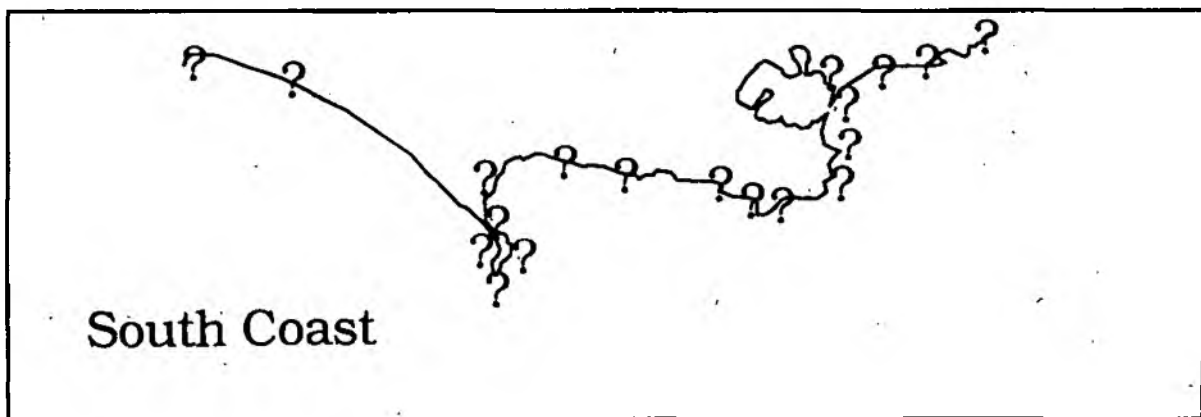
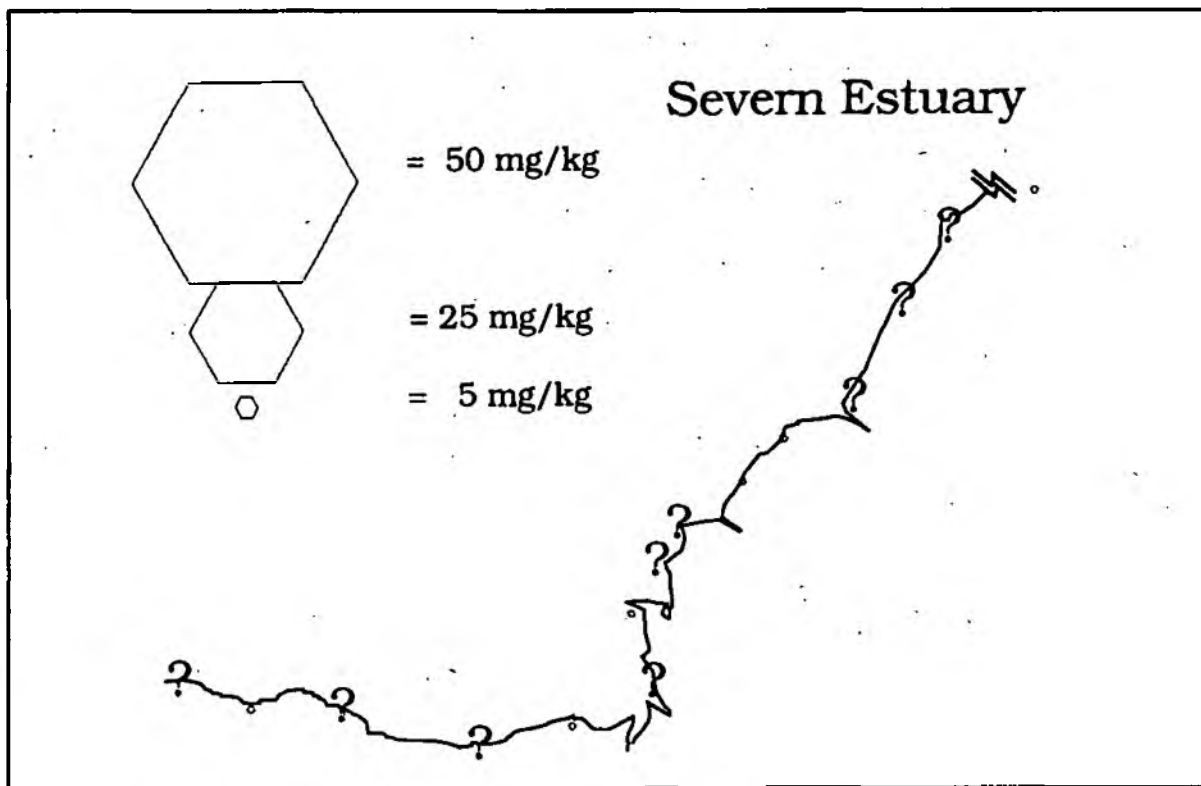
? = No data available

○ = Actual value

◻ = Less than limit of detection

|                                                                                       |                                                                                                                            |
|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Job Title:                                                                            | Coastwatch Bio-accumulation Programme                                                                                      |
| Prepared by:                                                                          | S. J. White, Biology Laboratory,<br>NRA Wessex Region, Rivers House,<br>Sunrise Business Park,<br>Blandford Forum, Dorset. |
|  |                                                                                                                            |

# 1991 *Fucus vesiculosus* Chromium



# Notes

Levels are in mg/kg dry weight

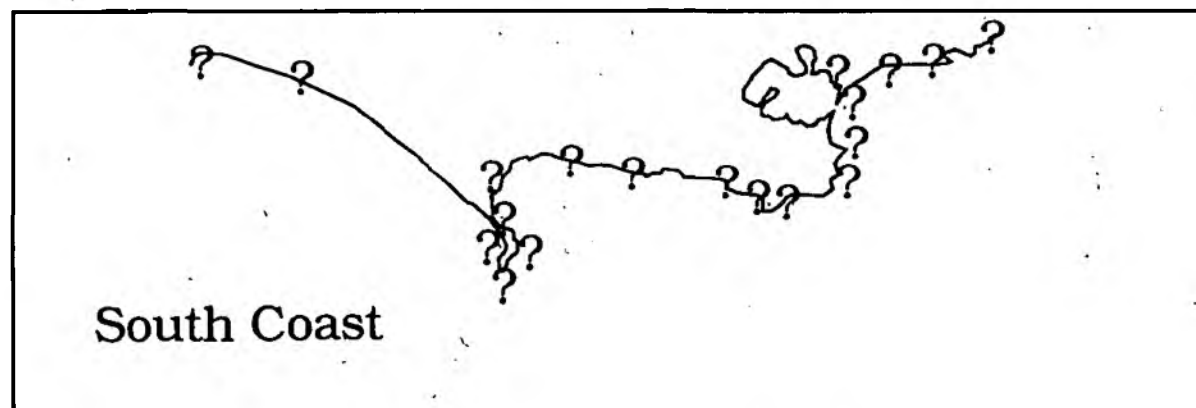
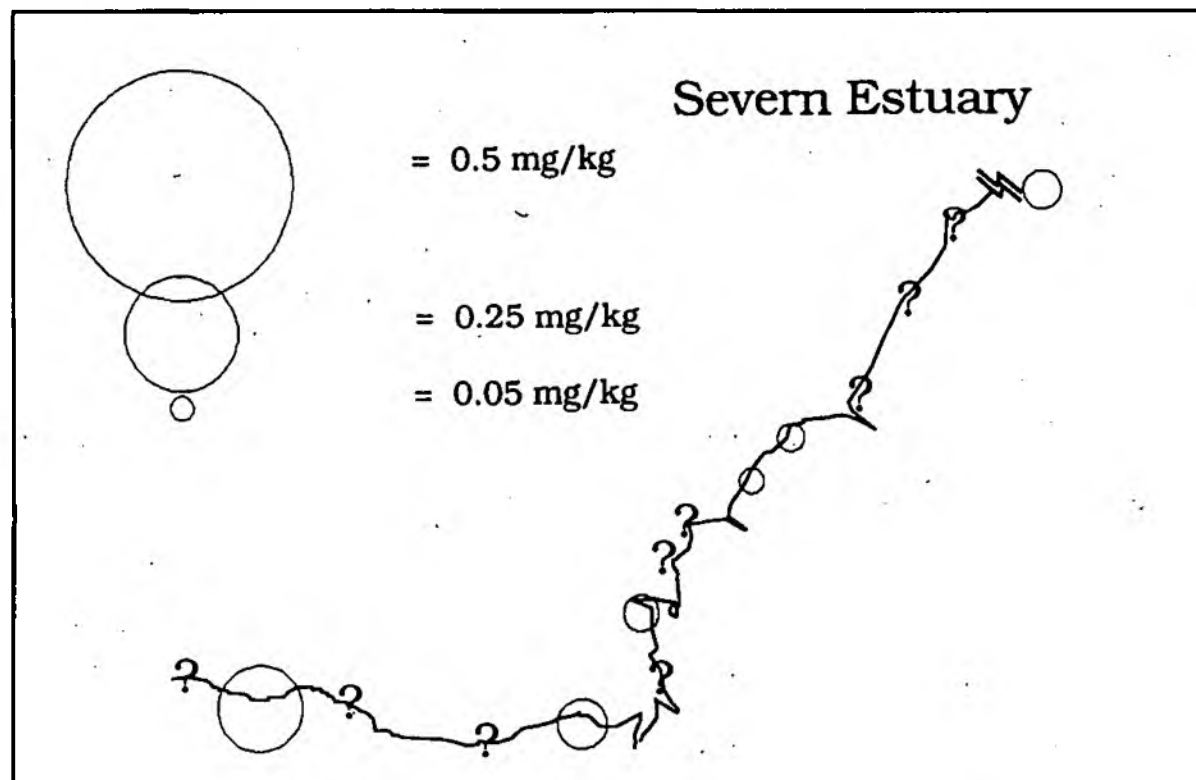
? = No data available

○ = Actual value

⬡ = Less than limit of detection

|                                                                                                            |                                                                                                                           |
|------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Job Title:                                                                                                 | Coastwatch Bio-accumulation Programme                                                                                     |
| Prepared by:<br><br>NRA | S. J. White, Biology Laboratory,<br>NRA Wessex Region, Rivers House<br>Sunrise Business Park,<br>Blandford Forum, Dorset. |

# 1991 *Fucus vesiculosus* Mercury



## Notes

Levels are in mg/kg dry weight

? = No data available

○ = Actual value

◻ = Less than limit of detection

|                                                                                       |                                                                                                                            |
|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Job Title:                                                                            | Coastwatch Bio-accumulation Programme                                                                                      |
| Prepared by:                                                                          | S. J. White, Biology Laboratory,<br>NRA Wessex Region, Rivers House,<br>Sunrise Business Park,<br>Blandford Forum, Dorset. |
|  |                                                                                                                            |

# 1991 *Fucus vesiculosus* Silver

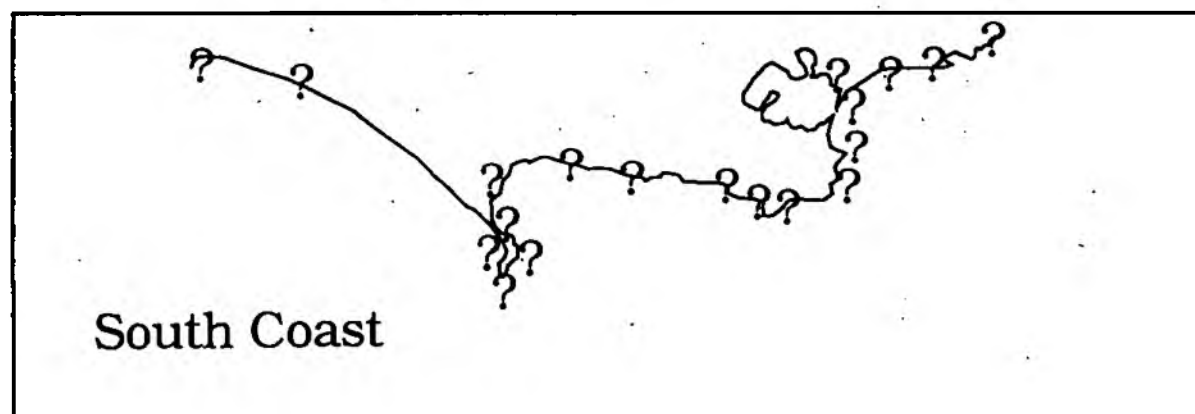
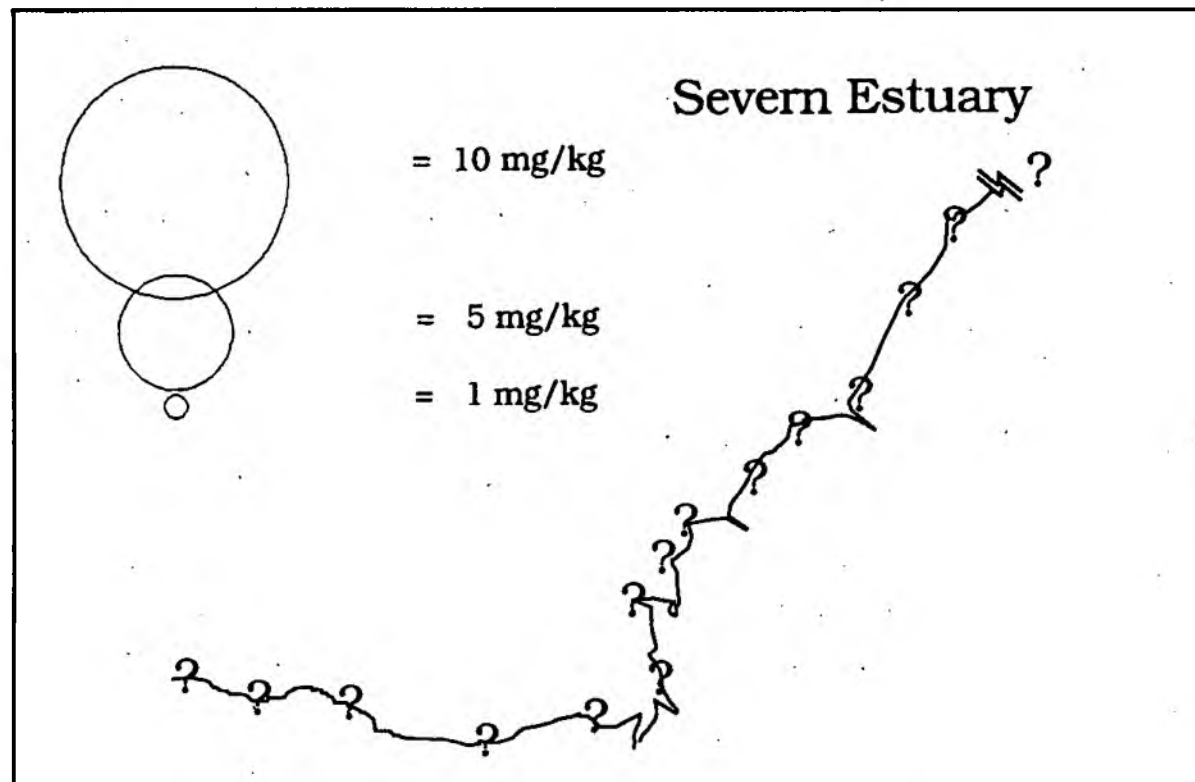
## Notes

Levels are in mg/kg dry weight

? = No data available

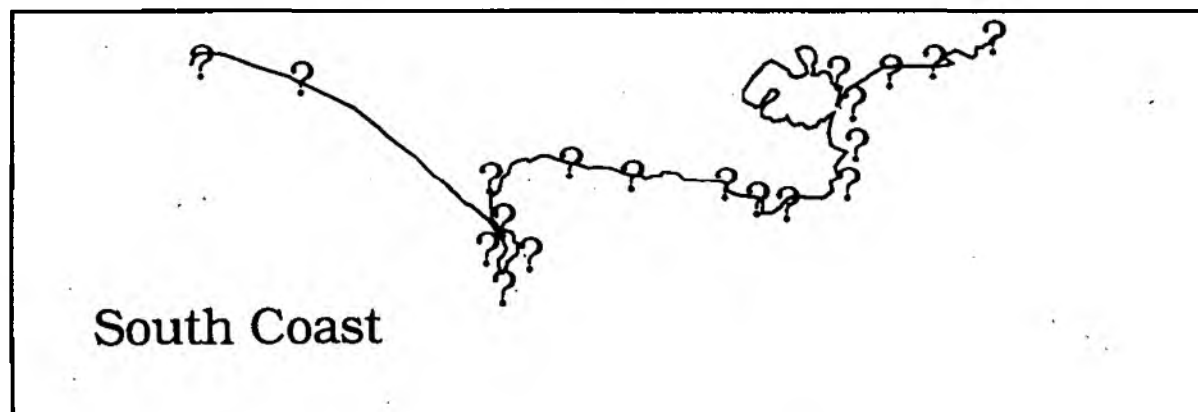
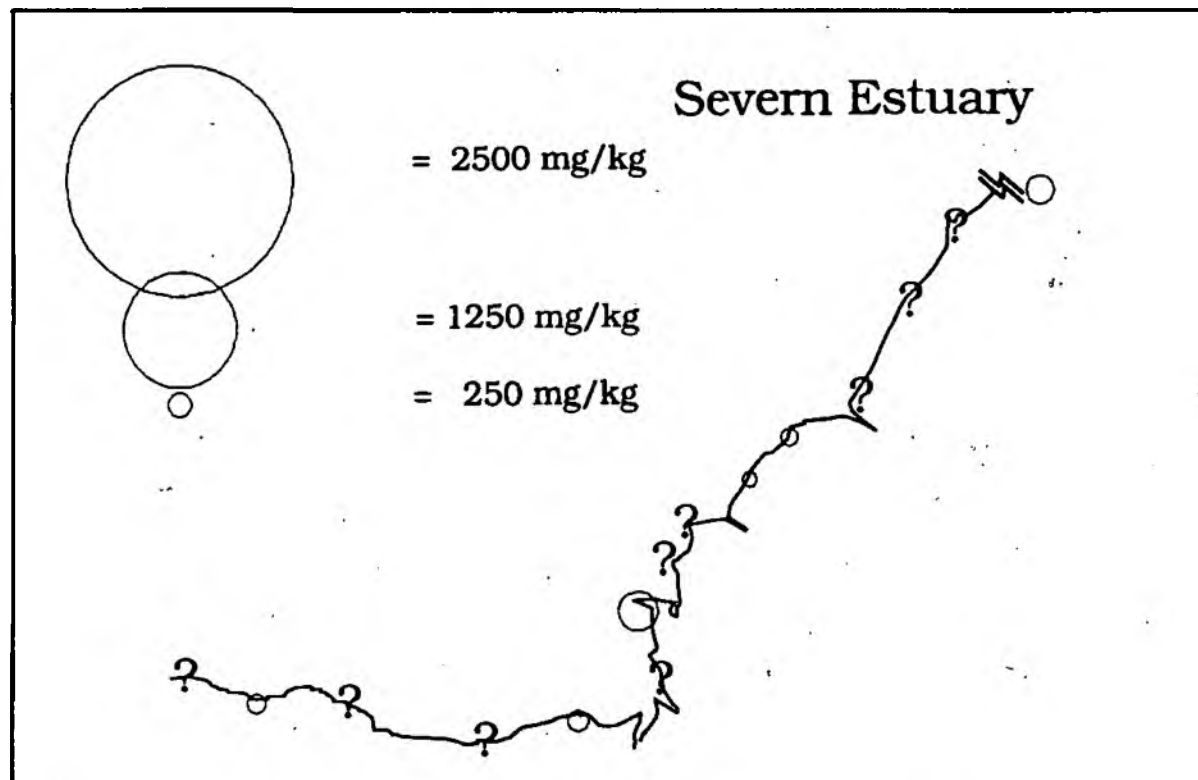
○ = Actual value

⬡ = Less than limit of detection



|                                                                                       |                                                                                                                            |
|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Job Title:                                                                            | Coastwatch Bio-accumulation Programme                                                                                      |
| Prepared by:                                                                          | S. J. White, Biology Laboratory,<br>NRA Wessex Region, Rivers House,<br>Sunrise Business Park,<br>Blandford Forum, Dorset. |
|  |                                                                                                                            |

# 1991 *Fucus vesiculosus* Zinc



## Notes

Levels are in mg/kg dry weight

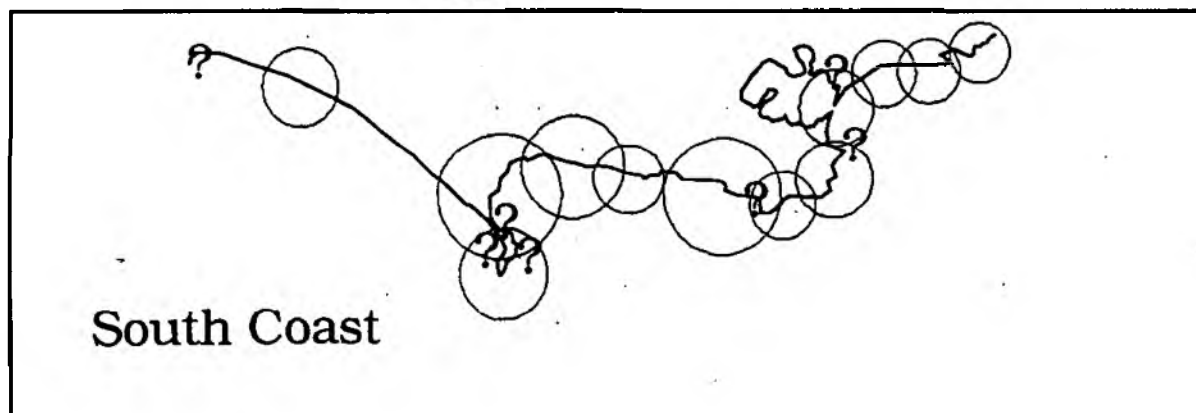
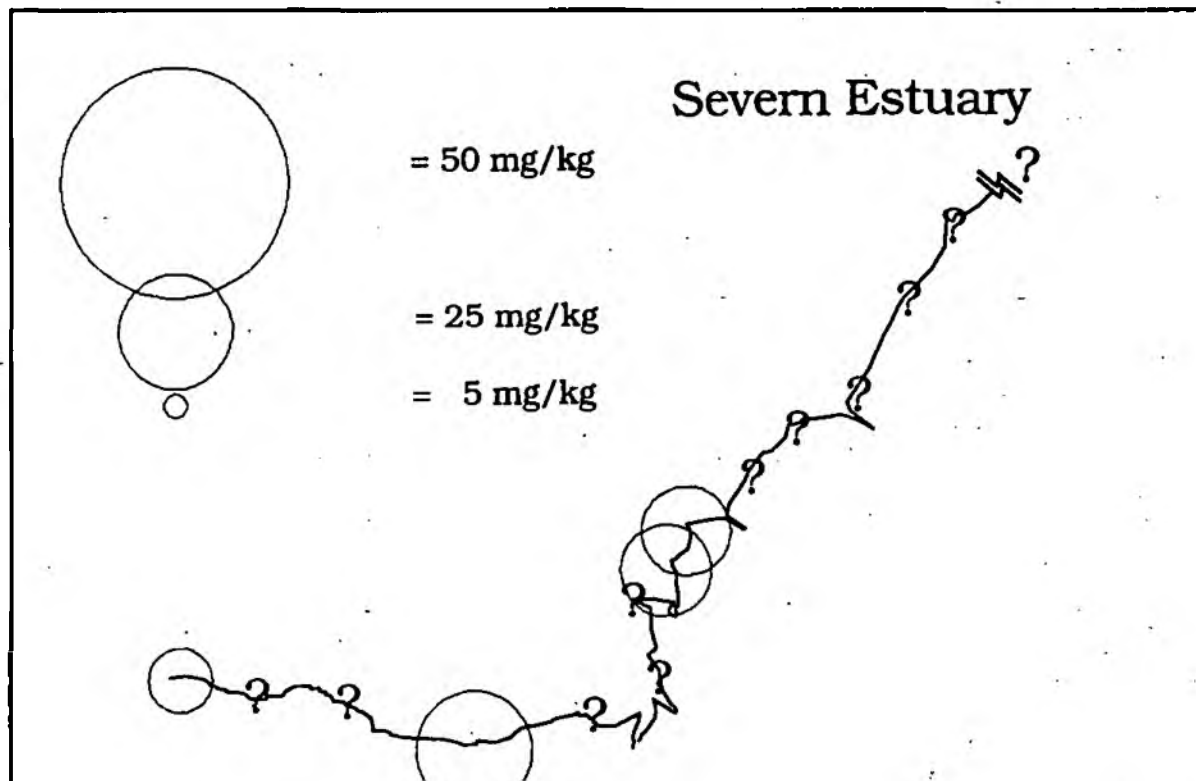
? = No data available

○ = Actual value

◻ = Less than limit of detection

|              |                                                                                                                            |
|--------------|----------------------------------------------------------------------------------------------------------------------------|
| Job Title:   | Coastwatch Bio-accumulation Programme                                                                                      |
| Prepared by: | S. J. White, Ecology Laboratory,<br>NRA Wessex Region, Rivers House,<br>Sunrise Business Park,<br>Blandford Forum, Dorset. |

# 1991 *Patella vulgata* Arsenic



## Notes

Levels are in mg/kg dry weight

? = No data available

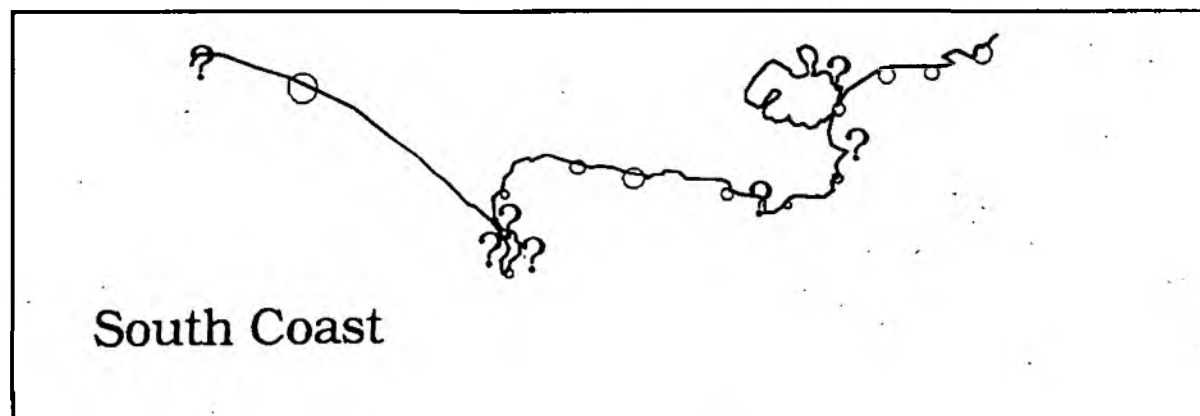
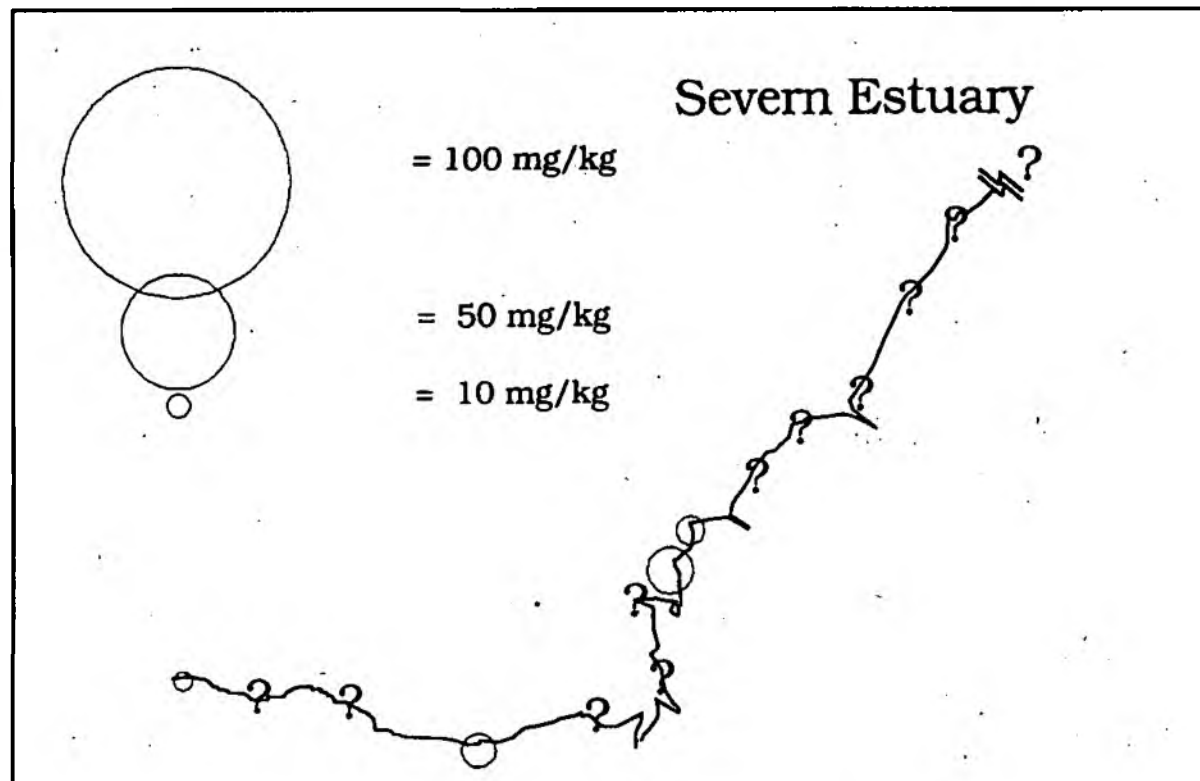
○ = Actual value

◻ = Less than limit of detection

|              |                                                                                                                            |
|--------------|----------------------------------------------------------------------------------------------------------------------------|
| Job Title:   | Coastwatch Bio-accumulation Programme                                                                                      |
| Prepared by: | S. J. White, Ecology Laboratory,<br>NRA Wessex Region, Rivers House,<br>Sunrise Business Park,<br>Blandford Forum, Dorset. |
| NRA          |                                                                                                                            |



# 1991 *Patella vulgata* Nickel



## Notes

Levels are in mg/kg dry weight

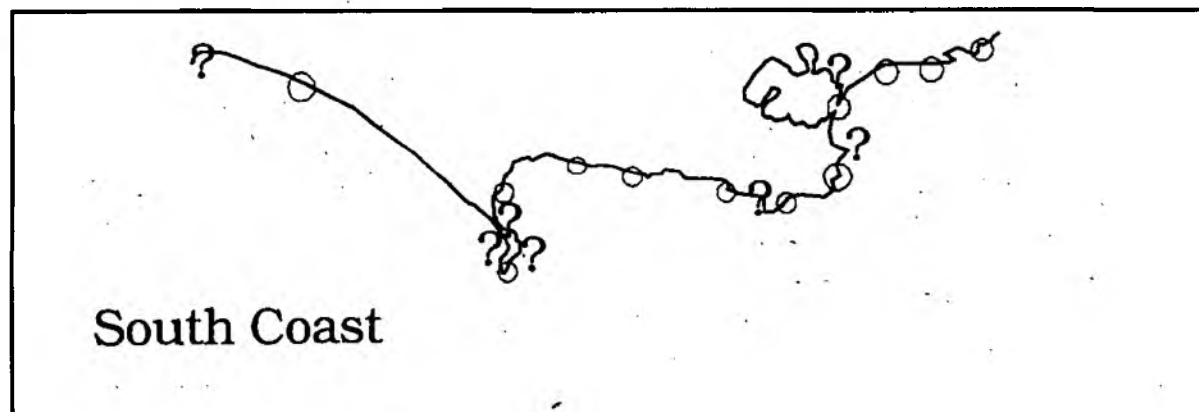
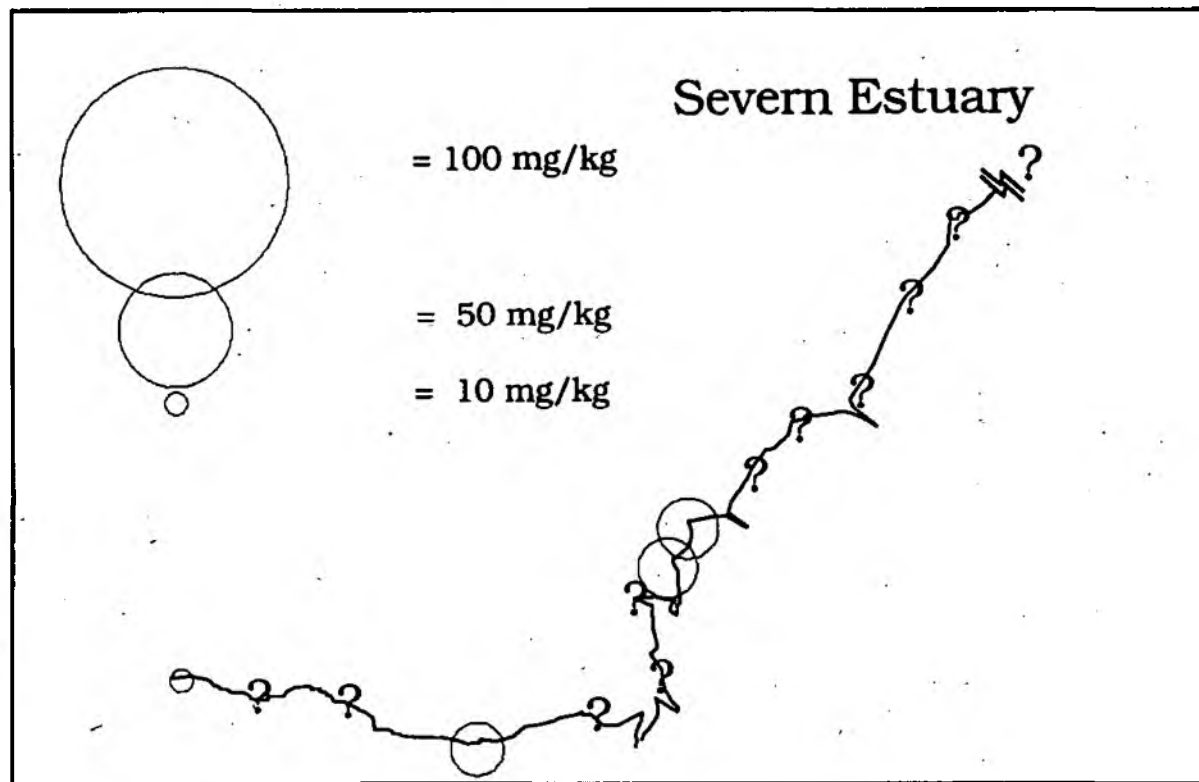
? = No data available

○ = Actual value

◻ = Less than limit of detection

|              |                                                                                                                           |
|--------------|---------------------------------------------------------------------------------------------------------------------------|
| Job Title:   | Coastwatch Bio-accumulation Programme                                                                                     |
| Prepared by: | S. J. White, Biology Laboratory,<br>NRA Wessex Region, Rivers House<br>Sunrise Business Park,<br>Blandford Forum, Dorset. |
| NRA          |                                                                                                                           |

# 1991 *Patella vulgata* Copper



## Notes

Levels are in mg/kg dry weight

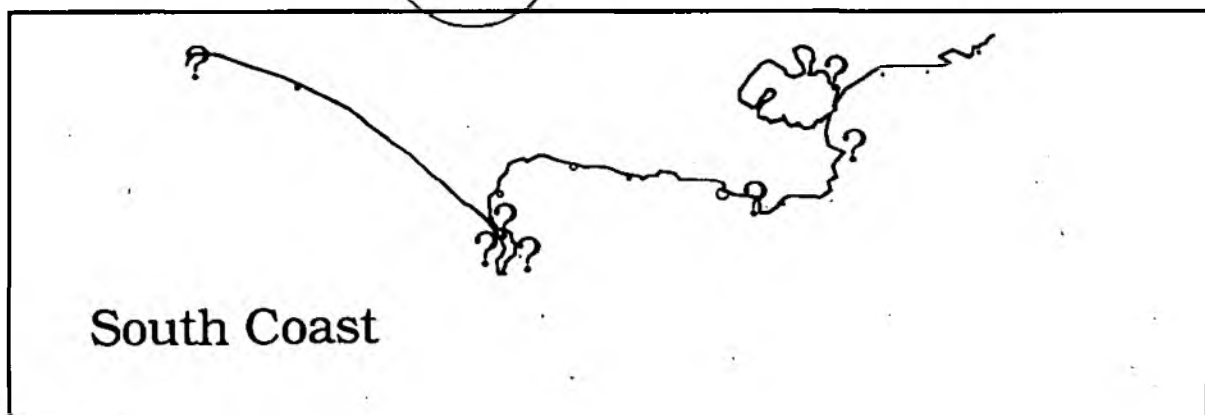
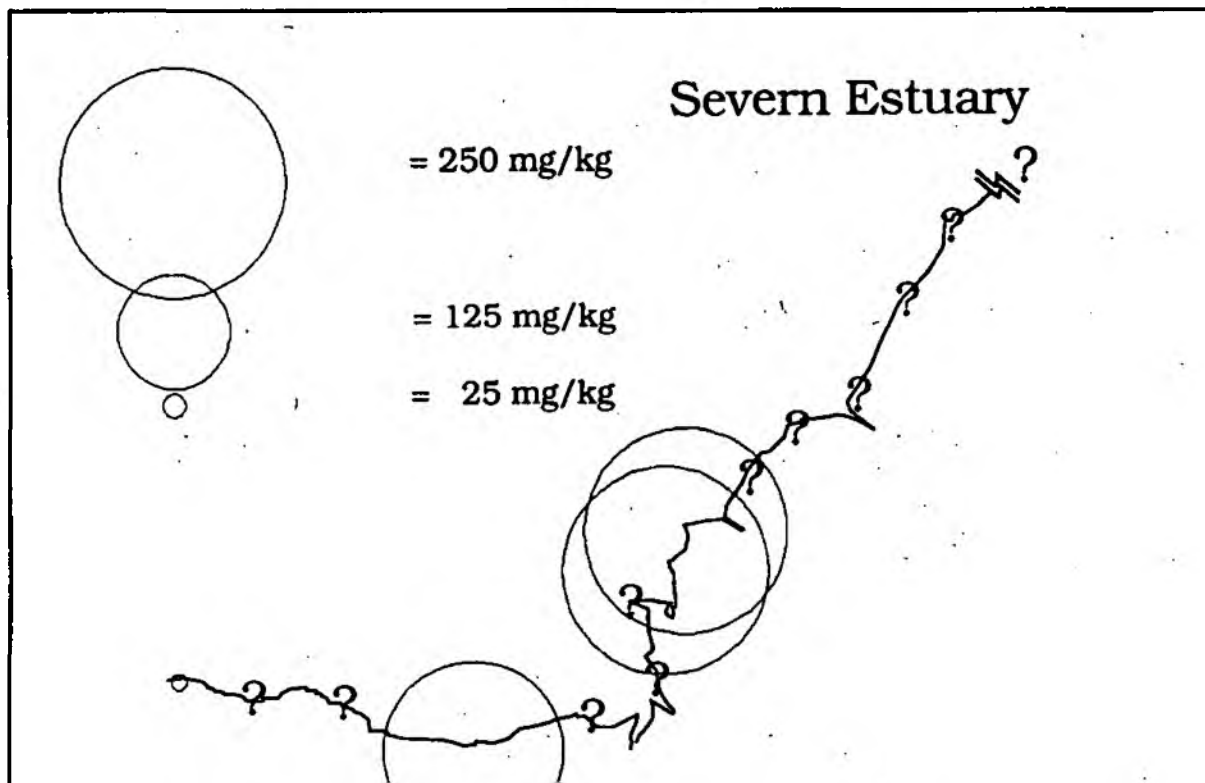
? = No data available

○ = Actual value

◻ = Less than limit of detection

|                                                                                       |                                                                                                                          |
|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Job Title:                                                                            | Coastwatch Bio-accumulation Programme                                                                                    |
| Prepared by:                                                                          | S. J. White, Biology Laboratory,<br>NRA Wessex Region, Rivers House<br>Sunrise Business Park,<br>Blandford Forum, Dorset |
|  |                                                                                                                          |

1991 *Patella vulgata* Cadmium



# Notes

Levels are in mg/kg dry weight

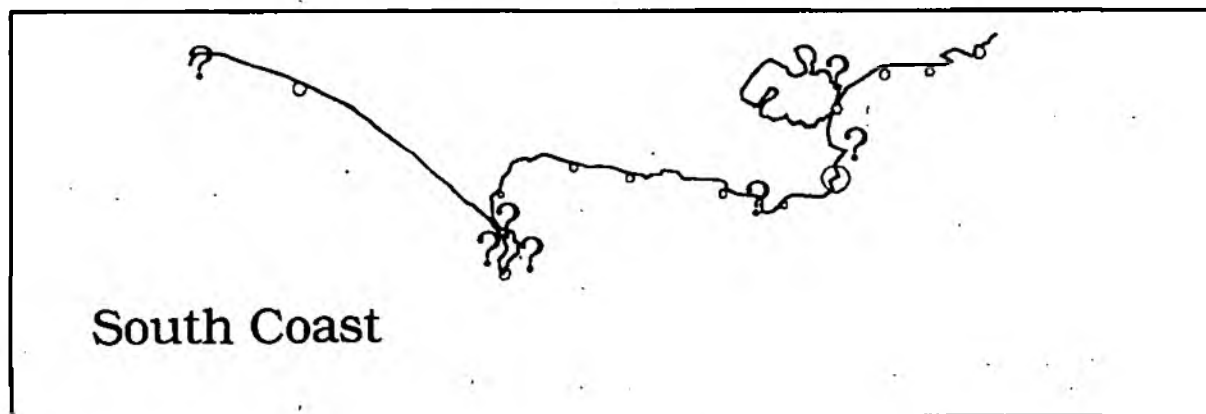
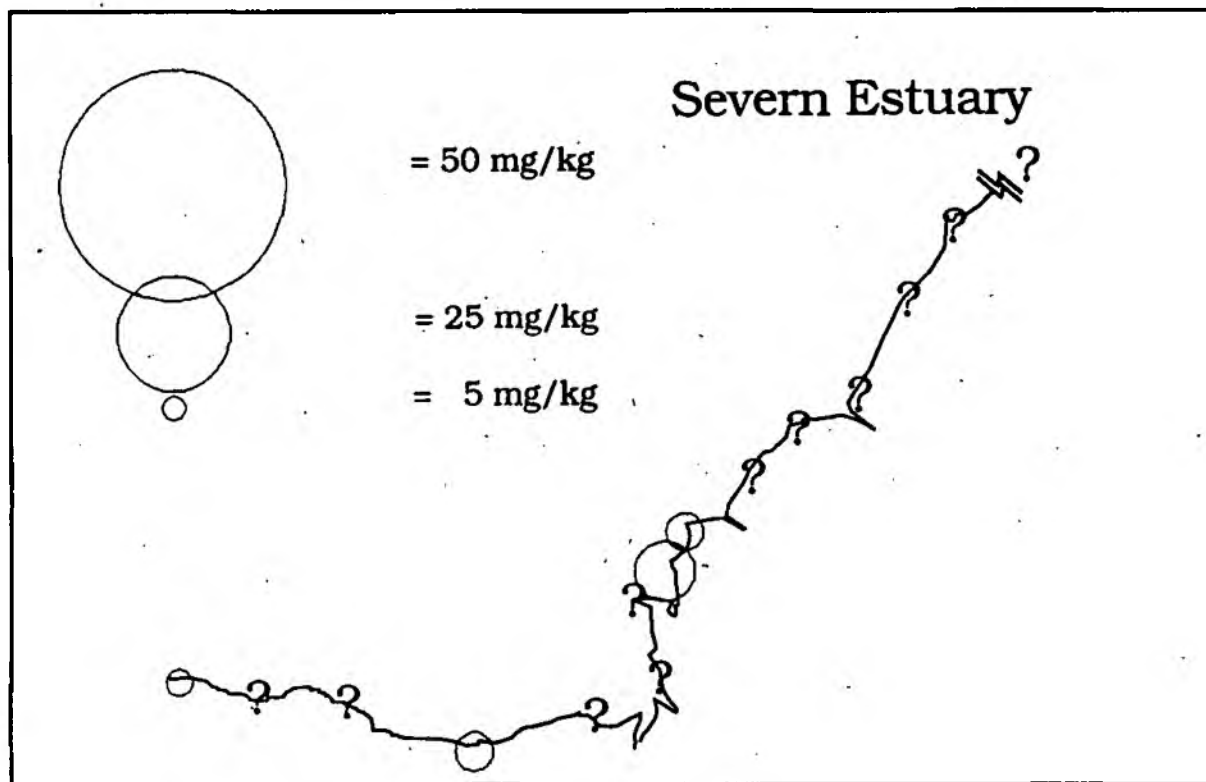
? = No data available

○ = Actual value

⬡ = Less than limit of detection

|              |                                                                                                                         |
|--------------|-------------------------------------------------------------------------------------------------------------------------|
| Job Title:   | Coastwatch Bio-accumulation Programme                                                                                   |
| Prepared by: | S. J. White, Biology Laboratory,<br>NRA Wessex Region, Rivers House,<br>Surrey Business Park,<br>Hamford Forum, Dorset. |

# 1991 *Patella vulgata* Lead



# Notes

Levels are in mg/kg dry weight

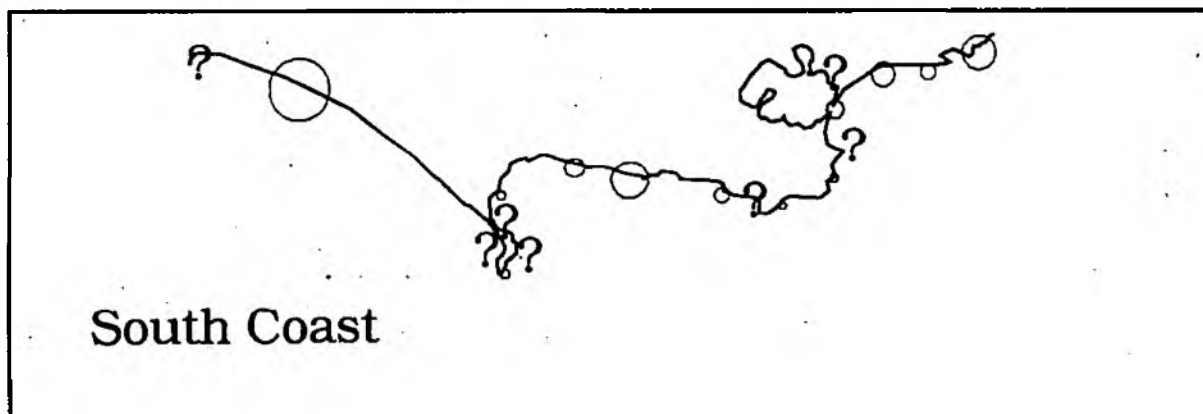
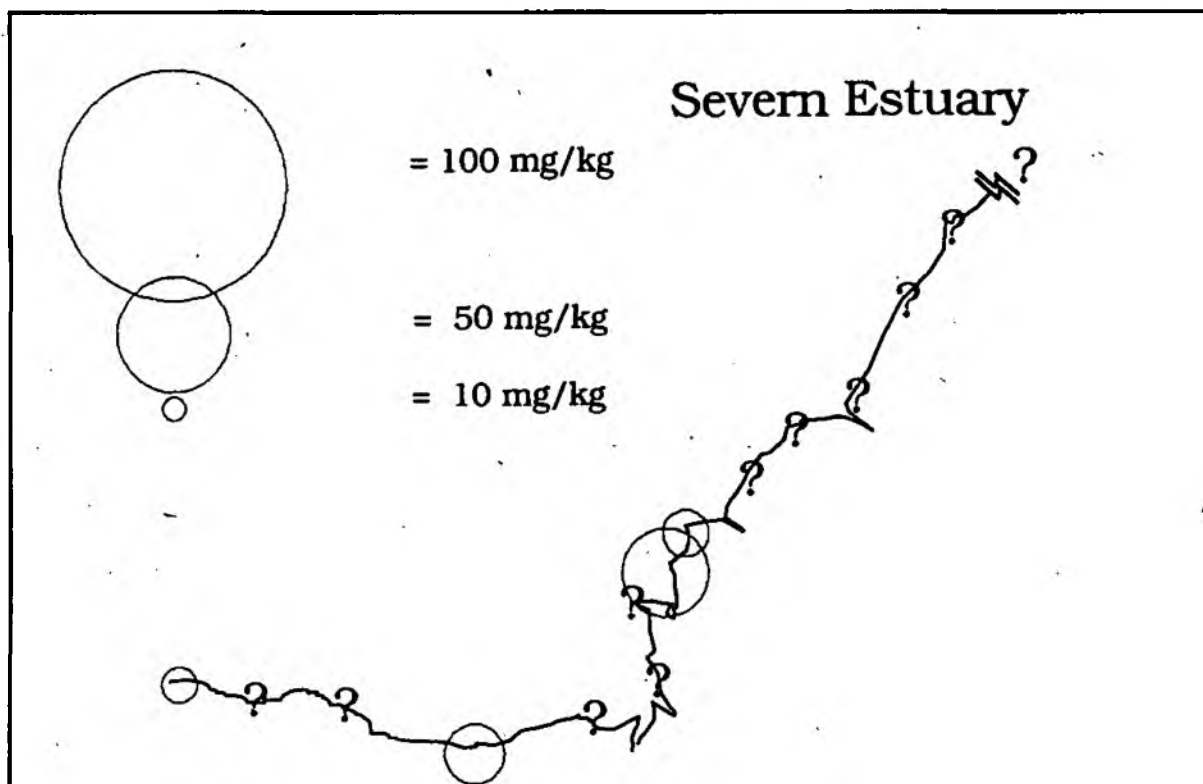
? = No data available

○ = Actual value

⬡ = Less than limit of detection

|                 |                                                                                                                           |
|-----------------|---------------------------------------------------------------------------------------------------------------------------|
| Job Title:      | Coastwatch Bio-accumulation<br>Programme                                                                                  |
| Prepared<br>by: | S. J. White, Biology Laboratory,<br>NRA Wessex Region, Rivers House<br>Sunrise Business Park,<br>Blandford Forum, Dorset. |

1991 *Patella vulgata* Chromium



# Notes

Levels are in mg/kg dry weight

? = No data available

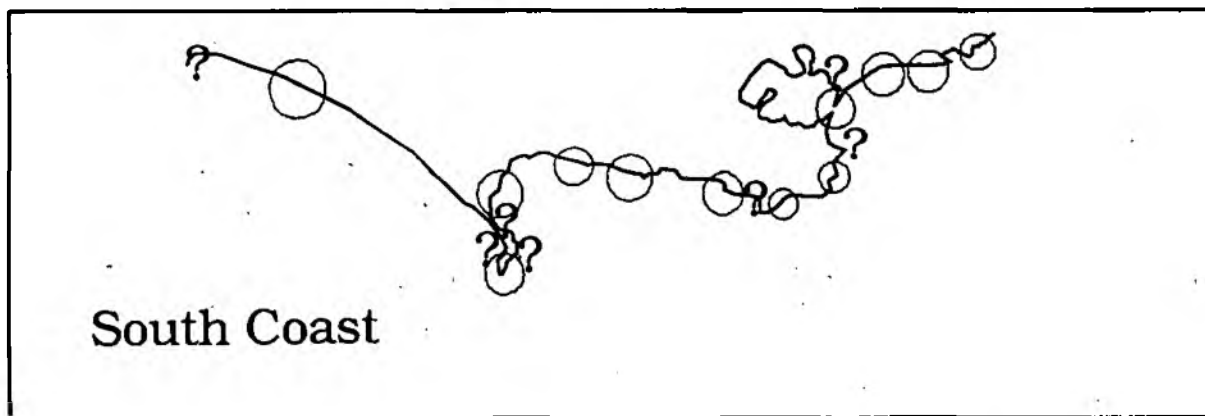
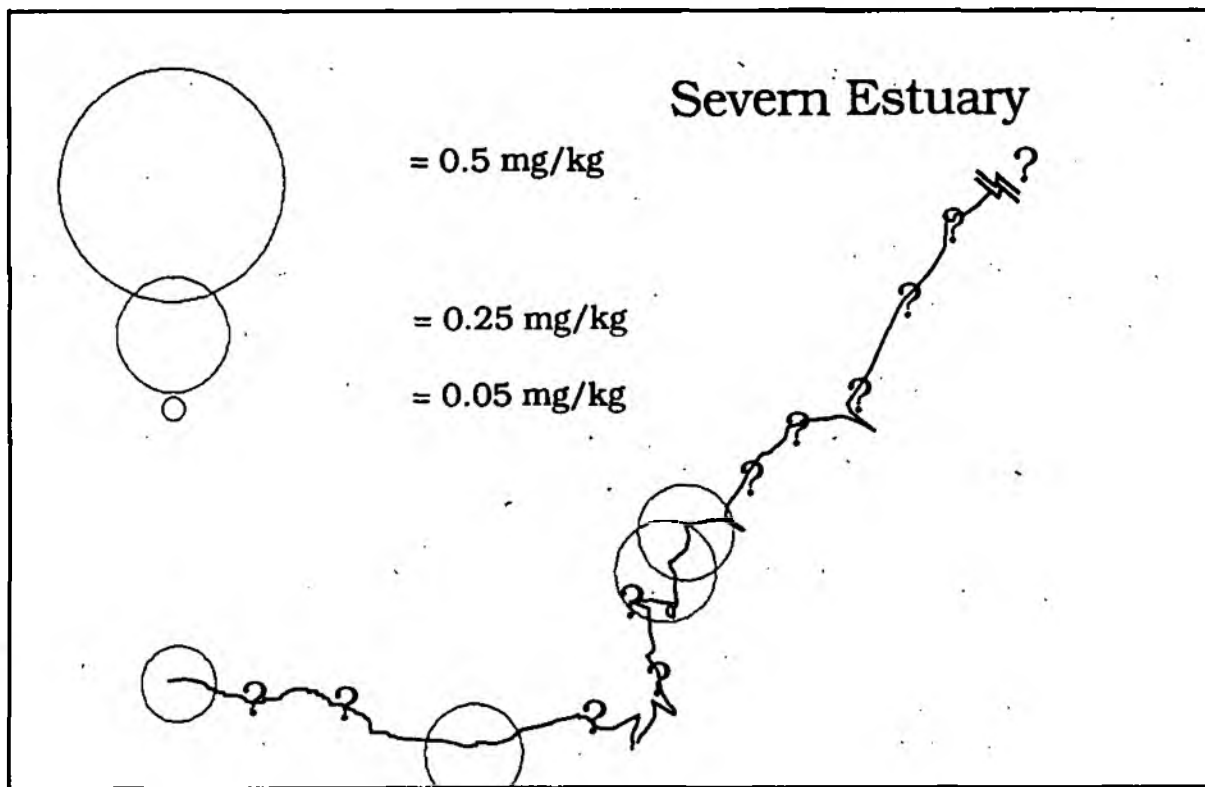
○ = Actual value

⬡ = Less than limit of detection

|                                                                                                      |                                                                                                                           |
|------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Job Title:                                                                                           | Coastwatch Bio-accumulation Programme                                                                                     |
| Prepared by :<br> | S. J. White, Biology Laboratory,<br>NRA Wessex Region, Rivers House<br>Sunrise Business Park,<br>Blandford Forum, Dorset. |



1991 *Patella vulgata* Mercury



# Notes

Levels are in mg/kg dry weight

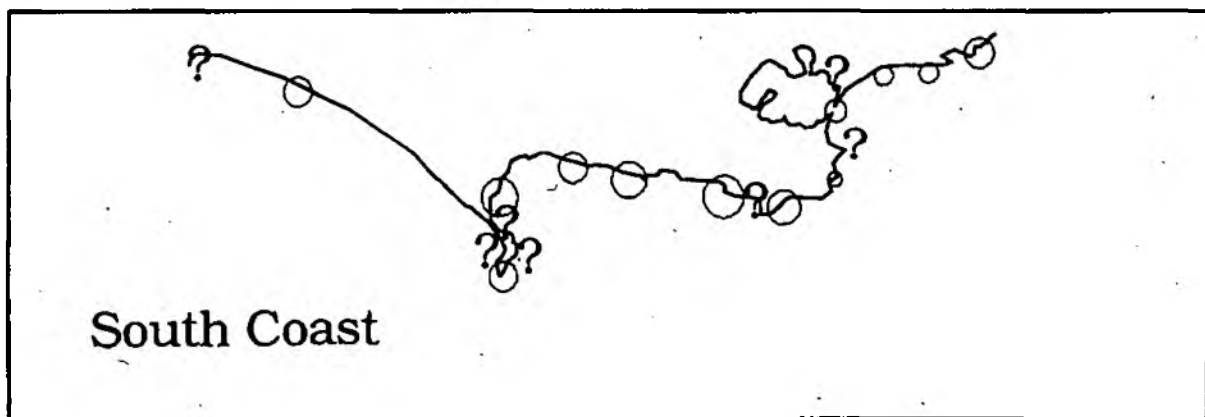
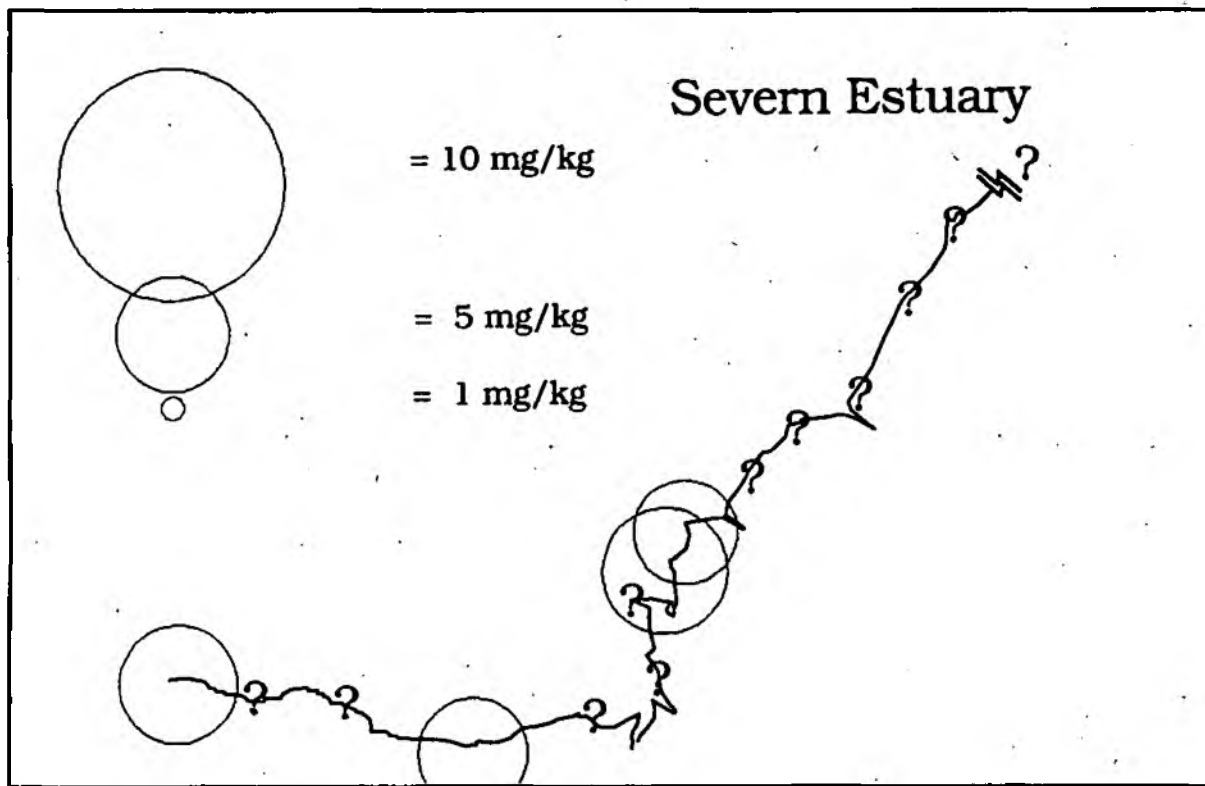
? = No data available

○ = Actual value

⬡ = Less than limit of detection

|              |                                                                                                                           |
|--------------|---------------------------------------------------------------------------------------------------------------------------|
| Job Title:   | Coastwatch Bio-accumulation Programme                                                                                     |
| Prepared by: | S. J. White, Biology Laboratory,<br>NRA Wessex Region, Rivers House,<br>Sunrise Business Park,<br>Blanford Forum, Dorset. |

1991 *Patella vulgata* Silver



# Notes

Levels are in mg/kg dry weight

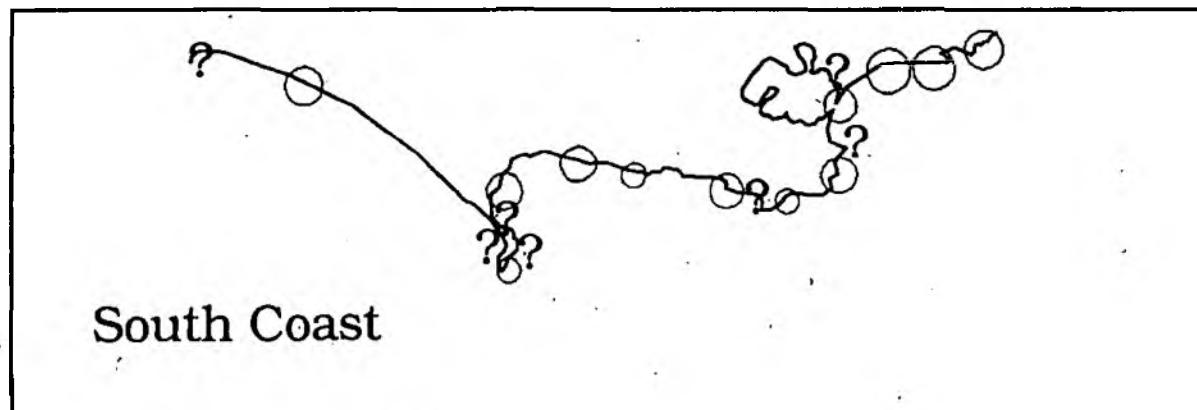
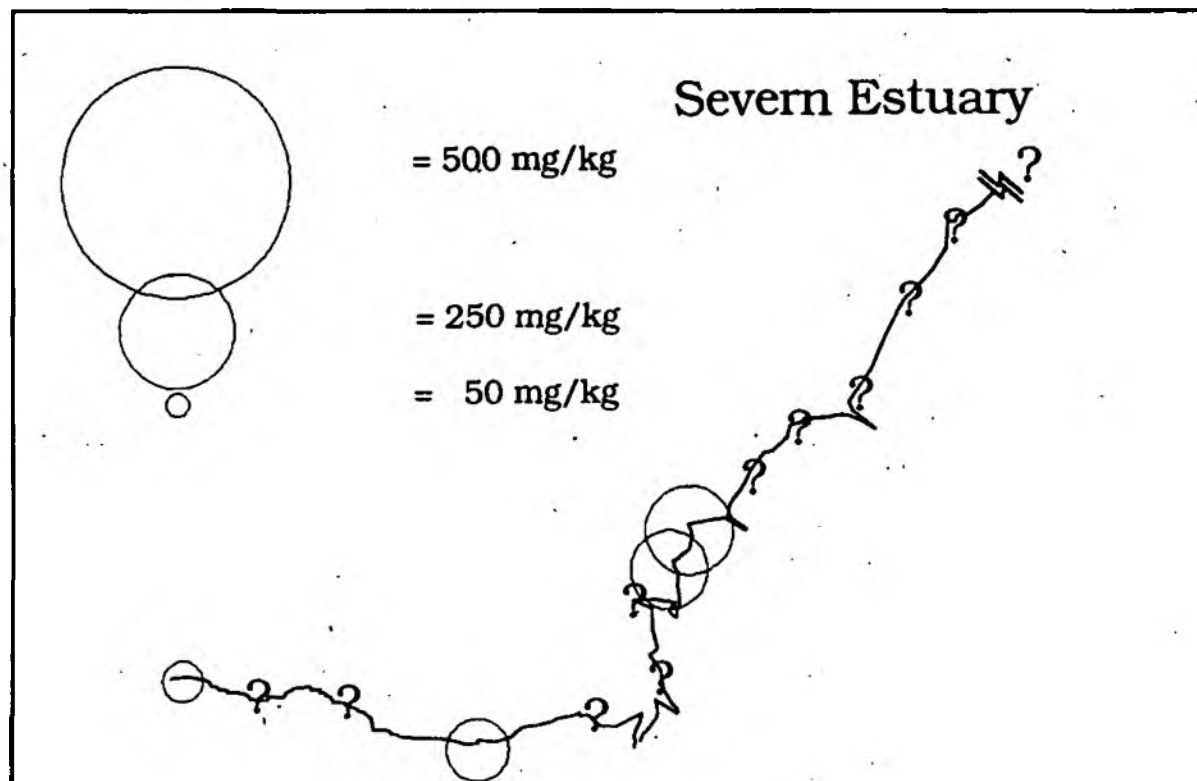
? = No data available

○ = Actual value

⬡ = Less than limit of detection

|                 |                                                                                                                            |
|-----------------|----------------------------------------------------------------------------------------------------------------------------|
| Job Title:      | Coastwatch Bio-accumulation<br>Programme                                                                                   |
| Prepared<br>by: | S. J. White, Biology Laboratory,<br>NRA Wessex Region, Powers House,<br>Sunrise Business Park,<br>Blandford Forum, Dorset. |

# 1991 *Patella vulgata* Zinc



## Notes

Levels are in mg/kg dry weight

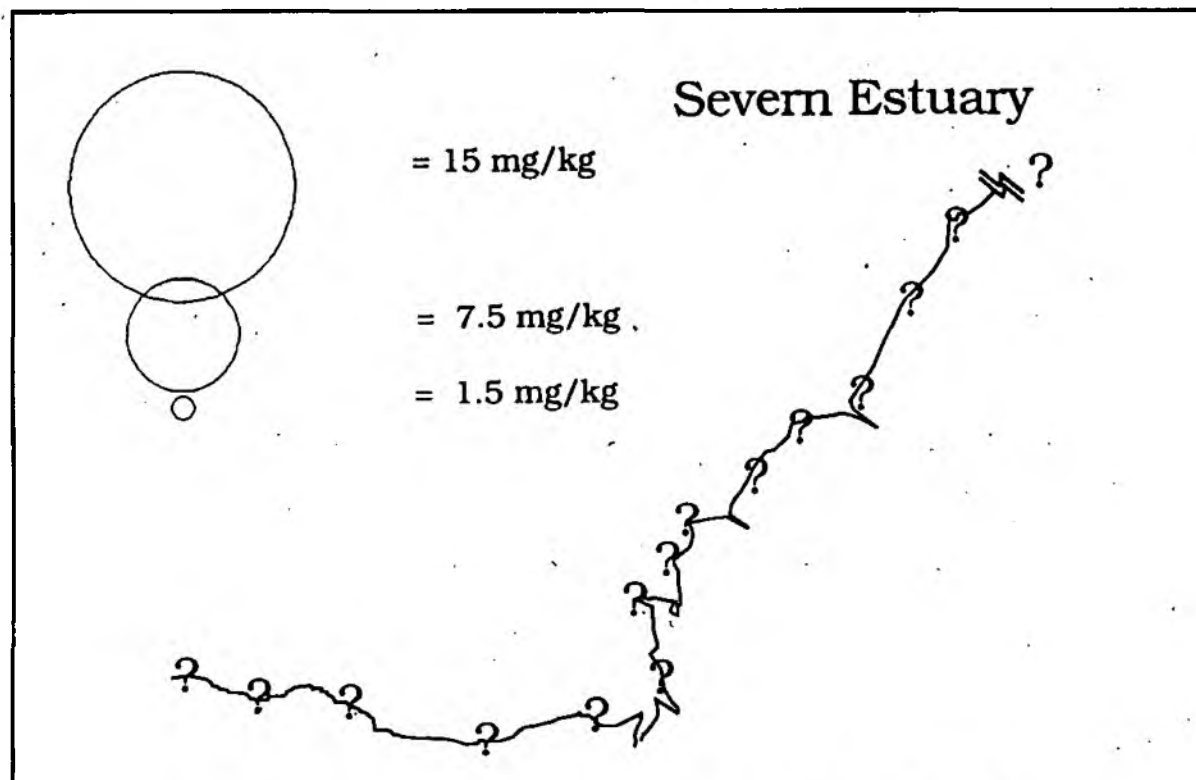
? = No data available

○ = Actual value

◻ = Less than limit of detection

|                                                                                       |                                                                                                                            |
|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Job Title:                                                                            | Coastwatch Bio-accumulation Programme                                                                                      |
| Prepared by:                                                                          | S. J. White, Biology Laboratory,<br>NRA Wessex Region, Rivers House,<br>Sunrise Business Park,<br>Blandford Forum, Dorset. |
|  |                                                                                                                            |

# 1991 *Mytilus edulis* Arsenic



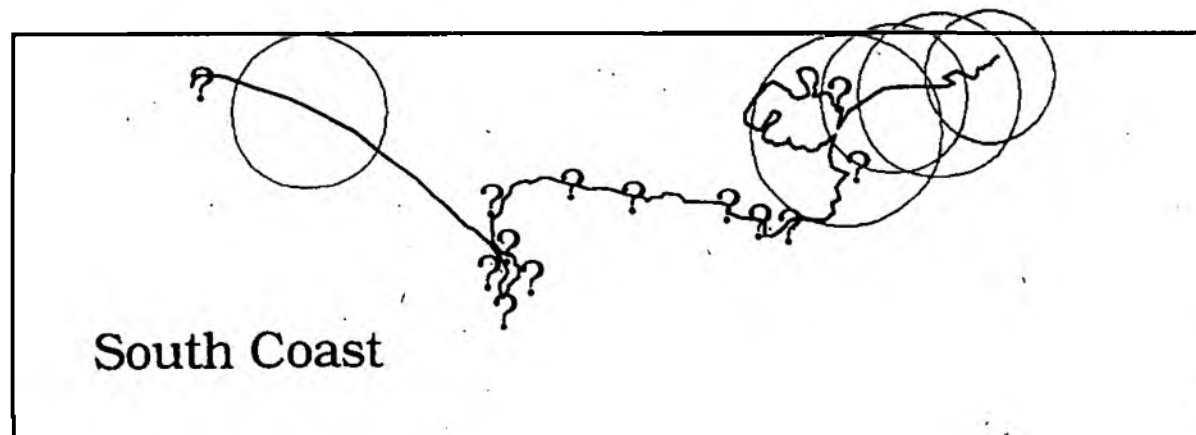
## Notes

Levels are in mg/kg dry weight

? = No data available

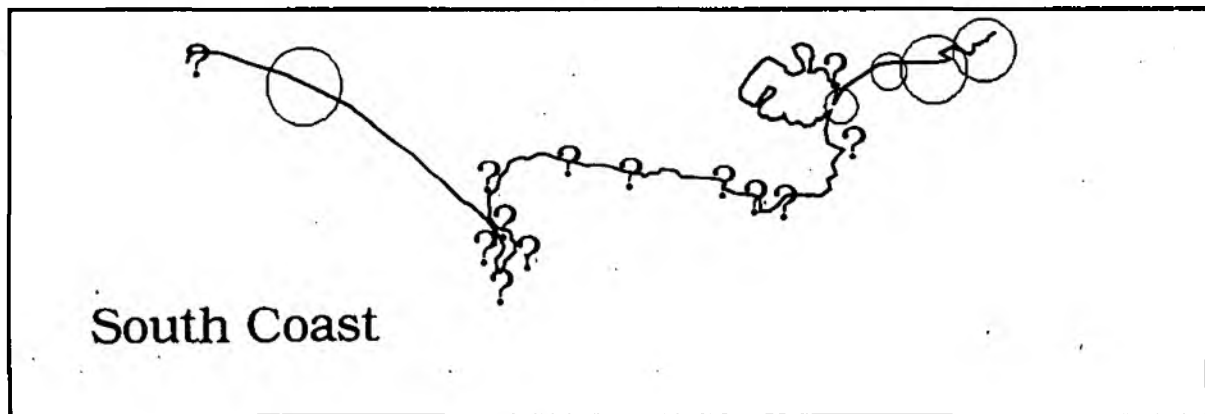
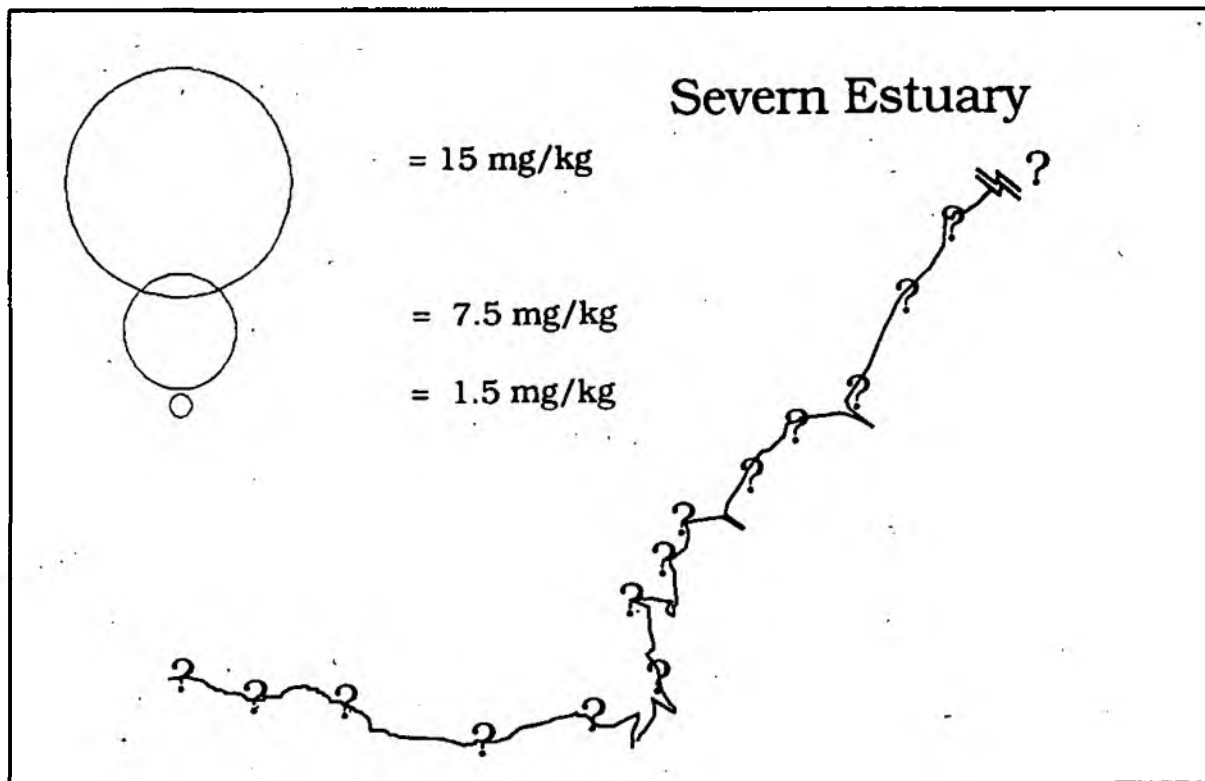
○ = Actual value

⬡ = Less than limit of detection



|              |                                                                                                                           |
|--------------|---------------------------------------------------------------------------------------------------------------------------|
| Job Title:   | Coastwatch Bio-accumulation Programme                                                                                     |
| Prepared by: | S. J. White, Biology Laboratory,<br>NRA Wessex Region, Rivers House<br>Sunrise Business Park,<br>Blandford Forum, Dorset. |
| NRA          |                                                                                                                           |

1991 *Mytilus edulis* Nickel



# Notes

Levels are in mg/kg dry weight

? = No data available

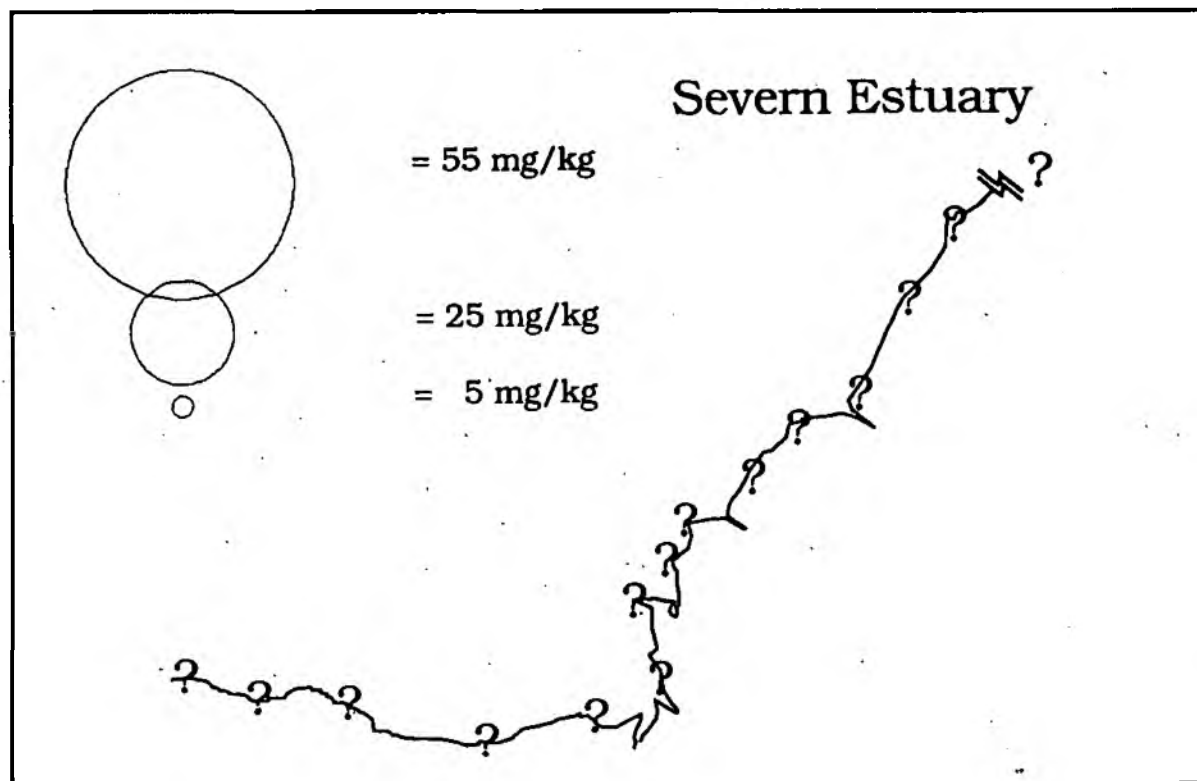
○ = Actual value

⬡ = Less than limit of detection

|              |                                                                                                                          |
|--------------|--------------------------------------------------------------------------------------------------------------------------|
| Job Title:   | Coastwatch Bio-accumulation Programme                                                                                    |
| Prepared by: | S. J. White, Biology Laboratory,<br>NRA Wessex Region, Rivers House<br>Summit Business Park,<br>Blandford Forum, Dorset. |



# 1991 *Mytilus edulis* Copper



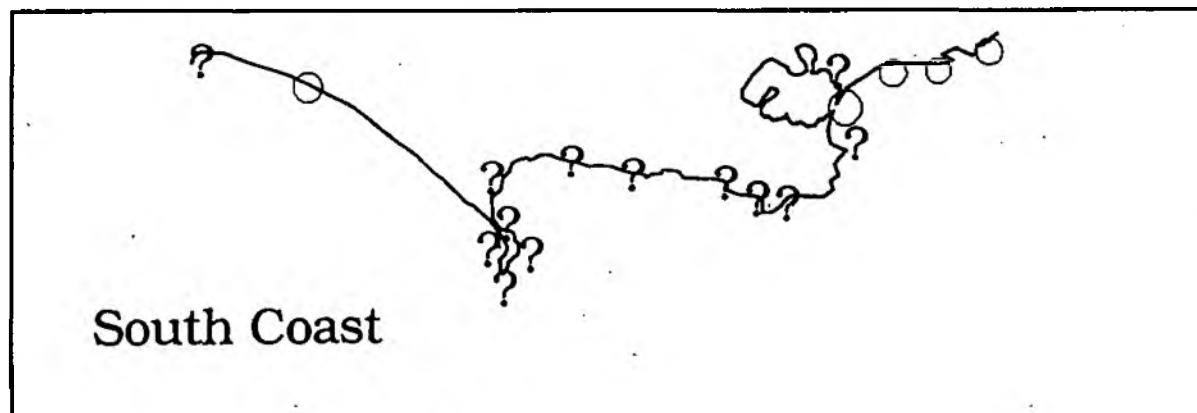
## Notes

Levels are in mg/kg dry weight

? = No data available

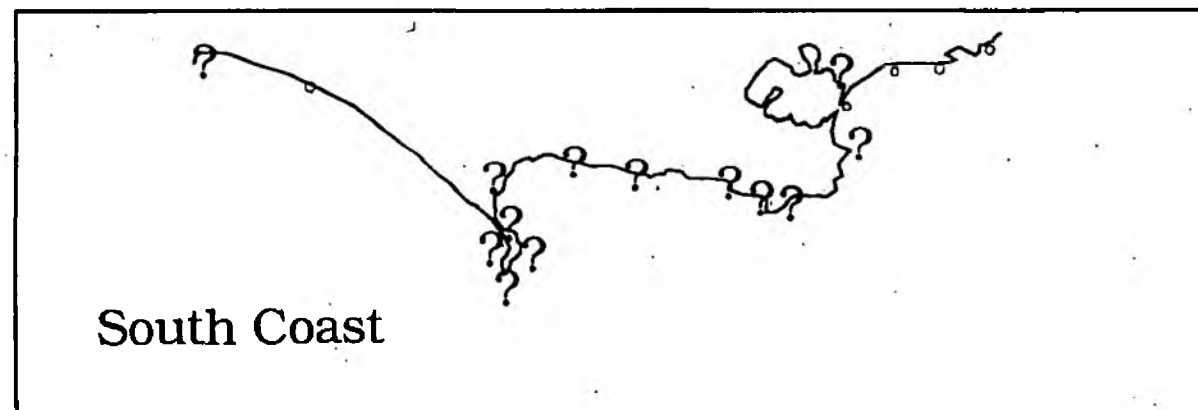
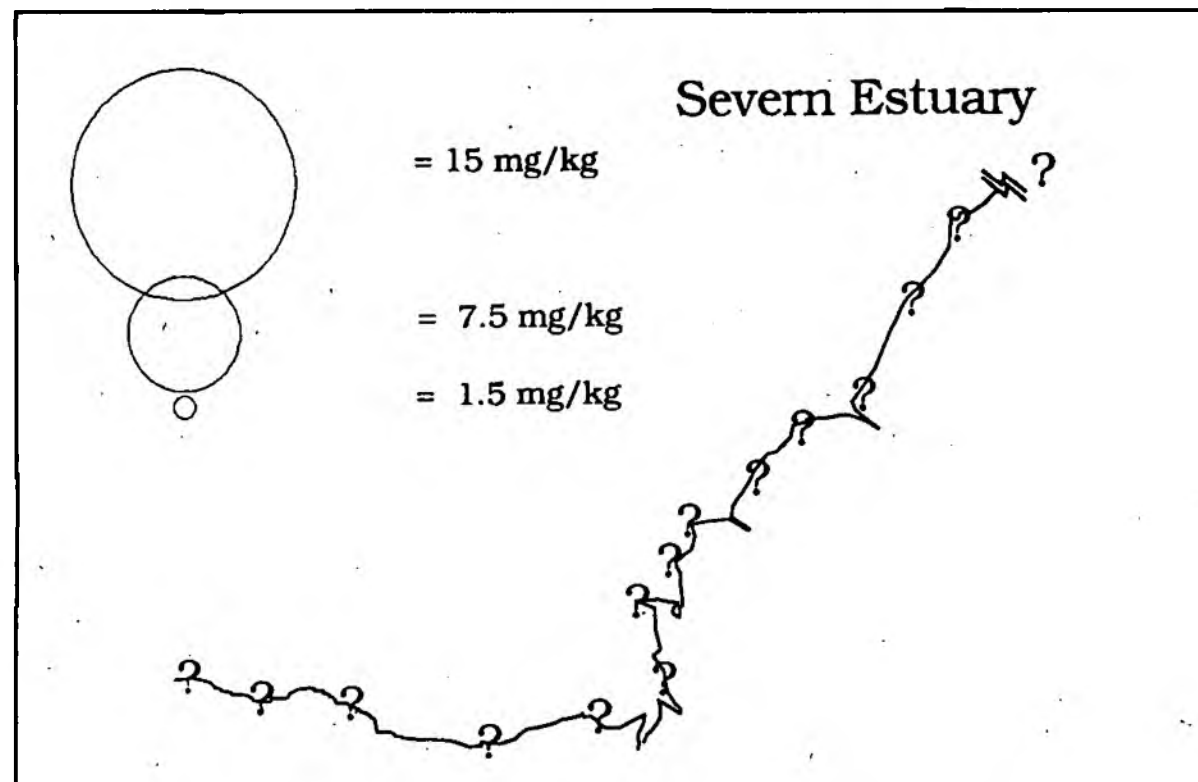
○ = Actual value

⬡ = Less than limit of detection



|                                                                                       |                                                                                                                            |
|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Job Title:                                                                            | Coastwatch Bio-accumulation Programme                                                                                      |
| Prepared by:                                                                          | S. J. White, Biology Laboratory,<br>NRA Wessex Region, Rivers House,<br>Sunrise Business Park,<br>Blandford Forum, Dorset. |
|  |                                                                                                                            |

# 1991 *Mytilus edulis* Cadmium



## Notes

Levels are in mg/kg dry weight

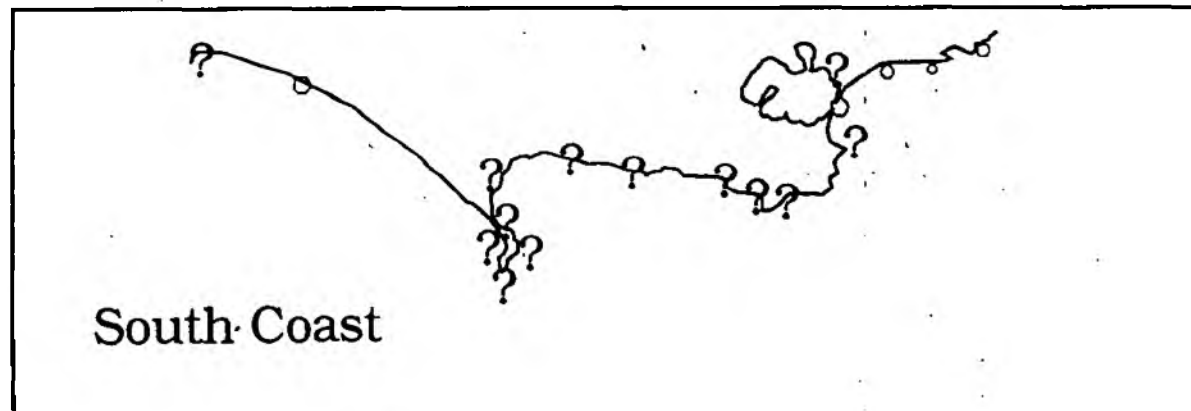
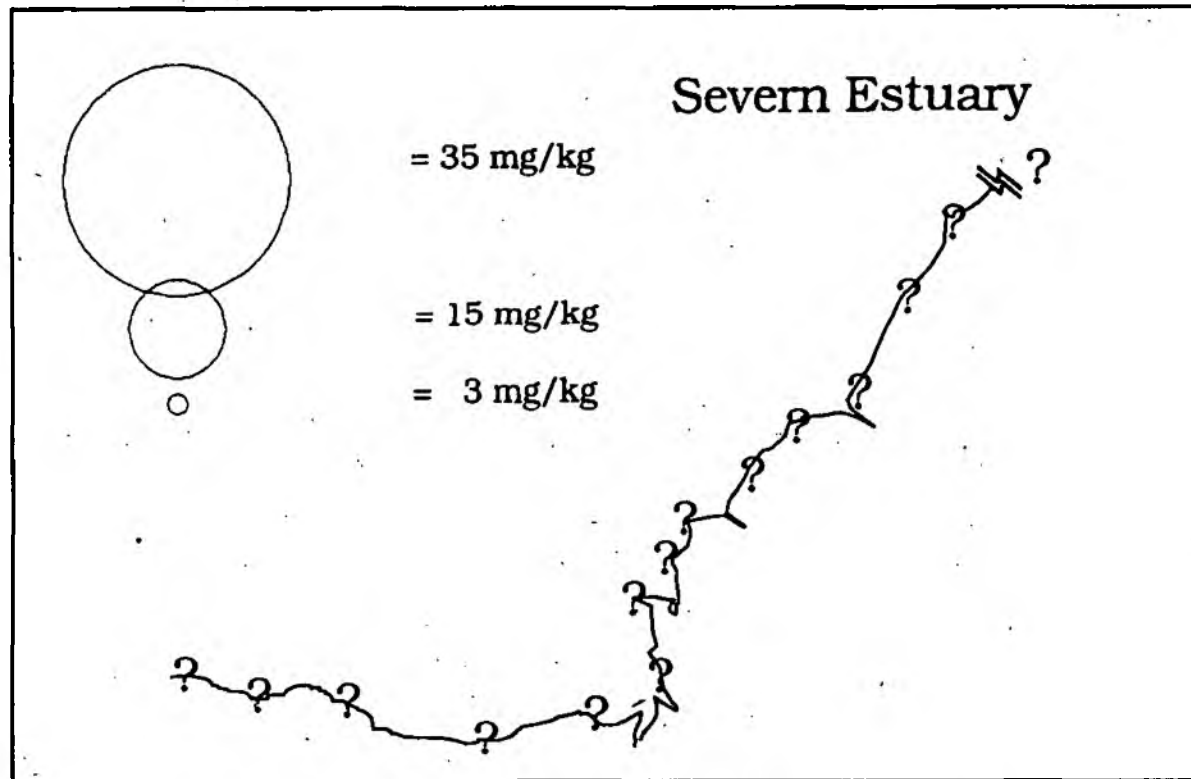
? = No data available

○ = Actual value

◻ = Less than limit of detection

|              |                                                                                                                            |
|--------------|----------------------------------------------------------------------------------------------------------------------------|
| Job Title:   | Coastwatch Bio-accumulation Programme                                                                                      |
| Prepared by: | S. J. White, Biology Laboratory,<br>NRA Wessex Region, Rivers House,<br>Sunrise Business Park,<br>Blandford Forum, Dorset. |
| NRA          |                                                                                                                            |

# 1991 *Mytilus edulis* Lead



## Notes

Levels are in mg/kg dry weight

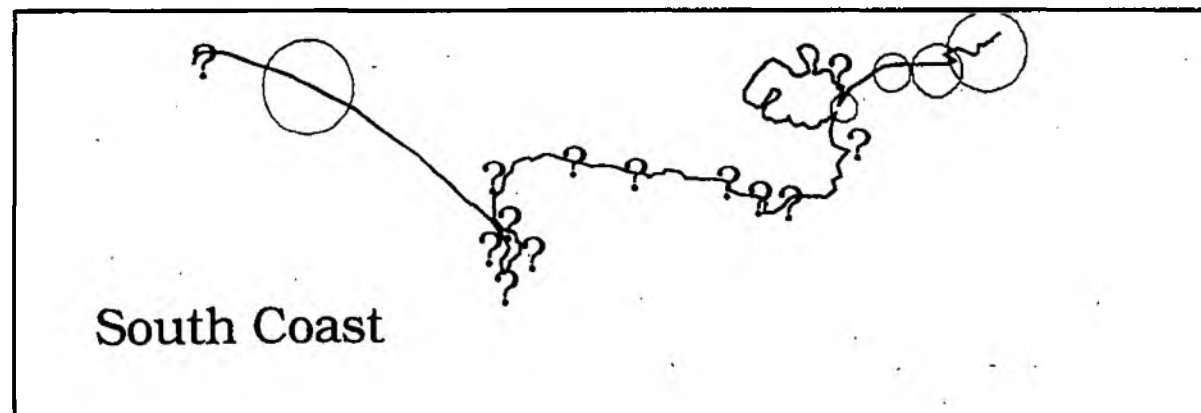
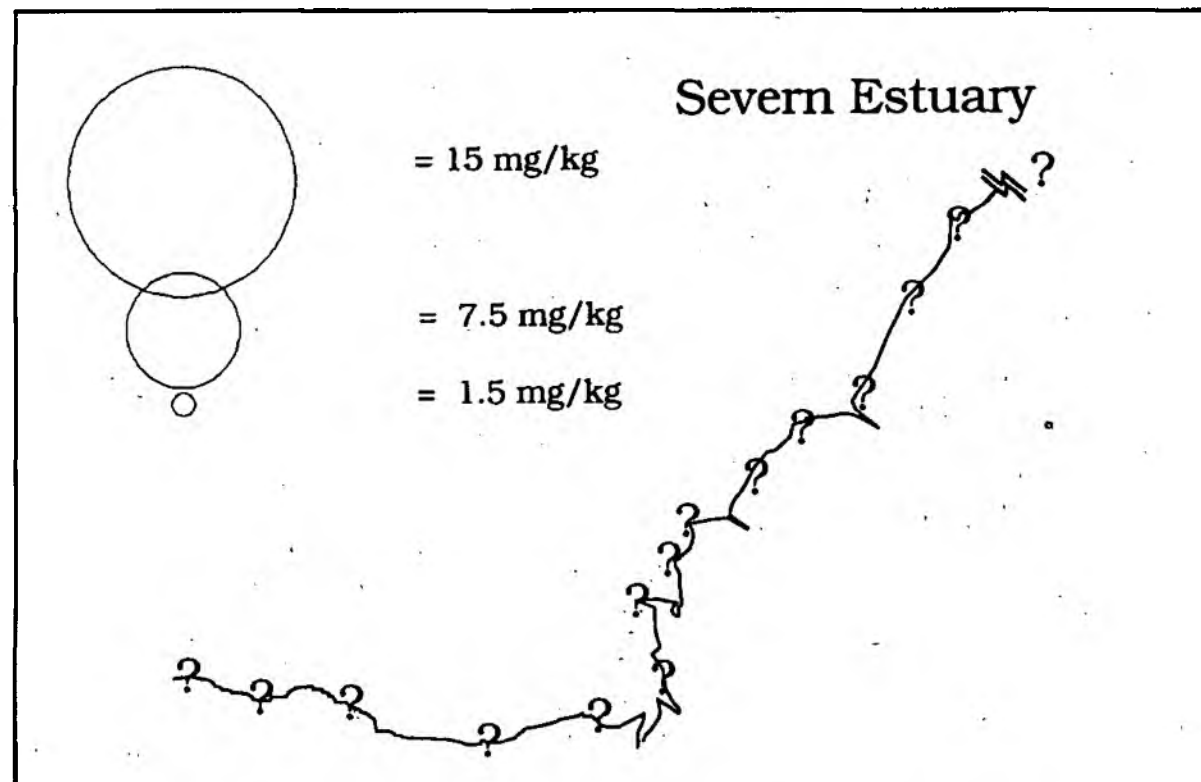
? = No data available

○ = Actual value

◻ = Less than limit of detection

|                                                                                       |                                                                                                                            |
|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Job Title:                                                                            | Coastwatch Bio-accumulation Programme                                                                                      |
| Prepared by:                                                                          | S. J. White, Biology Laboratory,<br>NRA Wessex Region, Rivers House,<br>Sunrise Business Park,<br>Blandford Forum, Dorset. |
|  |                                                                                                                            |

# 1991 *Mytilus edulis* Chromium



## Notes

Levels are in mg/kg dry weight

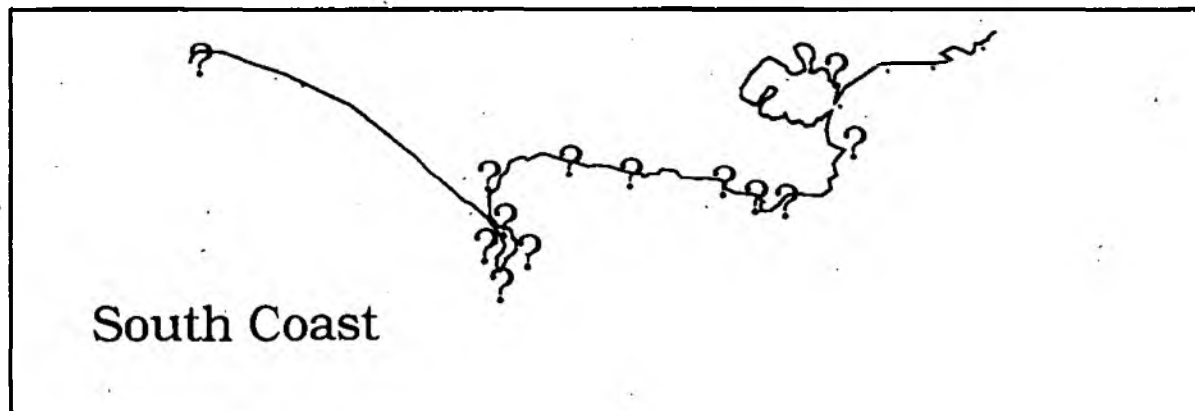
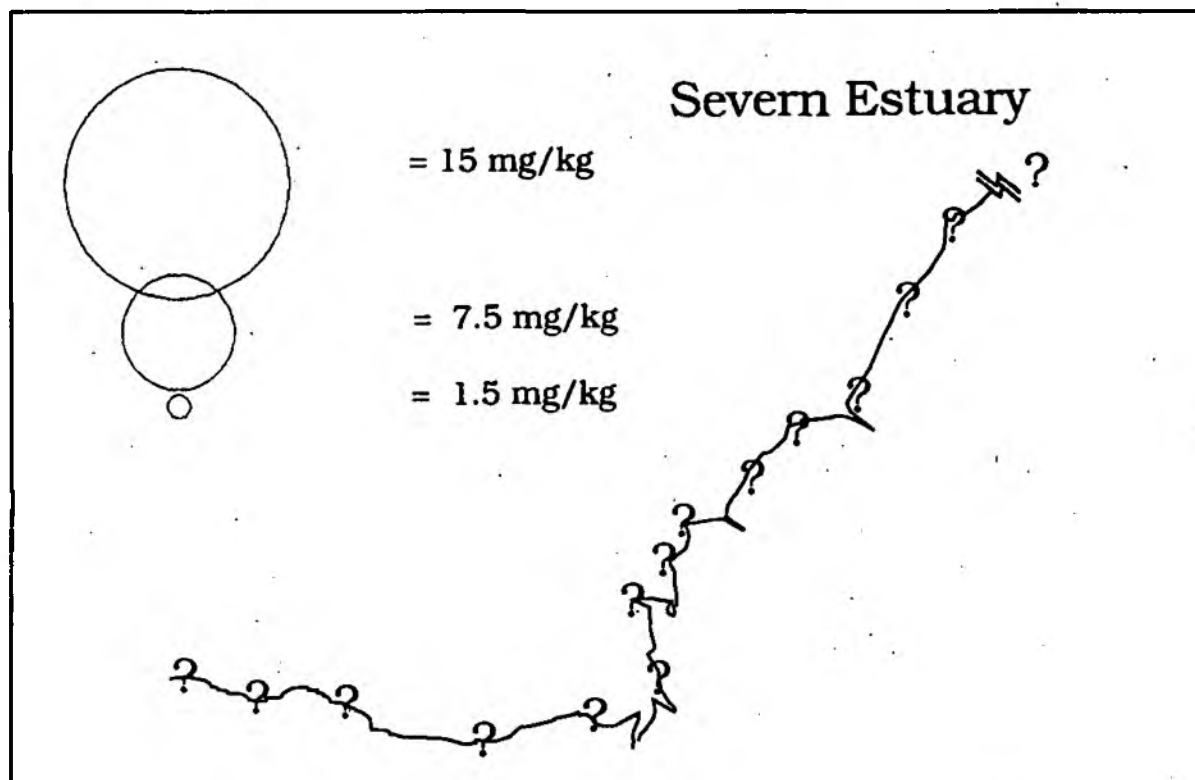
? = No data available

○ = Actual value

◻ = Less than limit of detection

|                                                                                       |                                                                                                                           |
|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Job Title:                                                                            | Coastwatch Bio-accumulation Programme                                                                                     |
| Prepared by:                                                                          | S. J. White, Biology Laboratory,<br>NRA Wessex Region, Rivers House,<br>Surrey Business Park,<br>Blandford Forum, Dorset. |
|  |                                                                                                                           |

# 1991 *Mytilus edulis* Mercury



## Notes

Levels are in mg/kg dry weight

? = No data available

○ = Actual value

◻ = Less than limit of detection

|              |                                                                                                                             |
|--------------|-----------------------------------------------------------------------------------------------------------------------------|
| Job Title:   | Crestwatch Bio-accumulation Programme                                                                                       |
| Prepared by: | S. J. Whittle, Biology Laboratory,<br>NRA Wessex Region, Rivers House<br>Sunrise Business Park,<br>Blandford Forum, Dorset. |
| NRA          |                                                                                                                             |

# 1991 *Mytilus edulis* Silver

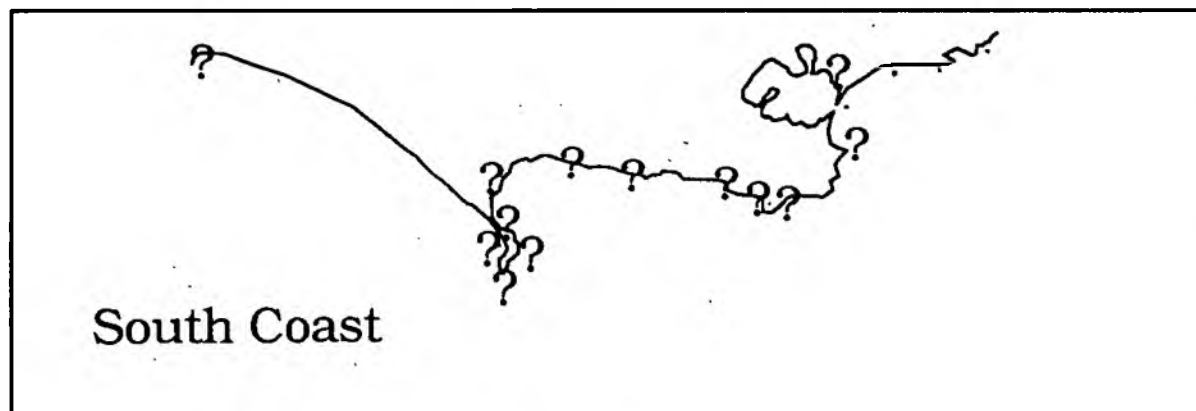
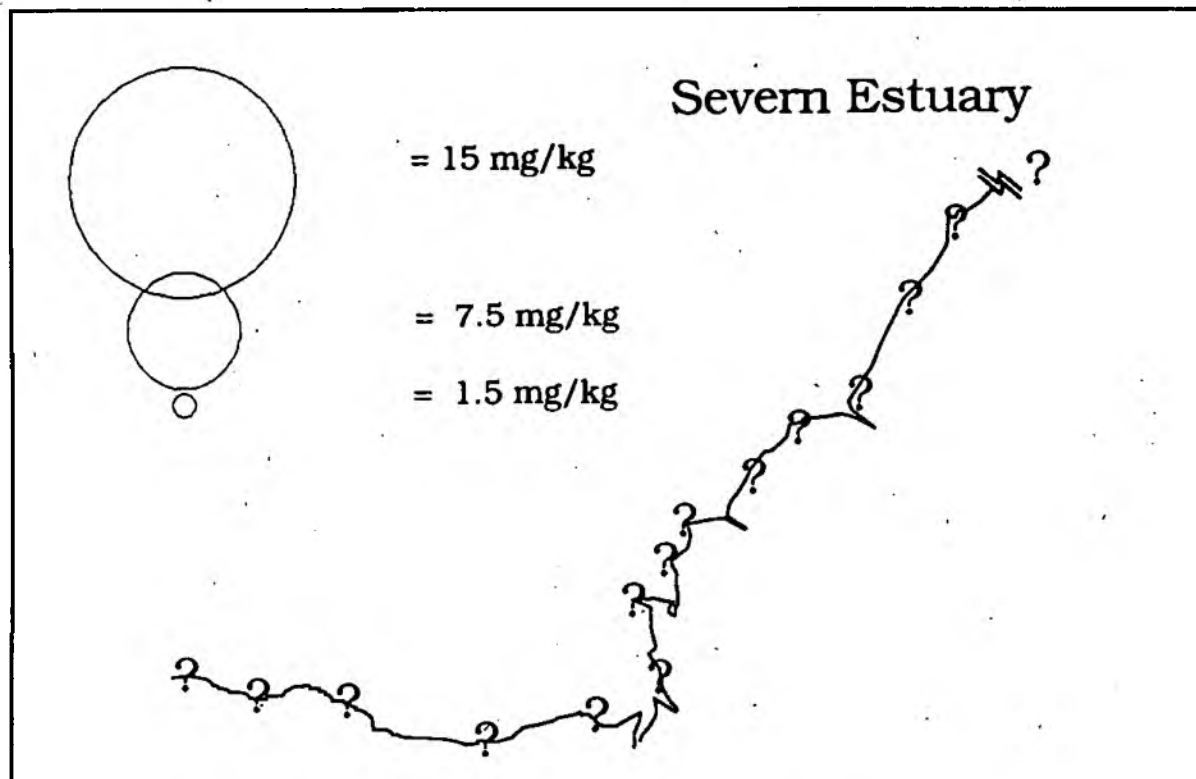
## Notes

Levels are in mg/kg dry weight

? = No data available

○ = Actual value

⬡ = Less than limit of detection



|                                                                                       |                                                                                                                            |
|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Job Title:                                                                            | Coastwatch Bio-accumulation Programme                                                                                      |
| Prepared by:                                                                          | S. J. White, Biology Laboratory,<br>NRA Wessex Region, Rivers House,<br>Sunrise Business Park,<br>Blandford Forum, Dorset. |
|  |                                                                                                                            |

# 1991 *Mytilus edulis* Zinc

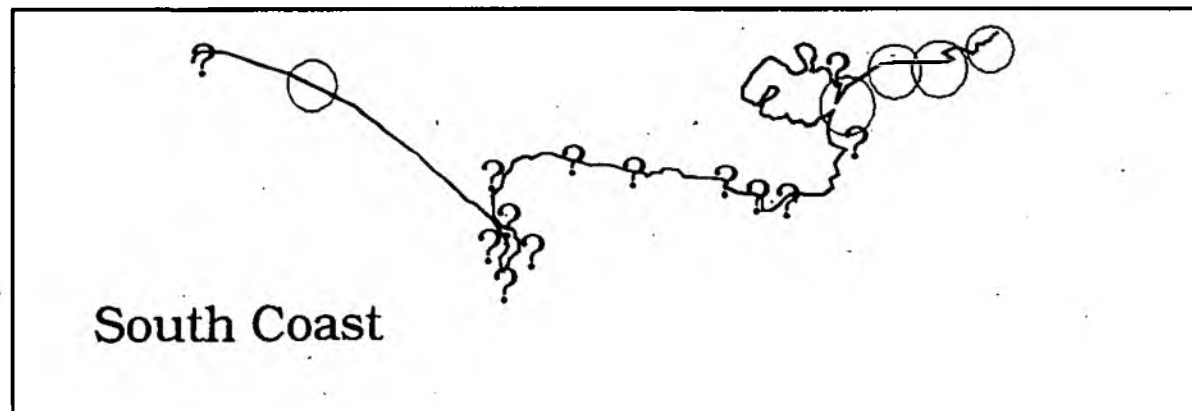
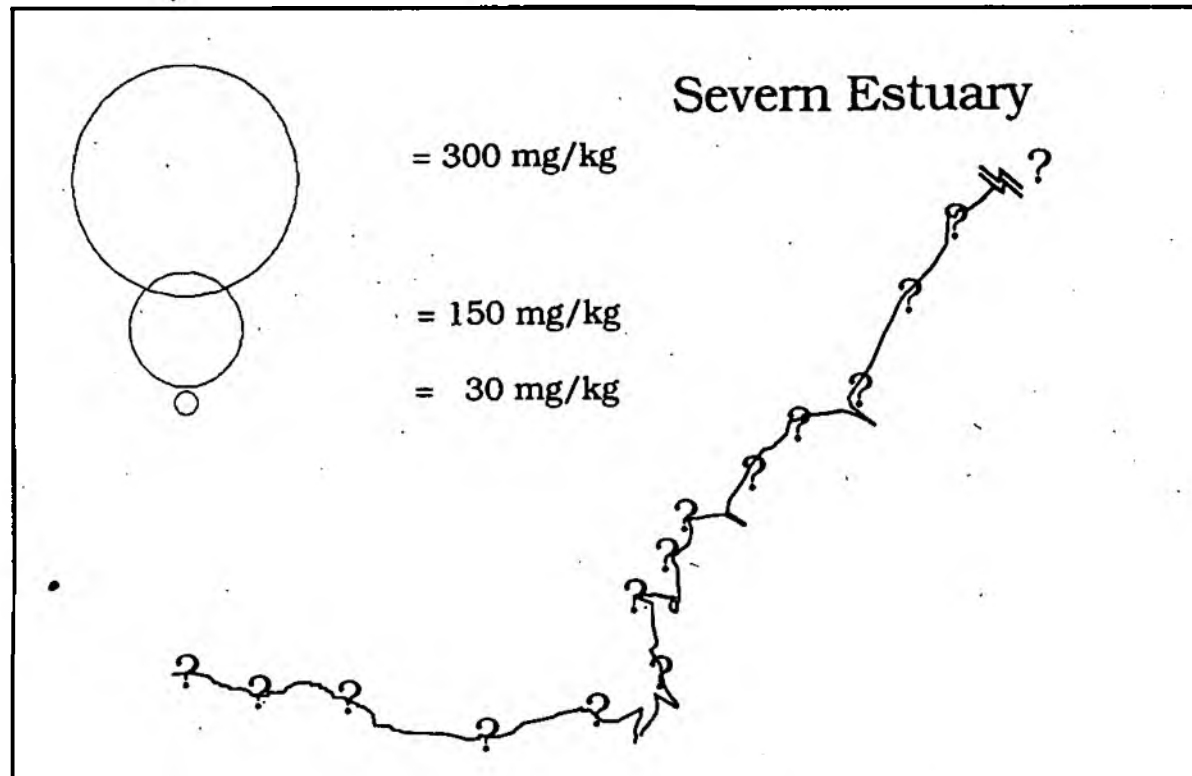
## Notes

Levels are in mg/kg dry weight

? = No data available

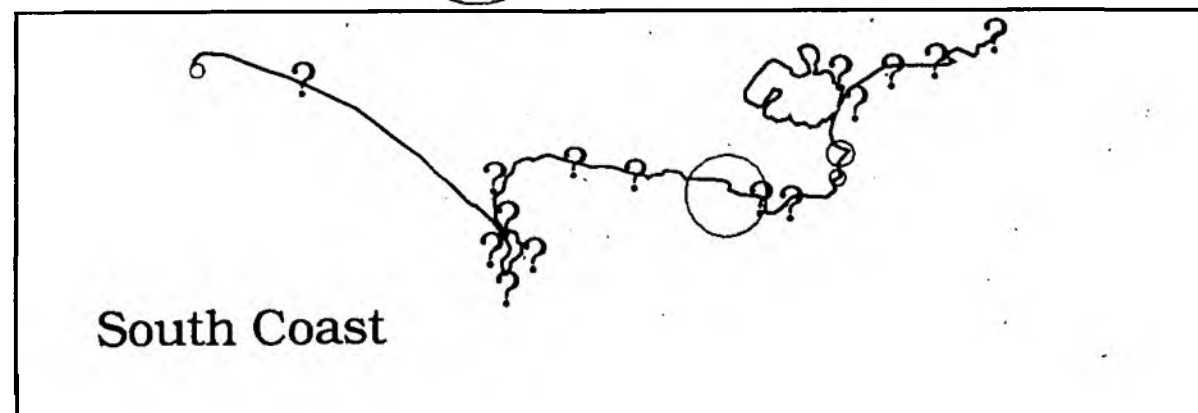
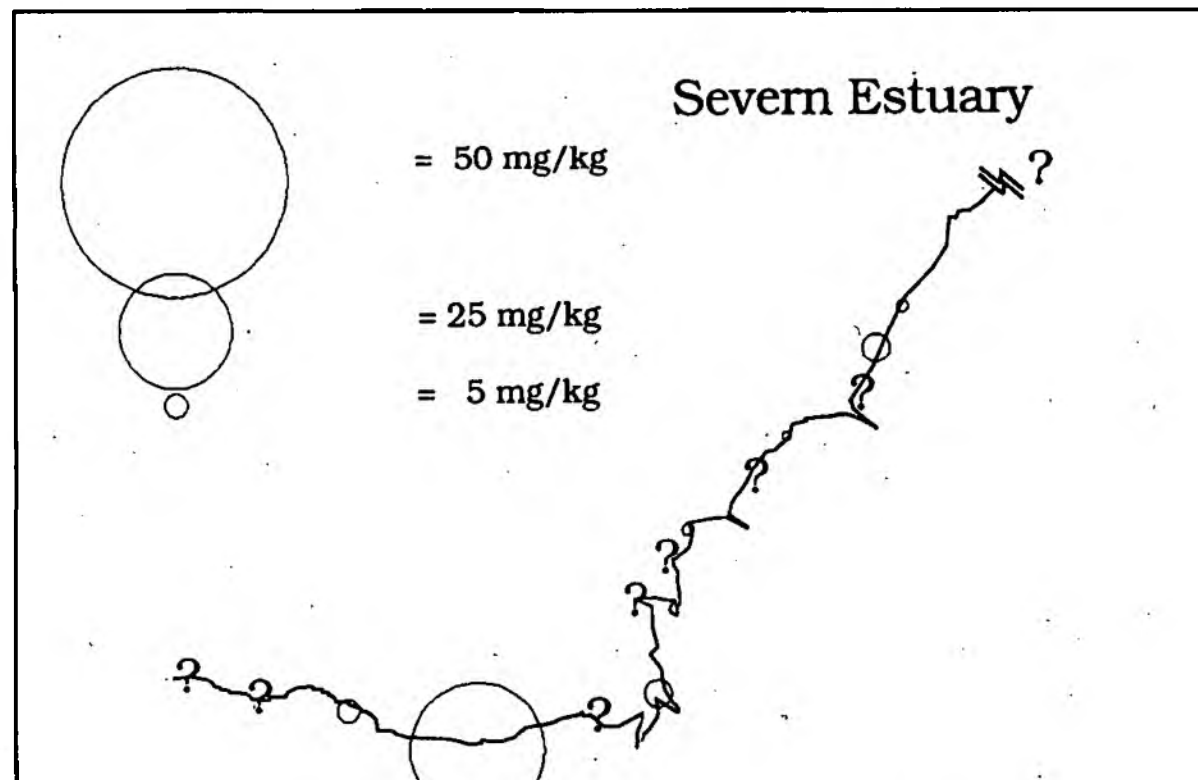
○ = Actual value

⬡ = Less than limit of detection



|                                                                                       |                                                                                                                            |
|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Job Title:                                                                            | Coastwatch Bio-accumulation Programme                                                                                      |
| Prepared by:                                                                          | S. J. White, Biology Laboratory,<br>NRA Wessex Region, Rivers House,<br>Sunrise Business Park,<br>Blandford Forum, Dorset. |
|  |                                                                                                                            |

# 1983 *Fucus vesiculosus* Nickel



## Notes

Levels are in mg/kg dry weight

? = No data available

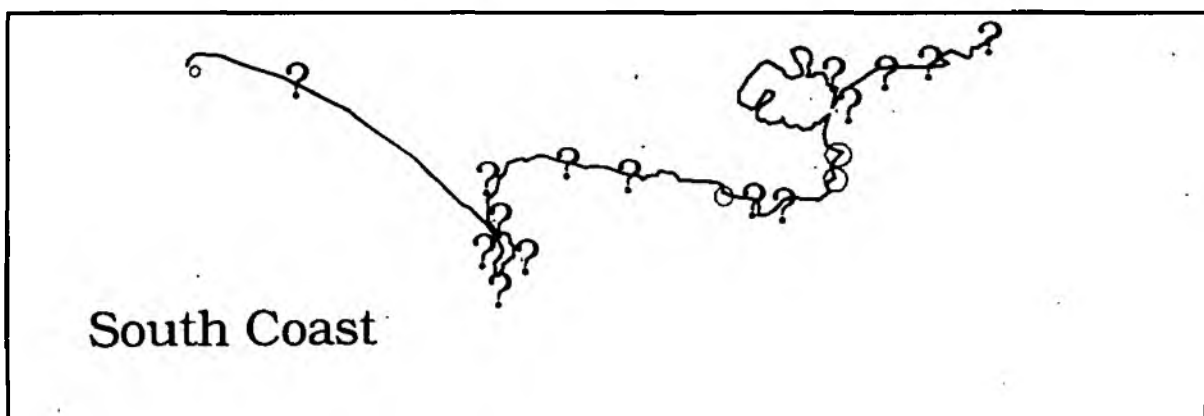
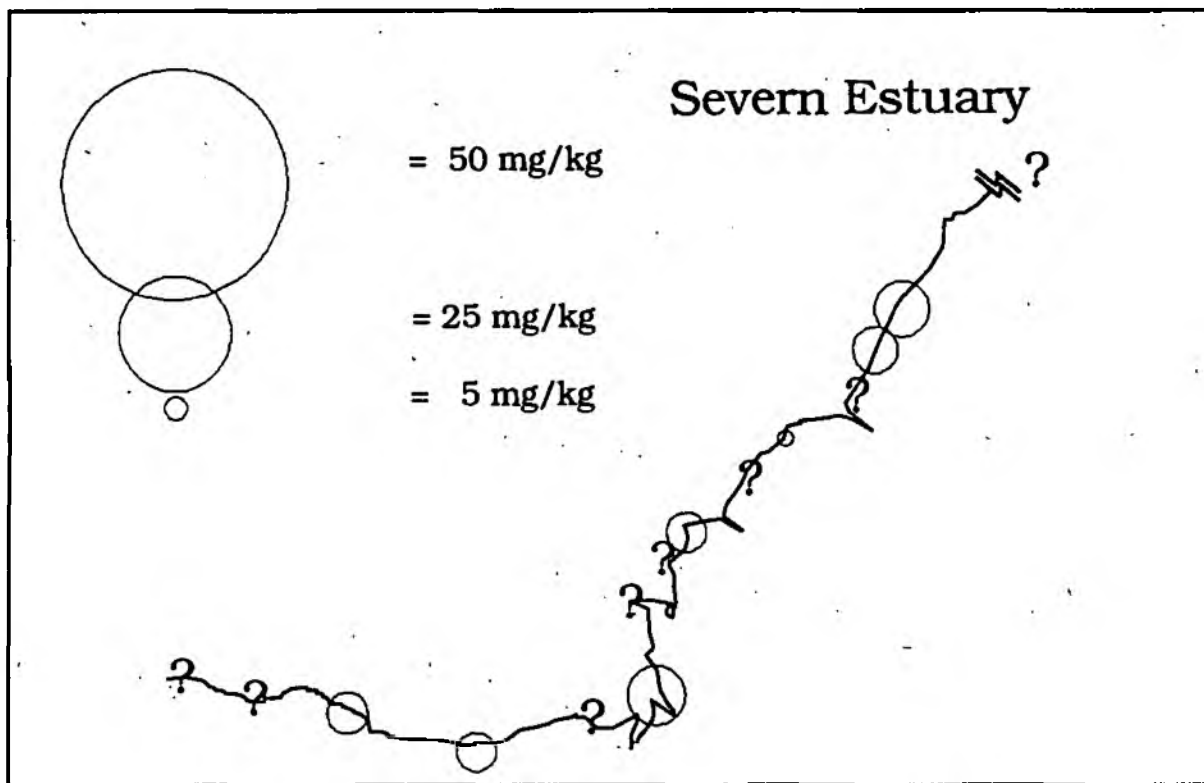
○ = Actual value

◻ = Less than limit of detection

|                                                                                       |                                                                                                                            |
|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Job Title:                                                                            | Coastwatch Bio-accumulation Programme                                                                                      |
| Prepared by:                                                                          | S. J. White, Biology Laboratory,<br>NRA Wessex Region, Rivers House,<br>Sunrise Business Park,<br>Blandford Forum, Dorset. |
|  |                                                                                                                            |



1983 *Fucus vesiculosus* Copper



# Notes

Levels are in mg/kg dry weight

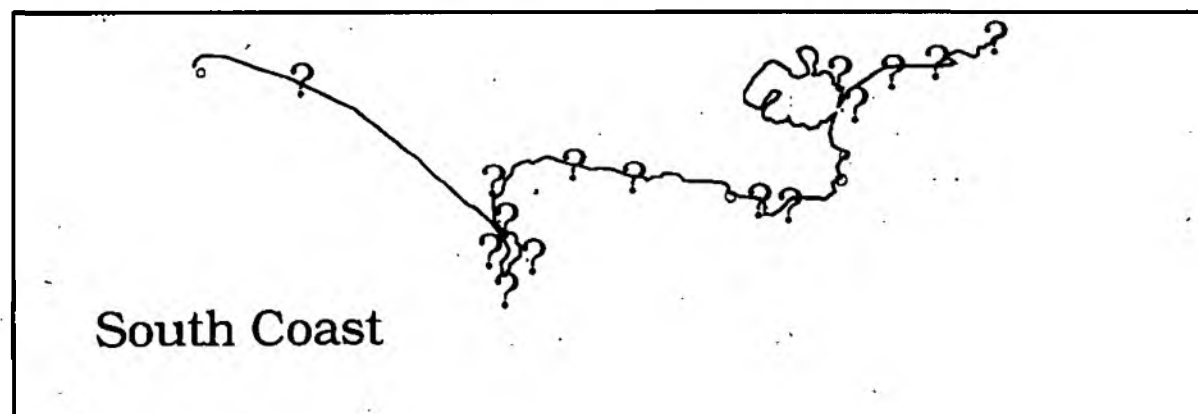
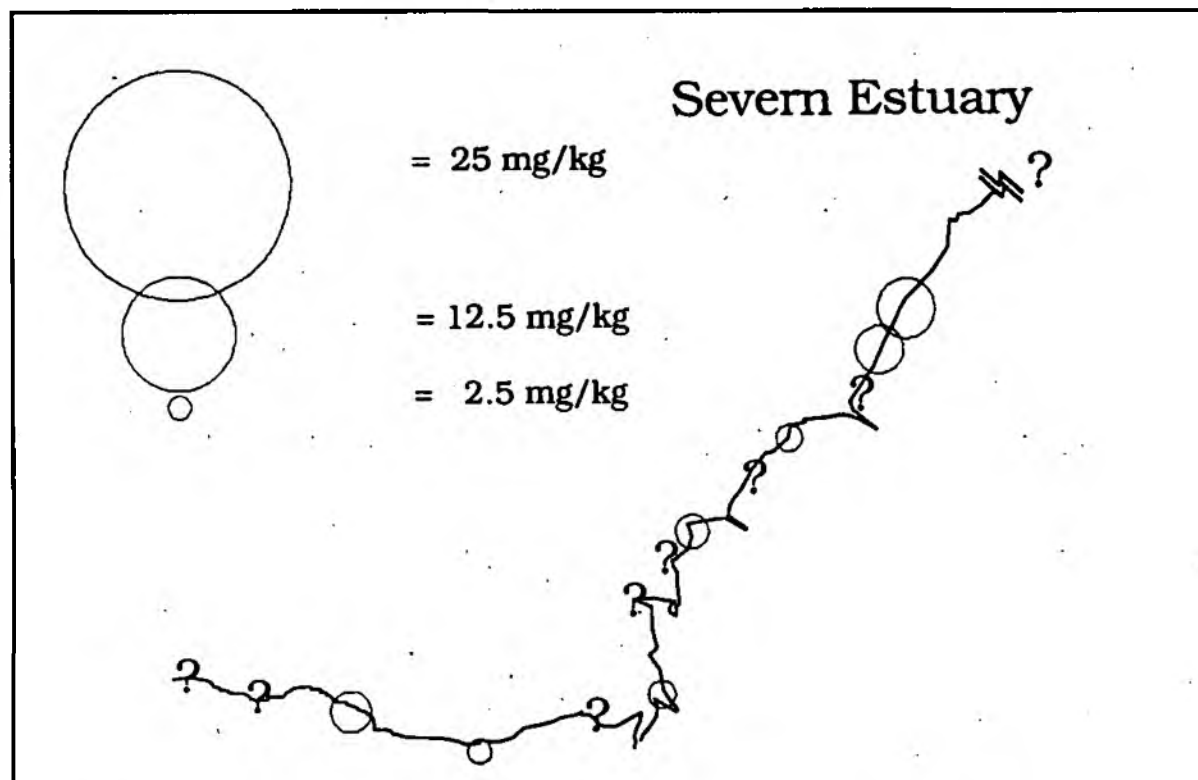
? = No data available

○ = Actual value

⬡ = Less than limit of detection

|                                                                                            |                                                                                                                            |
|--------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Job Title:                                                                                 | Coastwatch Bio-accumulation Programme                                                                                      |
| Prepared by:                                                                               | S. J. White, Ecology Laboratory,<br>NRA Wessex Region, Rivers House,<br>Sunrise Business Park,<br>Blandford Forum, Dorset. |
| <br>NRA |                                                                                                                            |

# 1983 *Fucus vesiculosus* Cadmium



## Notes

Levels are in mg/kg dry weight

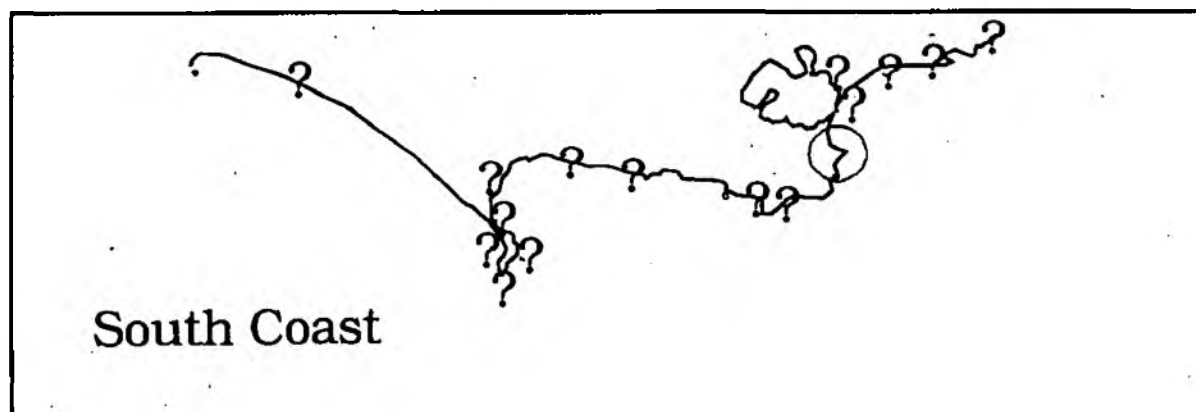
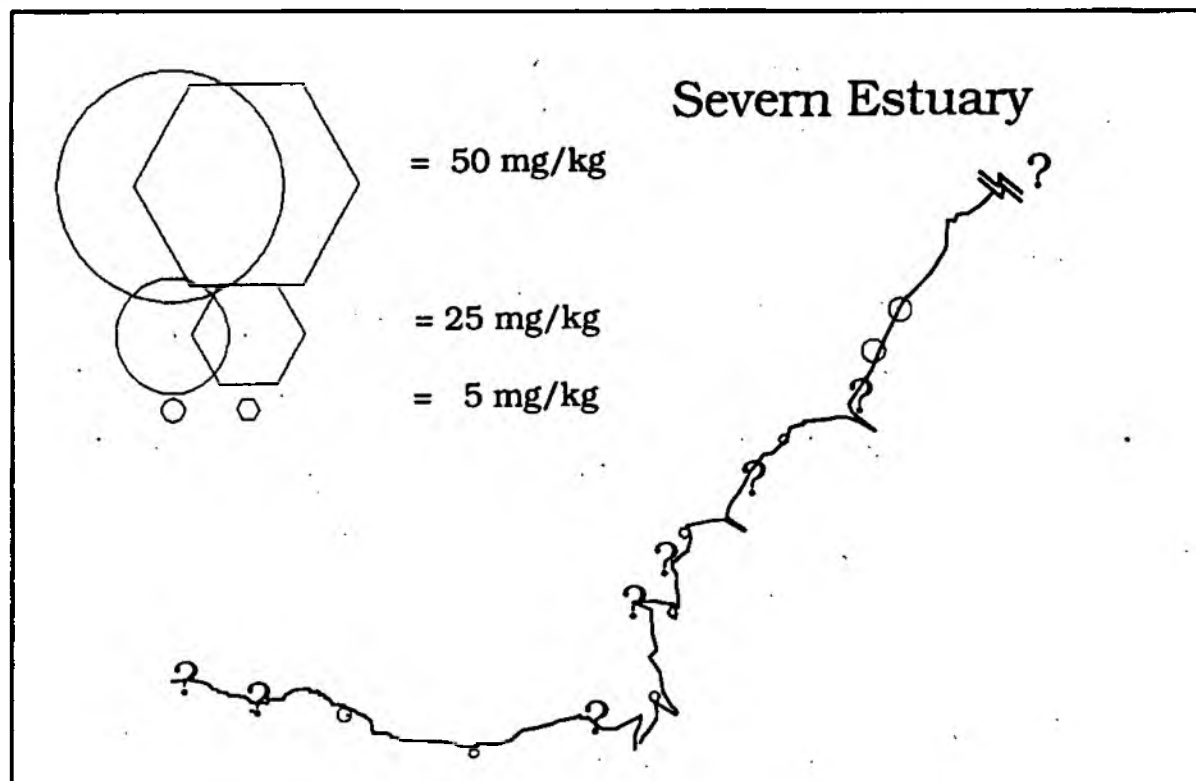
? = No data available

○ = Actual value

◻ = Less than limit of detection

|              |                                                                                                                            |
|--------------|----------------------------------------------------------------------------------------------------------------------------|
| Job Title:   | Coastwatch Bio-accumulation Programme                                                                                      |
| Prepared by: | S. J. White, Biology Laboratory,<br>NRA Wessex Region, Rivers House,<br>Sunrise Business Park,<br>Blandford Forum, Dorset. |

# 1983 *Fucus vesiculosus* Lead



## Notes

Levels are in mg/kg dry weight

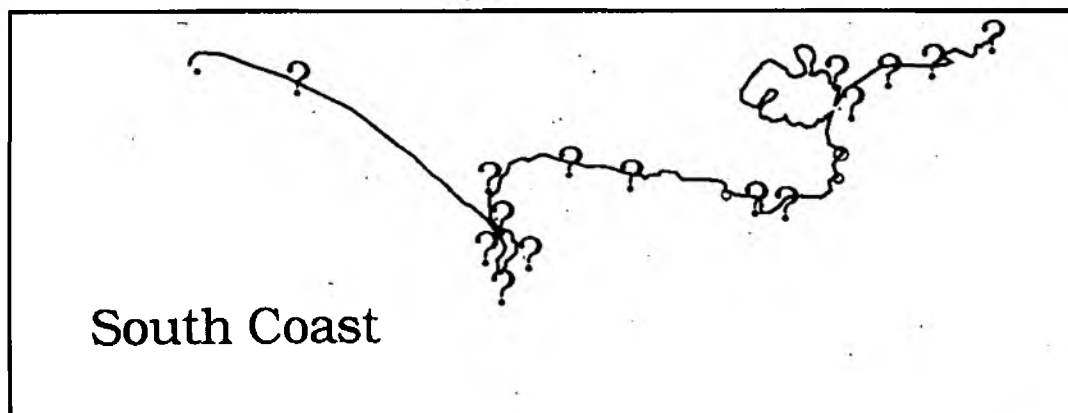
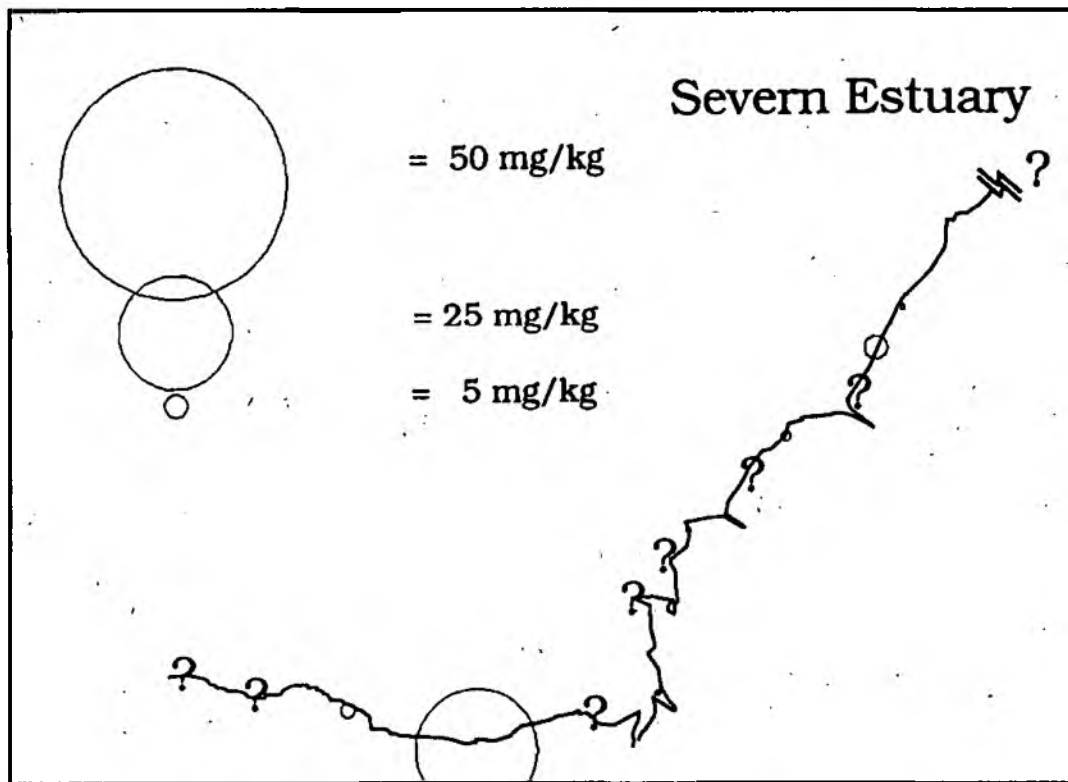
? = No data available

○ = Actual value

⬡ = Less than limit of detection

|                                                                                       |                                                                                                                            |
|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Job Title:                                                                            | Coastwatch Bio-accumulation Programme                                                                                      |
| Prepared by:                                                                          | S. J. White, Biology Laboratory,<br>NRA Wessex Region, Rivers House,<br>Sunrise Business Park,<br>Blandford Forum, Dorset. |
|  |                                                                                                                            |

1983 *Fucus vesiculosus* Chromium



# Notes

Levels are in mg/kg dry weight

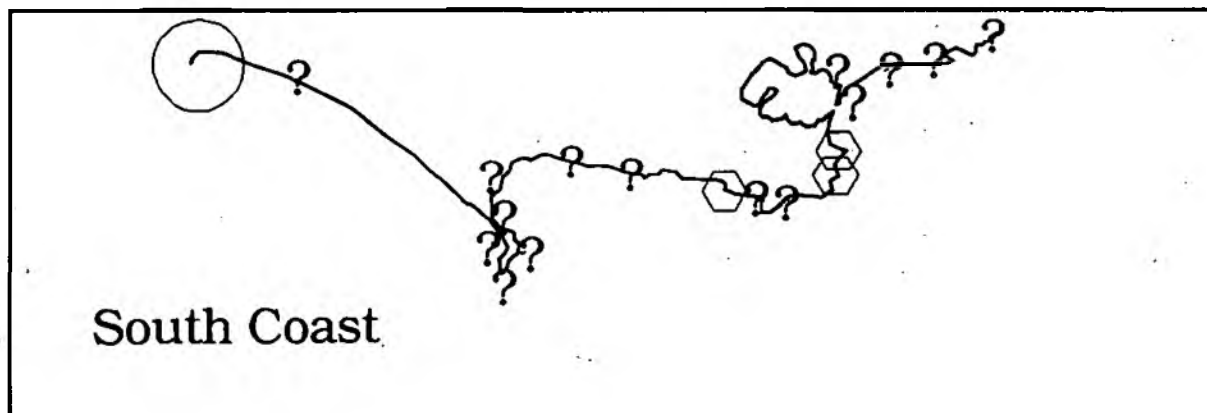
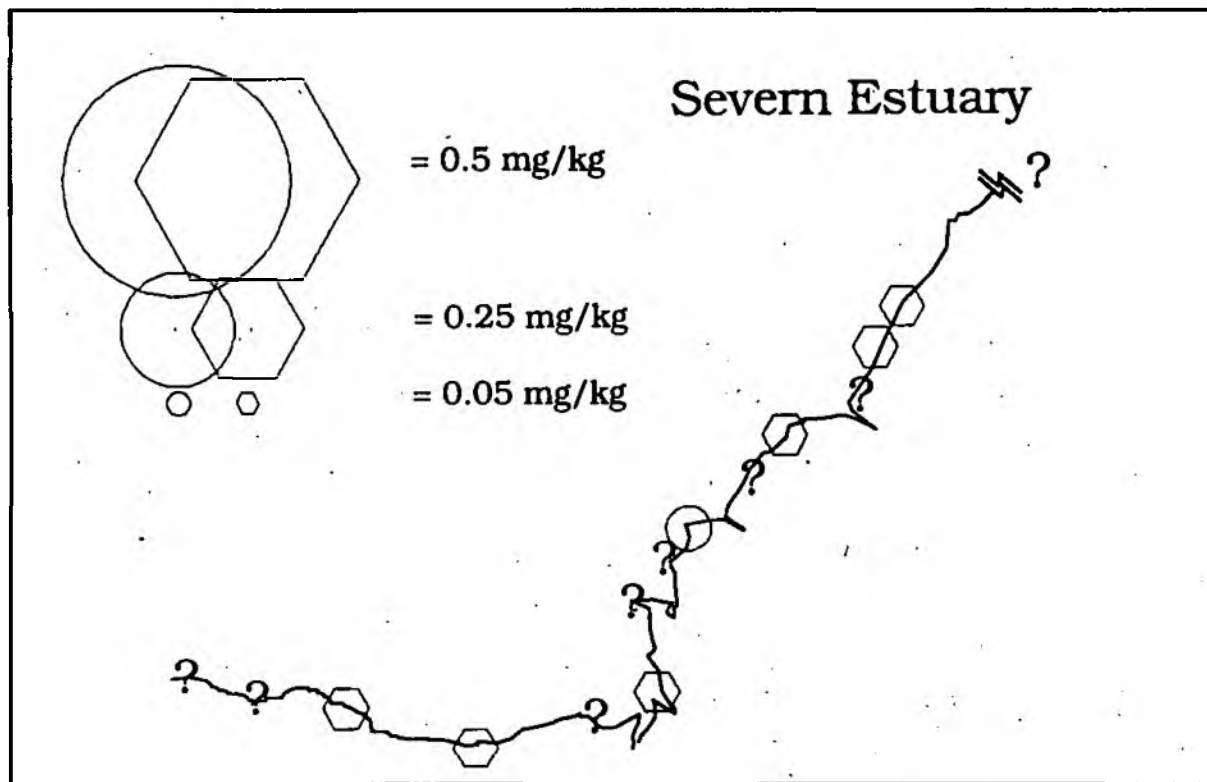
? = No data available

○ = Actual value

⬡ = Less than limit of detection

|                                                                                                      |                                                                                                                           |
|------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Job Title:                                                                                           | Coastwatch Bio-accumulation Programme                                                                                     |
| Prepared by :<br> | S. J. White, Ecology Laboratory,<br>NRA Wessex Region, Rivers House<br>Sunrise Business Park,<br>Blandford Forum, Dorset. |

1983 *Fucus vesiculosus* Mercury



# Notes

Levels are in mg/kg dry weight

? = No data available

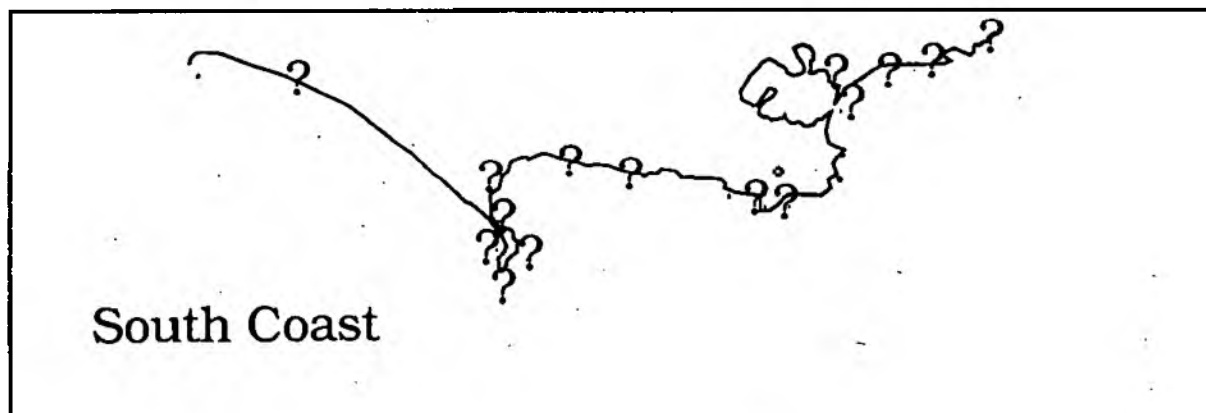
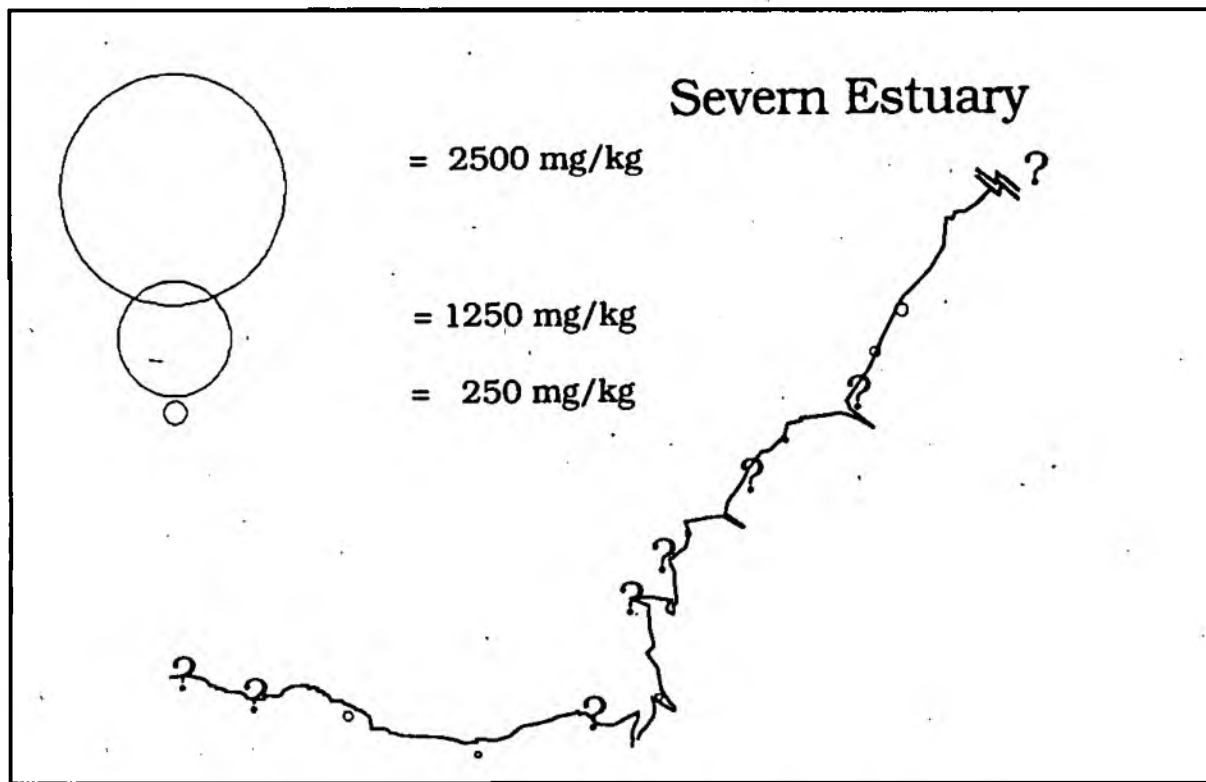
○ = Actual value

⬡ = Less than limit of detection

|                                                                                                             |                                                                                                                            |
|-------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Job Title:                                                                                                  | Coastwatch Bio-accumulation Programme                                                                                      |
| Prepared by :<br><br>NRA | S. J. White, Biology Laboratory,<br>NRA Wessex Region, Rivers House,<br>Sunrise Business Park,<br>Blandford Forum, Dorset. |



1983 *Fucus vesiculosus* Zinc



# Notes

Levels are in mg/kg dry weight

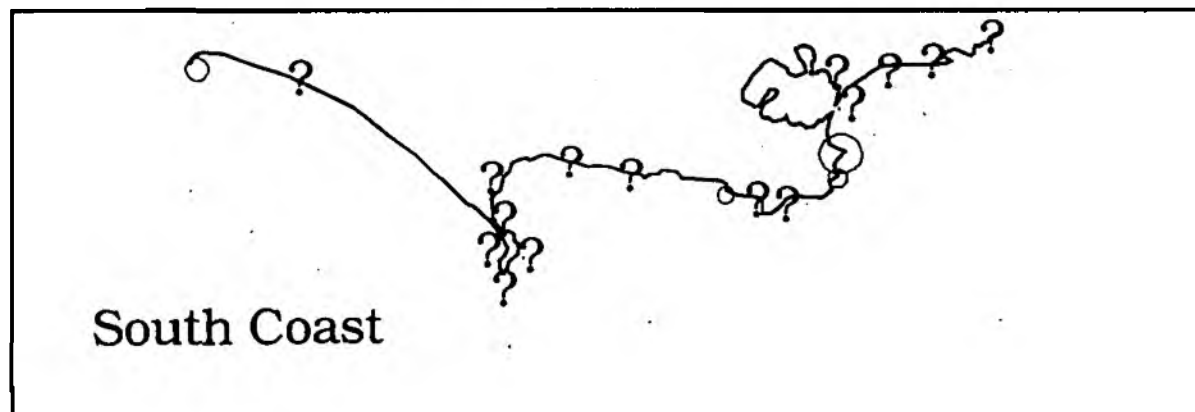
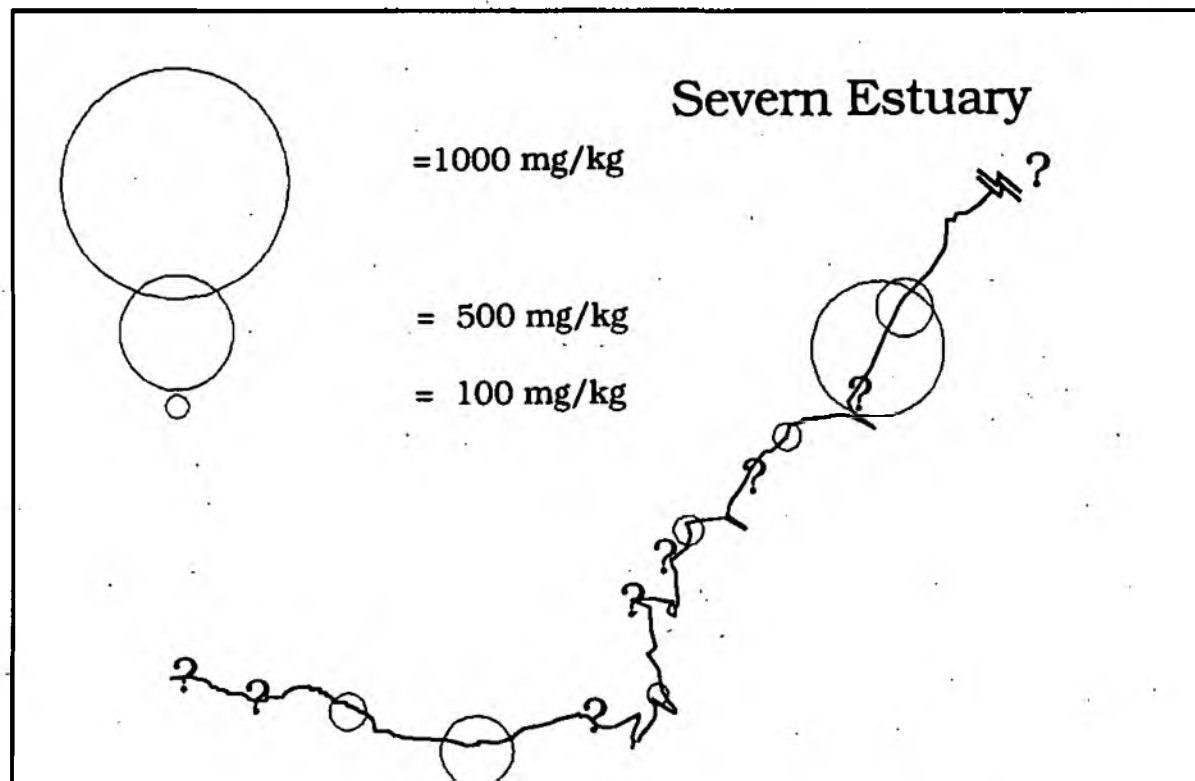
? = No data available

○ = Actual value

⬡ = Less than limit of detection

|              |                                                                                                                           |
|--------------|---------------------------------------------------------------------------------------------------------------------------|
| Job Title:   | Coastwatch Bio-accumulation Programme                                                                                     |
| Prepared by: | S. J. White, Biology Laboratory,<br>NRA Wessex Region, Rivers House<br>Sunrise Business Park,<br>Blandford Forum, Dorset. |

# 1983 *Fucus vesiculosus* Iron



## Notes

Levels are in mg/kg dry weight

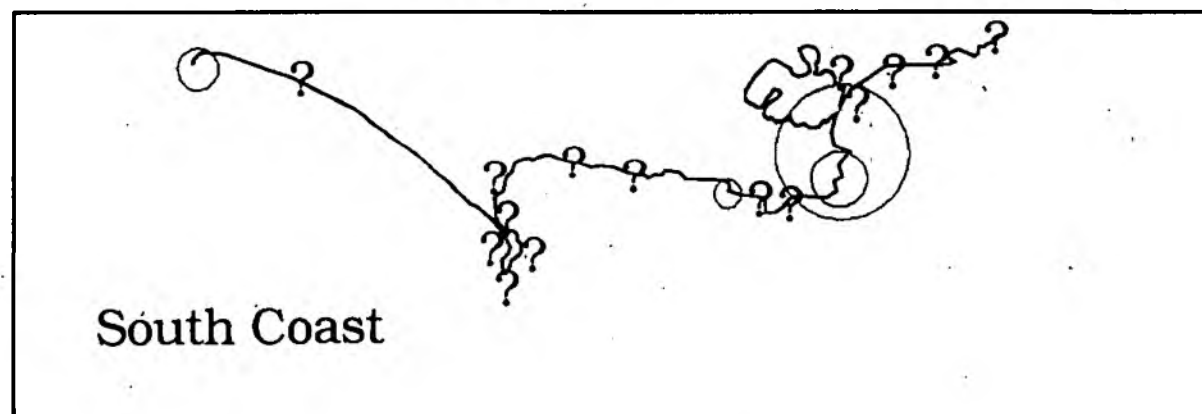
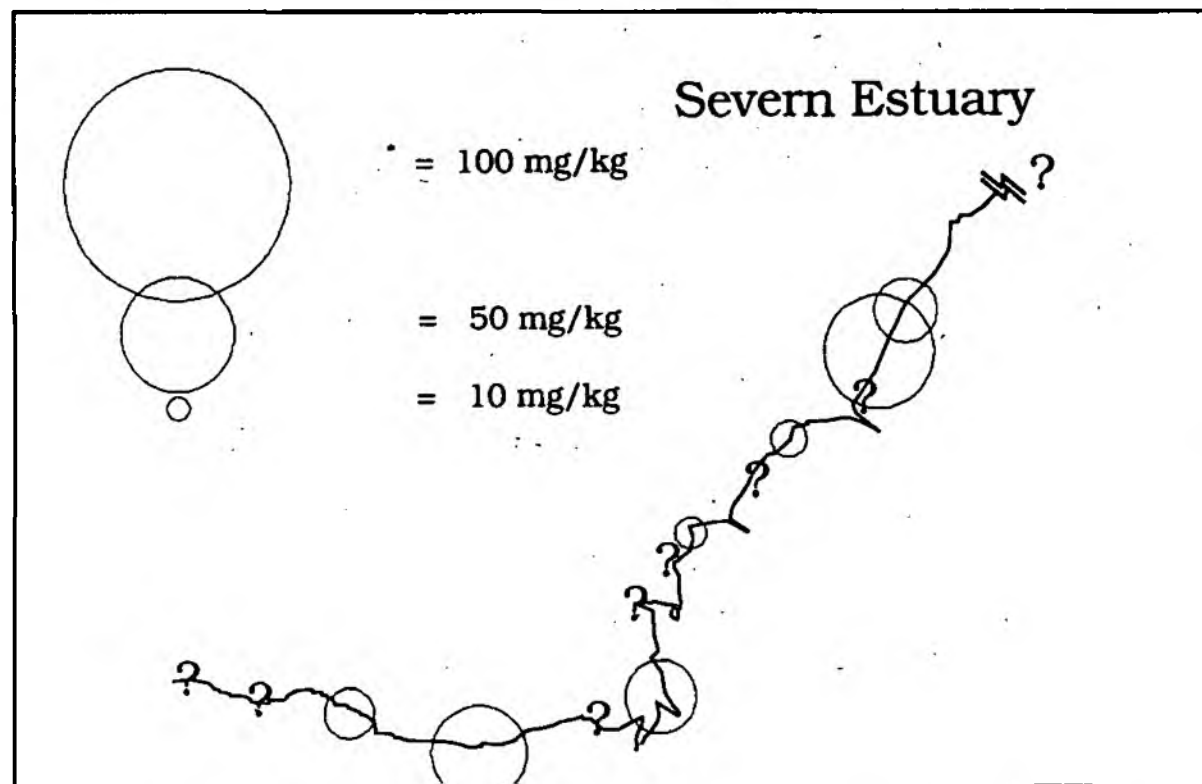
? = No data available

○ = Actual value

◻ = Less than limit of detection

|                                                                                       |                                                                                                                            |
|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Job Title:                                                                            | Coastwatch Bio-accumulation Programme                                                                                      |
| Prepared by:                                                                          | S. J. White, Biology Laboratory,<br>NRA Wessex Region, Rivers House,<br>Sunrise Business Park,<br>Blandford Forum, Dorset. |
|  |                                                                                                                            |

# 1983 *Fucus vesiculosus* Manganese



## Notes

Levels are in mg/kg dry weight

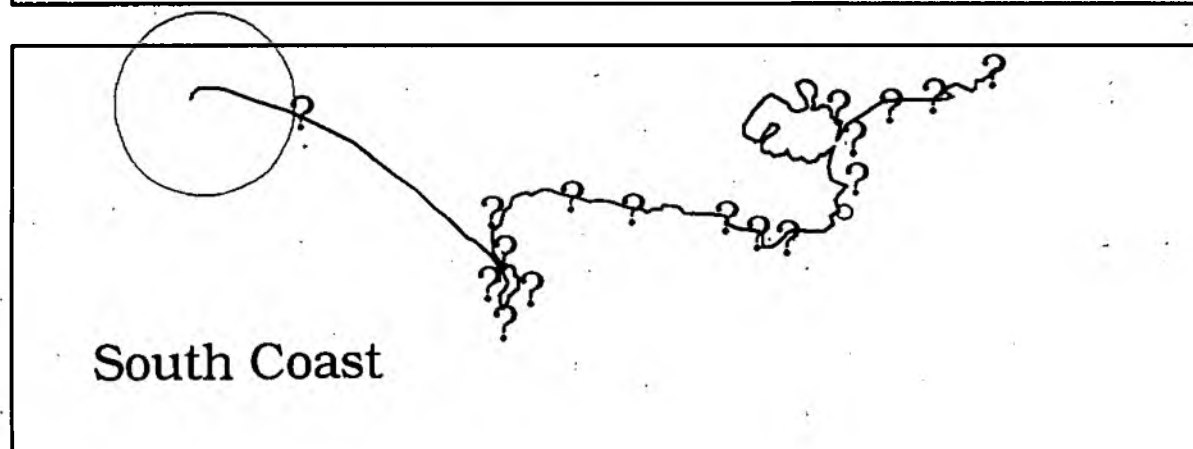
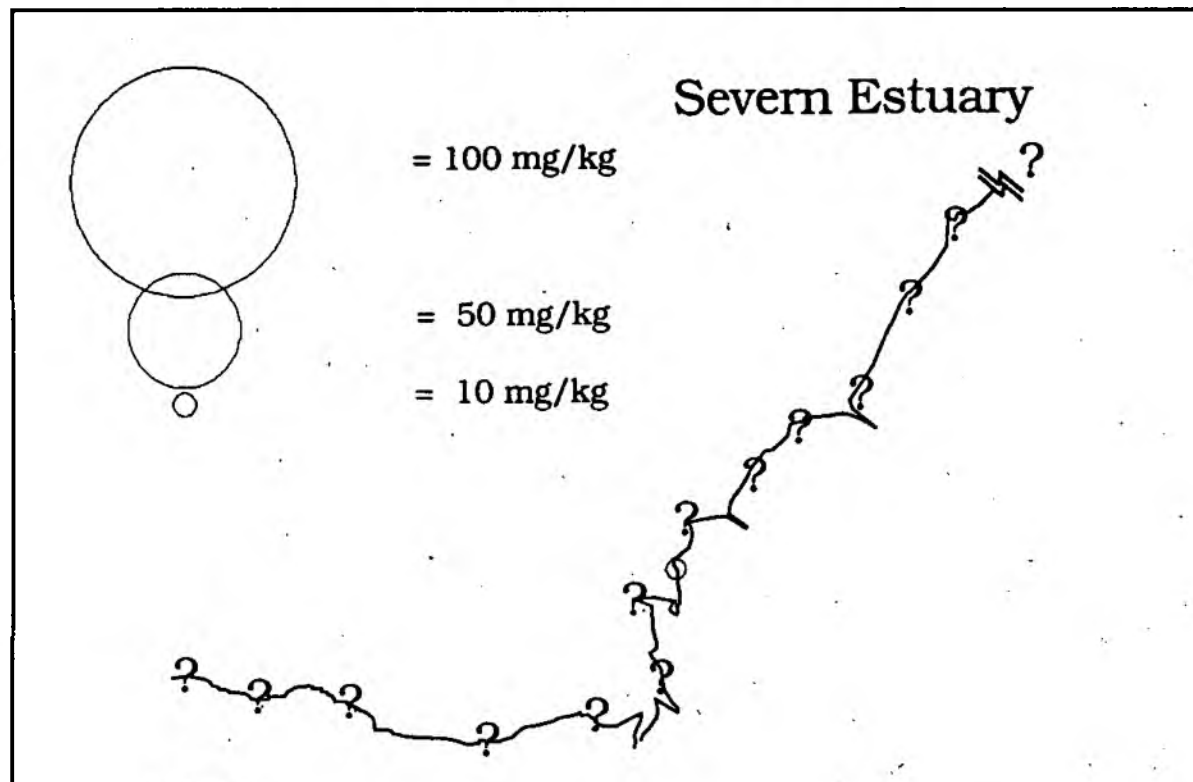
? = No data available

○ = Actual value

⬡ = Less than limit of detection

|                                                                                       |                                                                                                                           |
|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Job Title:                                                                            | Coastwatch Bio-accumulation Programme                                                                                     |
| Prepared by:                                                                          | S. J. White, Biology Laboratory,<br>NRA Wessex Region, Rivers House<br>Sunrise Business Park,<br>Blandford Forum, Dorset. |
|  |                                                                                                                           |

# 1983 *Patella vulgata* Nickel



## Notes

Levels are in mg/kg dry weight

? = No data available

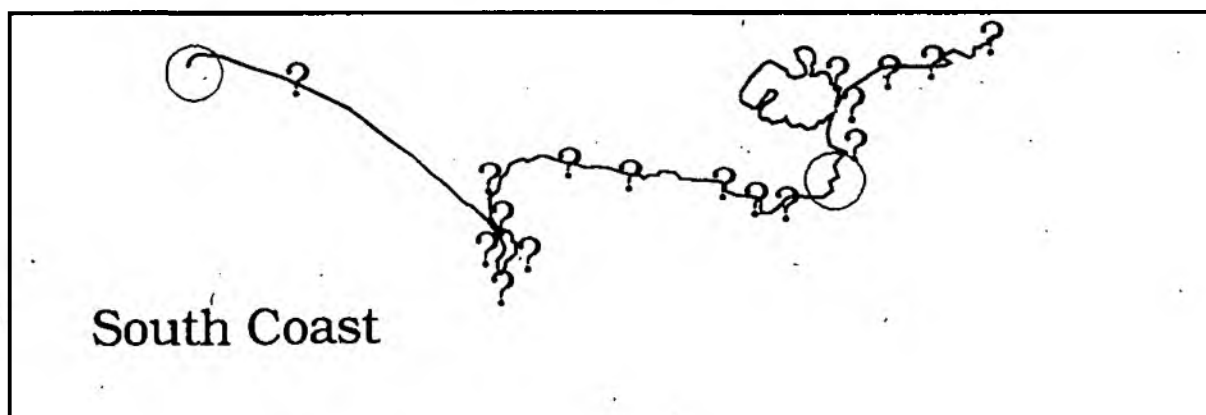
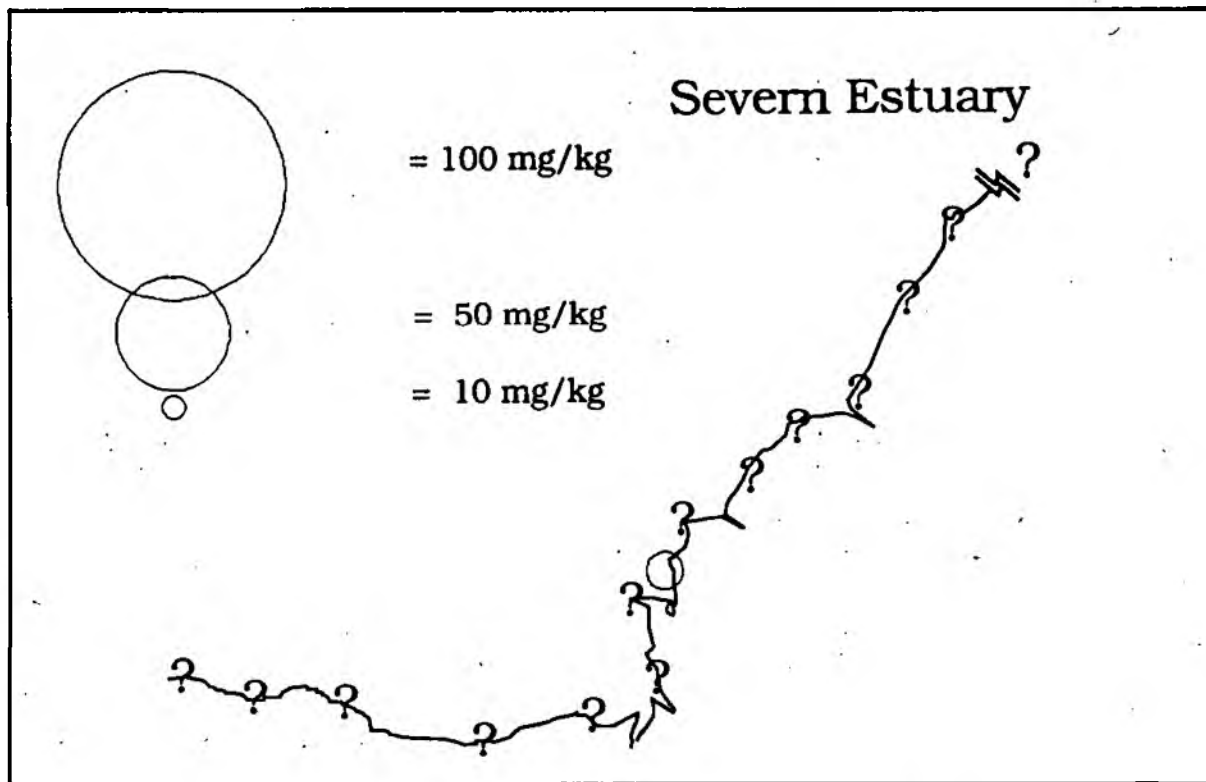
○ = Actual value

◻<sup>a</sup> = Less than limit of detection

|              |                                       |
|--------------|---------------------------------------|
| Job Title:   | Coastwatch Bio-accumulation Programme |
| Prepared by: | S. J. White, Biology Laboratory.      |
|              | NRA Wessex Region, Rivers House       |
|              | Sunrise Business Park,                |
|              | Blandford Forum, Dorset.              |



1983 *Patella vulgata* Copper



# Notes

Levels are in mg/kg dry weight

? = No data available

○ = Actual value

⬡ = Less than limit of detection

|                                                                                                            |                                                                                                                           |
|------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Job Title:                                                                                                 | Coastwatch Bio-accumulation Programme                                                                                     |
| Prepared by:<br><br>NRA | S. J. White, Biology Laboratory,<br>NRA Wessex Region, Rivers House<br>Sunrise Business Park,<br>Blandford Forum, Dorset. |

# 1983 *Patella vulgata* Cadmium

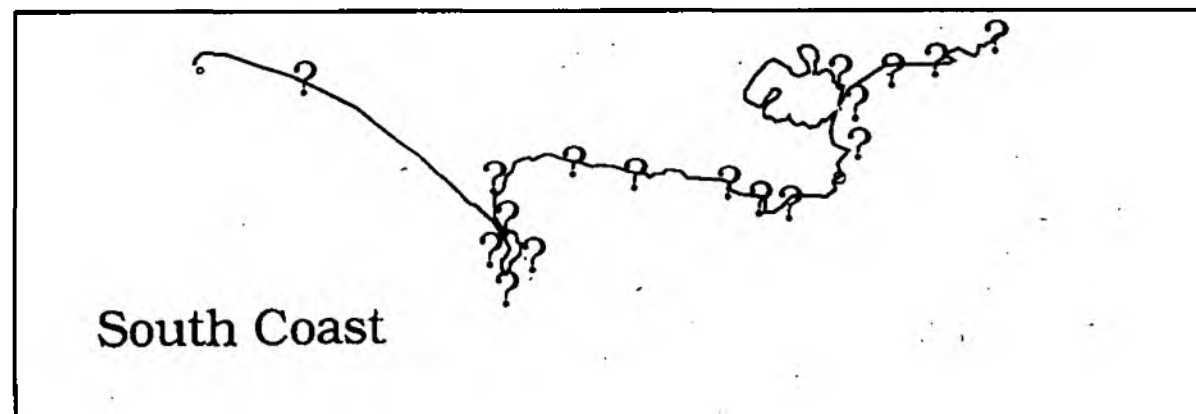
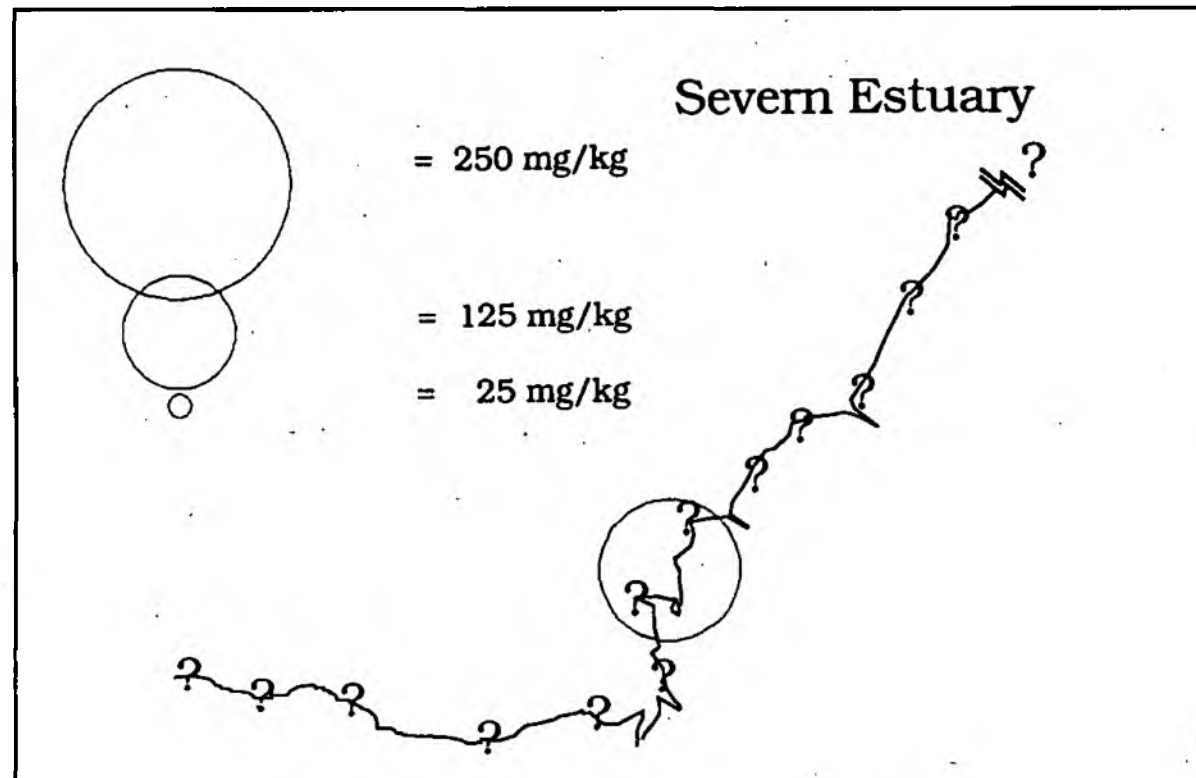
## Notes

Levels are in mg/kg dry weight

? = No data available

○ = Actual value

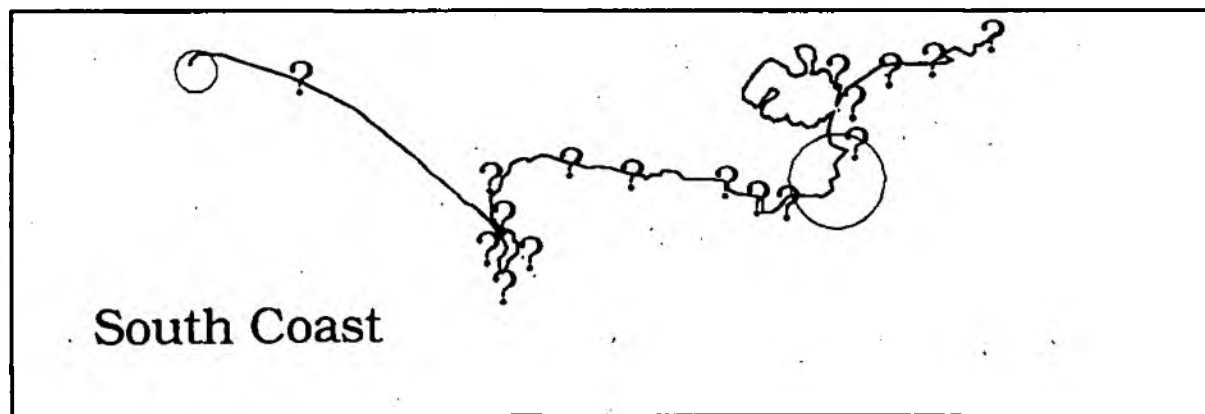
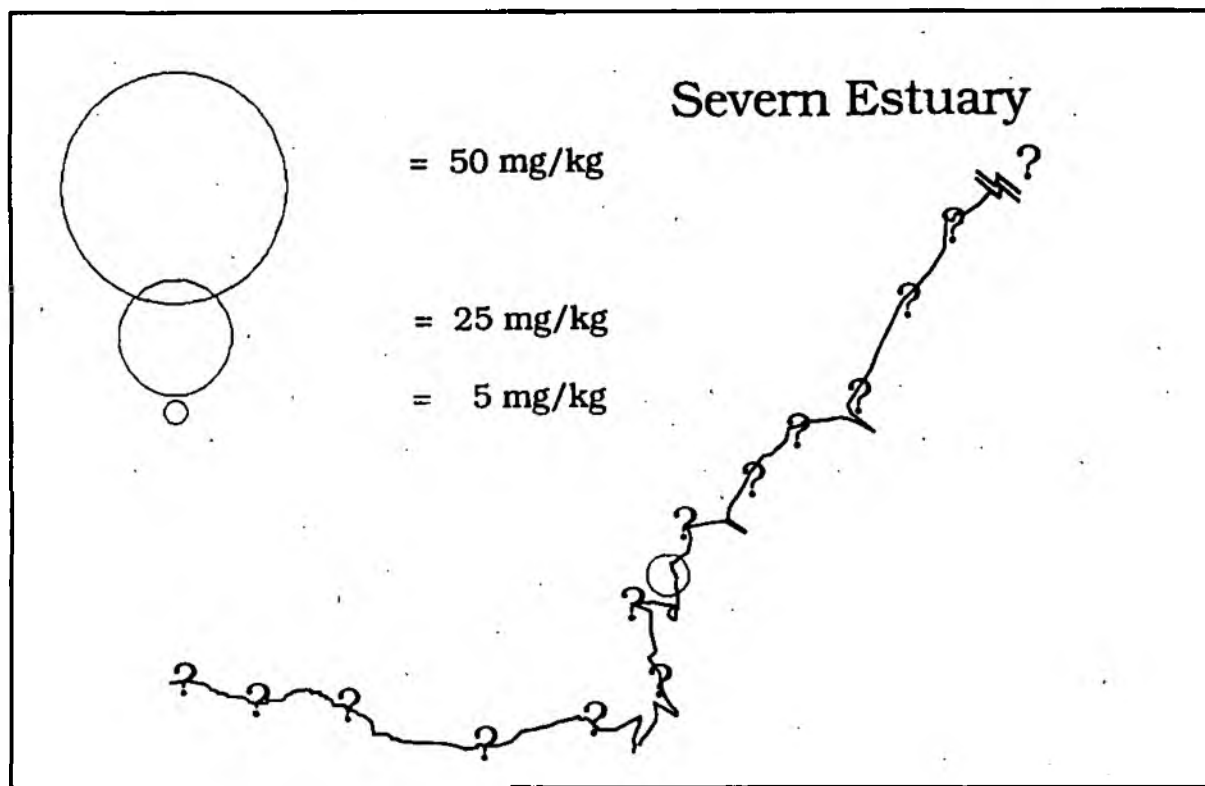
◻ = Less than limit of detection



|              |                                                                                                                           |
|--------------|---------------------------------------------------------------------------------------------------------------------------|
| Job Title:   | Coastwatch Bio-accumulation Programme                                                                                     |
| Prepared by: | S. J. White, Biology Laboratory,<br>NRA Wootton Bassett, Rivers House,<br>Surrey Business Park,<br>Hamford Forum, Dorset. |
| NRA          |                                                                                                                           |



1983 *Patella vulgata* Lead



# Notes

Levels are in mg/kg dry weight

? = No data available

○ = Actual value

⬡ = Less than limit of detection

|              |                                                                                                                            |
|--------------|----------------------------------------------------------------------------------------------------------------------------|
| Job Title:   | Coastwatch Bio-accumulation Programme                                                                                      |
| Prepared by: | A. J. White, Biology Laboratory,<br>NRA Wessex Region, Rivers House,<br>Sunrise Business Park,<br>Blandford Forum, Dorset. |

# 1983 *Patella vulgata* Chromium

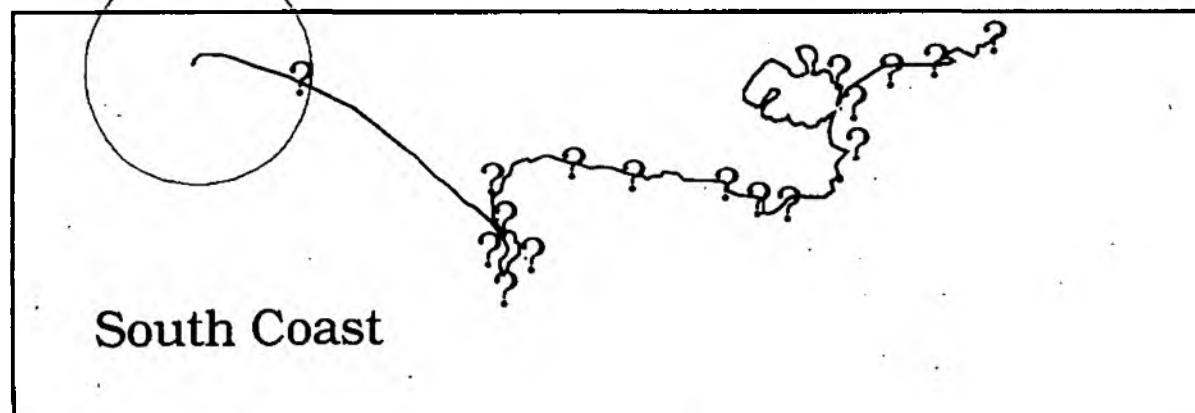
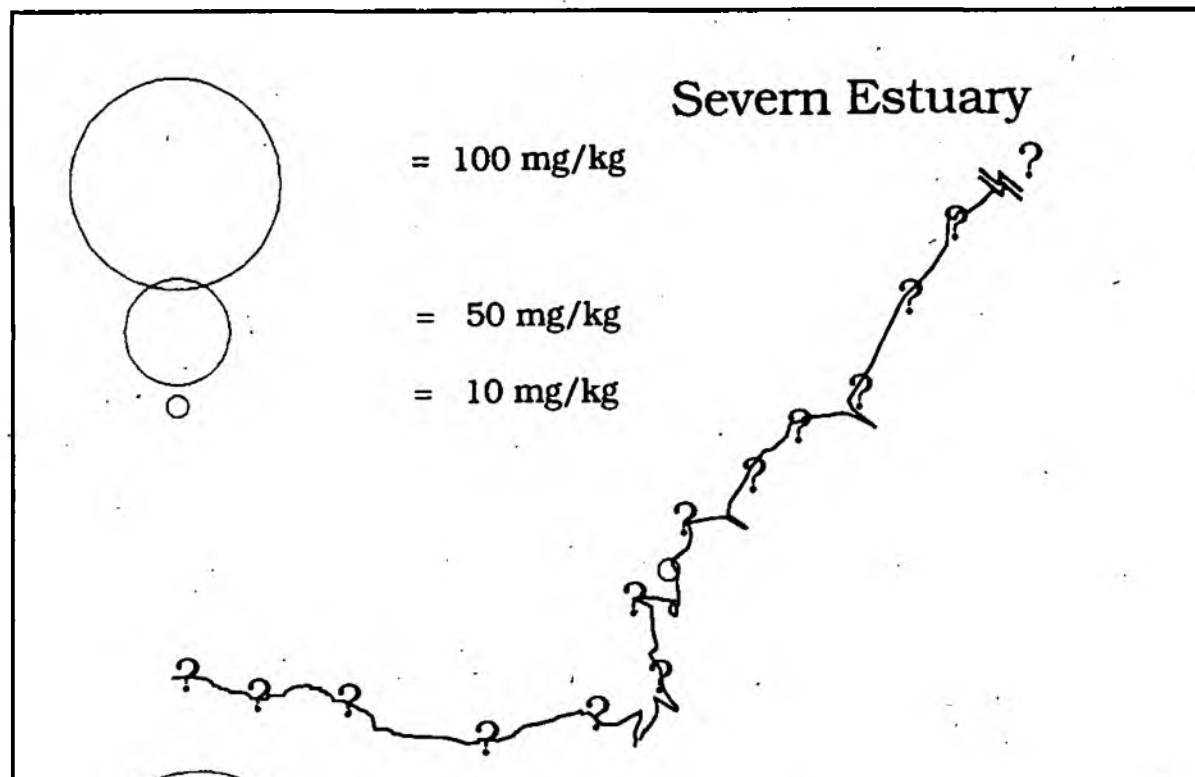
## Notes

Levels are in mg/kg dry weight

? = No data available

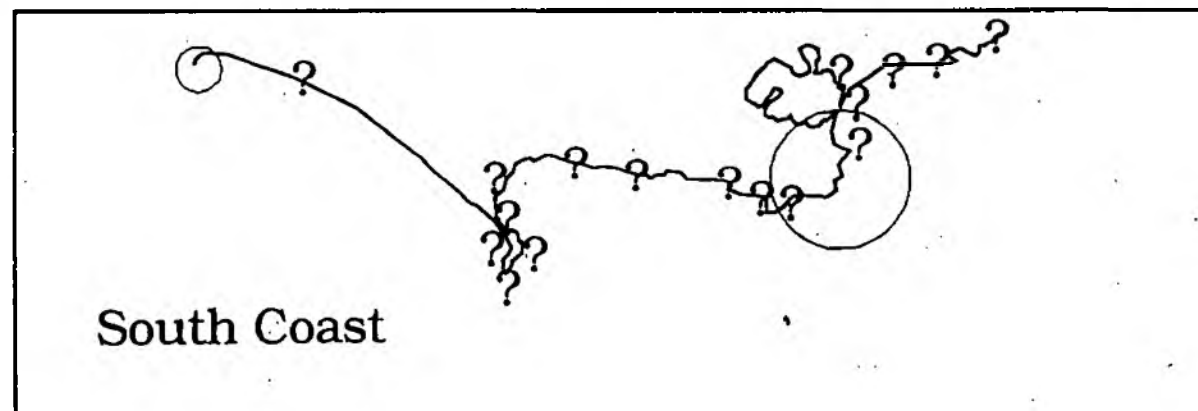
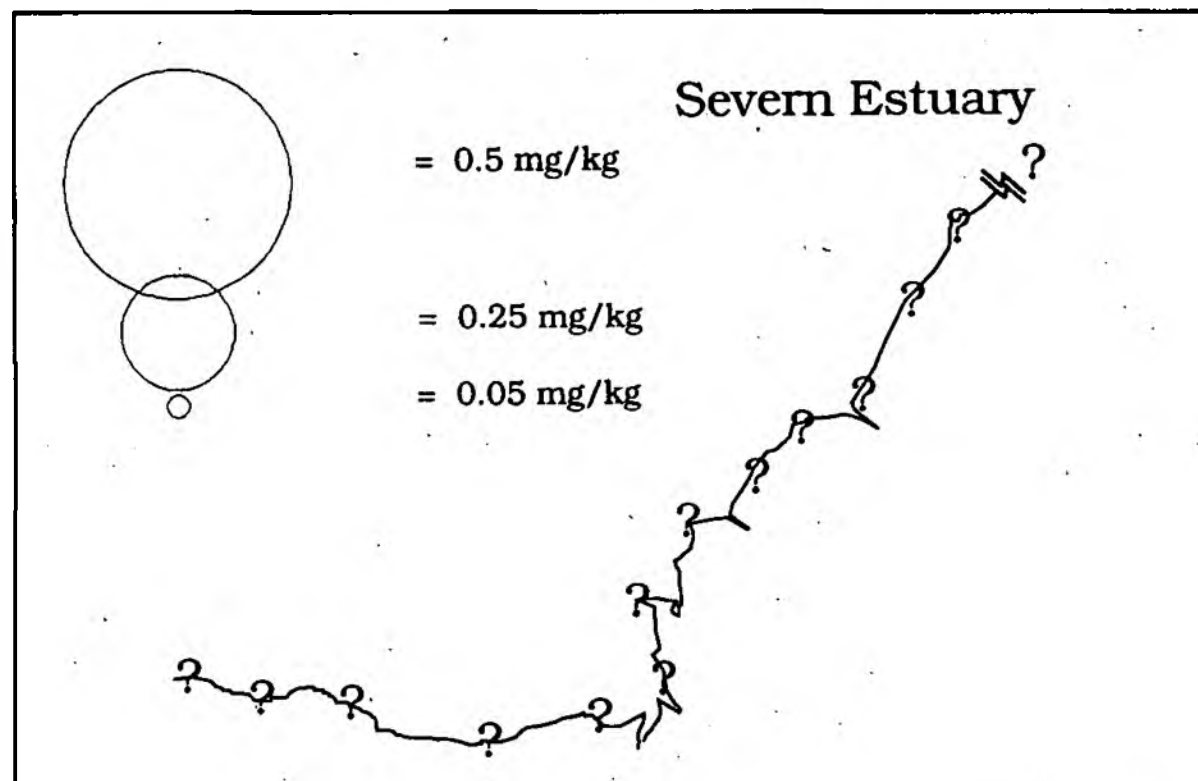
○ = Actual value

◻ = Less than limit of detection



|              |                                                                                                                           |
|--------------|---------------------------------------------------------------------------------------------------------------------------|
| Job Title:   | Coastwatch Bio-accumulation Programme                                                                                     |
| Prepared by: | S. J. White, Biology Laboratory,<br>NRA Wessex Region, Rivers House,<br>Summit Business Park,<br>Blandford Forum, Dorset. |

# 1983 *Patella vulgata* Mercury



## Notes

Levels are in mg/kg dry weight

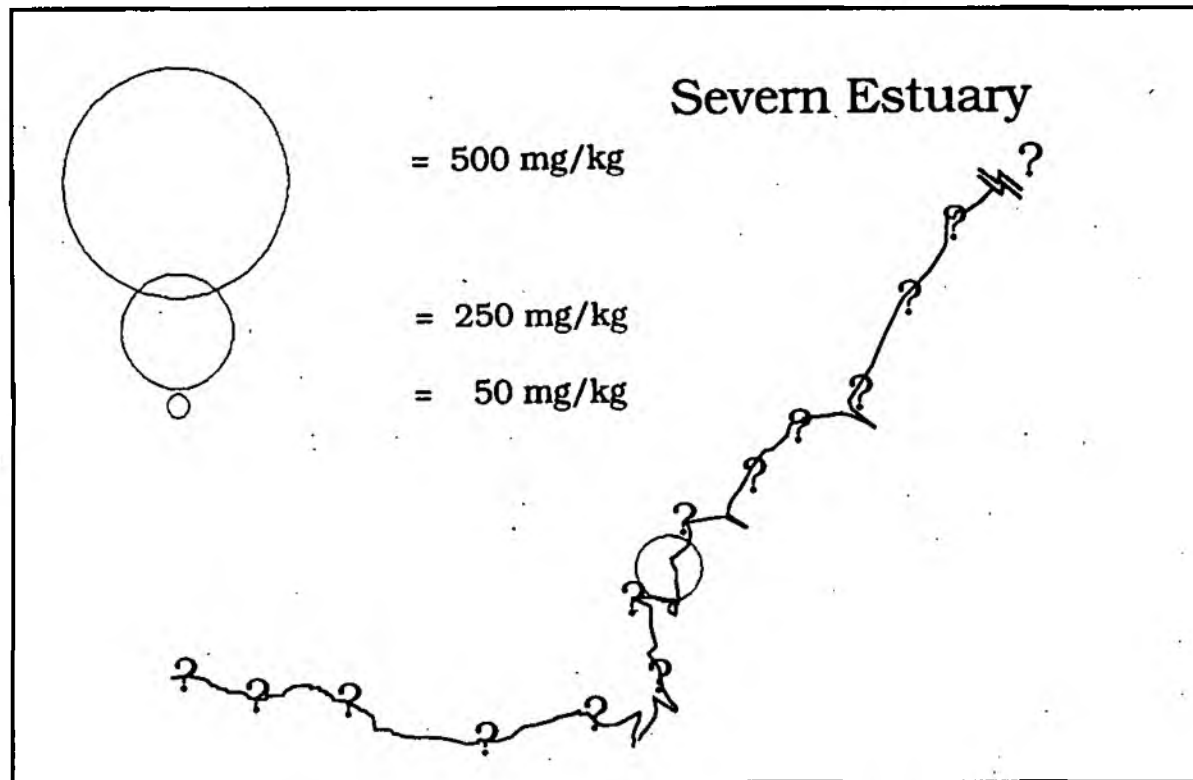
? = No data available

○ = Actual value

◻ = Less than limit of detection

|                                                                                       |                                                                                                                            |
|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Job Title:                                                                            | Coastwatch Bio-accumulation Programme                                                                                      |
| Prepared by:                                                                          | S. J. White, Biology Laboratory,<br>NRA Wessex Region, Rivers House,<br>Sunrise Business Park,<br>Blandford Forum, Dorset. |
|  |                                                                                                                            |

# 1983 *Patella vulgata* Zinc



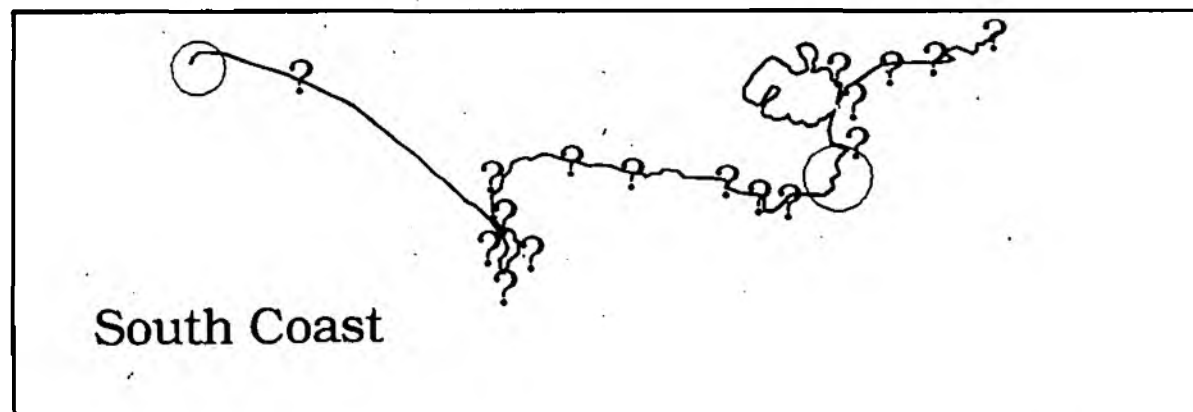
## Notes

Levels are in mg/kg dry weight

? = No data available

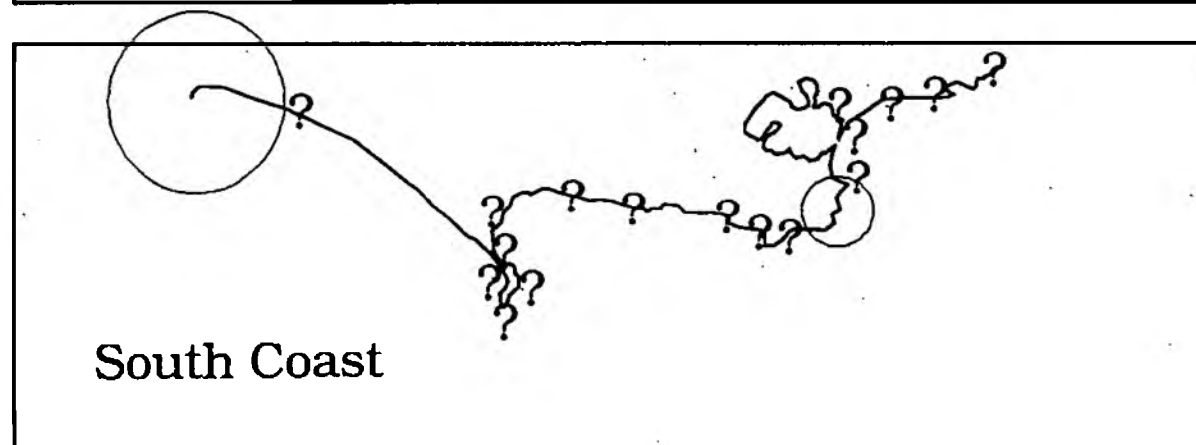
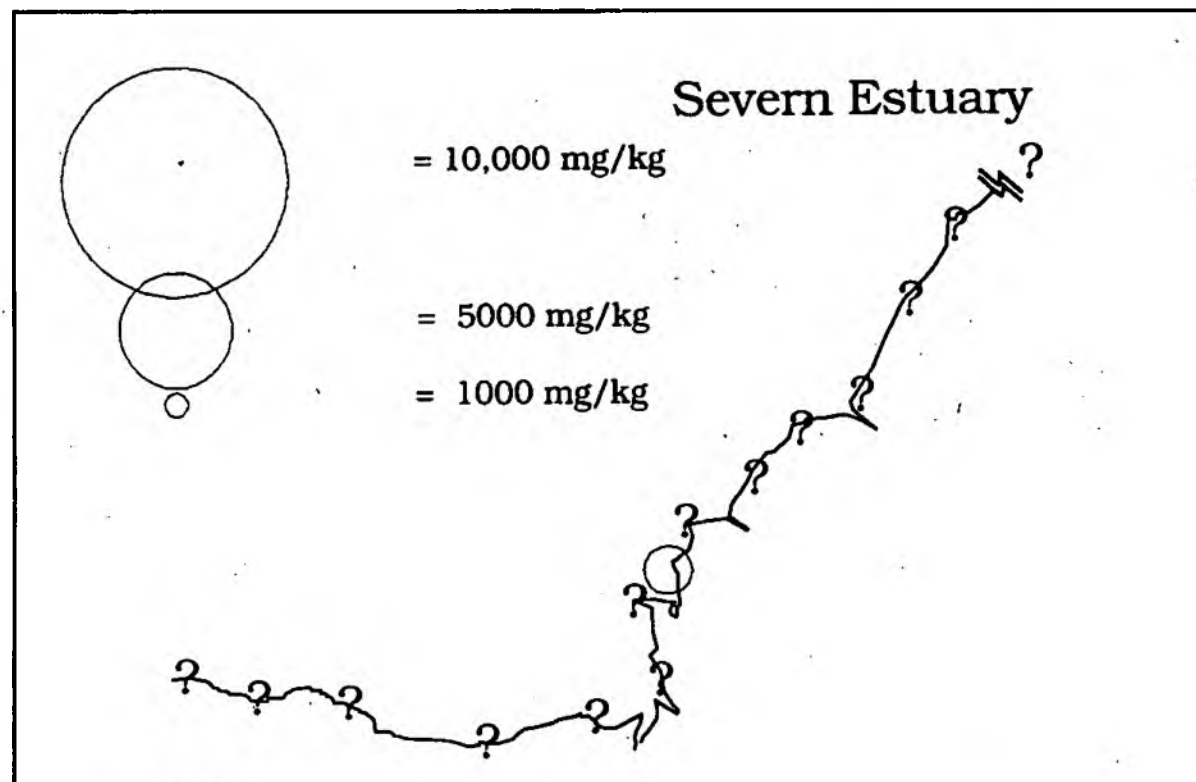
○ = Actual value

⬡ = Less than limit of detection



|              |                                                                                                                            |
|--------------|----------------------------------------------------------------------------------------------------------------------------|
| Job Title:   | Coastwatch Bio-accumulation Programme                                                                                      |
| Prepared by: | S. J. White, Biology Laboratory,<br>NRA Wessex Region, Rivers House,<br>Sunrise Business Park,<br>Blandford Forum, Dorset. |
| NRA          |                                                                                                                            |

# 1983 *Patella vulgata* Iron



## Notes

Levels are in mg/kg dry weight

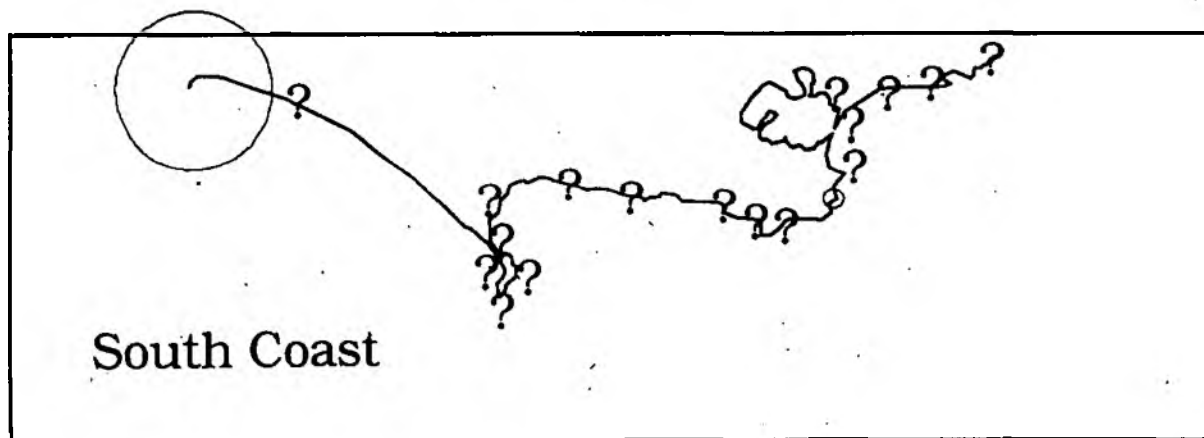
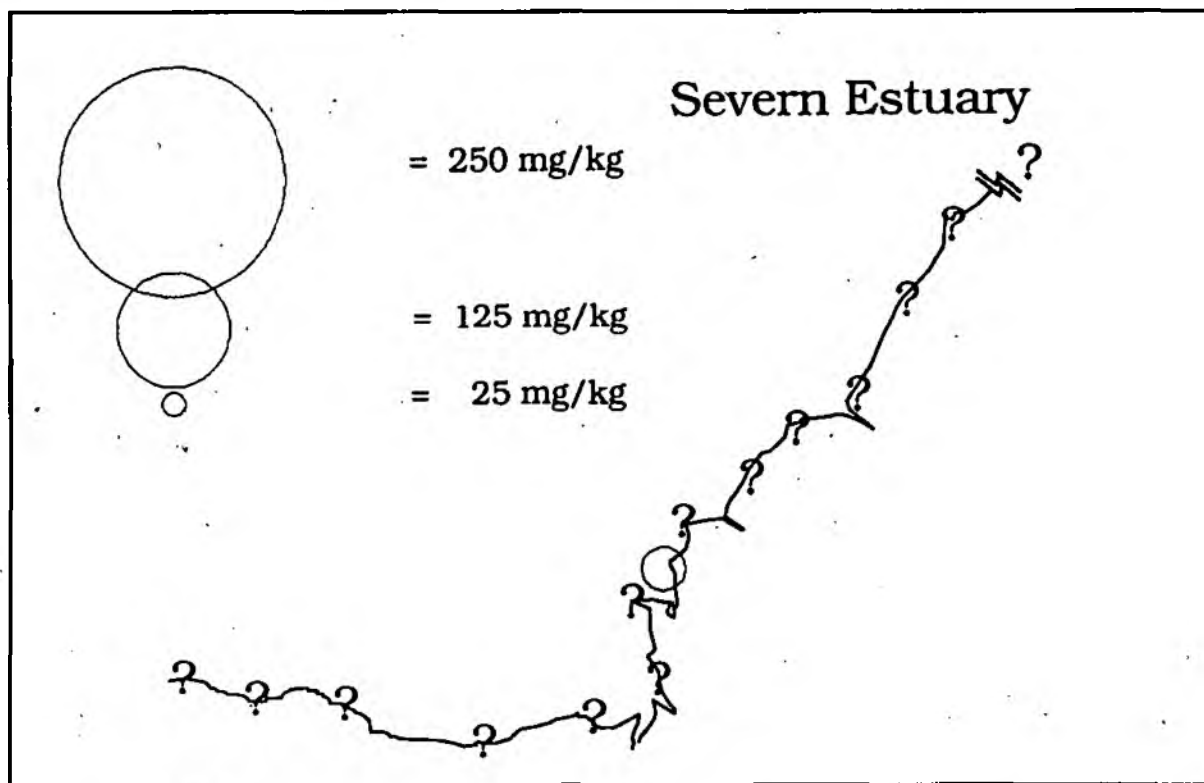
? = No data available

○ = Actual value

◻ = Less than limit of detection

|                                                                                       |                                                                                                                            |
|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Job Title:                                                                            | Coastwatch Bio-accumulation Programme                                                                                      |
| Prepared by:                                                                          | S. J. White, Biology Laboratory,<br>NRA Wessex Region, Rivers House,<br>Sunrise Business Park,<br>Blandford Forum, Dorset. |
|  |                                                                                                                            |

# 1983 *Patella vulgata* Manganese



# Notes

Levels are in mg/kg dry weight

? = No data available

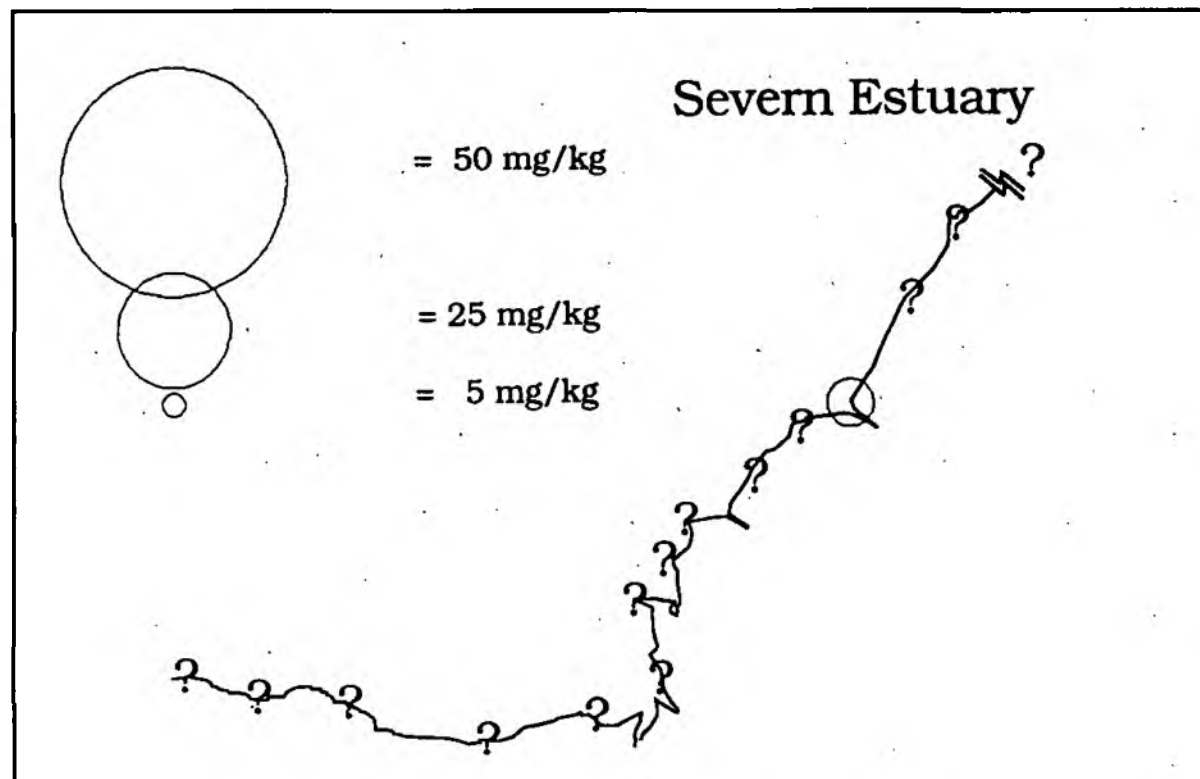
○ = Actual value

⬡ = Less than limit of detection

|              |                                                                                                                           |
|--------------|---------------------------------------------------------------------------------------------------------------------------|
| Job Title:   | Coastwatch Bio-accumulation Programme                                                                                     |
| Prepared by: | S. J. White, Biology Laboratory,<br>NRA Wessex Region, Rivers House<br>Sunrise Business Park,<br>Blandford Forum, Dorset. |



# 1980 Furoid seaweeds Nickel



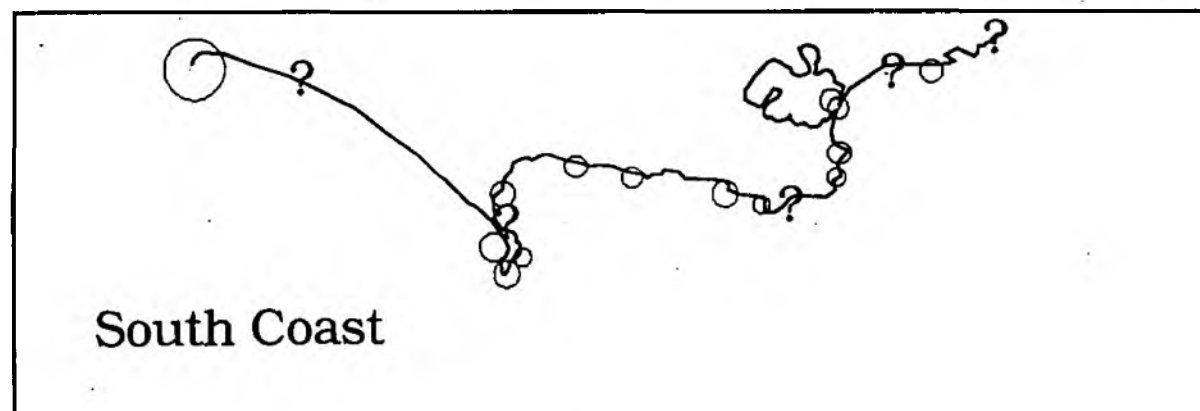
## Notes

Levels are in mg/kg dry weight

? = No data available

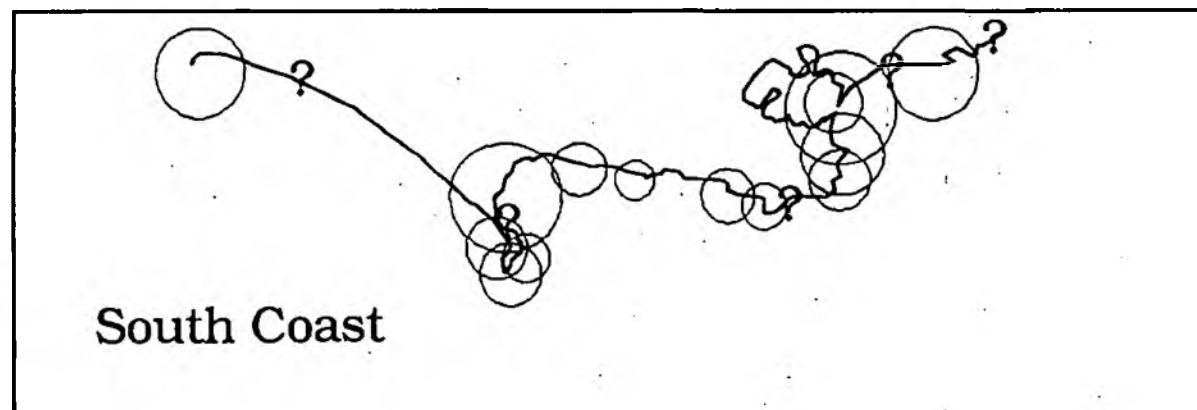
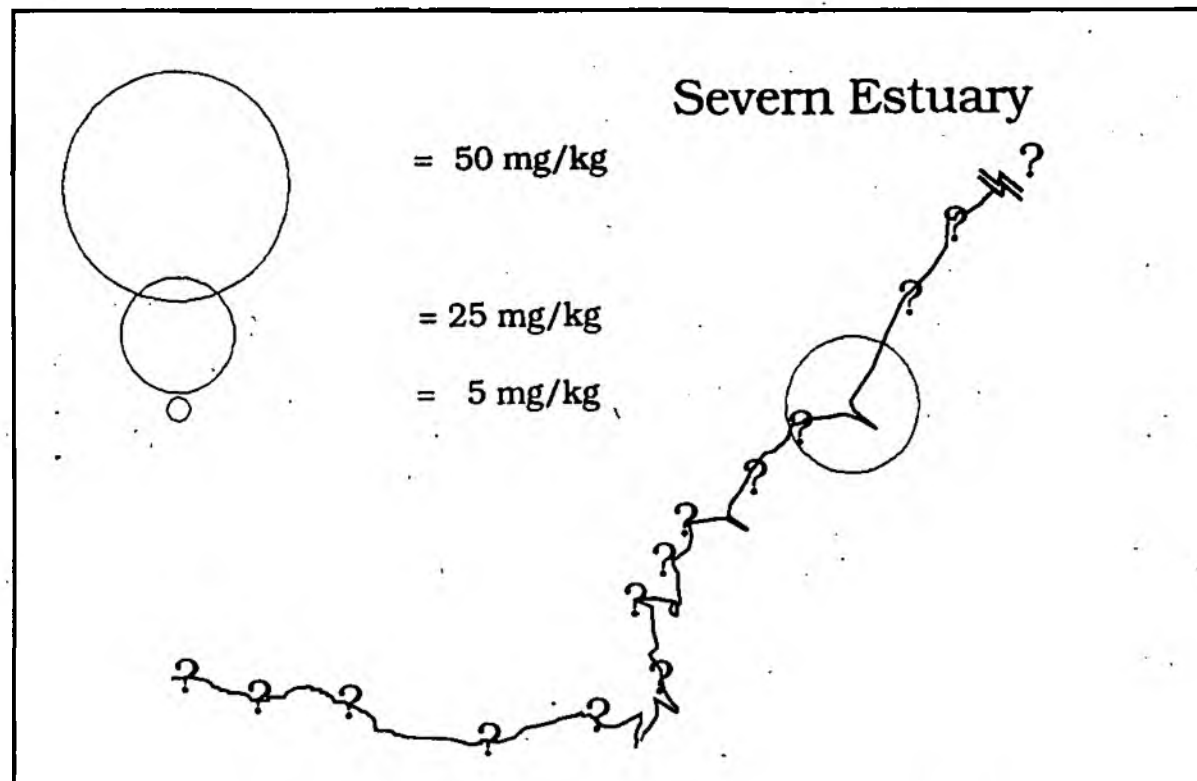
○ = Actual value

⬡ = Less than limit of detection



|                                                                                       |                                                                                                                          |
|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Job Title:                                                                            | Coastwatch Bio-accumulation Programme                                                                                    |
| Prepared by:                                                                          | S. J. White, Biology Laboratory,<br>NRA Wessex Region, Rivers House<br>Surrey Business Park,<br>Blandford Forum, Dorset. |
|  |                                                                                                                          |

# 1980 Furoid seaweeds Copper



## Notes

Levels are in mg/kg dry weight

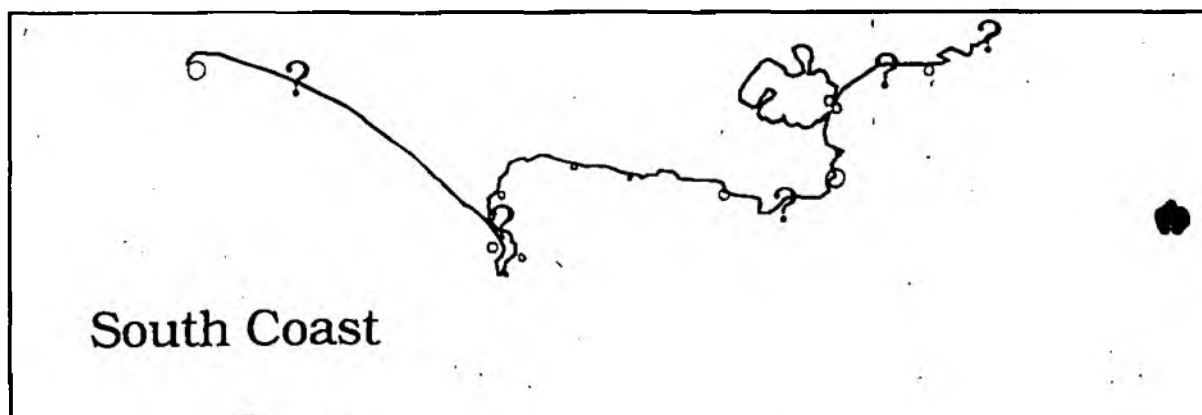
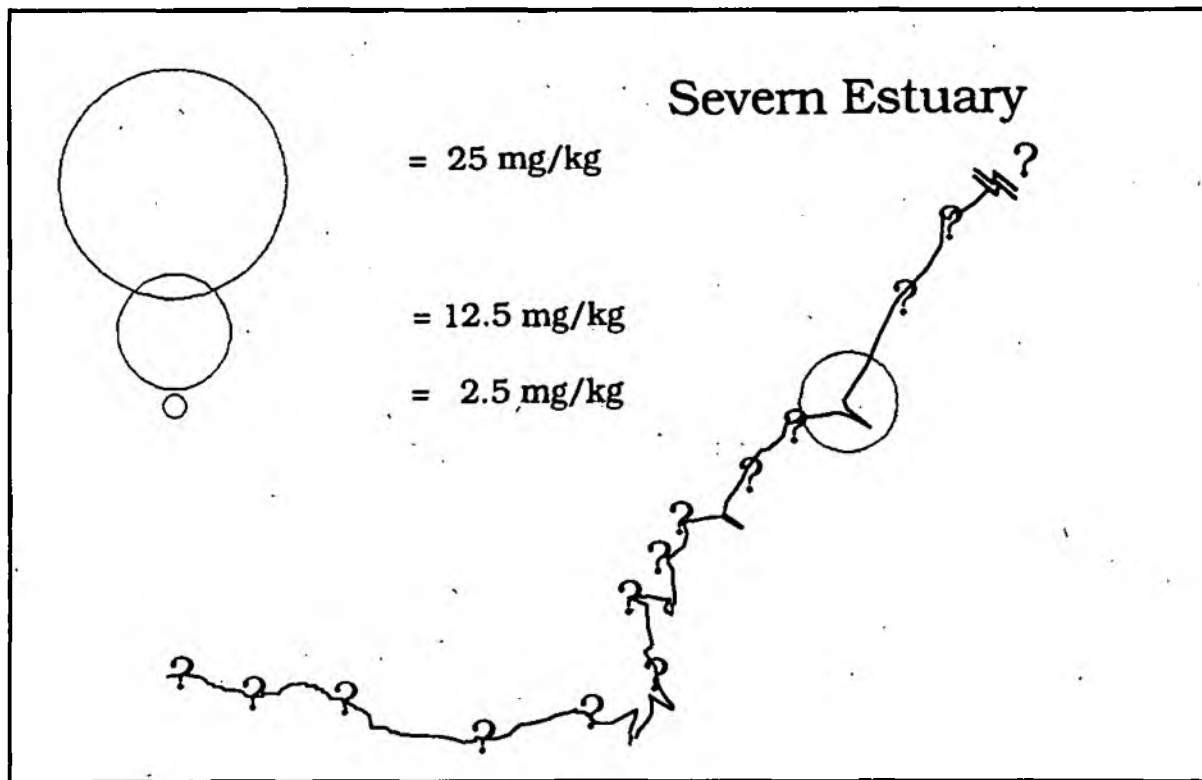
? = No data available

○ = Actual value

◻ = Less than limit of detection

|                                                                                       |                                                                                                                            |
|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Job Title:                                                                            | Contaminant Bio-accumulation Programme                                                                                     |
| Prepared by:                                                                          | S. J. White, Biology Laboratory,<br>NRA Wessex Region, Rivers House,<br>Sunrise Business Park,<br>Blandford Forum, Dorset. |
|  |                                                                                                                            |

# 1980 Fucoid seaweeds Cadmium



# Notes

Levels are in mg/kg dry weight

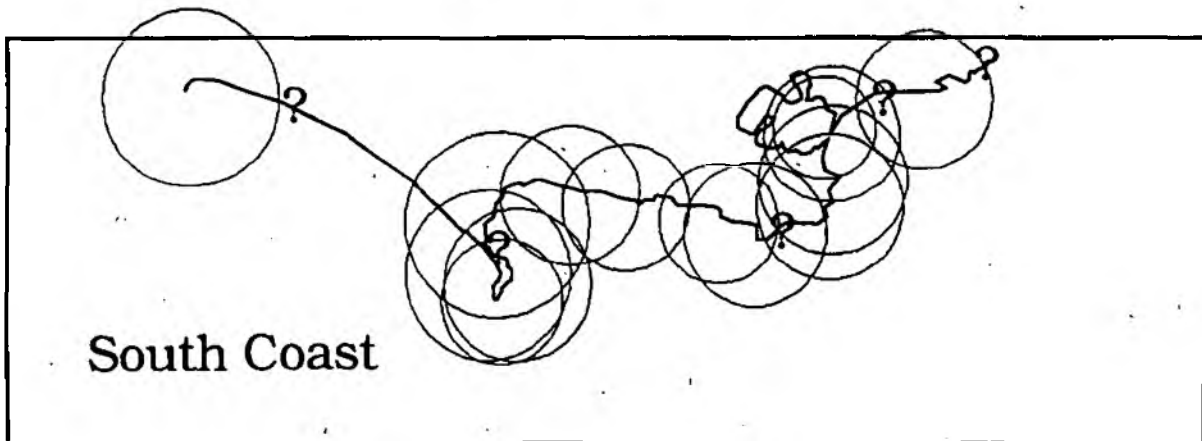
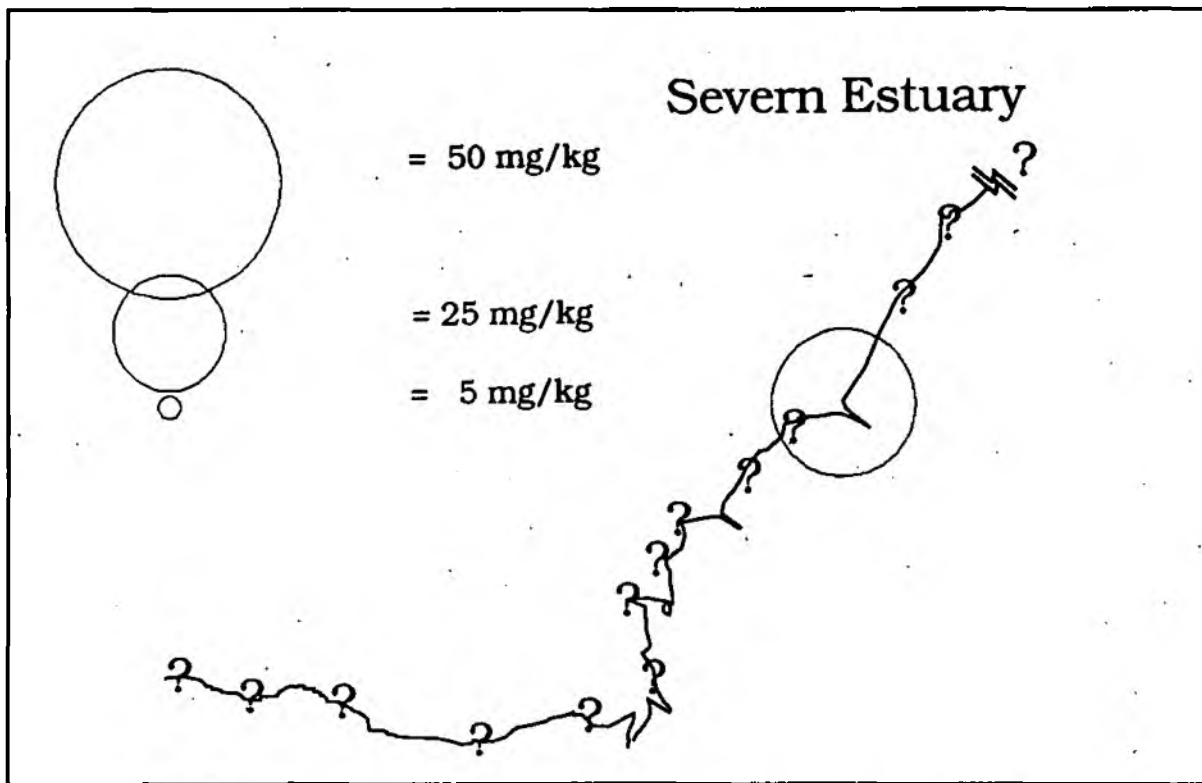
? = No data available

○ = Actual value

⬡ = Less than limit of detection

|                 |                                                                                                                            |
|-----------------|----------------------------------------------------------------------------------------------------------------------------|
| Job Title:      | Coastwatch Bio-accumulation<br>Programme                                                                                   |
| Prepared<br>by: | S. J. White, Biology Laboratory,<br>NRA Wessex Region, Rivers House<br>Survitec Business Park,<br>Blandford Forum, Dorset. |

## 1980 Fucoid seaweeds Lead



# Notes

Levels are in mg/kg dry weight

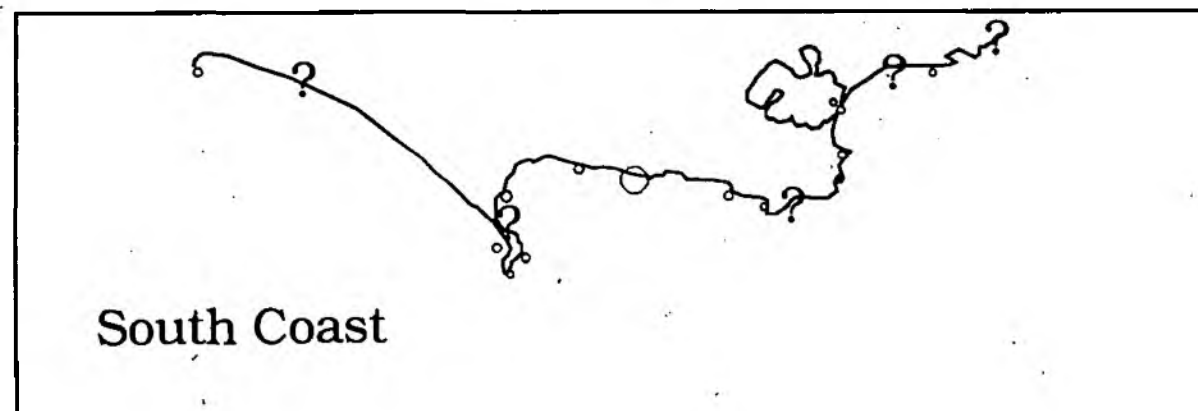
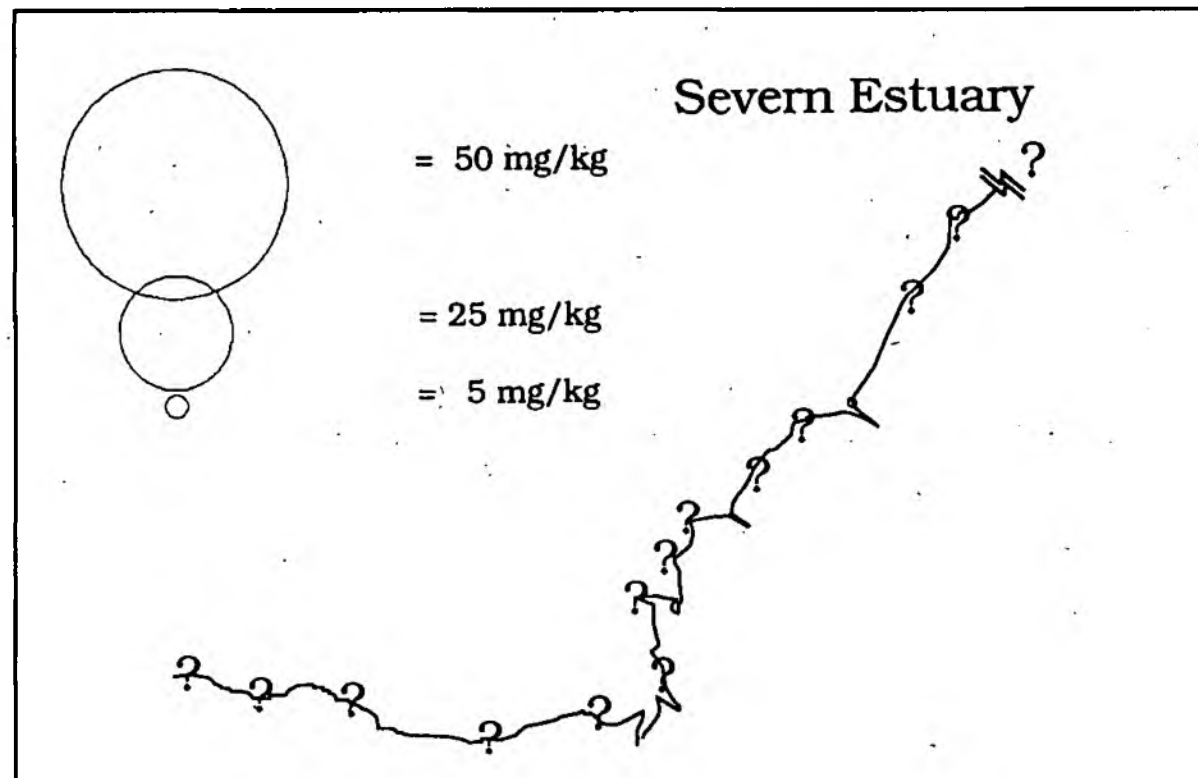
? = No data available

○ = Actual value

⬡ = Less than limit of detection

|              |                                                                                                                           |
|--------------|---------------------------------------------------------------------------------------------------------------------------|
| Job Title:   | Coastwatch Bio-accumulation Programme                                                                                     |
| Prepared by: | S. J. White, Biology Laboratory,<br>NRA Wessex Region, Rivers House<br>Sunrise Business Park,<br>Blandford Forum, Dorset. |

# 1980 Furoid seaweeds Chromium



## Notes

Levels are in mg/kg dry weight

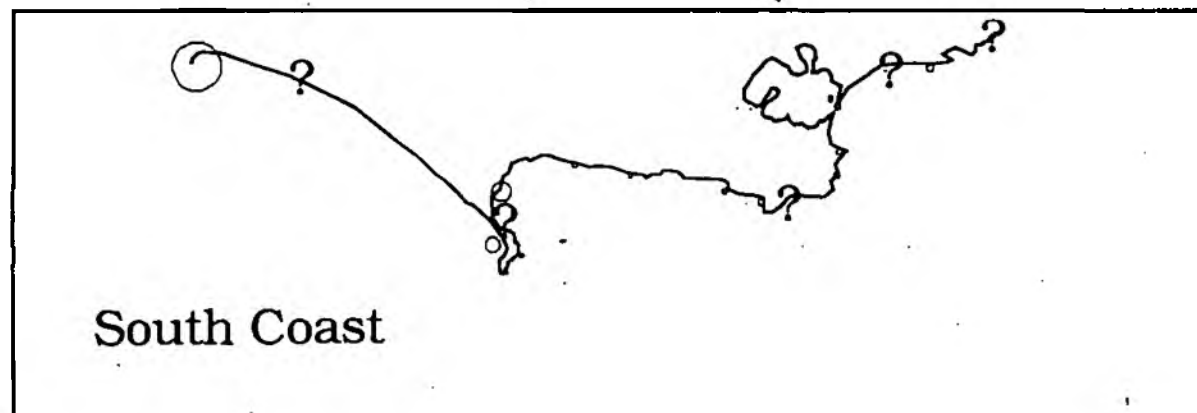
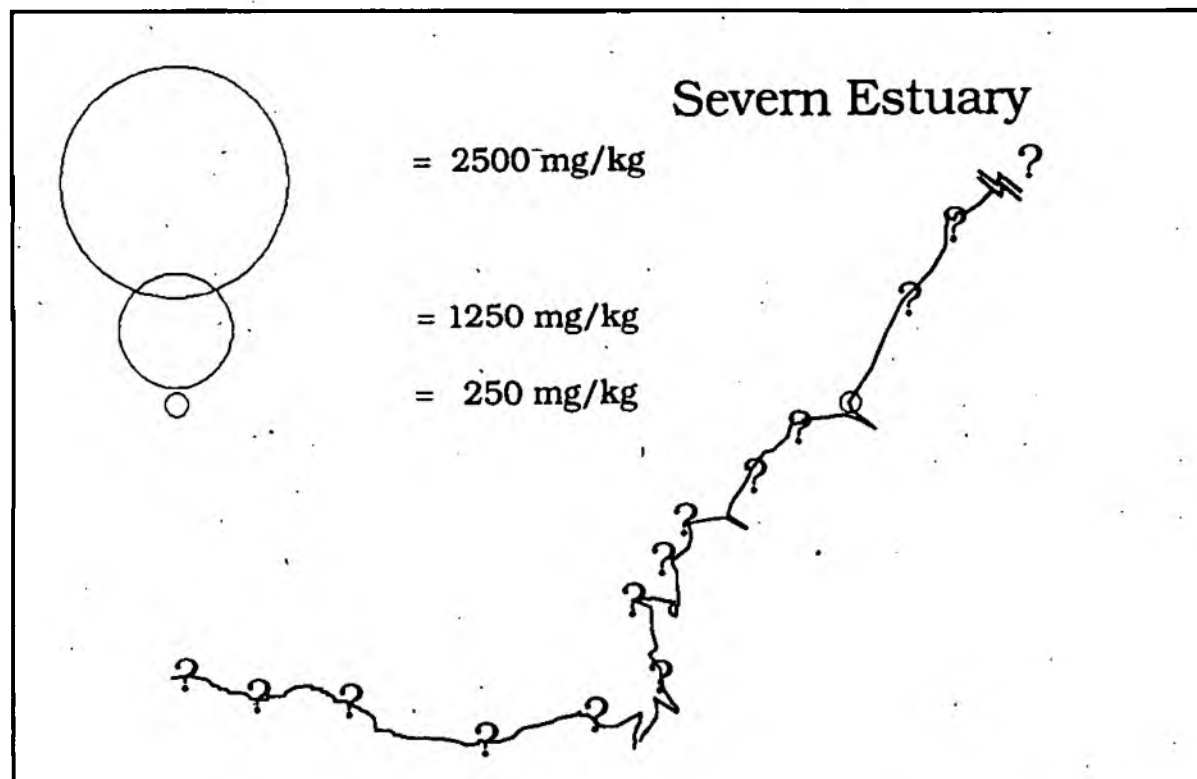
? = No data available

○ = Actual value

◻ = Less than limit of detection

|                                                                                       |                                                                                                                            |
|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Job Title:                                                                            | Coastwatch Bio-accumulation Programme                                                                                      |
| Prepared by:                                                                          | S. J. White, Biology Laboratory,<br>NRA Wessex Region, Rivers House,<br>Sunrise Business Park,<br>Blandford Forum, Dorset. |
|  |                                                                                                                            |

# 1980 Furoid seaweeds Zinc



## Notes

Levels are in mg/kg dry weight

? = No data available

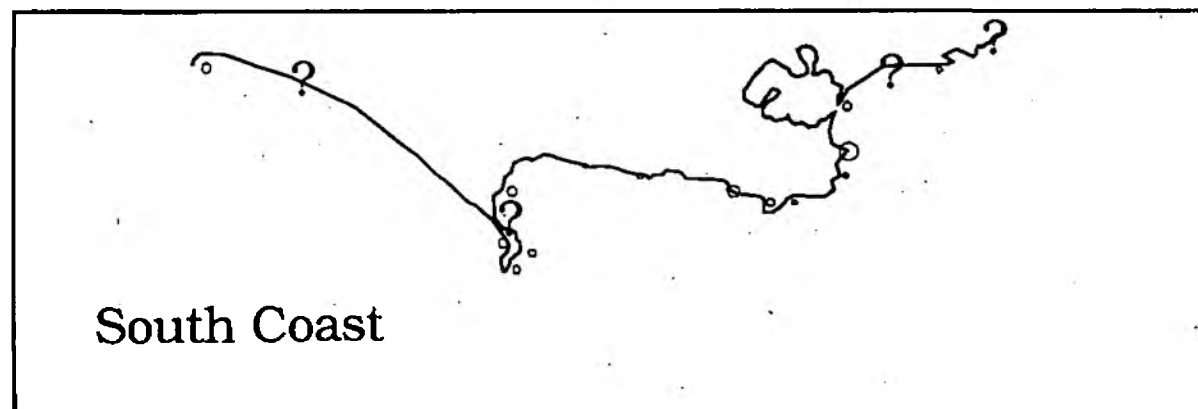
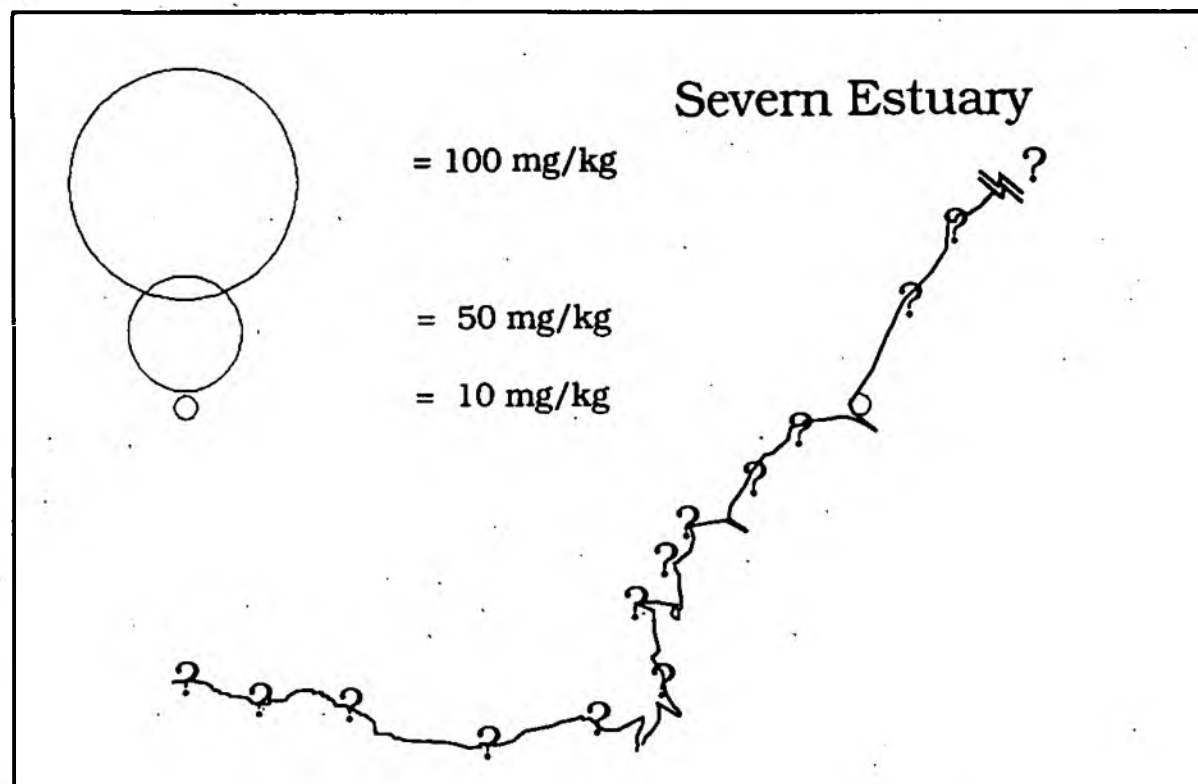
○ = Actual value

◻ = Less than limit of detection

|                                                                                       |                                                                                                                            |
|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Job Title:                                                                            | Coastwatch Bio-accumulation Programme                                                                                      |
| Prepared by:                                                                          | S. J. White, Biology Laboratory,<br>NRA Wessex Region, Rivers House,<br>Sunrise Business Park,<br>Blandford Forum, Dorset. |
|  |                                                                                                                            |



# 1980 *Patella vulgata* Nickel



## Notes

Levels are in mg/kg dry weight

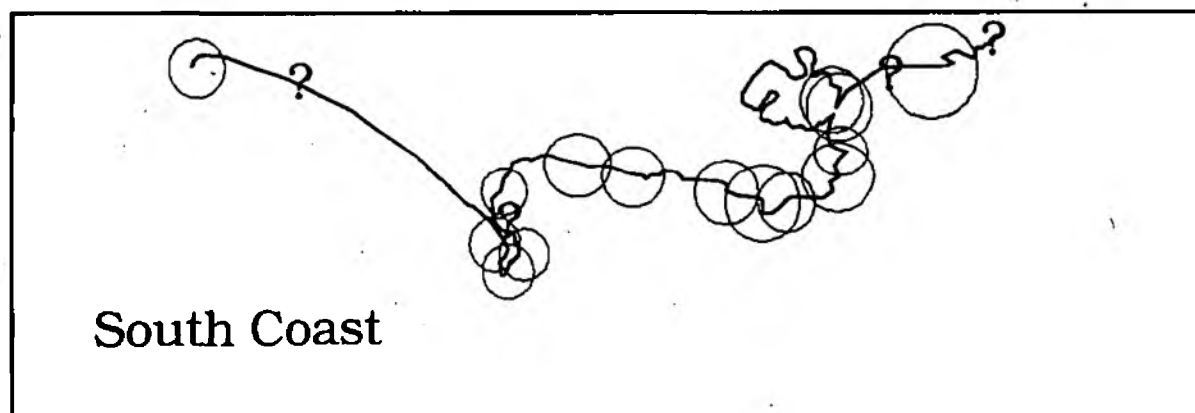
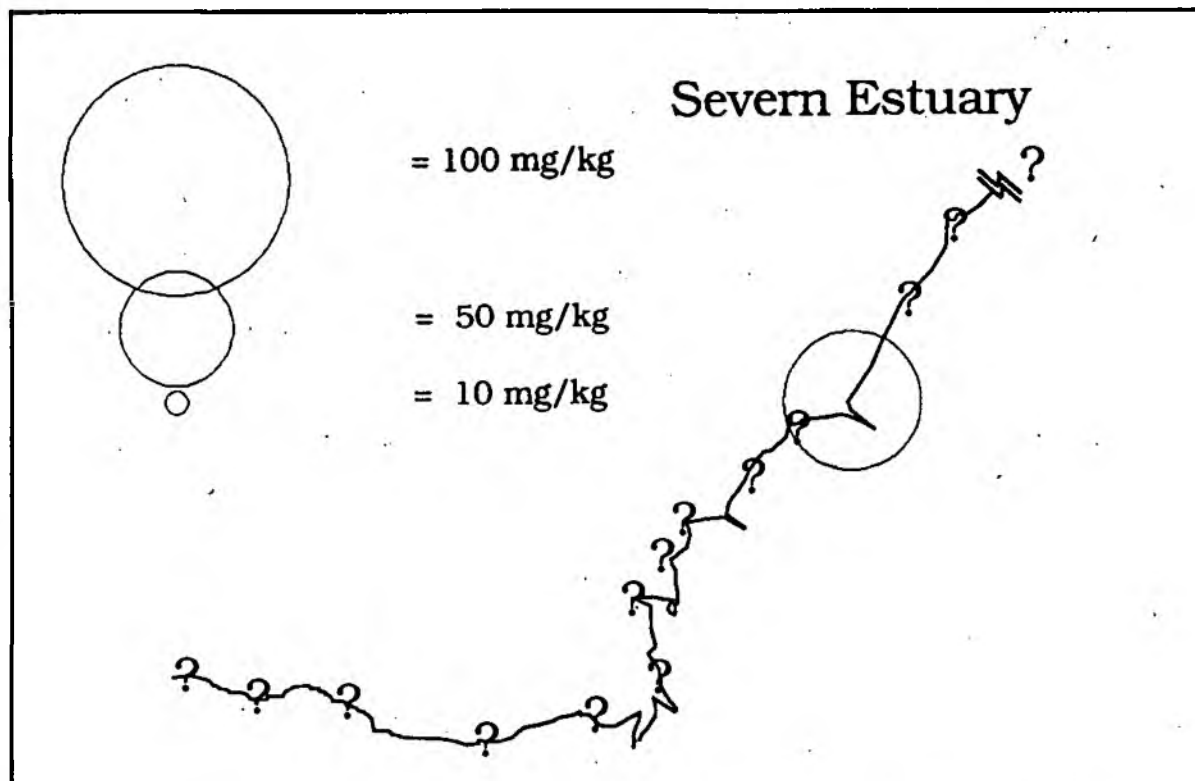
? = No data available

○ = Actual value

⬡ = Less than limit of detection

|                                                                                       |                                                                                                                            |
|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Job Title:                                                                            | Coastwatch Bio-accumulation Programme                                                                                      |
| Prepared by:                                                                          | S. J. White, Biology Laboratory,<br>NRA Wessex Region, Rivers House,<br>Sunrise Business Park,<br>Blandford Forum, Dorset. |
|  |                                                                                                                            |

# 1980 *Patella vulgata* Copper



## Notes

Levels are in mg/kg dry weight

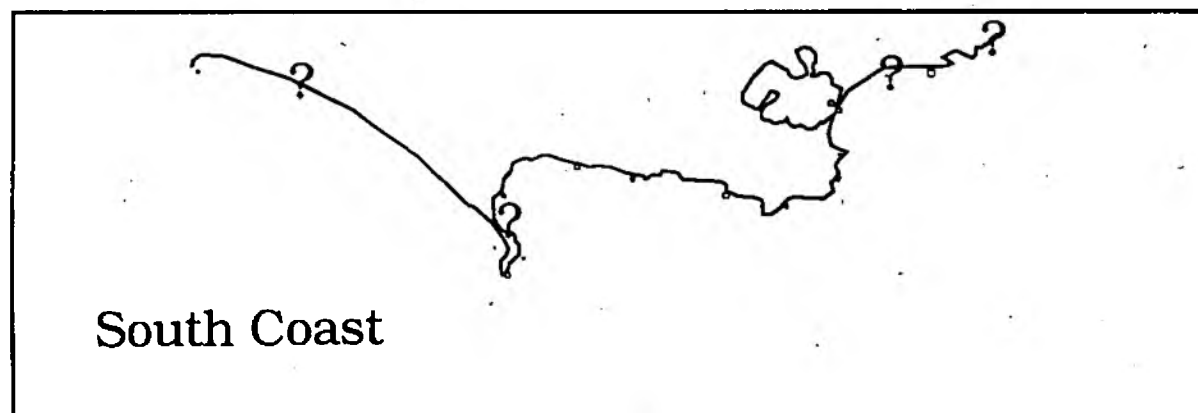
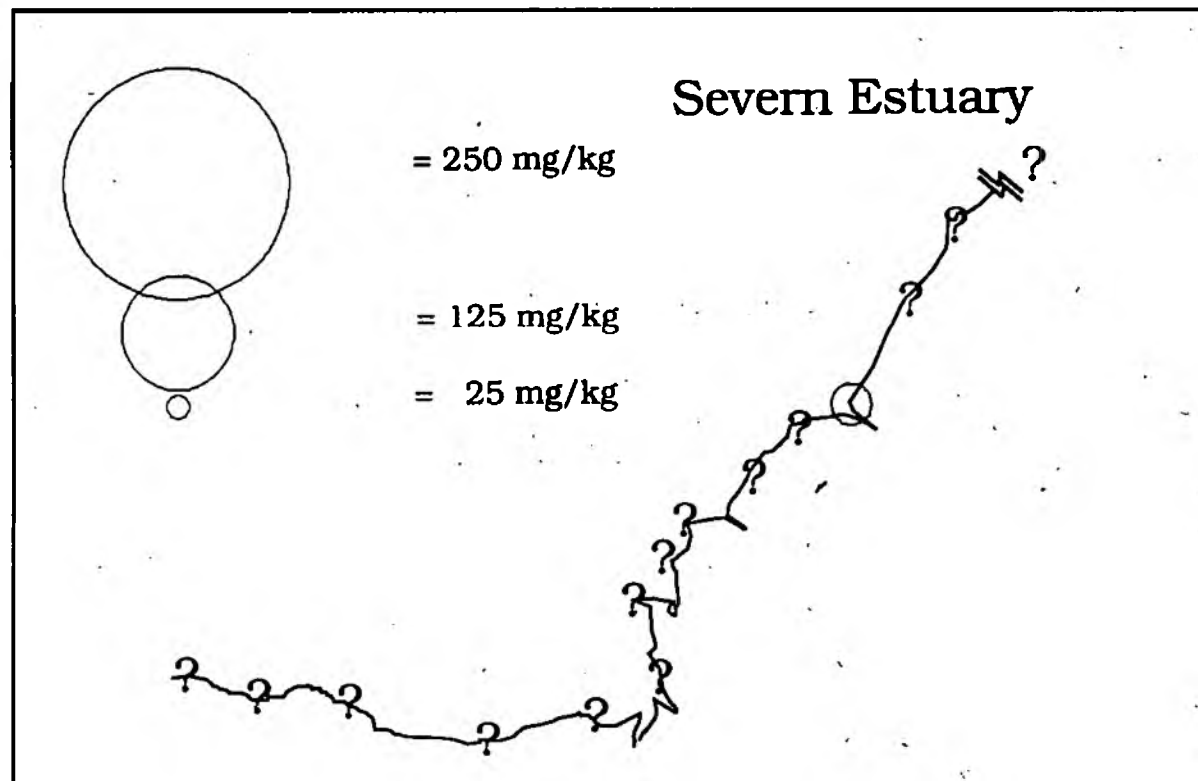
? = No data available

○ = Actual value

◻ = Less than limit of detection

|                                                                                       |                                                                                                                            |
|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Job Title:                                                                            | Cumulative Bio-accumulation Programme                                                                                      |
| Prepared by:                                                                          | S. J. White, Biology Laboratory,<br>NRA Wessex Region, Rivers House,<br>Sunrise Business Park,<br>Blandford Forum, Dorset. |
|  |                                                                                                                            |

# 1980 *Patella vulgata* Cadmium



## Notes

Levels are in mg/kg dry weight

? = No data available

○ = Actual value

⬡ = Less than limit of detection

|                                                                                       |                                                                                                                            |
|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Job Title:                                                                            | Coastwatch Bio-accumulation Programme                                                                                      |
| Prepared by:                                                                          | S. J. White, Biology Laboratory,<br>NRA Wessex Region, Rivers House,<br>Sunrise Business Park,<br>Blandford Forum, Dorset. |
|  |                                                                                                                            |

# 1980 *Patella vulgata* Lead

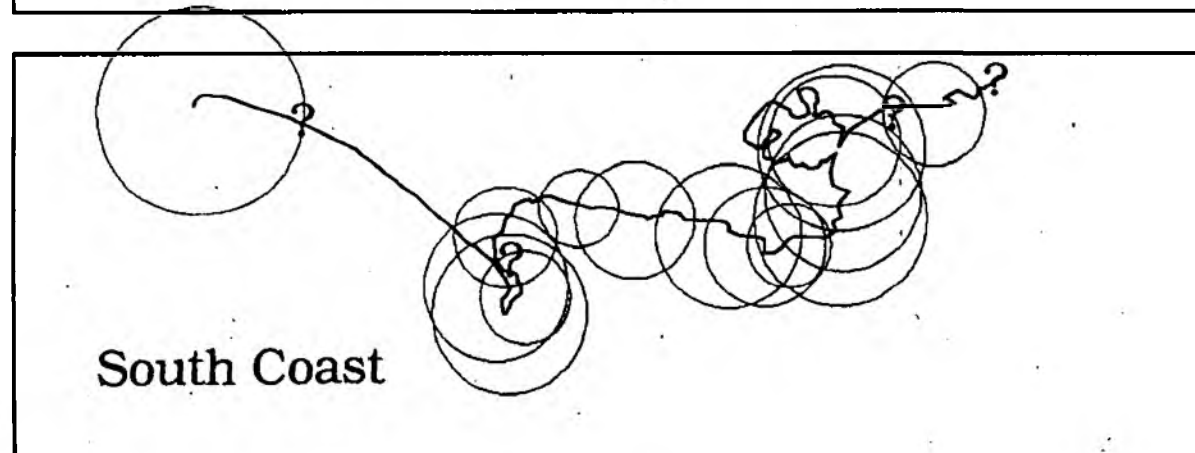
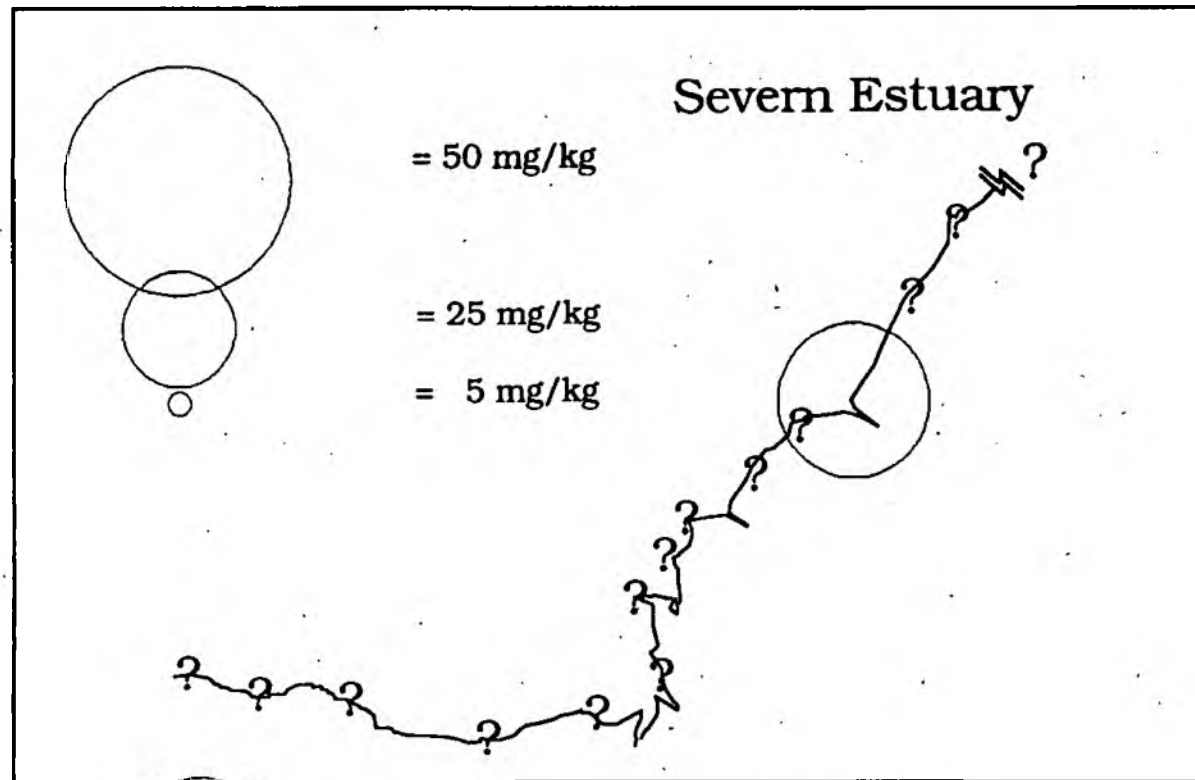
## Notes

Levels are in mg/kg dry weight

? = No data available

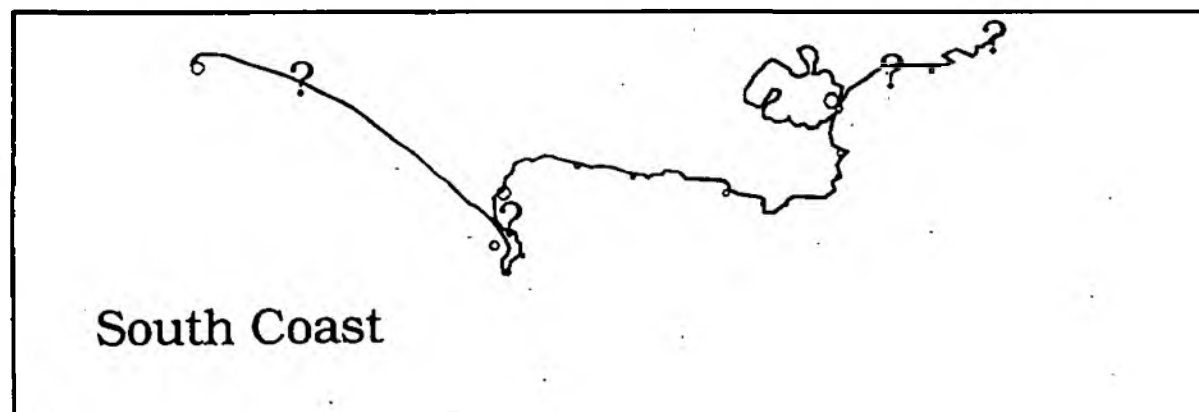
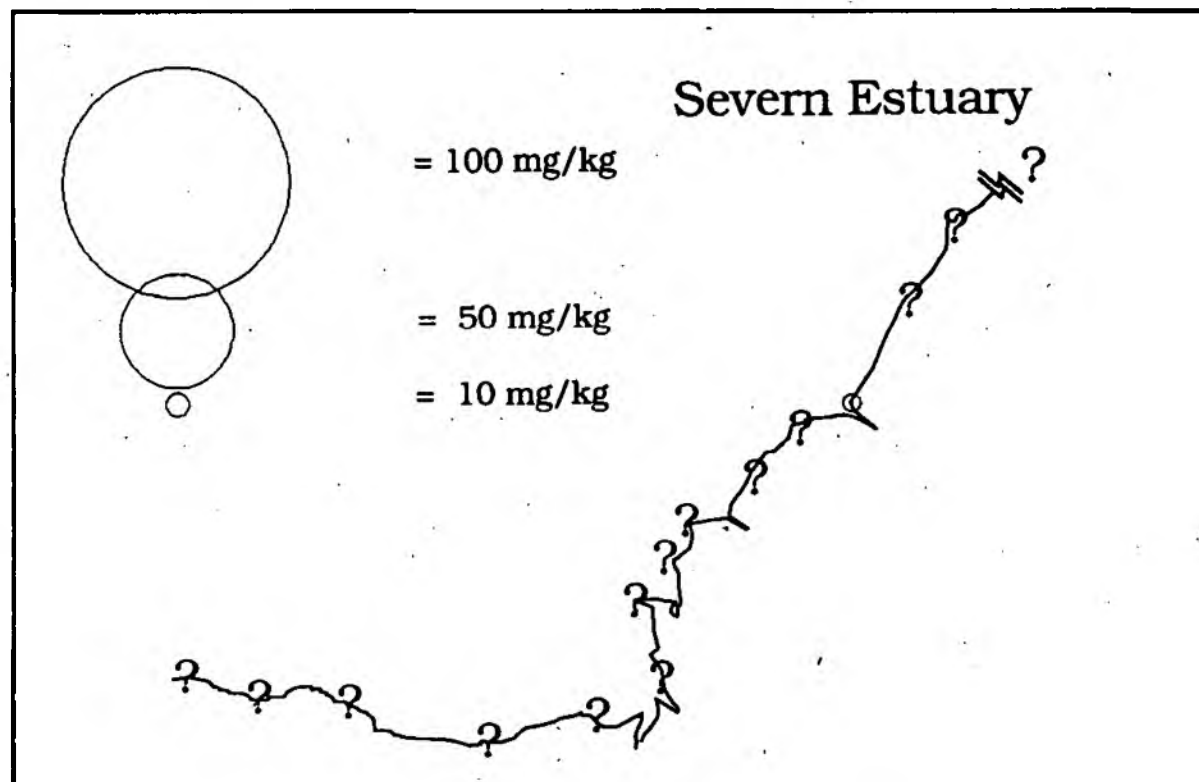
○ = Actual value

◻ = Less than limit of detection



|                                                                                       |                                                                                                                            |
|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Job Title:                                                                            | Coastwatch Bio-accumulation Programme                                                                                      |
| Prepared by:                                                                          | S. J. White, Biology Laboratory,<br>NRA Wexham Ridge, Rivers House,<br>Surprise Business Park,<br>Blandford Forum, Dorset. |
|  |                                                                                                                            |

# 1980 *Patella vulgata* Chromium



## Notes

Levels are in mg/kg dry weight

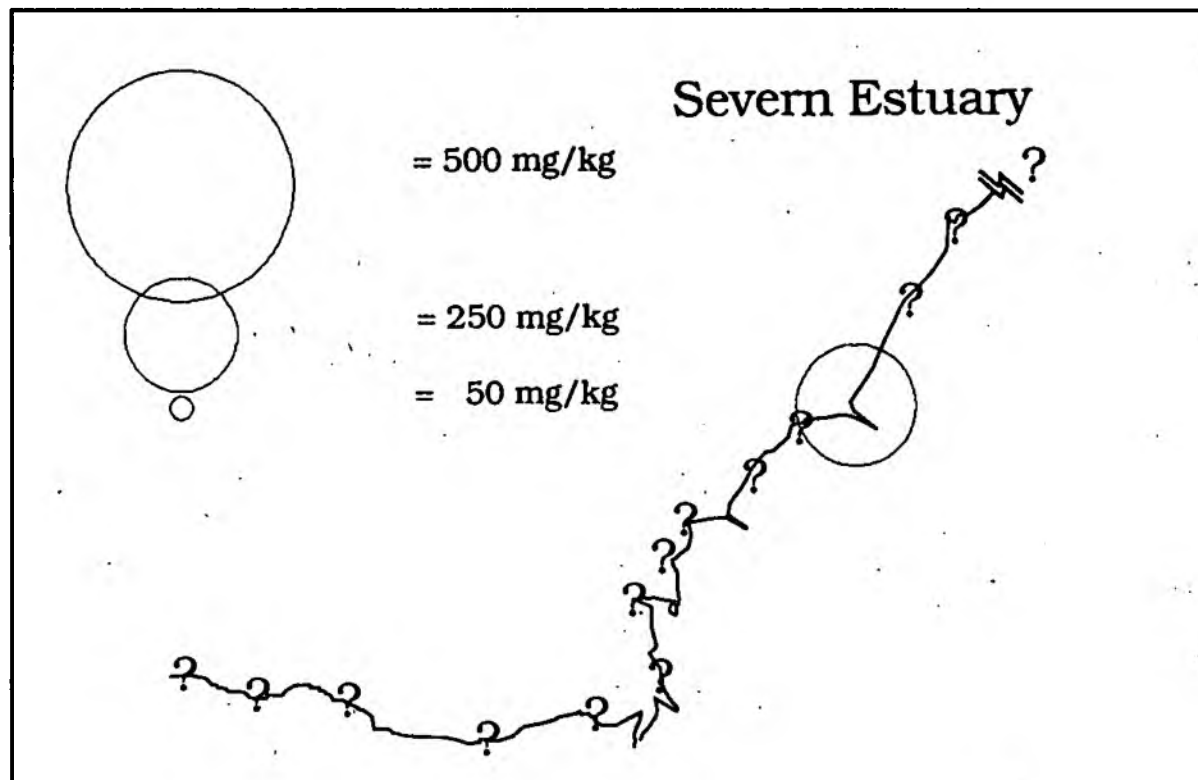
? = No data available

○ = Actual value

◻ = Less than limit of detection

|                                                                                       |                                                                                                                            |
|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Job Title:                                                                            | Coastwatch Bio-accumulation Programme                                                                                      |
| Prepared by:                                                                          | S. J. White, Biology Laboratory,<br>NRA Wessex Region, Rivers House,<br>Sunrise Business Park,<br>Blandford Forum, Dorset. |
|  |                                                                                                                            |

# 1980 *Patella vulgata* Zinc



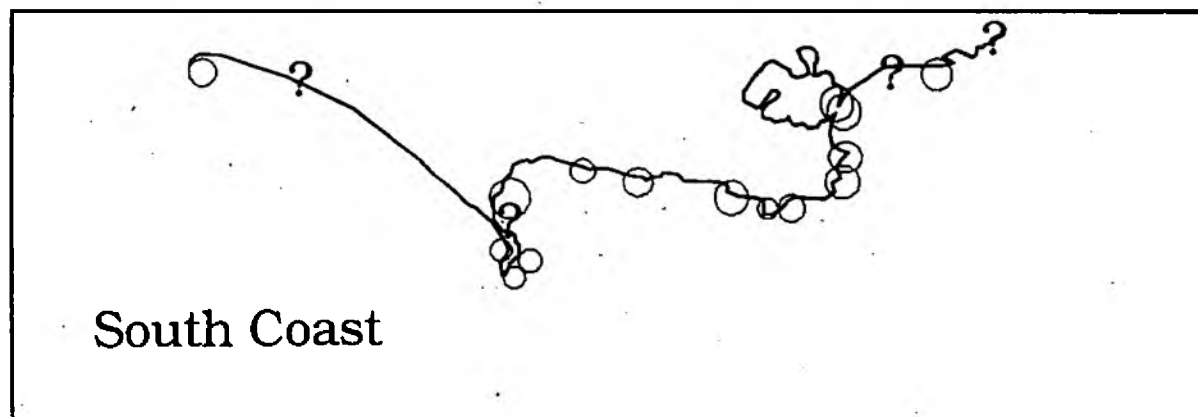
## Notes

Levels are in mg/kg dry weight

? = No data available

○ = Actual value

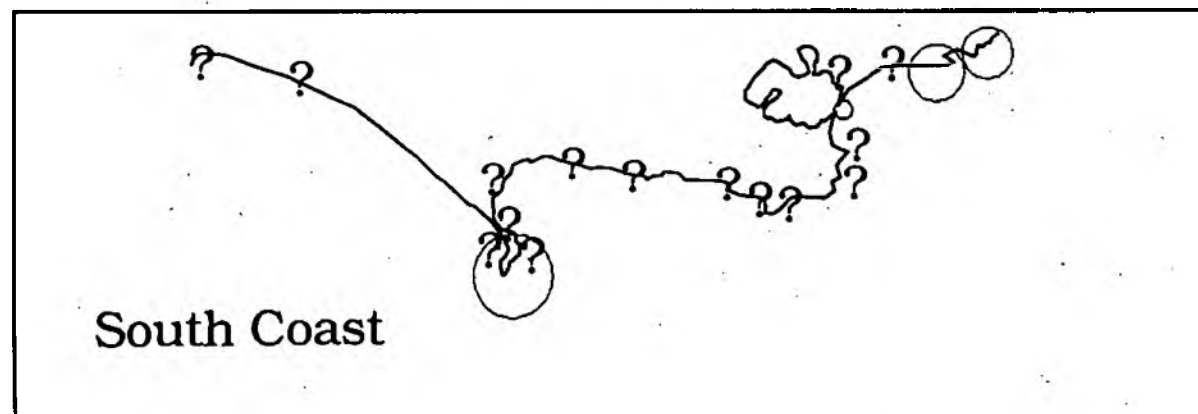
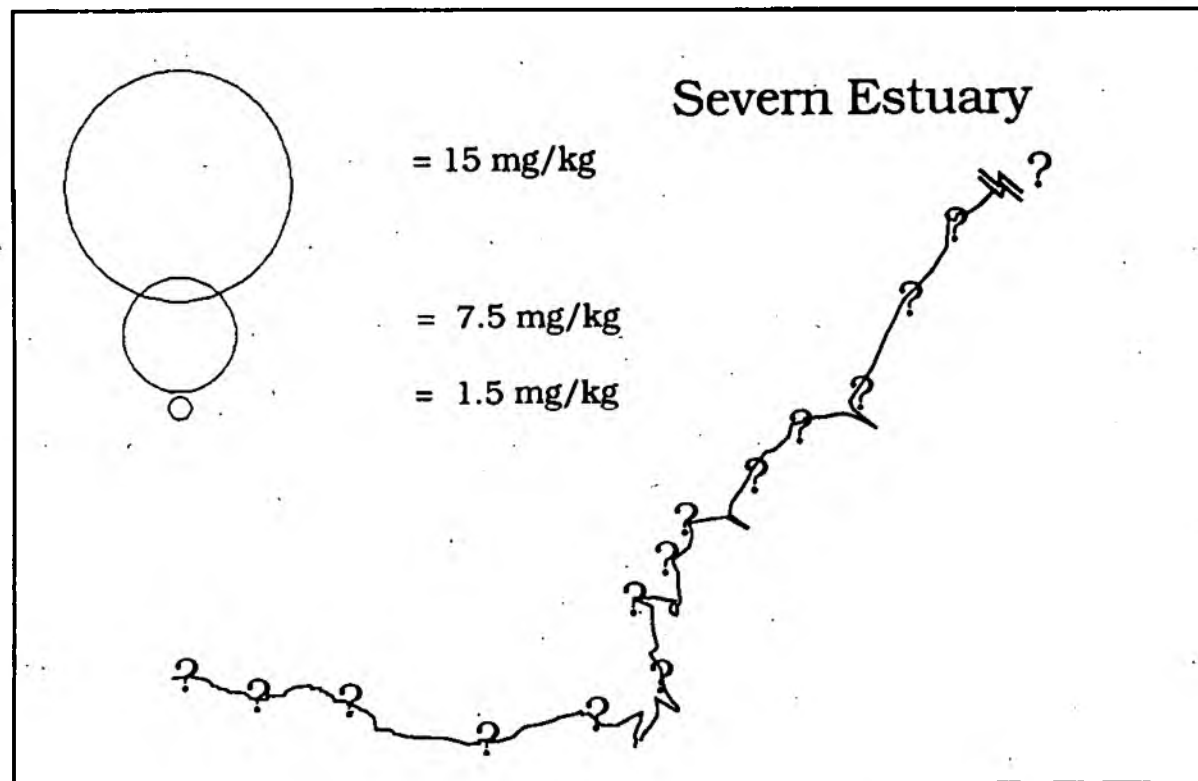
⬡ = Less than limit of detection



|              |                                                                                                                            |
|--------------|----------------------------------------------------------------------------------------------------------------------------|
| Job Title:   | Coastwatch Bio-accumulation Programme                                                                                      |
| Prepared by: | S. J. White, Biology Laboratory,<br>NRA Wessex Region, Rivers House,<br>Sunrise Business Park,<br>Blandford Forum, Dorset. |



# 1980 *Mytilus edulis* Nickel



## Notes

Levels are in mg/kg dry weight

? = No data available

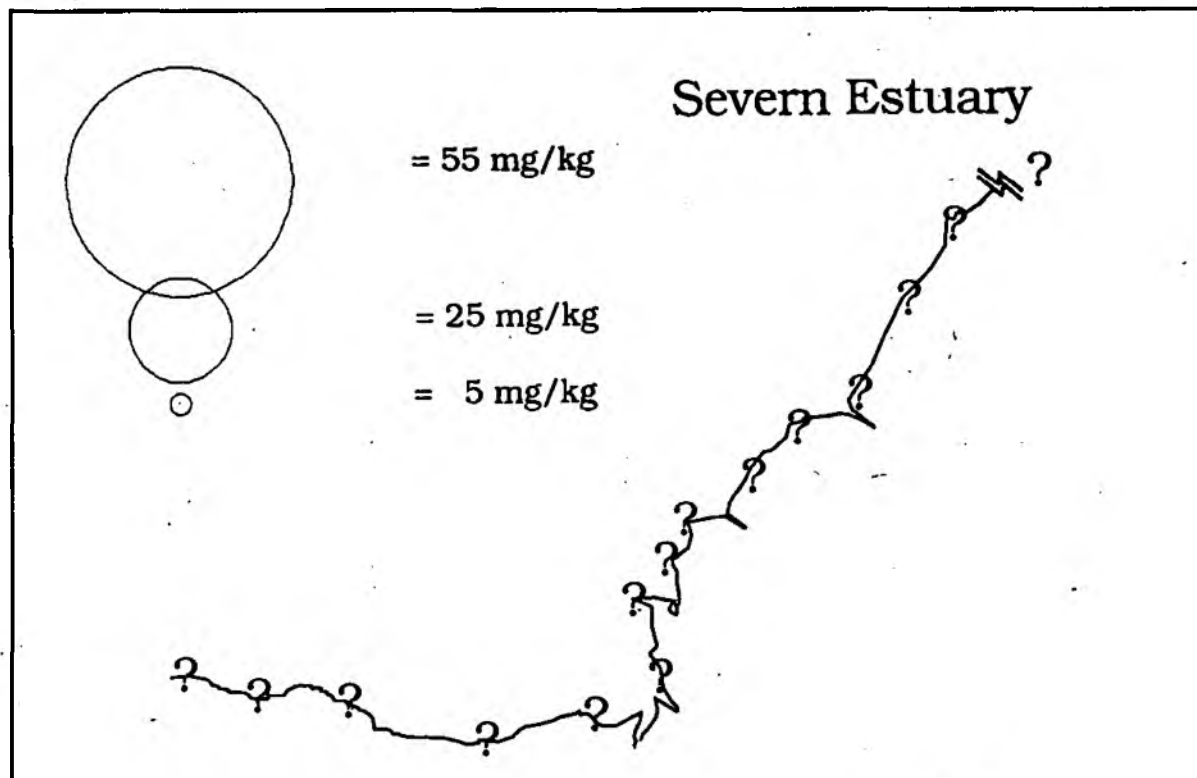
○ = Actual value

⬡ = Less than limit of detection

|                                                                                       |                                                                                                                            |
|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Job Title:                                                                            | Coastwatch Bio-accumulation Programme                                                                                      |
| Prepared by:                                                                          | S. J. White, Biology Laboratory,<br>NRA Wessex Region, Rivers House,<br>Sunrise Business Park,<br>Blandford Forum, Dorset. |
|  |                                                                                                                            |



# 1980 *Mytilus edulis* Copper



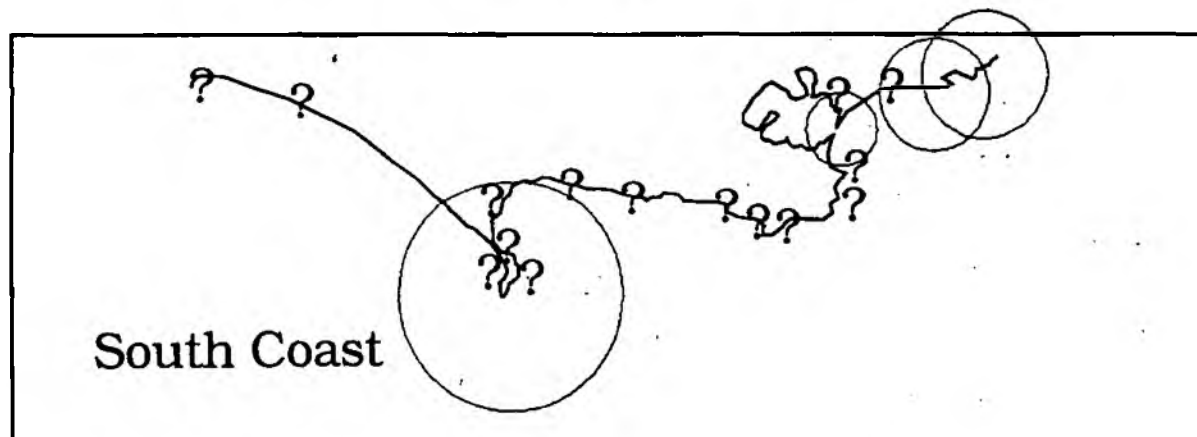
## Notes

Levels are in mg/kg dry weight

? = No data available

○ = Actual value

⬡ = Less than limit of detection



|              |                                                                                                                            |
|--------------|----------------------------------------------------------------------------------------------------------------------------|
| Job Title:   | Coastwatch Bio-accumulation Programme                                                                                      |
| Prepared by: | S. J. White, Biology Laboratory,<br>NRA Wessex Region, Rivers House,<br>Sunrise Business Park,<br>Blandford Forum, Dorset. |

# 1980 *Mytilus edulis* Cadmium

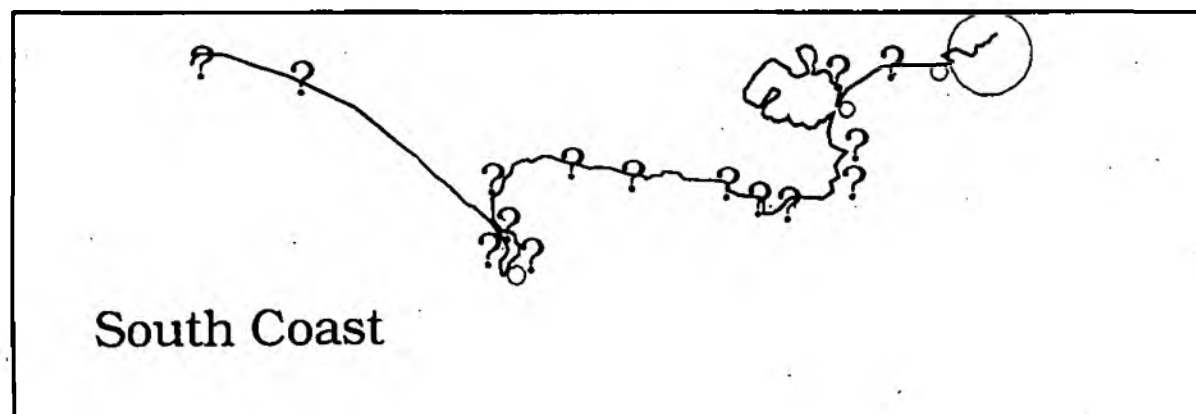
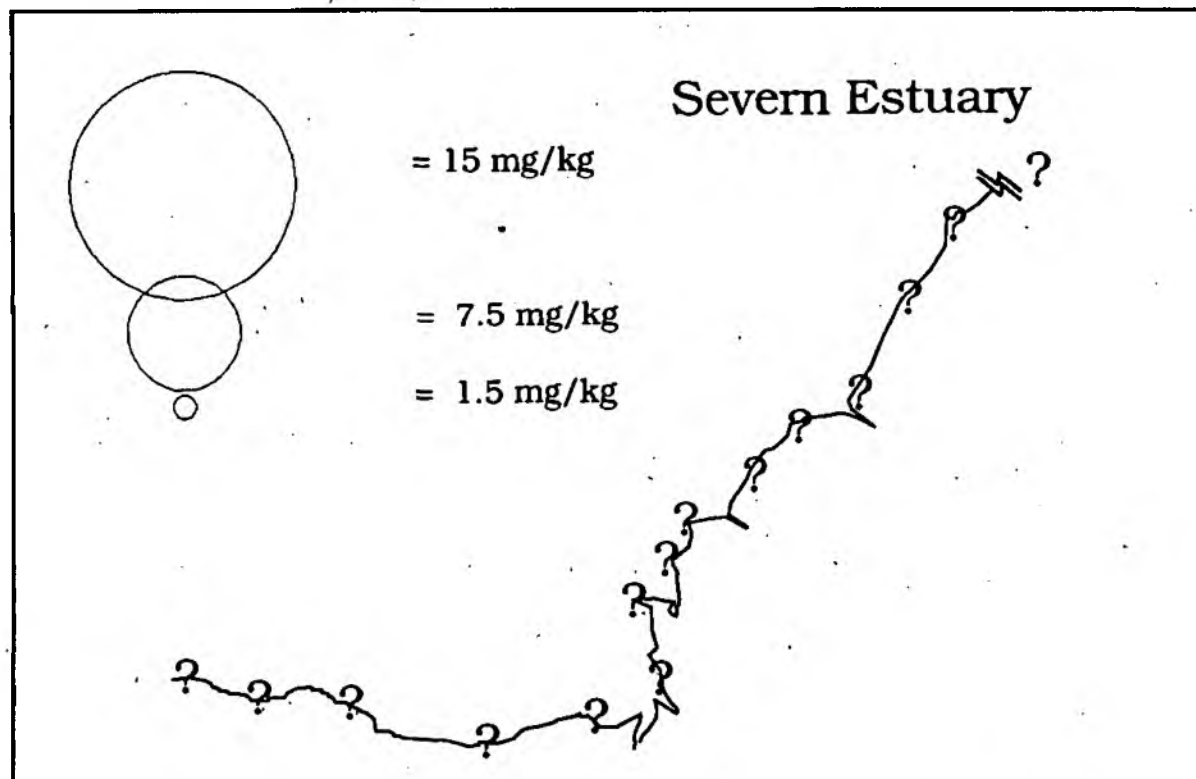
## Notes

Levels are in mg/kg dry weight

? = No data available

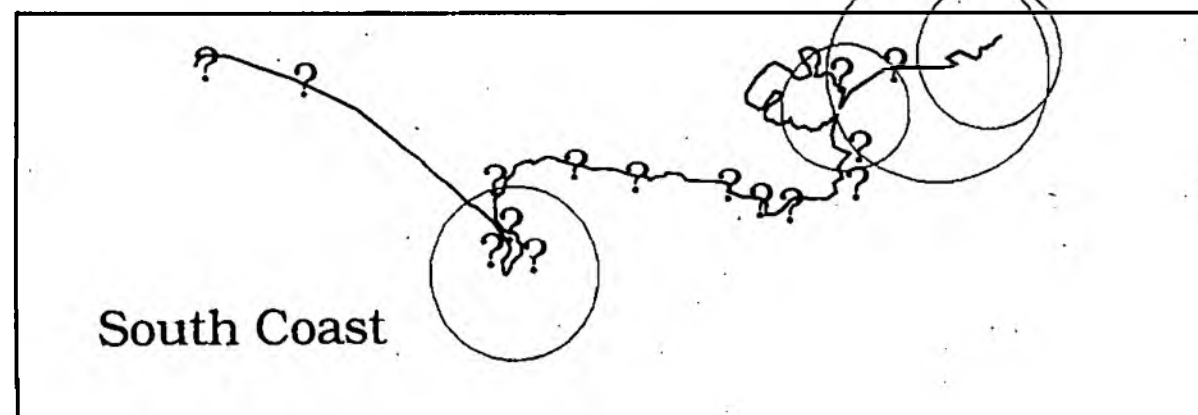
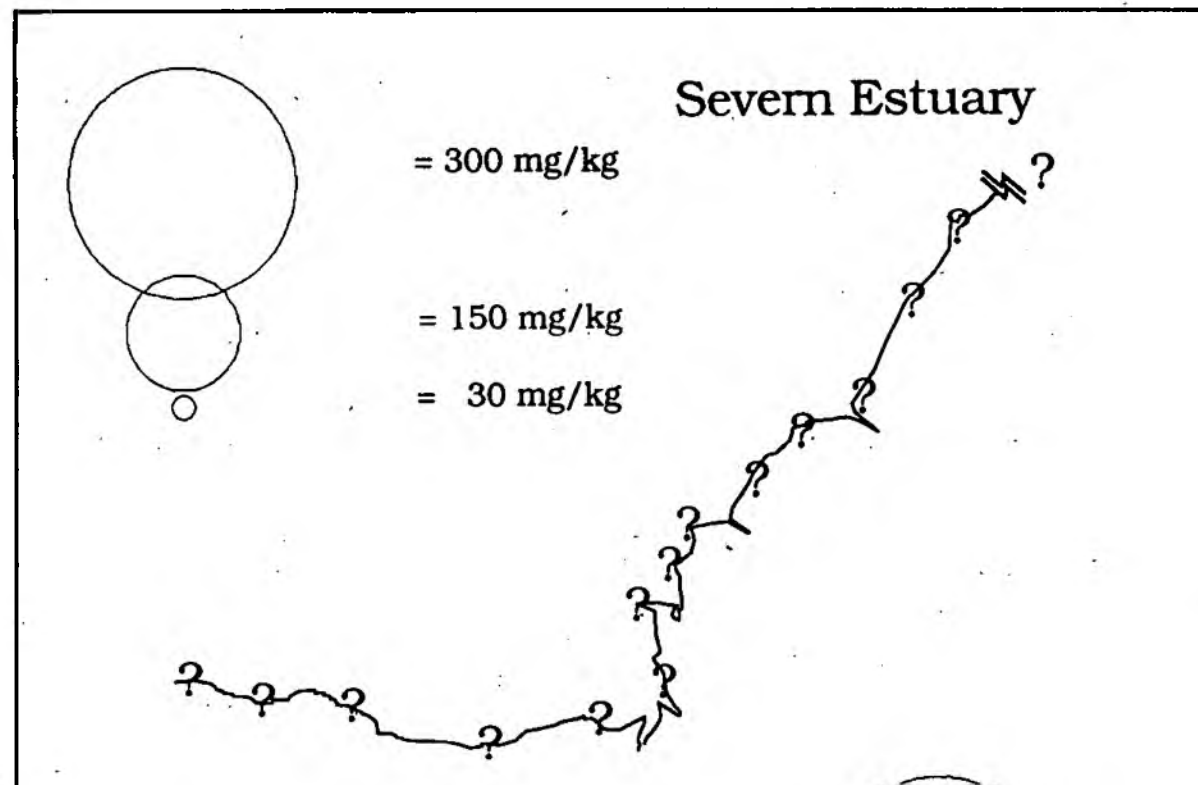
○ = Actual value

⬡ = Less than limit of detection



|              |                                                                                                                            |
|--------------|----------------------------------------------------------------------------------------------------------------------------|
| Job Title:   | Coastwatch Bio-accumulation Programme                                                                                      |
| Prepared by: | S. J. White, Biology Laboratory,<br>NRA Wessex Region, Rivers House,<br>Sunrise Business Park,<br>Blandford Forum, Dorset. |
| NRA          |                                                                                                                            |

# 1980 *Mytilus edulis* Zinc



## Notes

Levels are in mg/kg dry weight

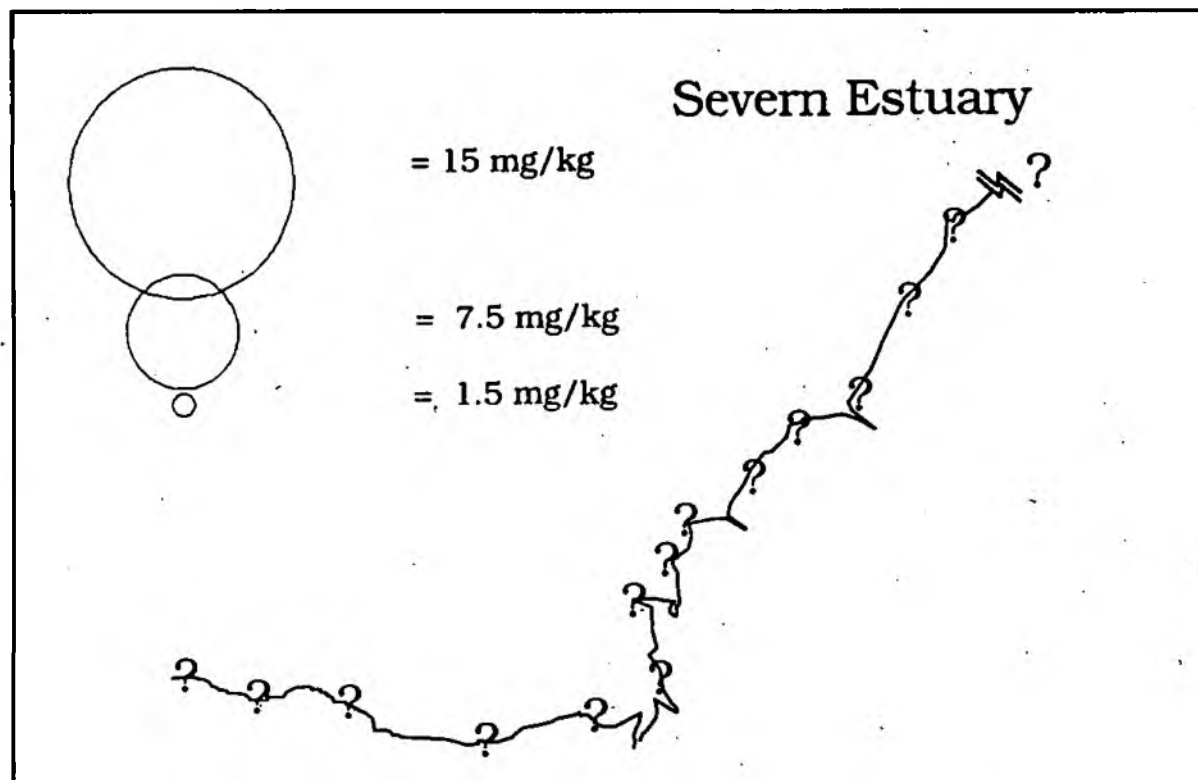
? = No data available

○ = Actual value

⬡ = Less than limit of detection

|                                                                                       |                                                                                                                            |
|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Job Title:                                                                            | Coastwatch Bio-accumulation Programme                                                                                      |
| Prepared by:                                                                          | S. J. White, Biology Laboratory,<br>NRA Wessex Region, Rivers House,<br>Sunrise Business Park,<br>Blandford Forum, Dorset. |
|  |                                                                                                                            |

# 1980 *Mytilus edulis* Chromium



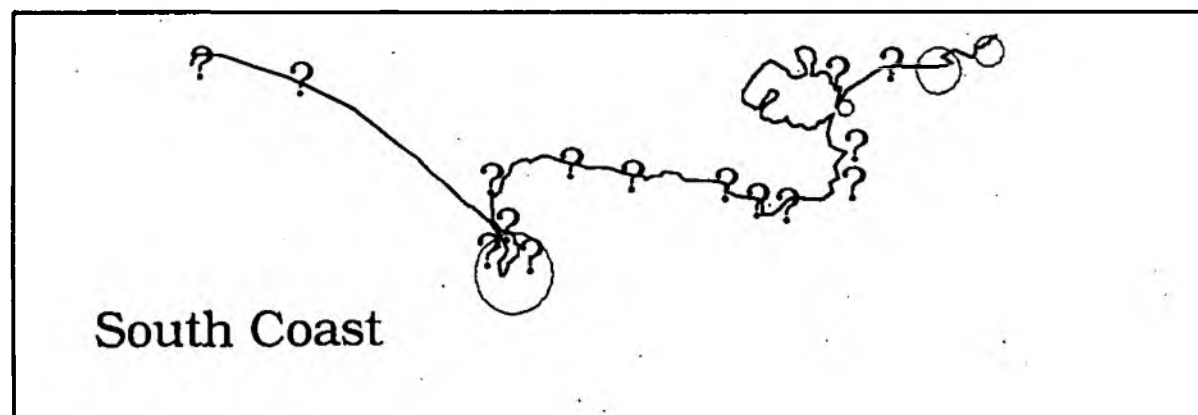
## Notes

Levels are in mg/kg dry weight

? = No data available

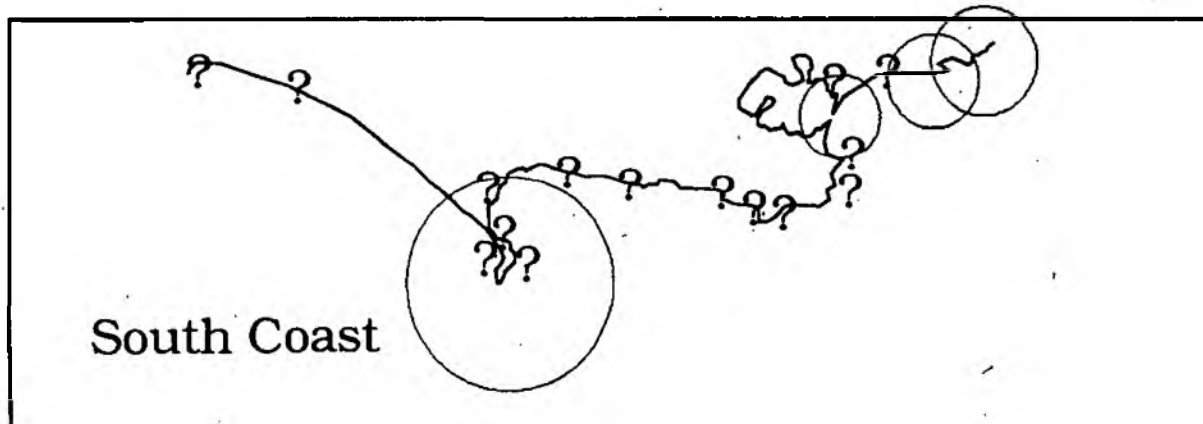
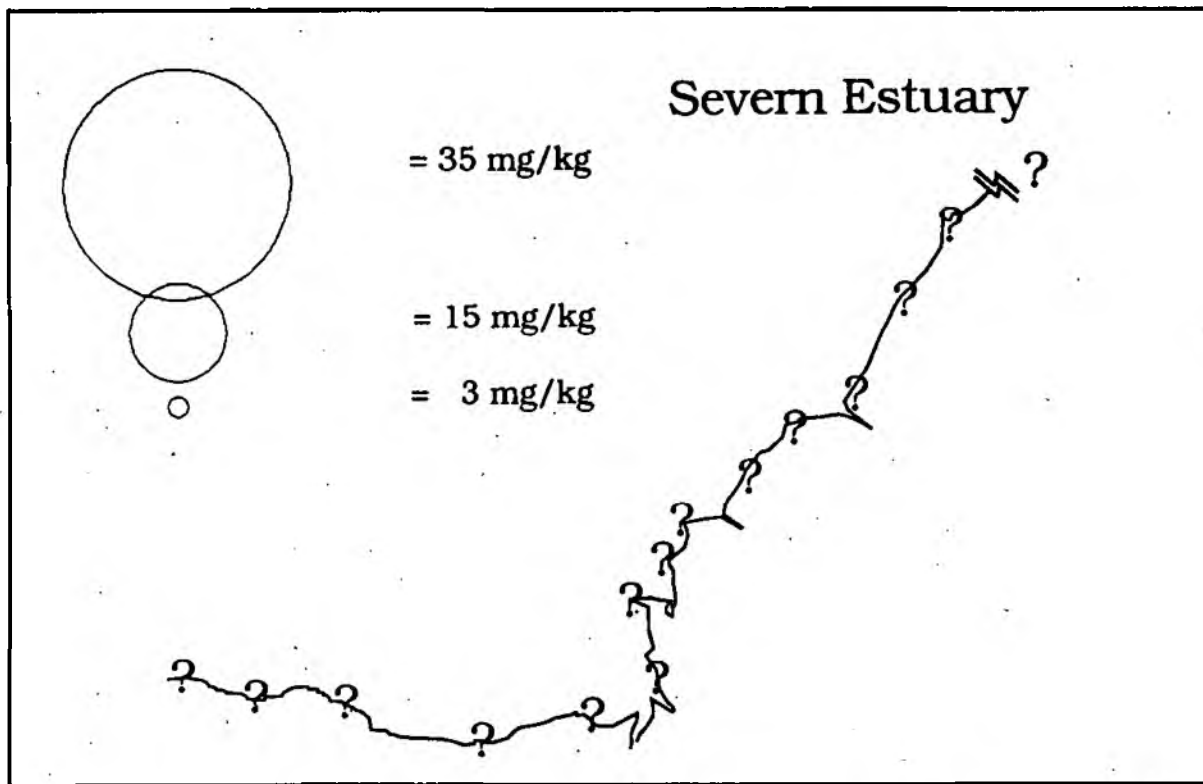
○ = Actual value

⬡ = Less than limit of detection



|                                                                                       |                                                                                                                            |
|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Job Title:                                                                            | Coastwatch Bio-accumulation Programme                                                                                      |
| Prepared by:                                                                          | S. J. White, Biology Laboratory,<br>NRA Wessex Region, Rivers House,<br>Sunrise Business Park,<br>Blandford Forum, Dorset. |
|  |                                                                                                                            |

1980 *Mytilus edulis* Lead



# Notes

Levels are in mg/kg dry weight

? = No data available

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⬡ = Less than limit of detection

|                                                                                     |                                                                                                                          |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Job Title:                                                                          | Coastwatch Bio-accumulation Programme                                                                                    |
| Prepared by:                                                                        | S. J. White, Biology Laboratory,<br>NRA Wessex Region, Rivers House<br>Surrey Business Park,<br>Blandford Forum, Dorset. |
|  |                                                                                                                          |