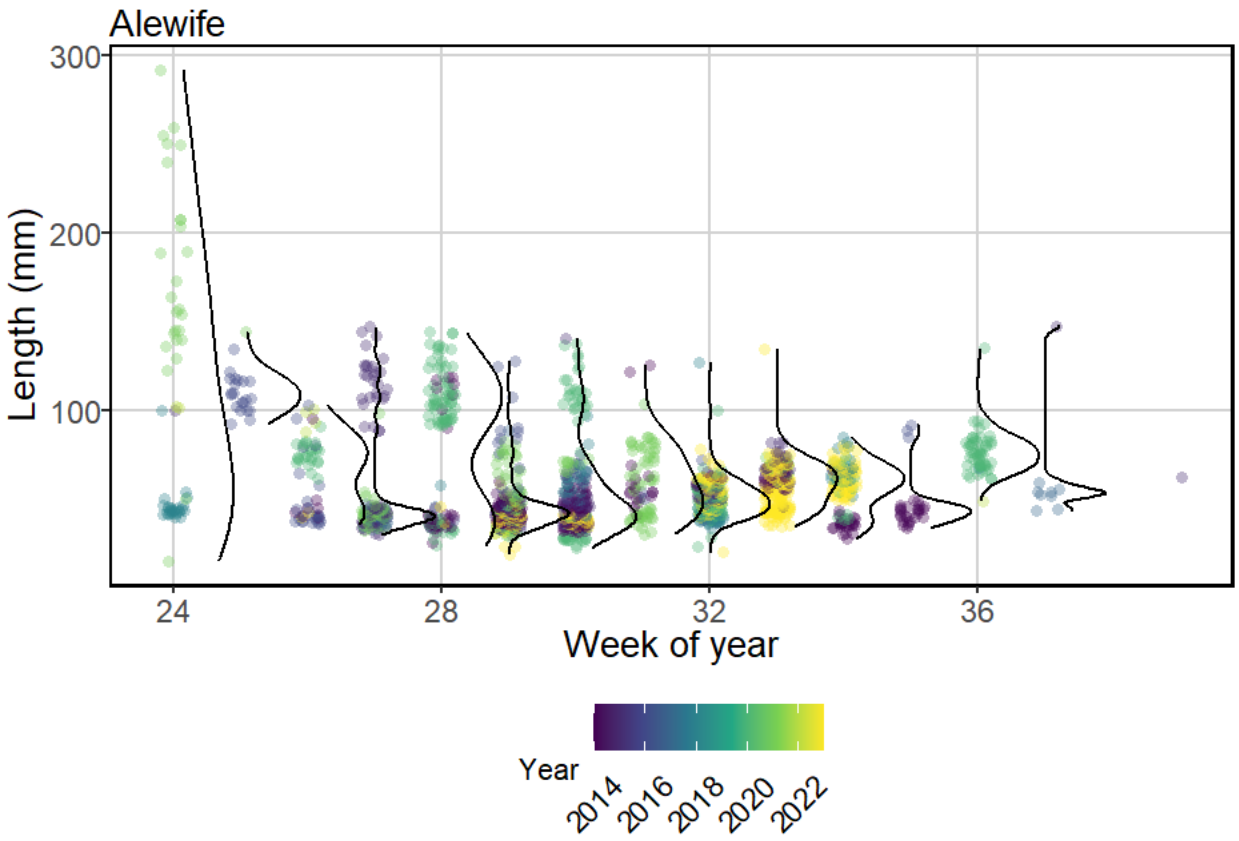
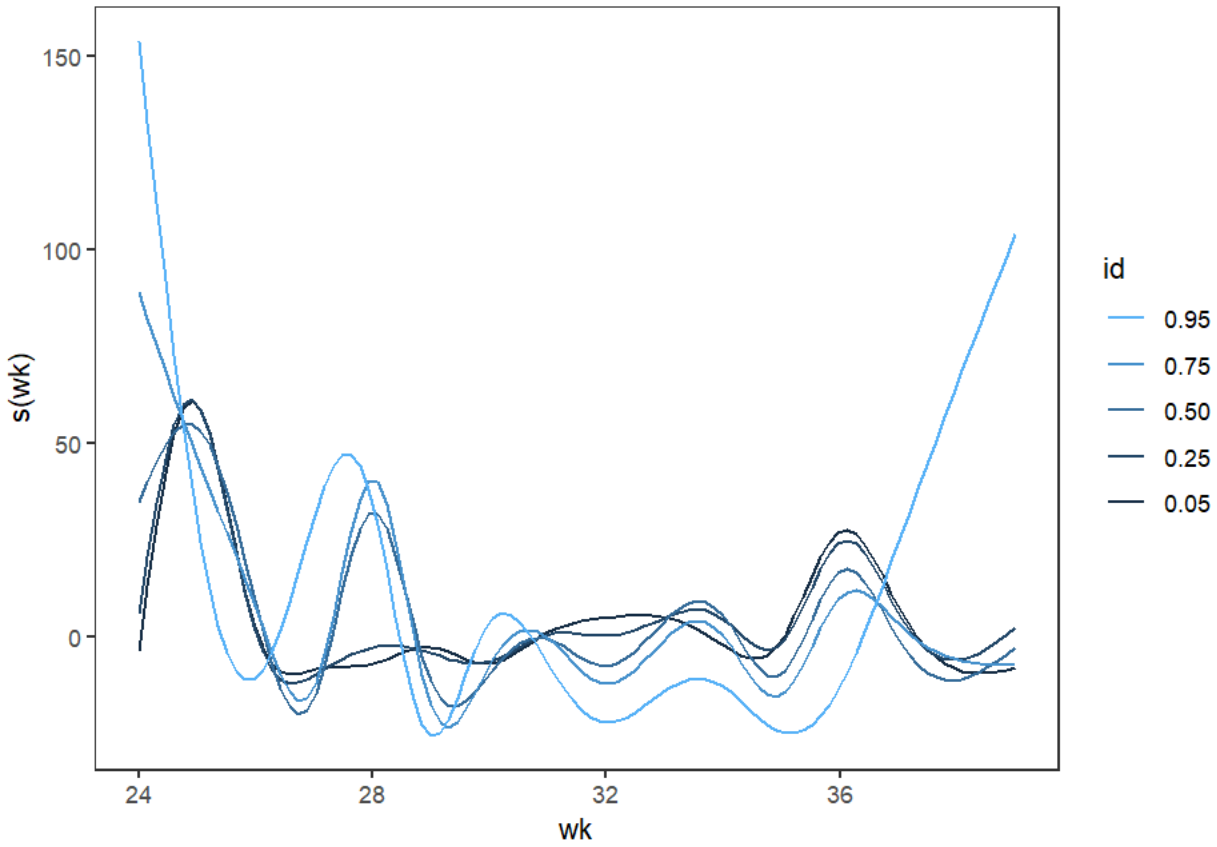
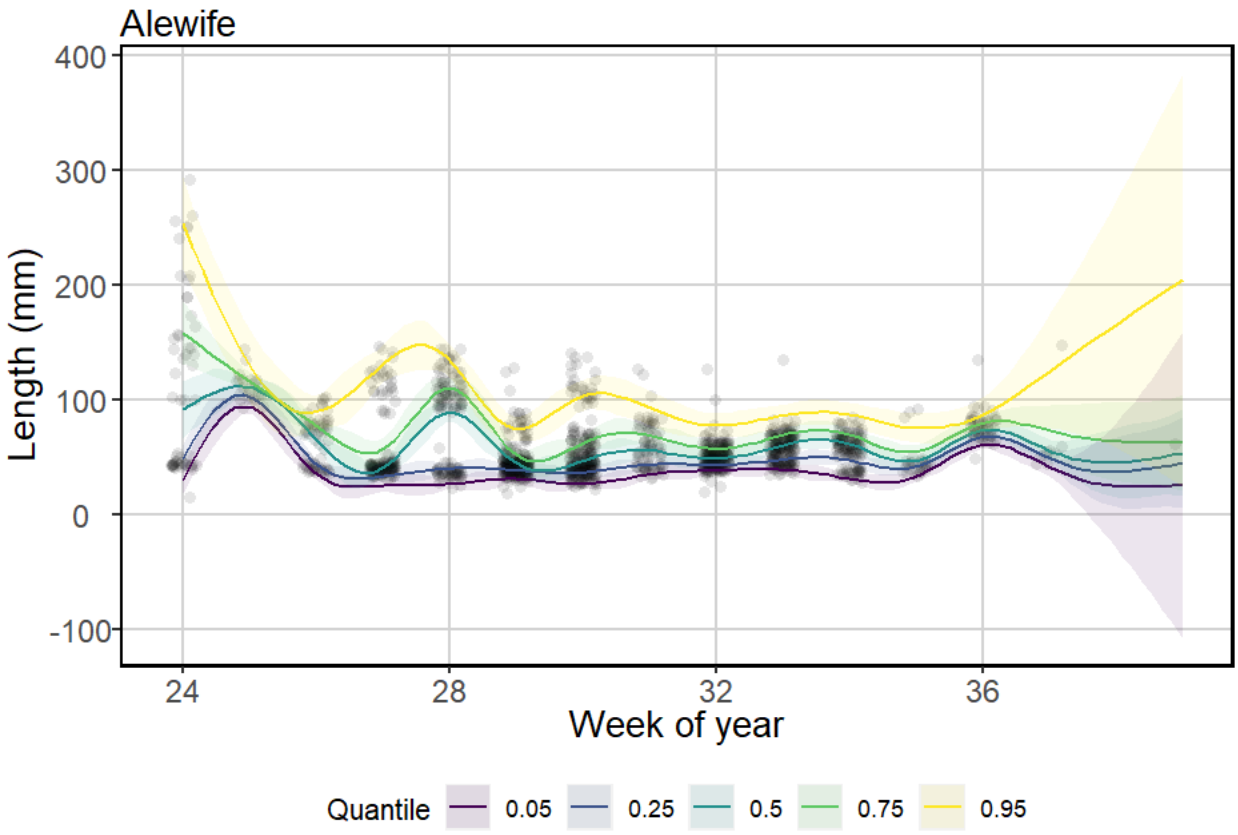
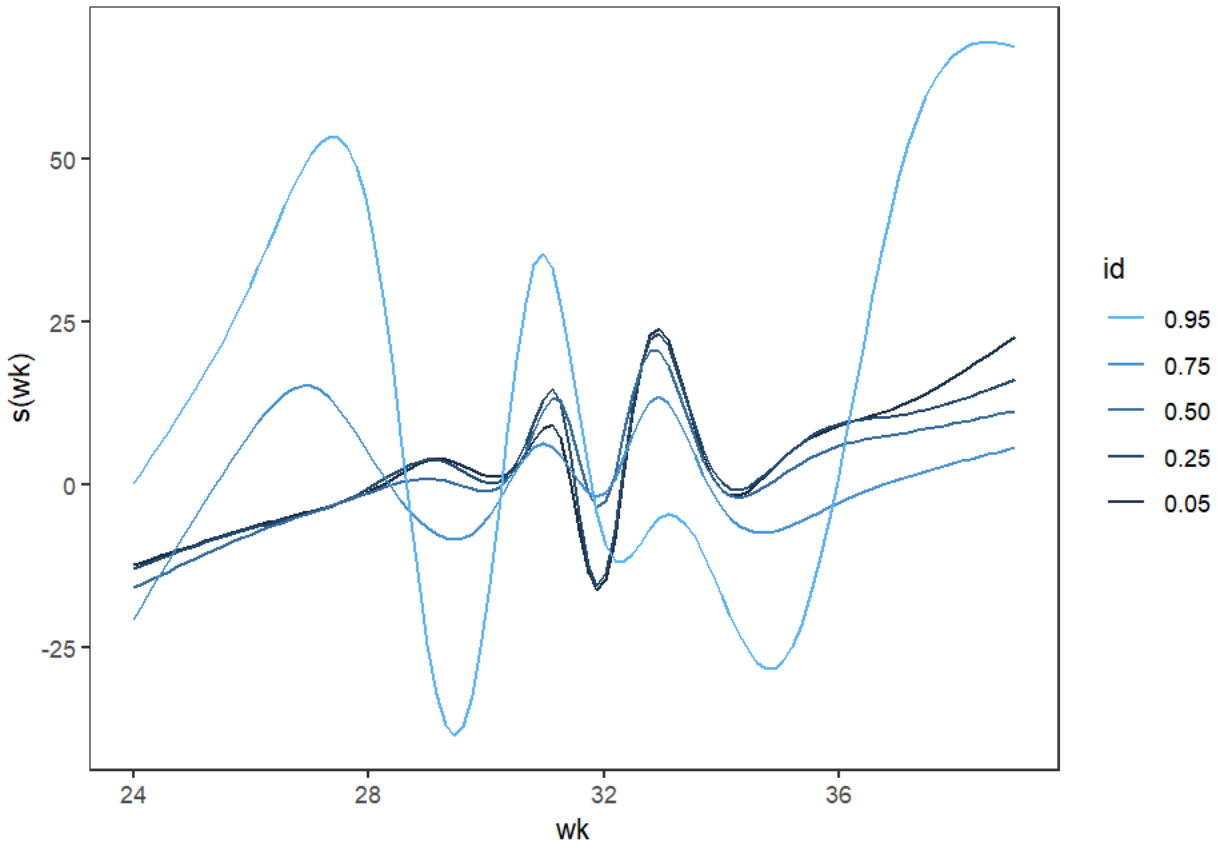


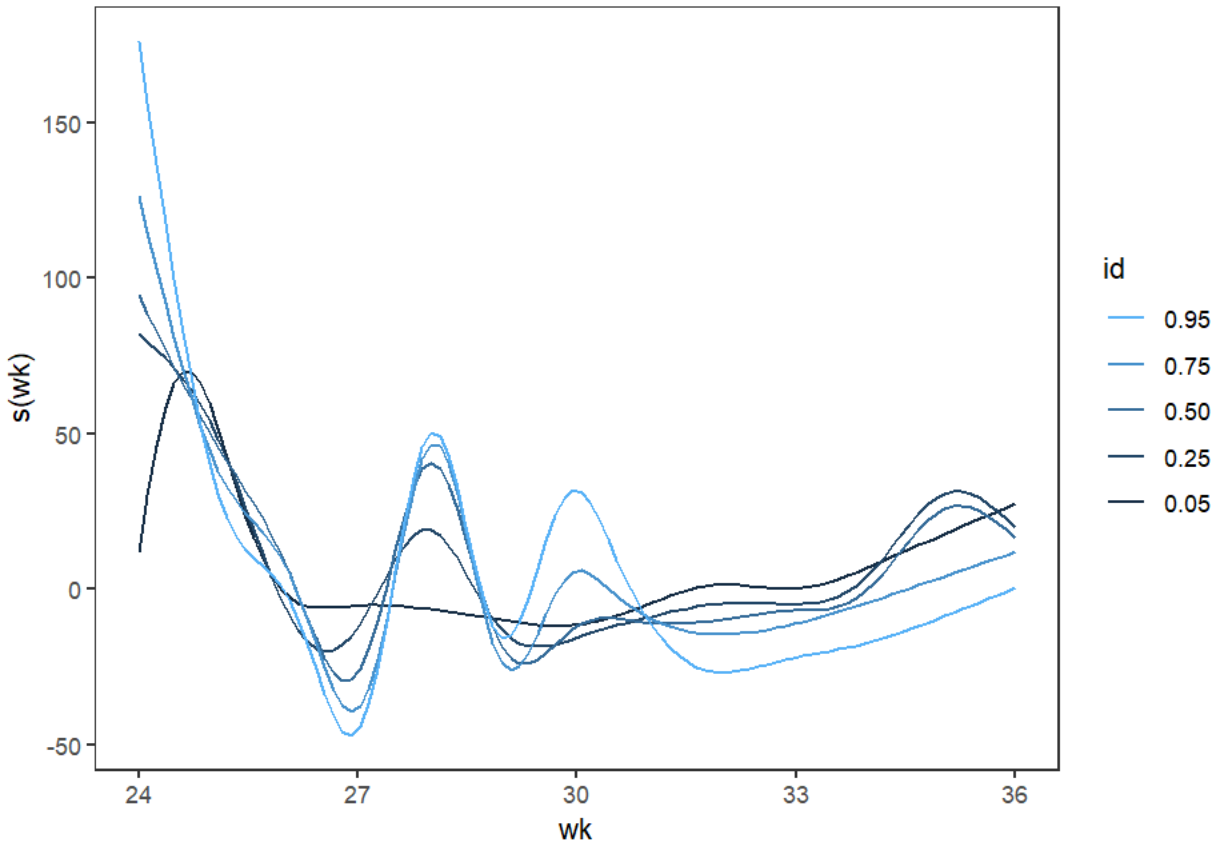

```
## Estimating learning rate. Each dot corresponds to a loss evaluation.
## qu = 0.5.............done
## qu = 0.25..........done
## qu = 0.75.............done
## qu = 0.95.............done
## qu = 0.05..................done
```

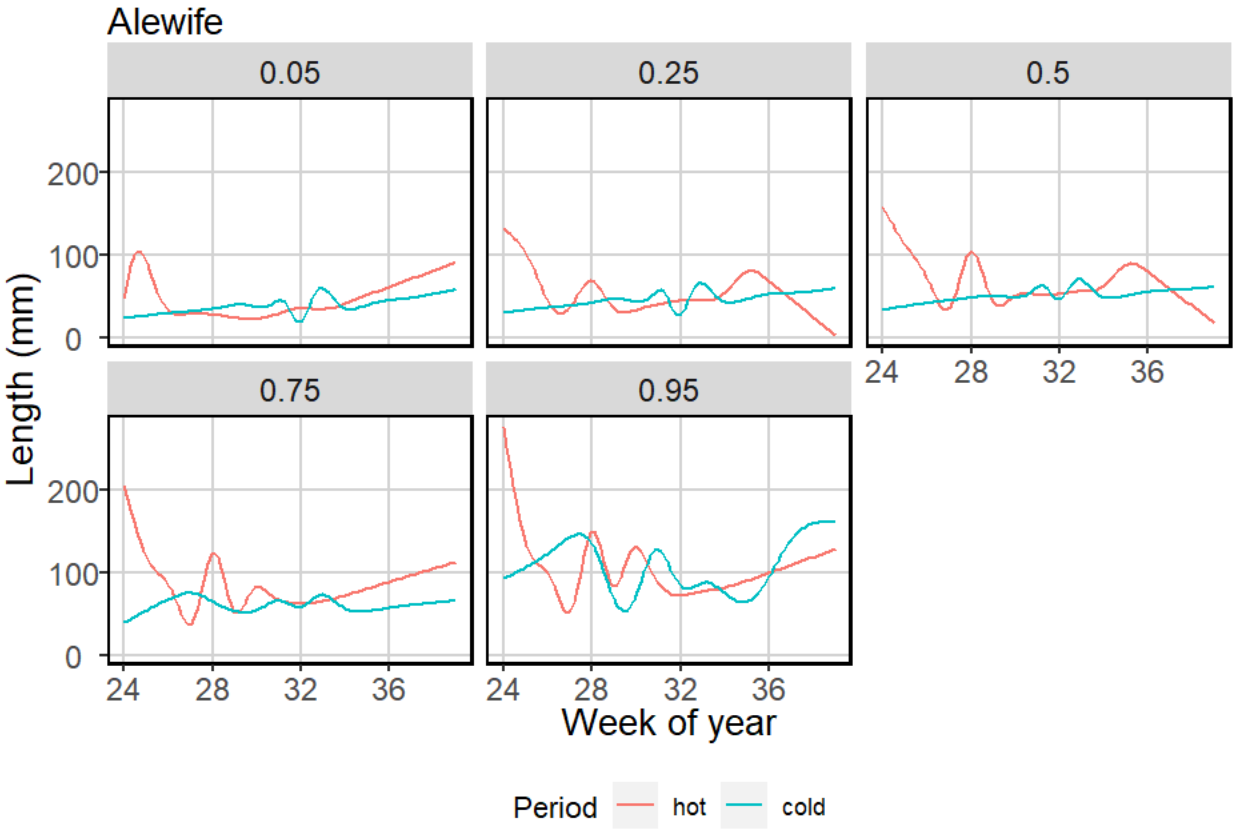

150
100
50
0
s(wk)
24
28
32
36
wk
id
0.95
0.75
0.50
0.25
0.05

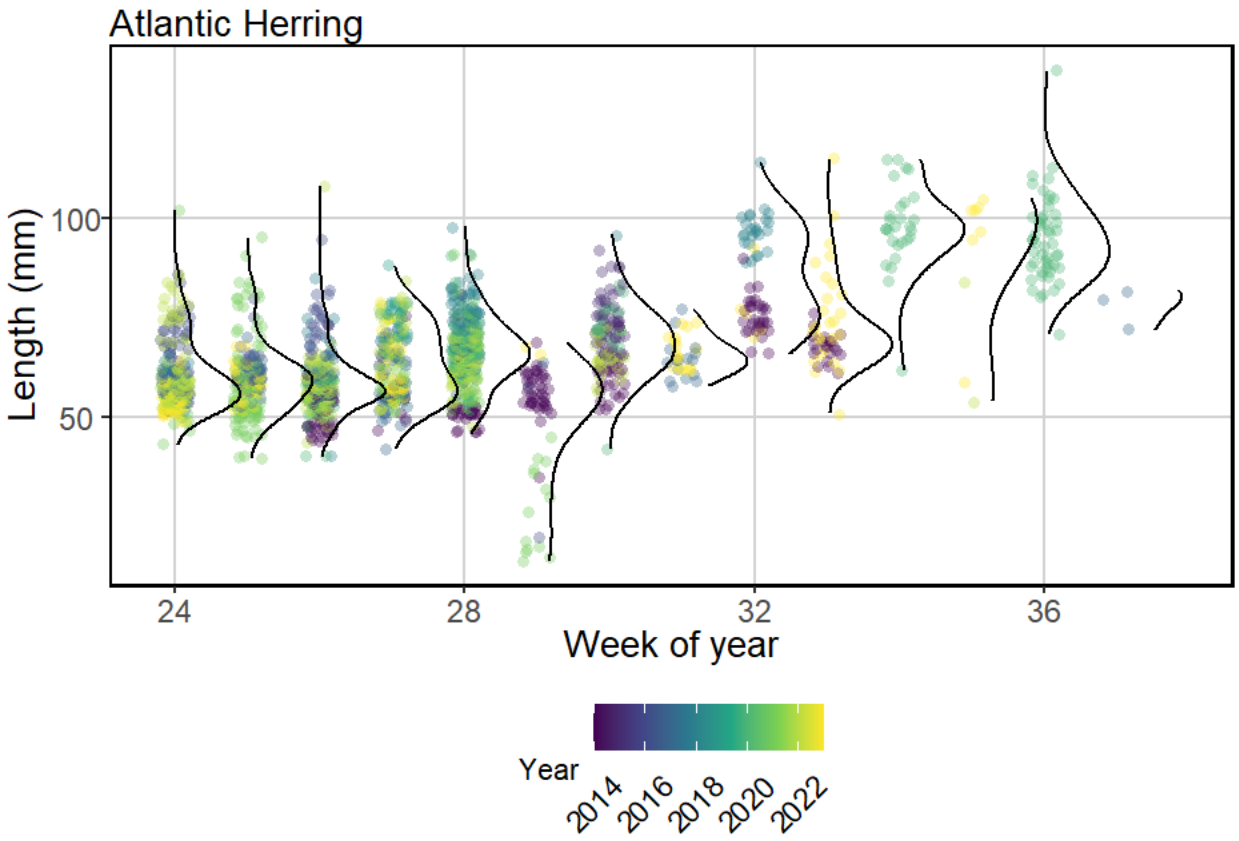



```
## Estimating learning rate. Each dot corresponds to a loss evaluation.
## qu = 0.5.................done
## qu = 0.25.................done
## qu = 0.75.............done
## qu = 0.95.............done
## qu = 0.05............done
## Estimating learning rate. Each dot corresponds to a loss evaluation.
## qu = 0.5............done
## qu = 0.25.....................done
## qu = 0.75............done
## qu = 0.95.....................done
## qu = 0.05..............done
```

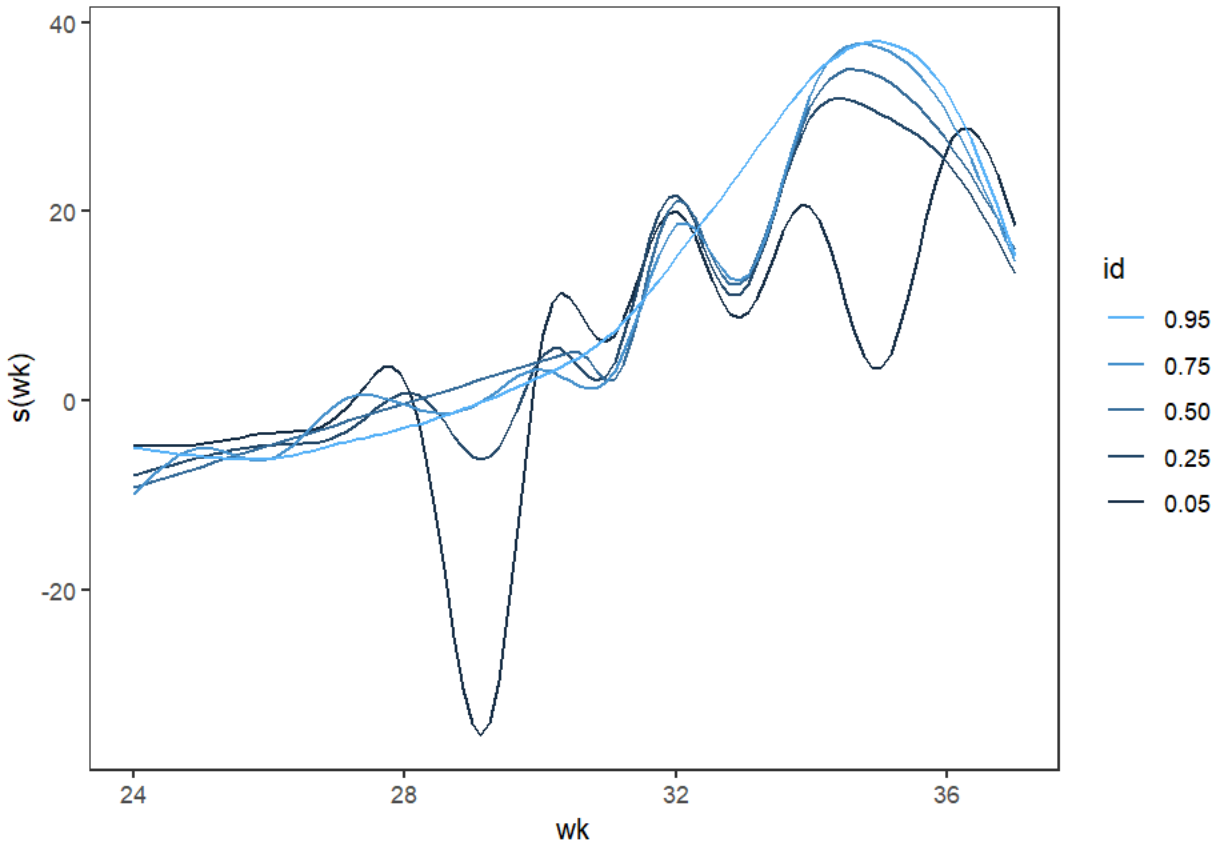

50
25
0
-25
s(wk)
24
28
32
36
wk
id
0.95
0.75
0.50
0.25
0.05

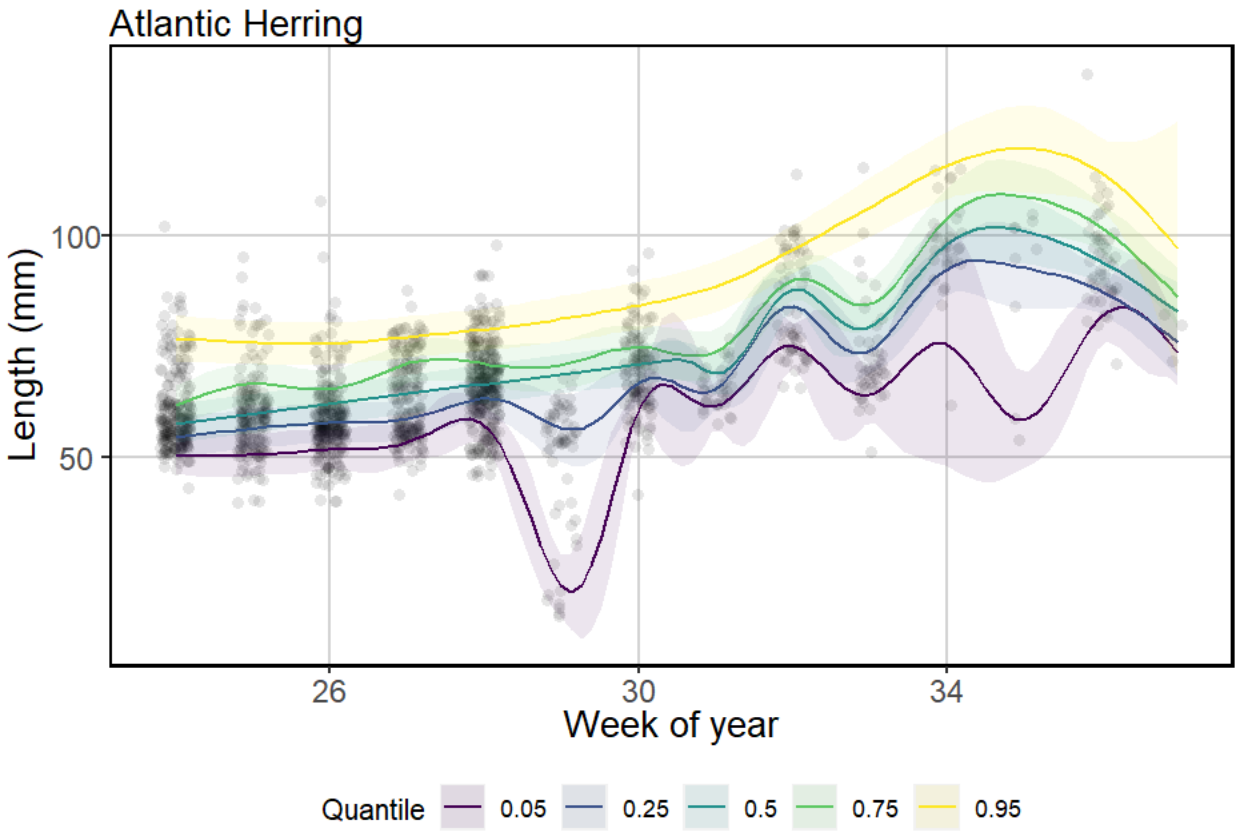

150
100
50
0
-50
s(wk)
24
27
30
33
36
wk
id
0.95
0.75
0.50
0.25
0.05


Alewife
0.05
0.25
0.5
0.75
0.95
Length (mm)
200
100
0
24
28
32
36
Week of year
Period
hot
cold

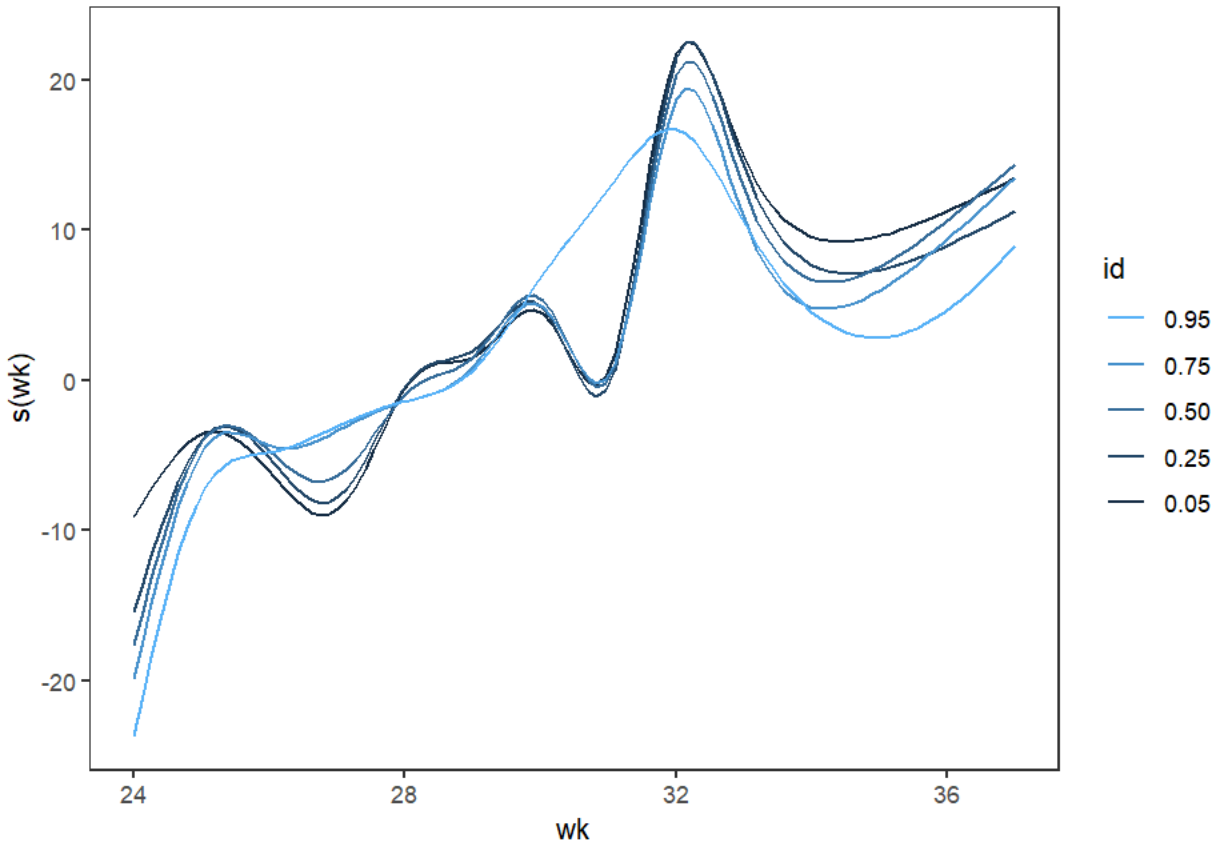


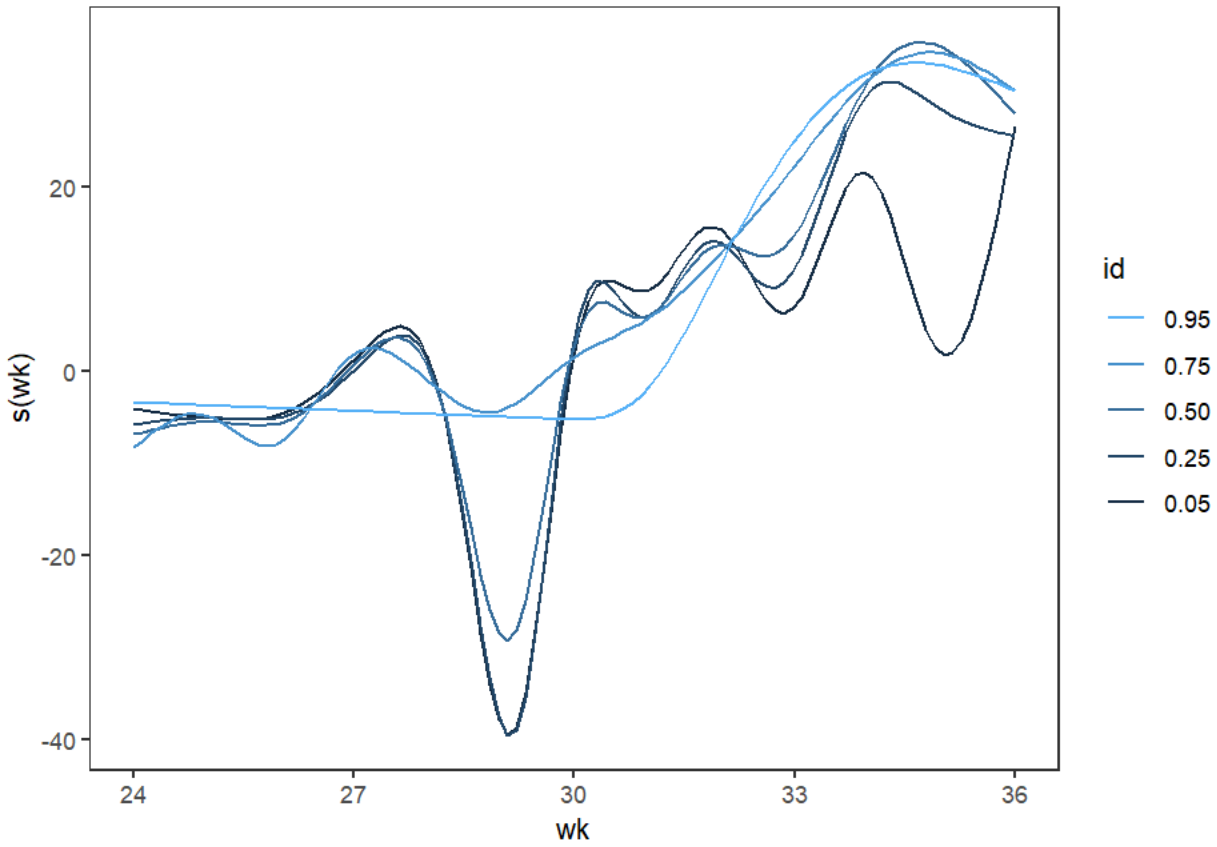

```
## Estimating learning rate. Each dot corresponds to a loss evaluation.
## qu = 0.5.........done
## qu = 0.25............done
## qu = 0.75................done
## qu = 0.95................done
## qu = 0.05............done
```

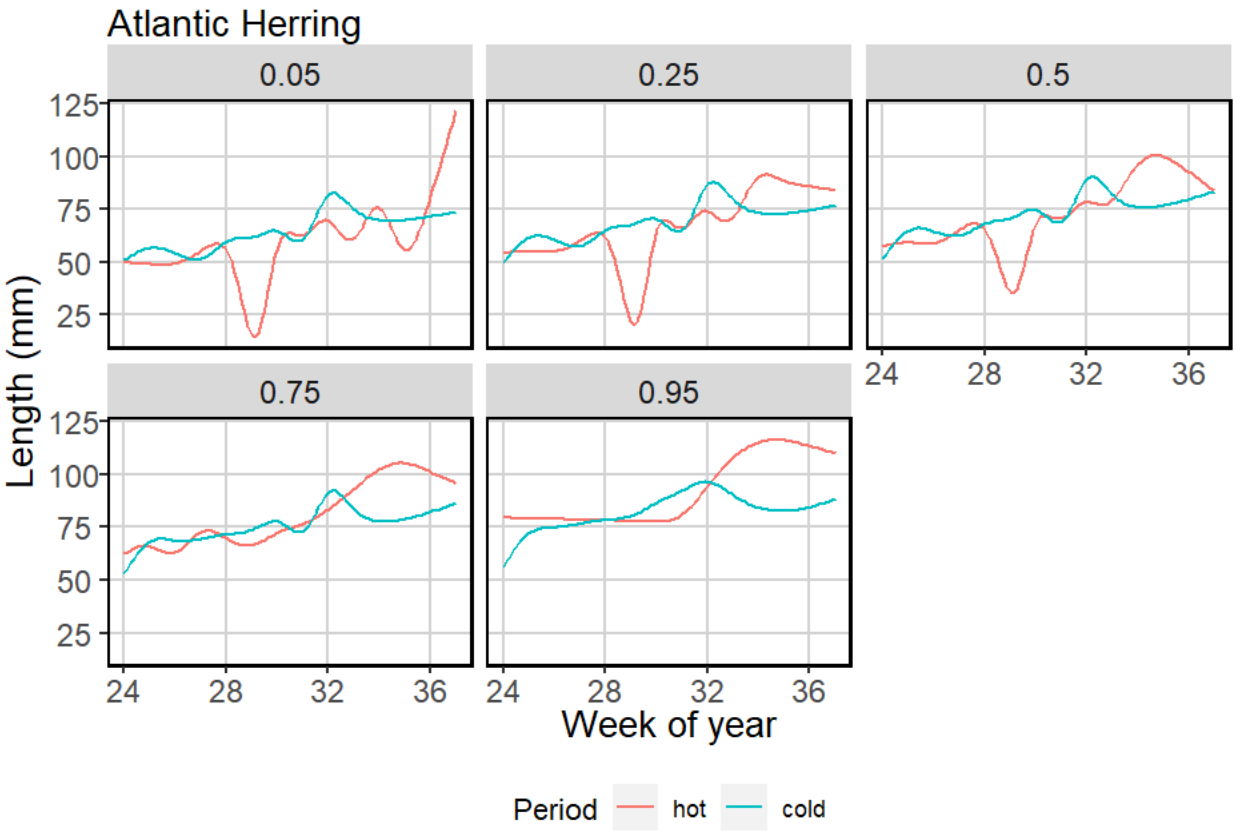

40
20
0
-20
s(wk)
24
28
32
36
wk
id
0.95
0.75
0.50
0.25
0.05

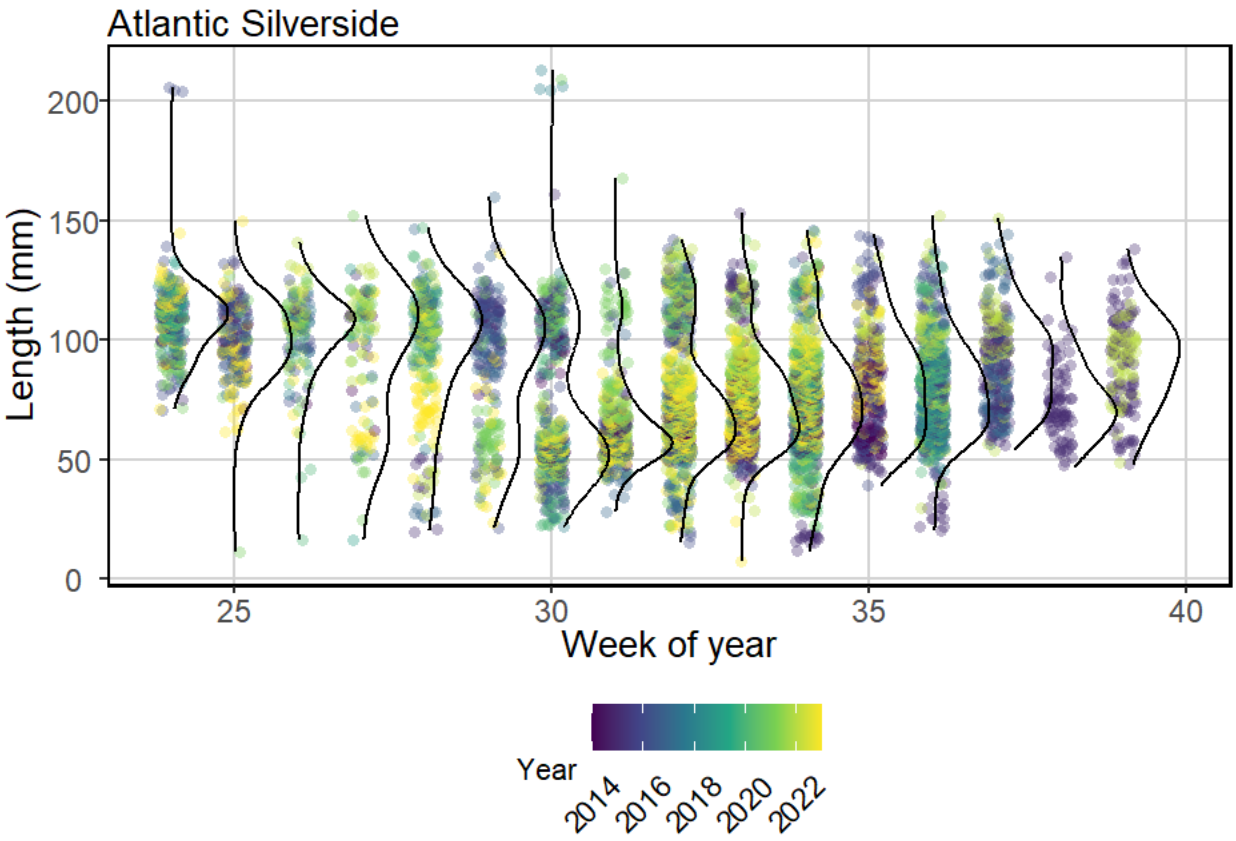



```
## Estimating learning rate. Each dot corresponds to a loss evaluation.
## qu = 0.5.........done
## qu = 0.25...........done
## qu = 0.75........done
## qu = 0.95.............done
## qu = 0.05.........done
## Estimating learning rate. Each dot corresponds to a loss evaluation.
## qu = 0.5.............done
## qu = 0.25.............done
## qu = 0.75................done
## qu = 0.95..................done
## qu = 0.05................done
```

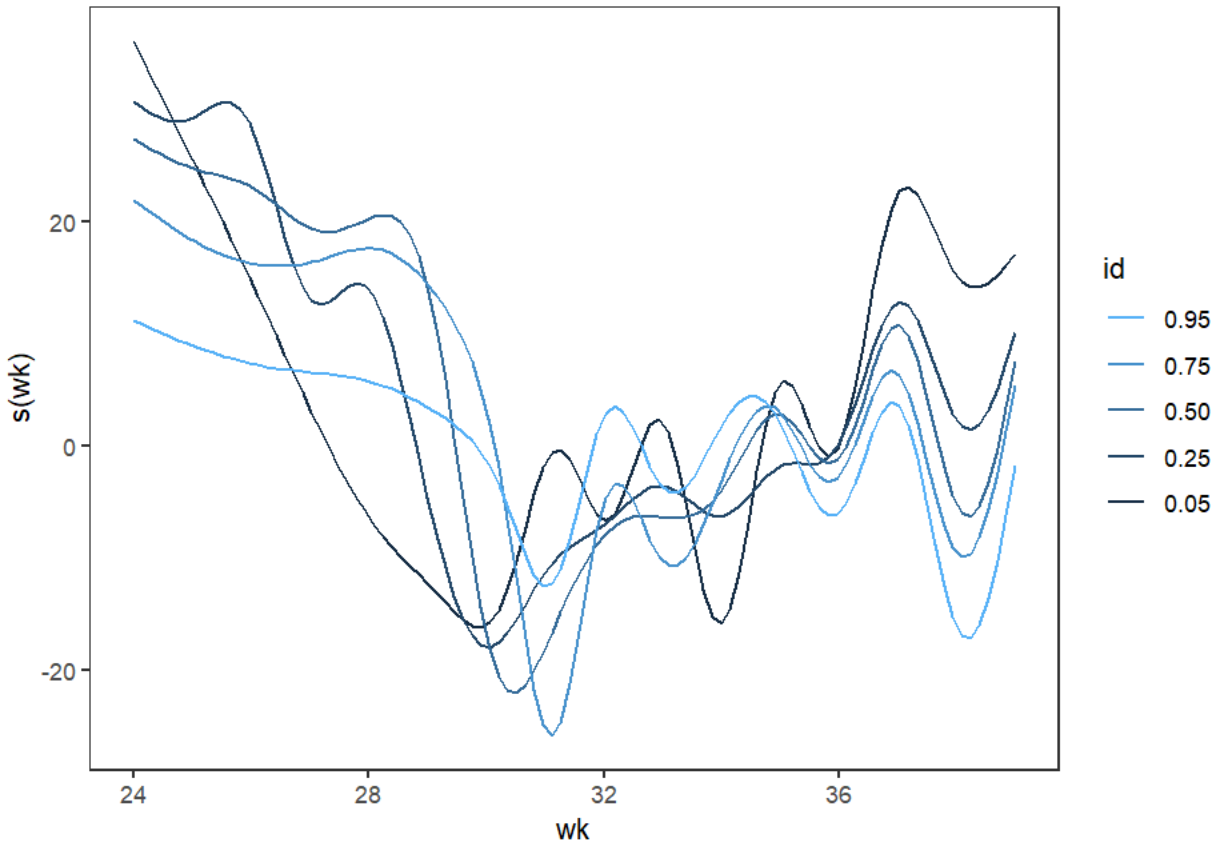

20
10
0
-10
-20
s(wk)
24
28
32
36
wk
id
0.95
0.75
0.50
0.25
0.05

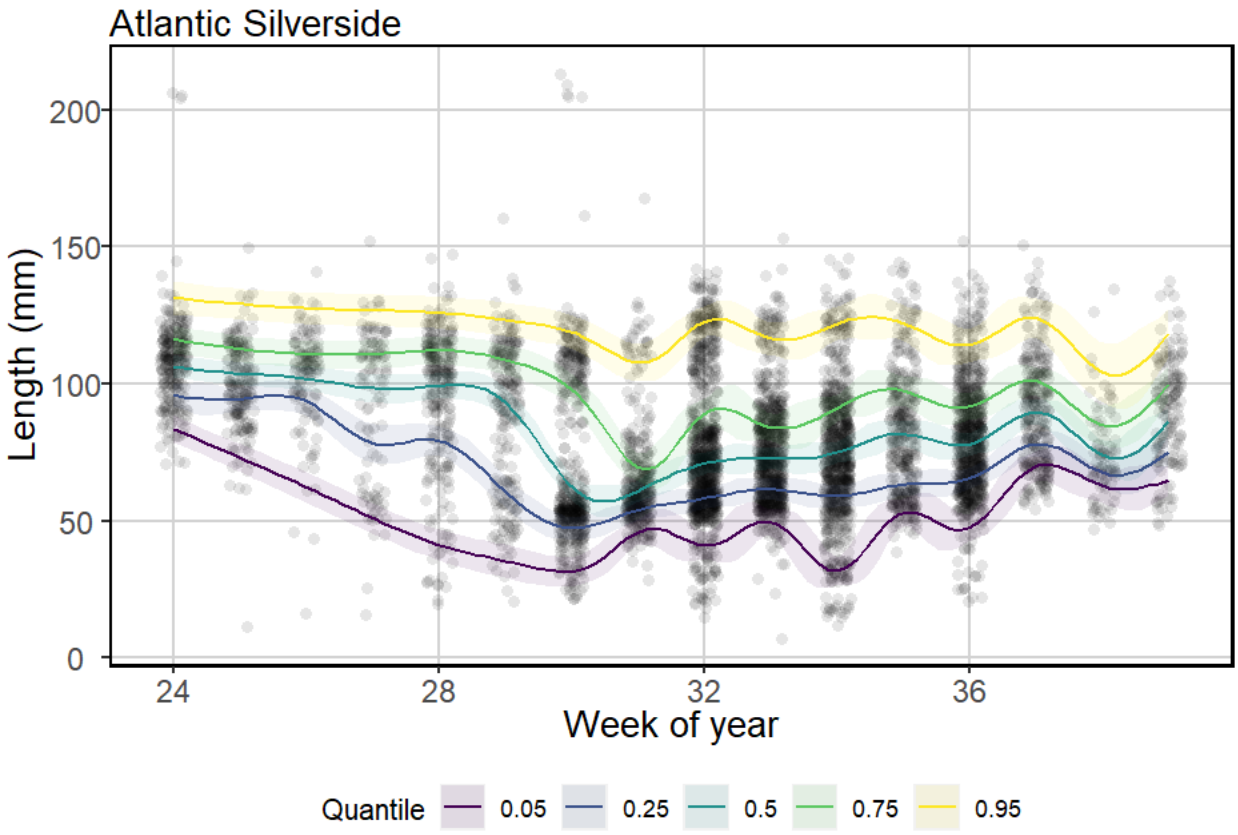

20
0
-20
-40
s(wk)
24
27
30
33
36
wk
id
0.95
0.75
0.50
0.25
0.05


Atlantic Herring
0.05
0.25
0.5
0.75
0.95
Length (mm)
125
100
75
50
25
24
28
32
36
Week of year
Period
hot
cold

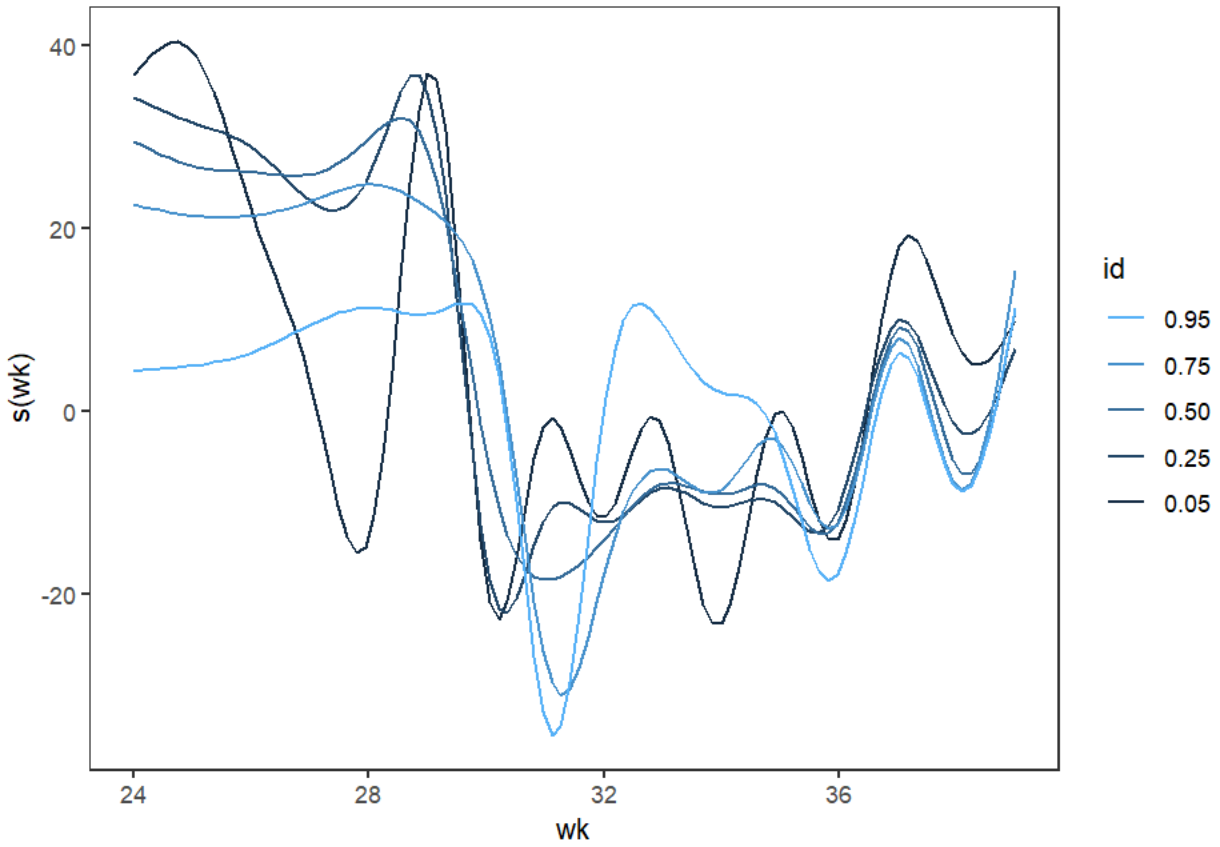


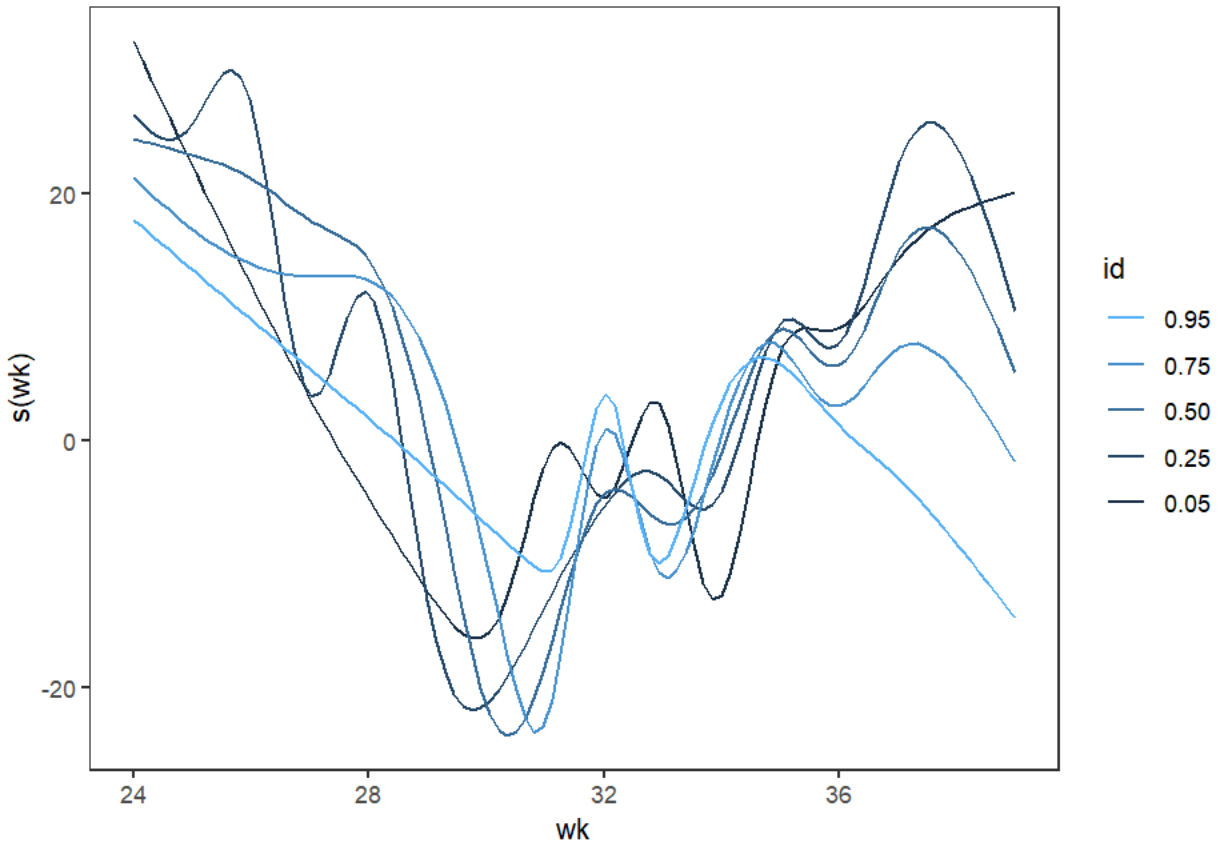

```
## Estimating learning rate. Each dot corresponds to a loss evaluation.
## qu = 0.5.............done
## qu = 0.25.............done
## qu = 0.75.............done
## qu = 0.95.............done
## qu = 0.05.............done
```

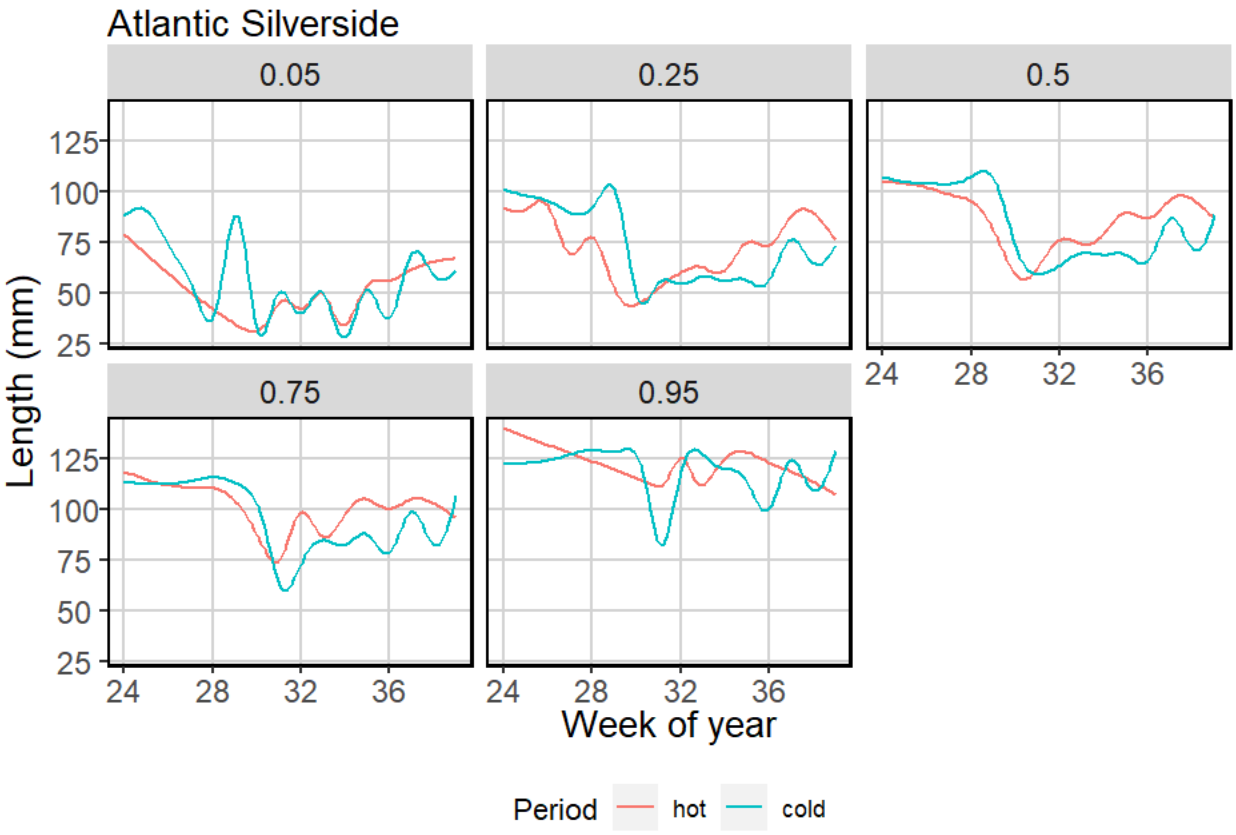

s(wk)
20
0
-20
24
28
32
36
wk
id
0.95
0.75
0.50
0.25
0.05

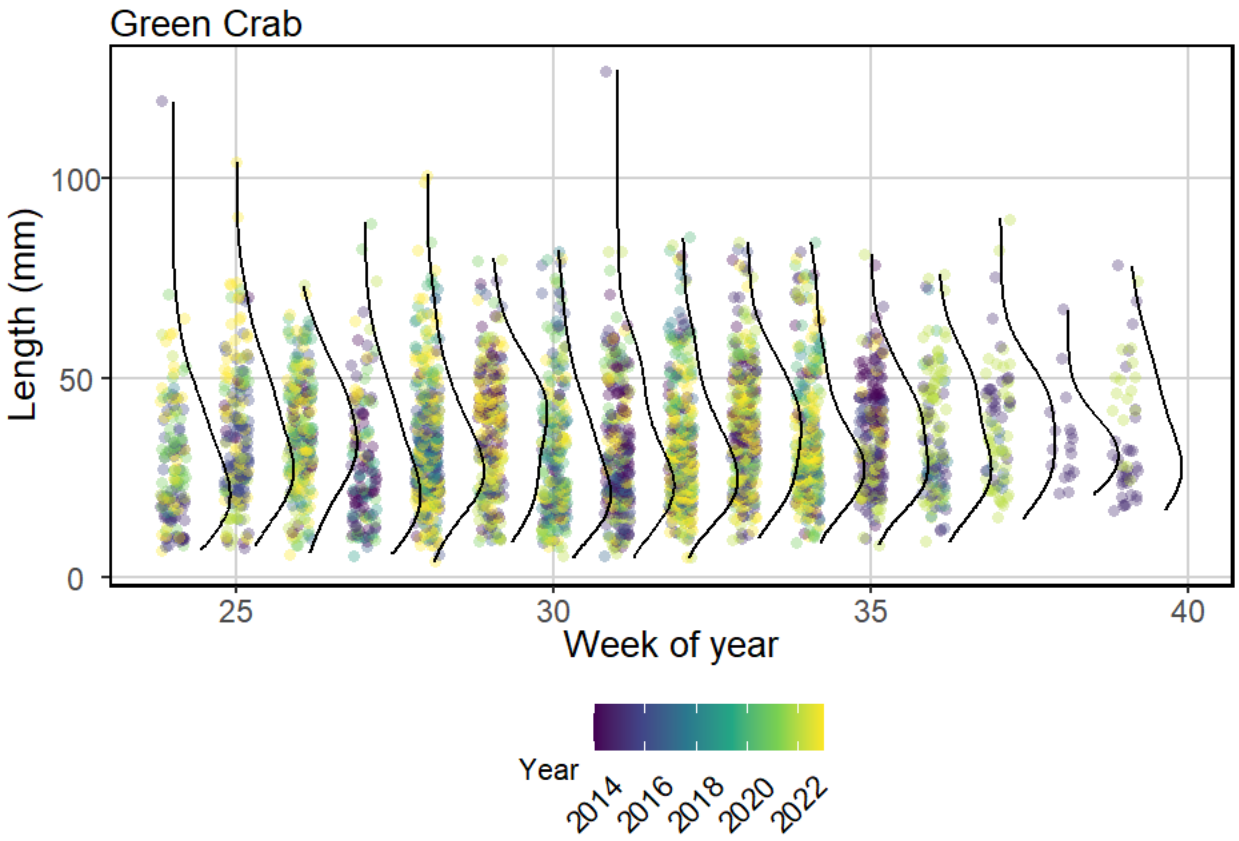



```
## Estimating learning rate. Each dot corresponds to a loss evaluation.
## qu = 0.5..............done
## qu = 0.25...........done
## qu = 0.75................done
## qu = 0.95............done
## qu = 0.05..............done
## Estimating learning rate. Each dot corresponds to a loss evaluation.
## qu = 0.5............done
## qu = 0.25............done
## qu = 0.75..................done
## qu = 0.95..............done
## qu = 0.05..................done
```

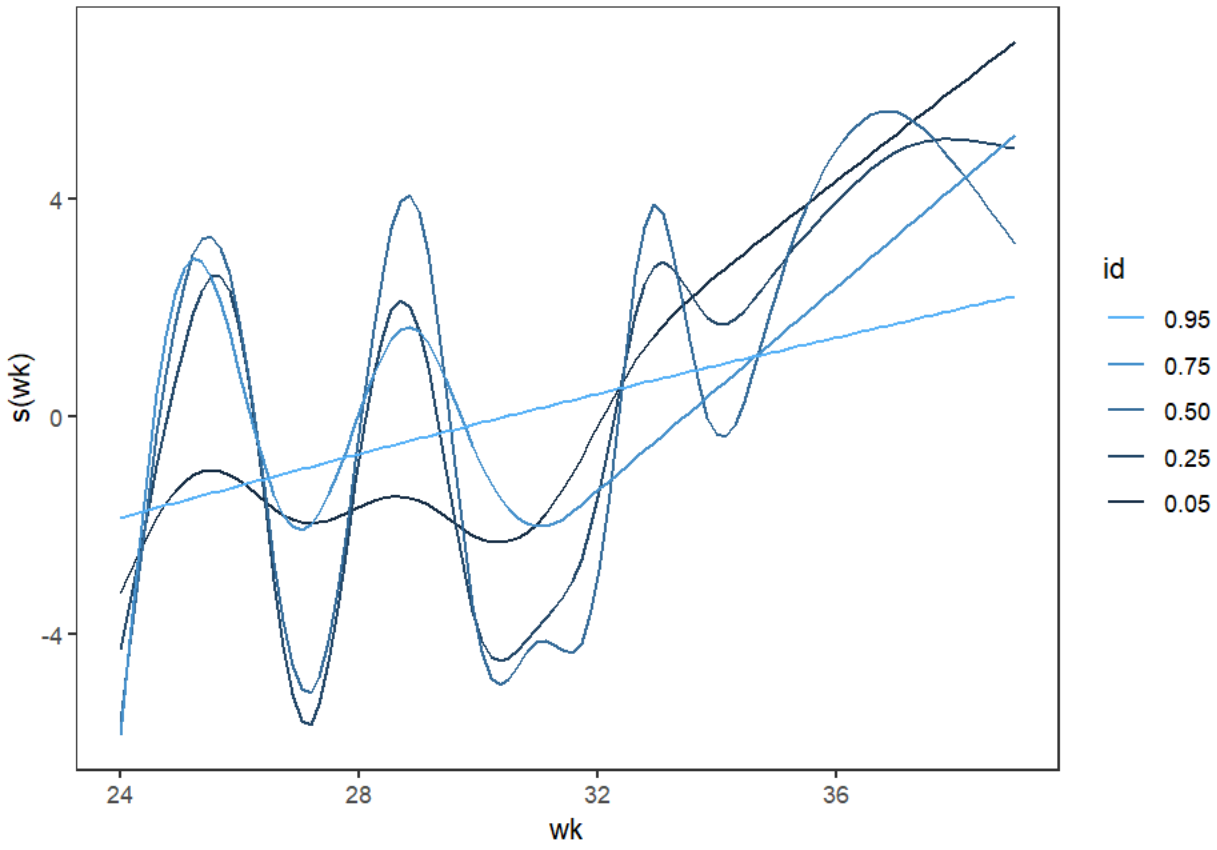

40
20
0
-20
s(wk)
24
28
32
36
wk
id
0.95
0.75
0.50
0.25
0.05

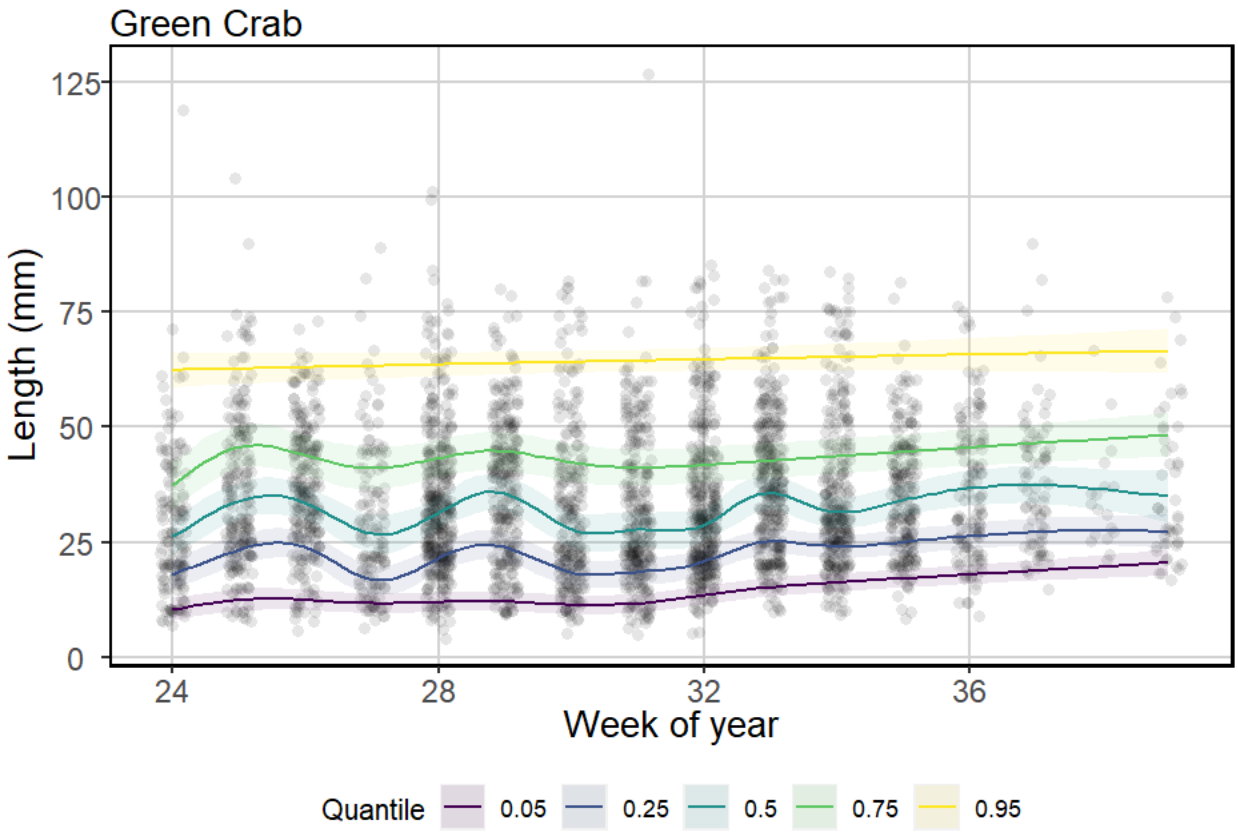

20
0
-20
s(wk)
24
28
32
36
wk
id
0.95
0.75
0.50
0.25
0.05


Atlantic Silverside
0.05
0.25
0.5
0.75
0.95
Length (mm)
125
100
75
50
25
24
28
32
36
Week of year
Period
hot
cold

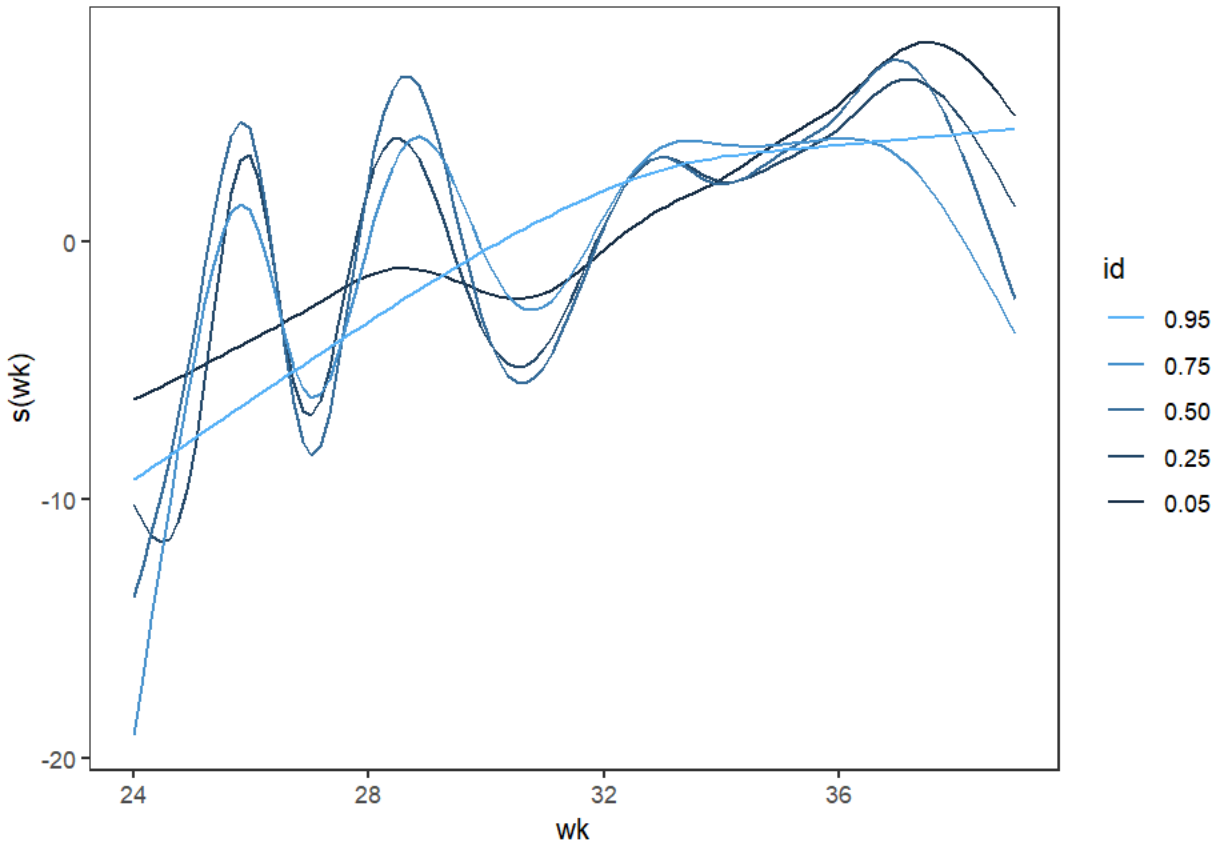


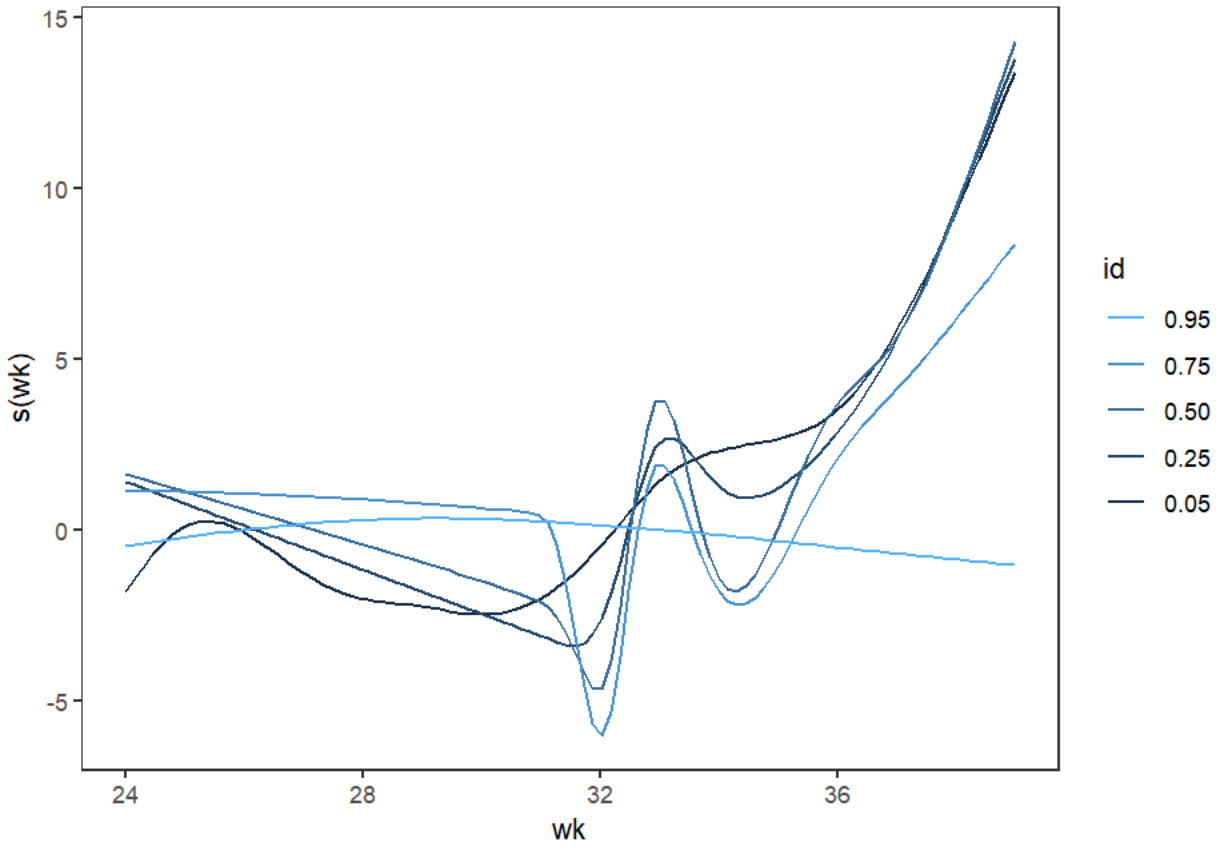

```
## Estimating learning rate. Each dot corresponds to a loss evaluation.
## qu = 0.5..........done
## qu = 0.25................done
## qu = 0.75...........done
## qu = 0.95..........done
## qu = 0.05.............done
```

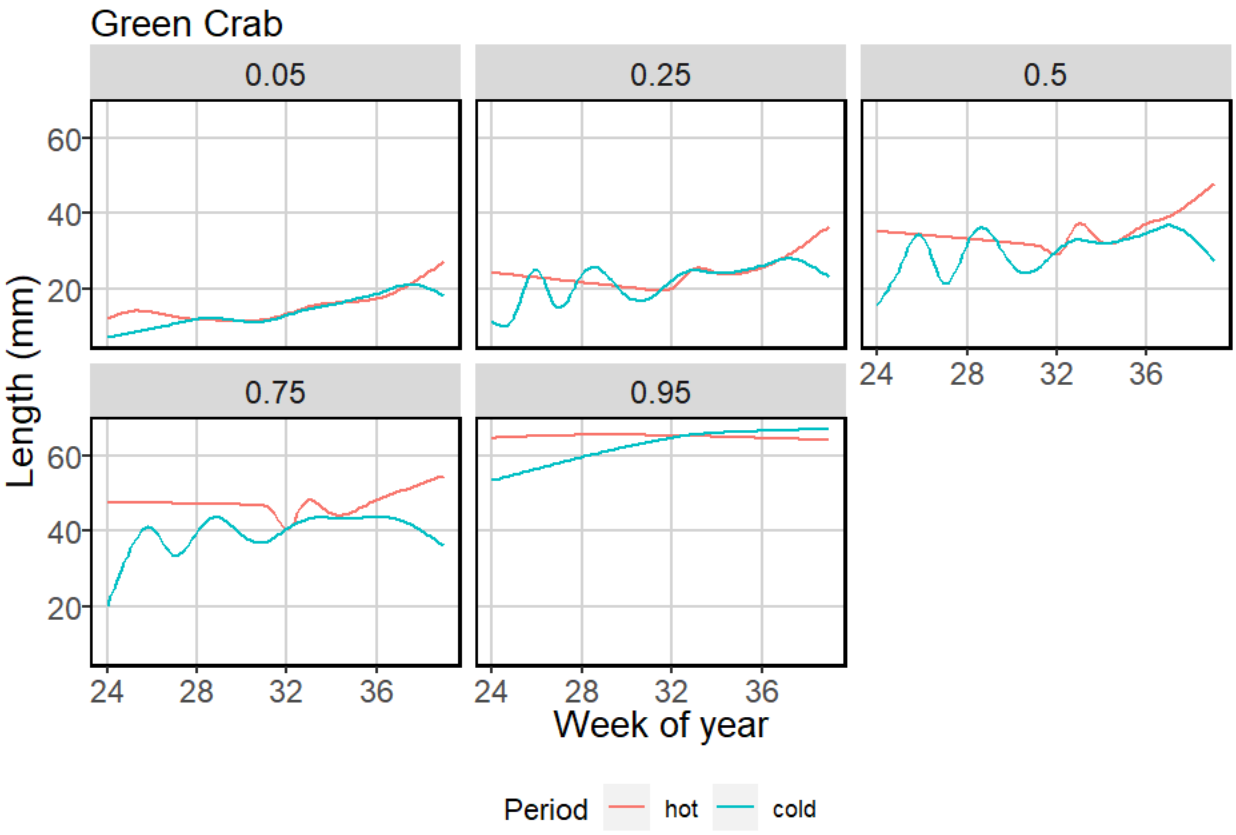

s(wk)
4
0
-4
24
28
32
36
wk
id
0.95
0.75
0.50
0.25
0.05

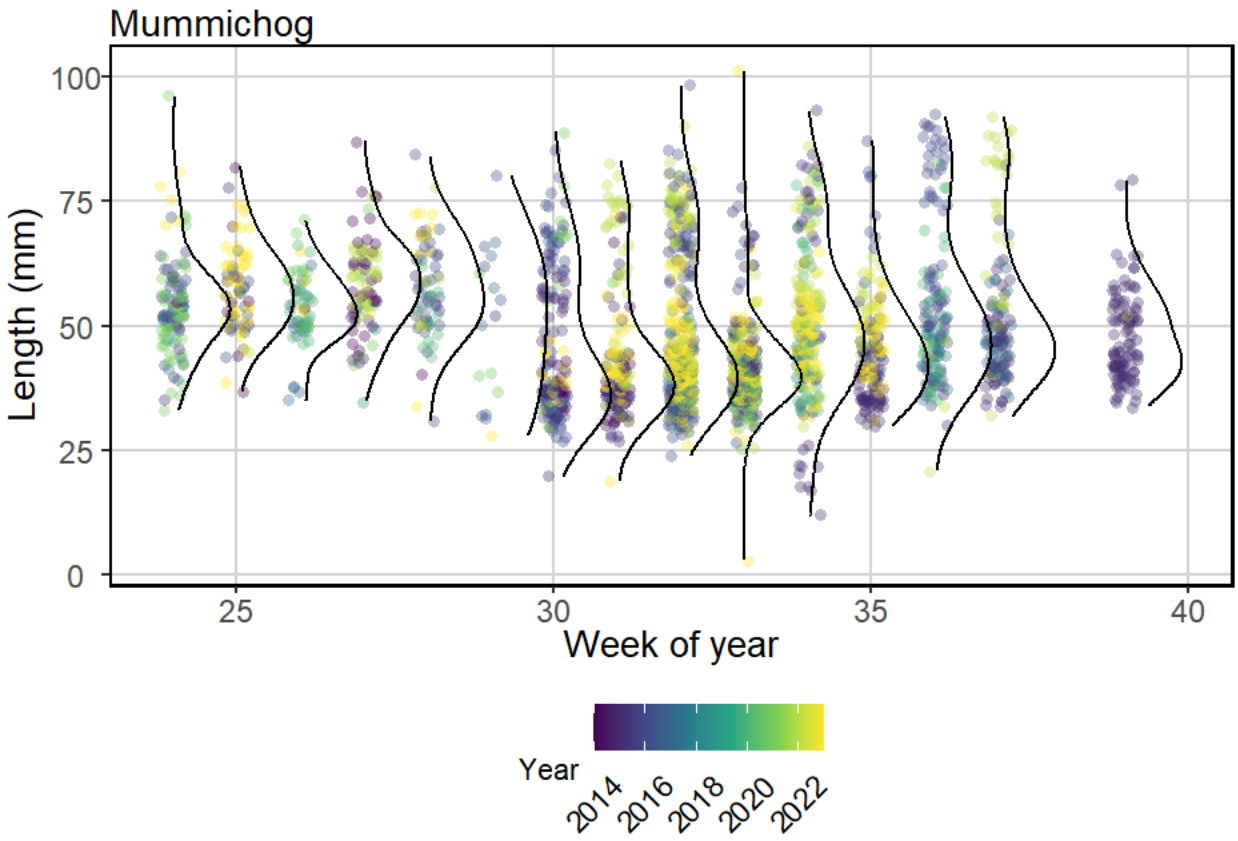



```
## Estimating learning rate. Each dot corresponds to a loss evaluation.
## qu = 0.5...........done
## qu = 0.25..................done
## qu = 0.75............done
## qu = 0.95................done
## qu = 0.05....................done
## Estimating learning rate. Each dot corresponds to a loss evaluation.
## qu = 0.5...........done
## qu = 0.25................done
## qu = 0.75.........done
## qu = 0.95...........done
## qu = 0.05..............done
```

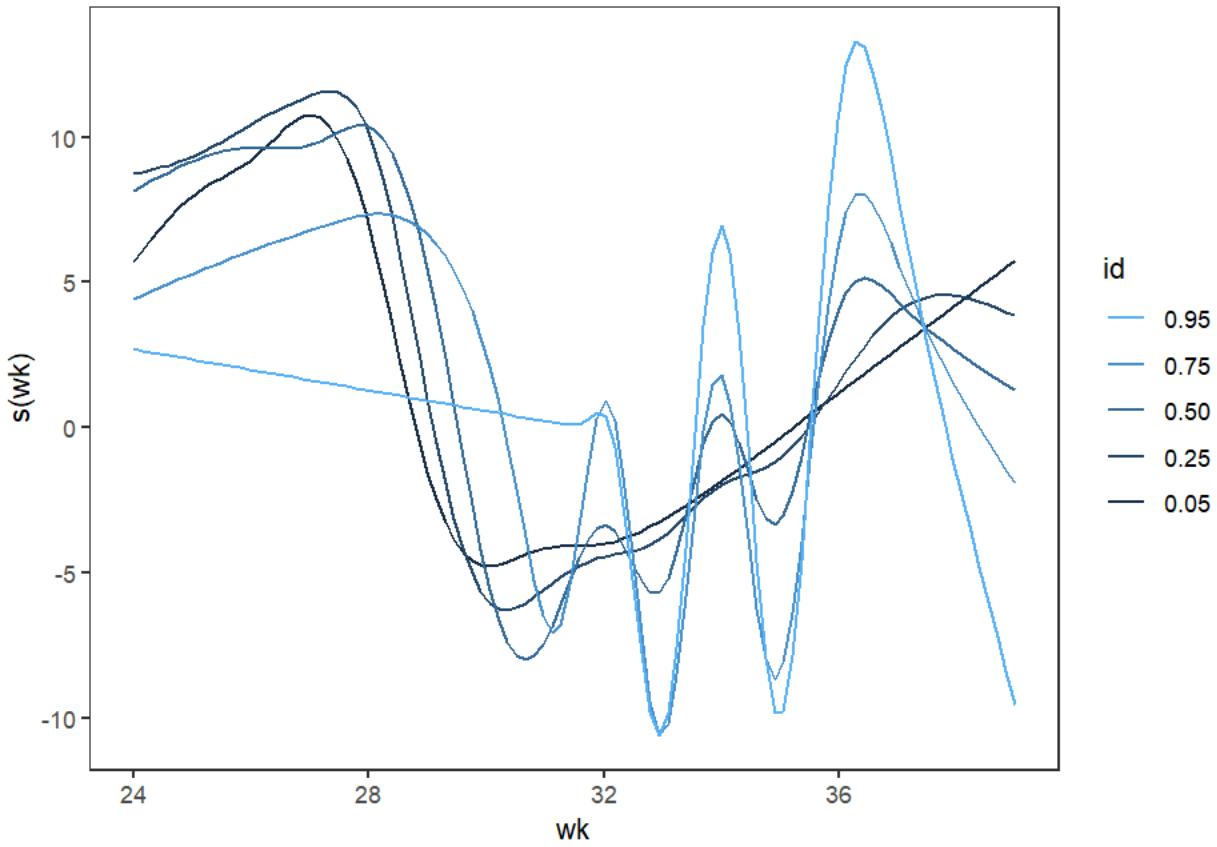

0
-10
-20
s(wk)
24
28
32
36
wk
id
0.95
0.75
0.50
0.25
0.05

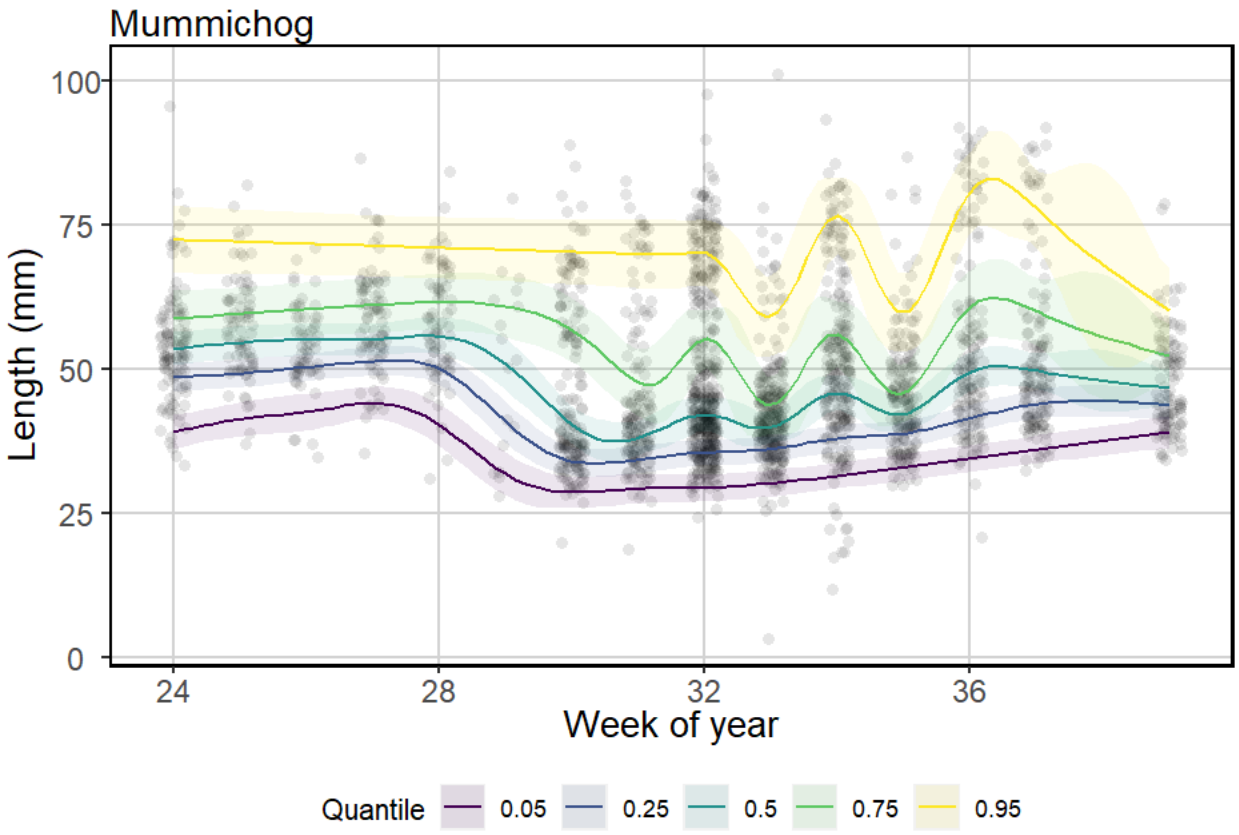

15
10
5
0
-5
s(wk)
24
28
32
36
wk
id
0.95
0.75
0.50
0.25
0.05


Green Crab
0.05
0.25
0.5
0.75
0.95
Length (mm)
60
40
20
24
28
32
36
Week of year
Period
hot
cold

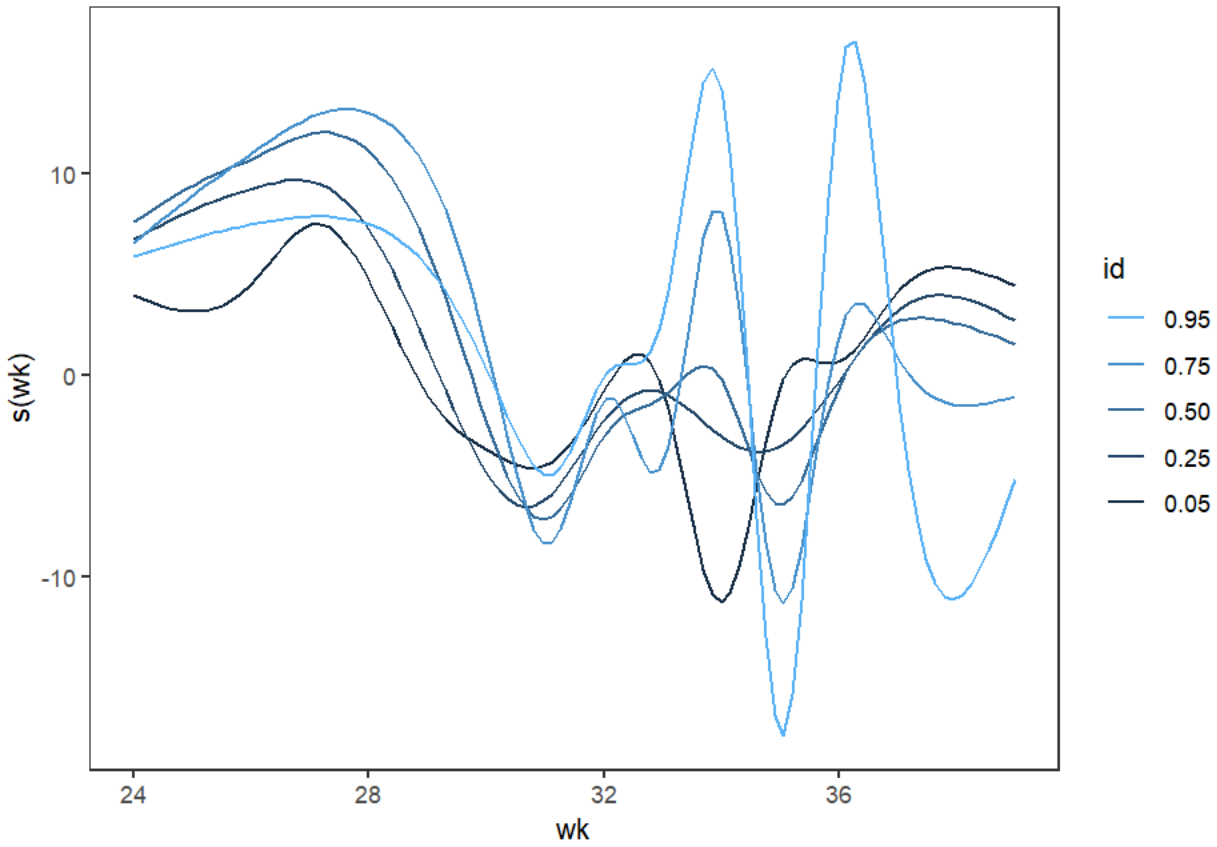


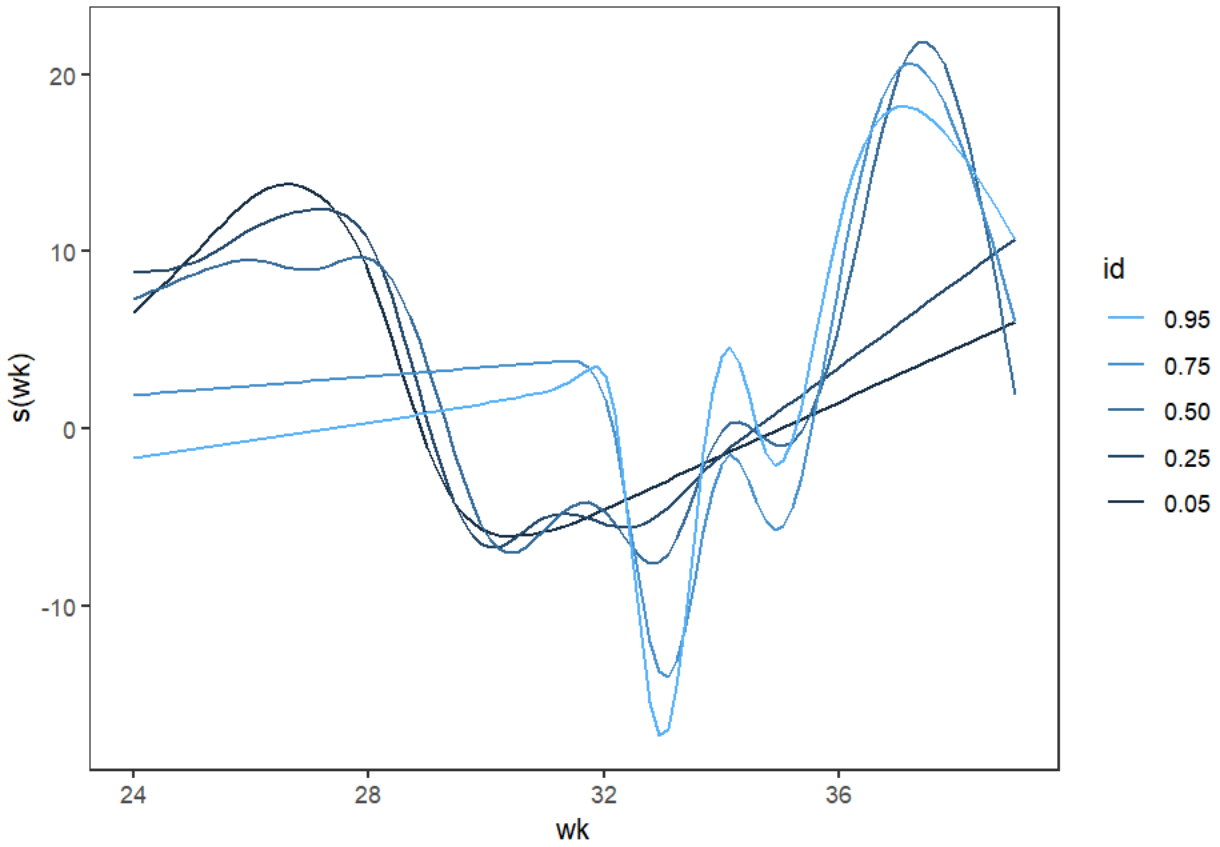

```
## Estimating learning rate. Each dot corresponds to a loss evaluation.
## qu = 0.5..........done
## qu = 0.25.................done
## qu = 0.75.................done
## qu = 0.95............done
## qu = 0.05...........done
```

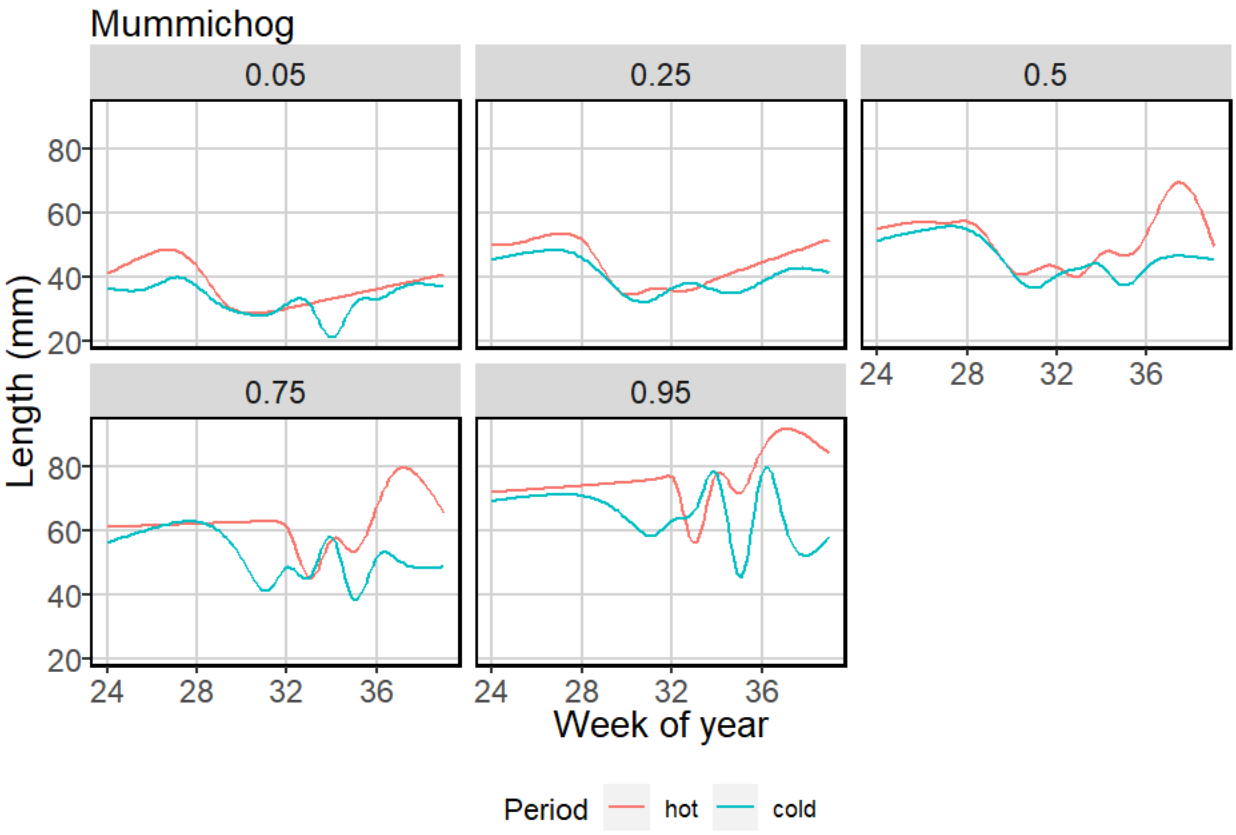

10
5
0
-5
-10
s(wk)
24
28
32
36
wk
id
0.95
0.75
0.50
0.25
0.05

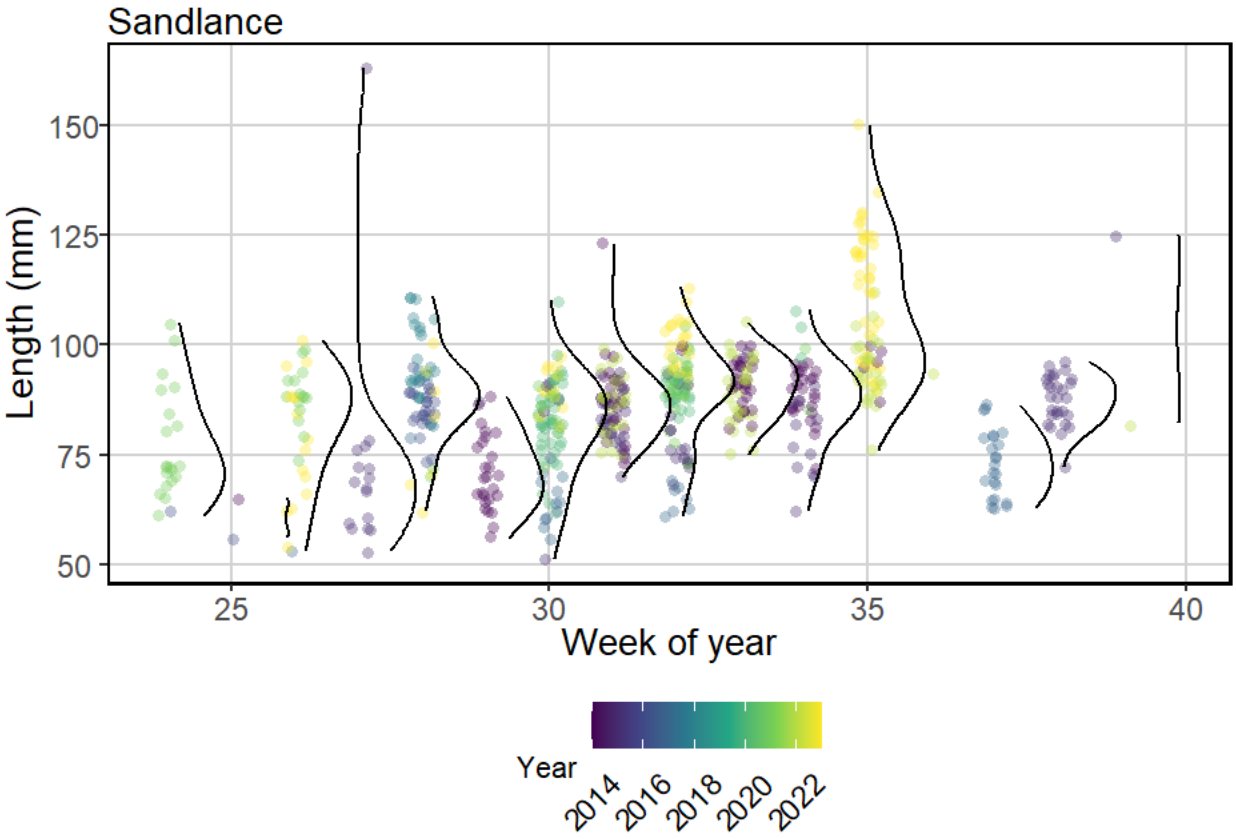


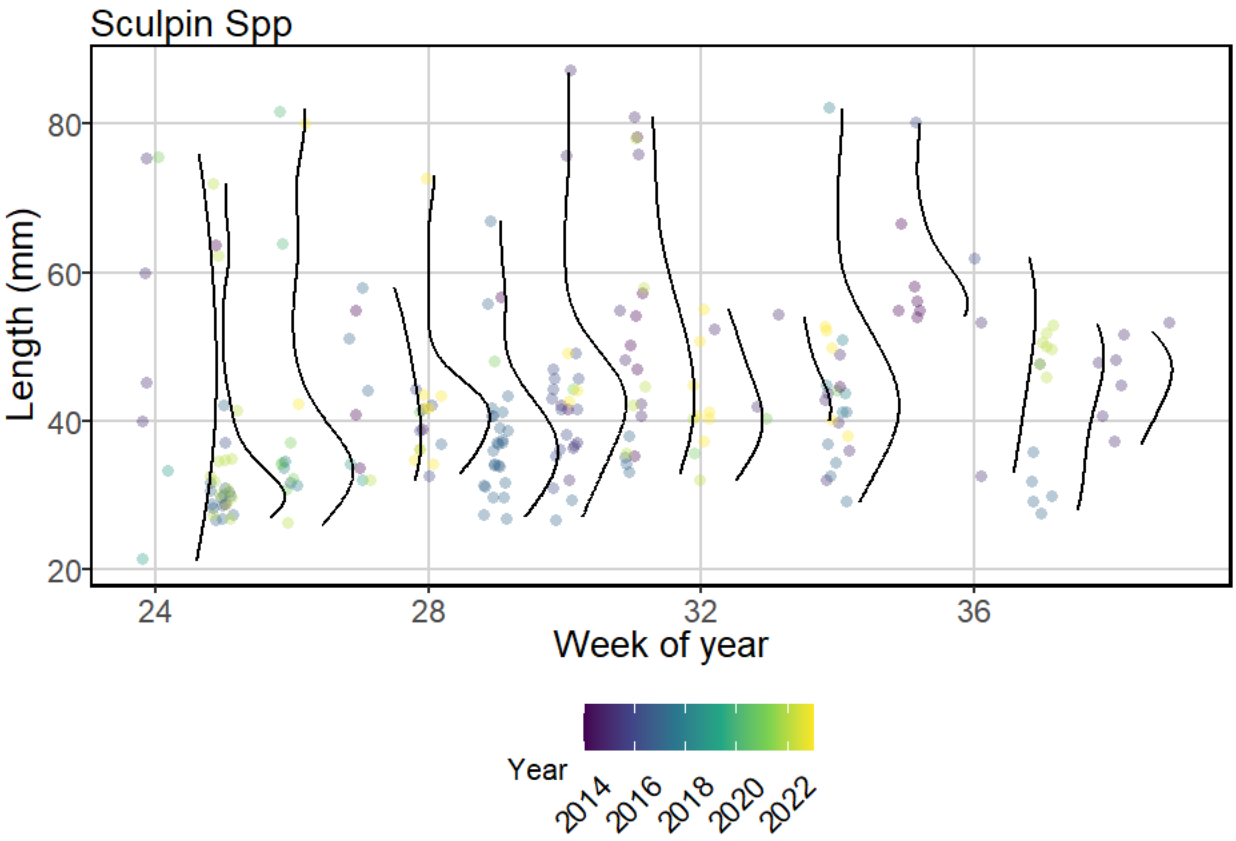

```
## Estimating learning rate. Each dot corresponds to a loss evaluation.
## qu = 0.5..........done
## qu = 0.25.....................done
## qu = 0.75...................done
## qu = 0.95...........done
## qu = 0.05.................done
## Estimating learning rate. Each dot corresponds to a loss evaluation.
## qu = 0.5.........done
## qu = 0.25.....................done
## qu = 0.75................done
## qu = 0.95...................done
## qu = 0.05............done
```

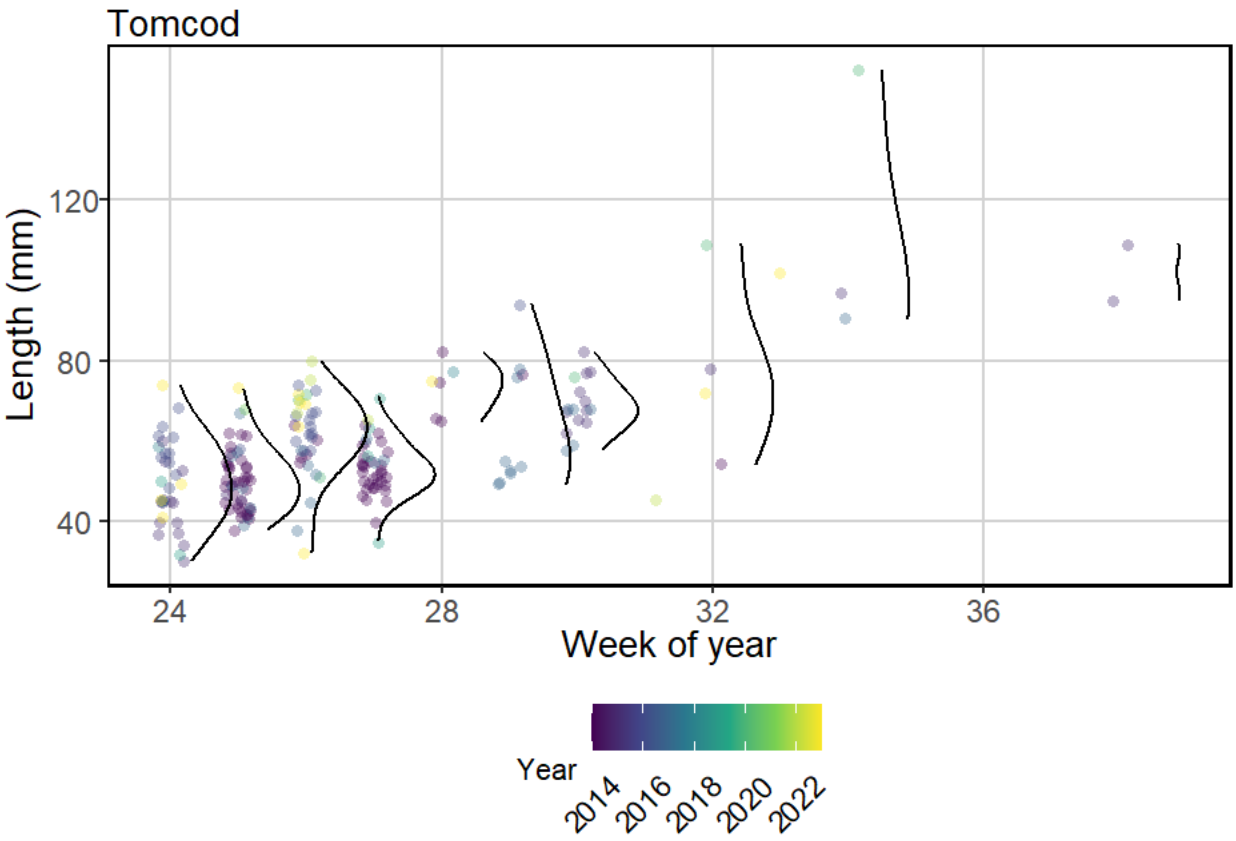

10
0
-10
s(wk)
24
28
32
36
wk
id
0.95
0.75
0.50
0.25
0.05


20
10
0
-10
s(wk)
24
28
32
36
wk
id
0.95
0.75
0.50
0.25
0.05

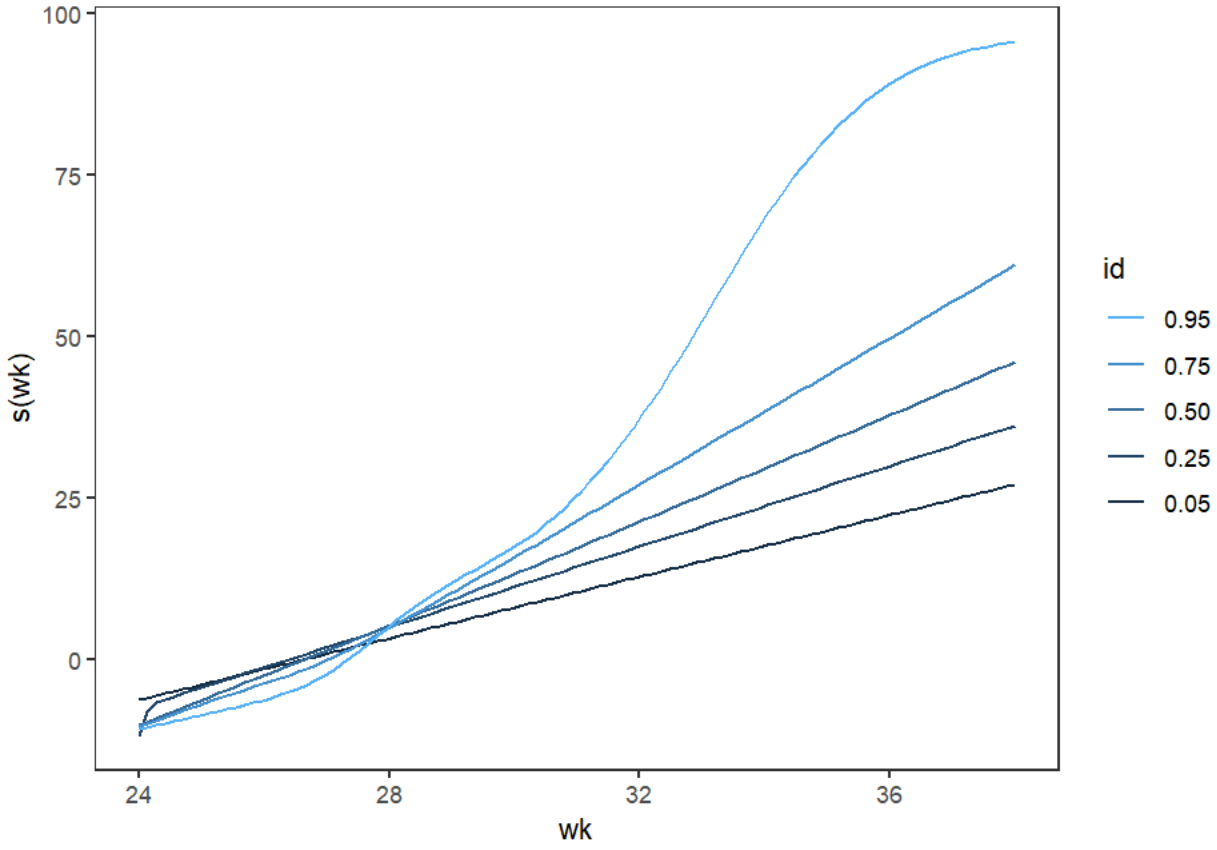

Mummichog
0.05
0.25
0.5
0.75
0.95
Length (mm)
80
60
40
20
24
28
32
36
Week of year
Period
hot
cold

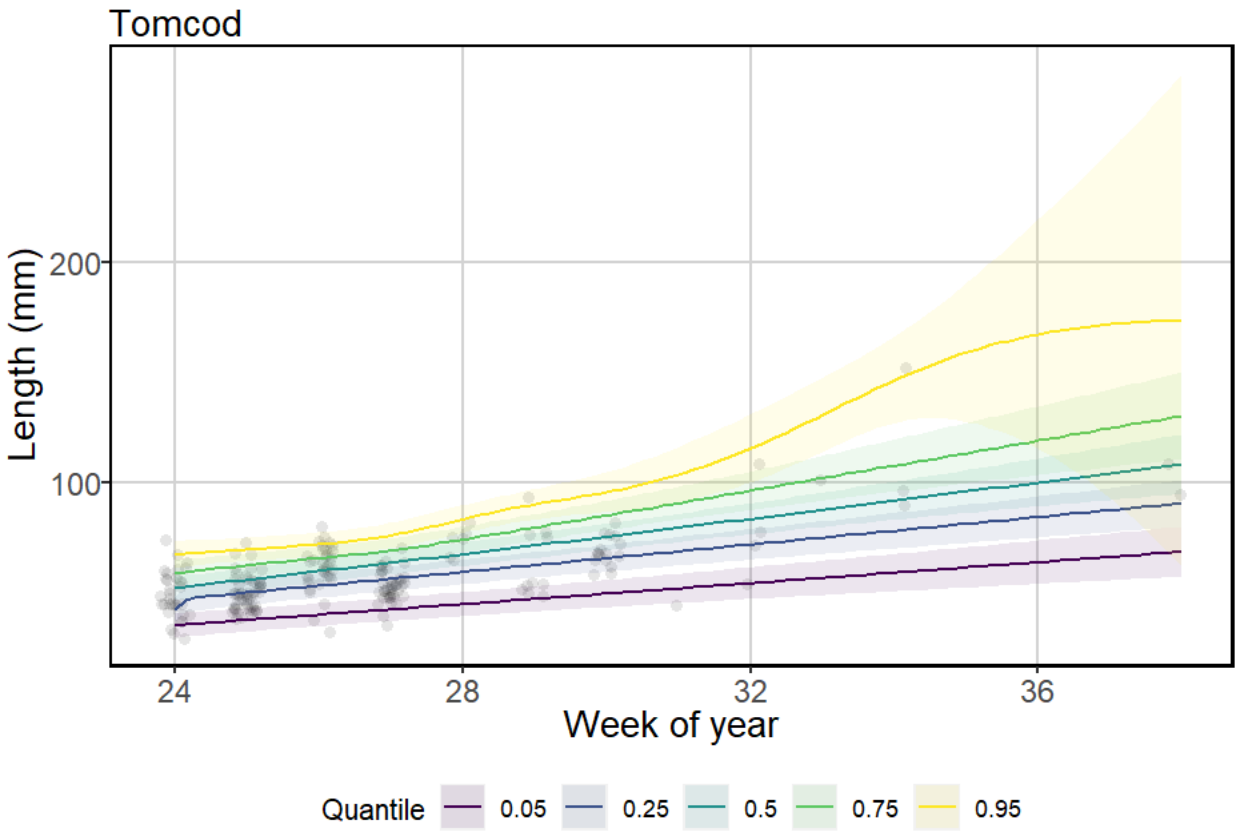

Sandlance
Length (mm)
150
125
100
75
50
25
30
35
40
Week of year
Year
2014
2016
2018
2020
2022


Sculpin Spp
Length (mm)
80
60
40
20
24
28
32
36
Week of year
Year
2014
2016
2018
2020
2022

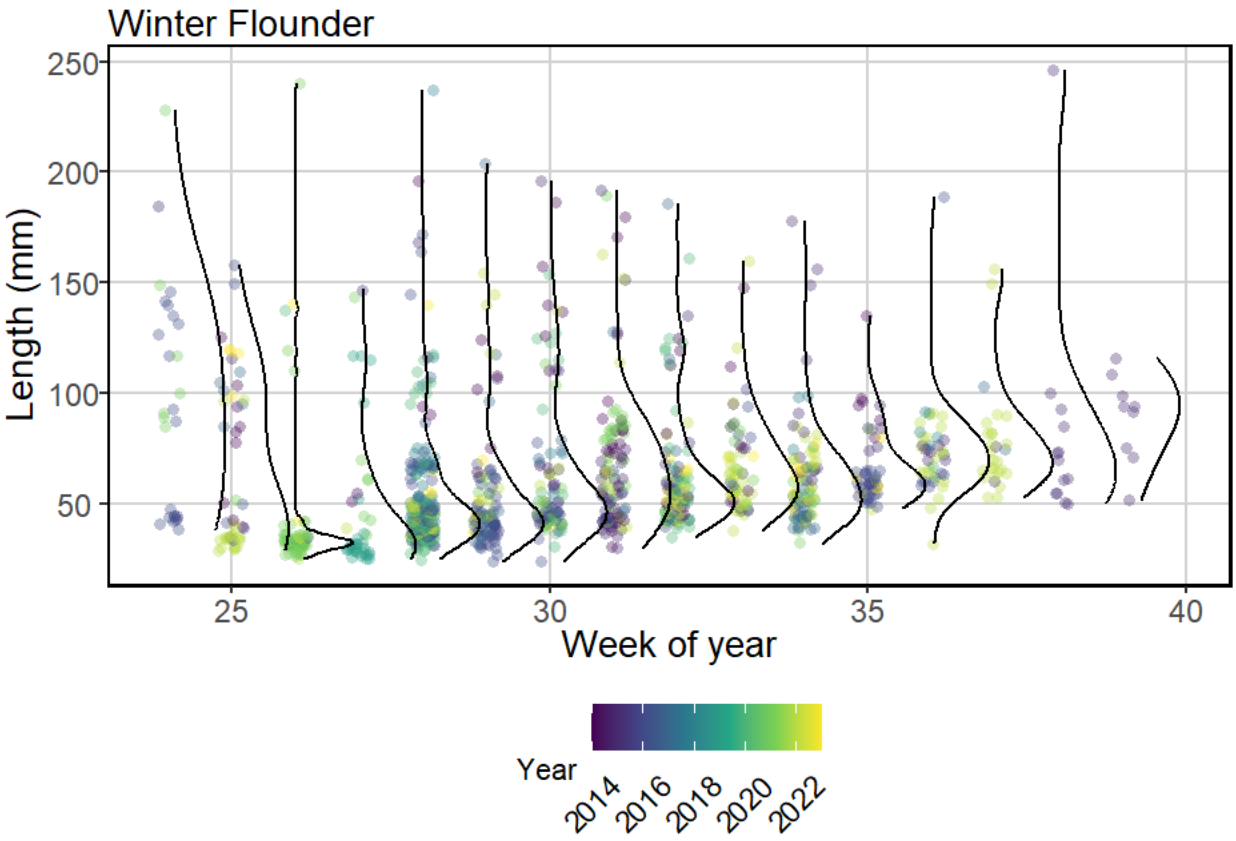



```
## Estimating learning rate. Each dot corresponds to a loss evaluation.
## qu = 0.5..................done
## qu = 0.25..................done
## qu = 0.75...........done
## qu = 0.95...................done
## qu = 0.05..................done
```

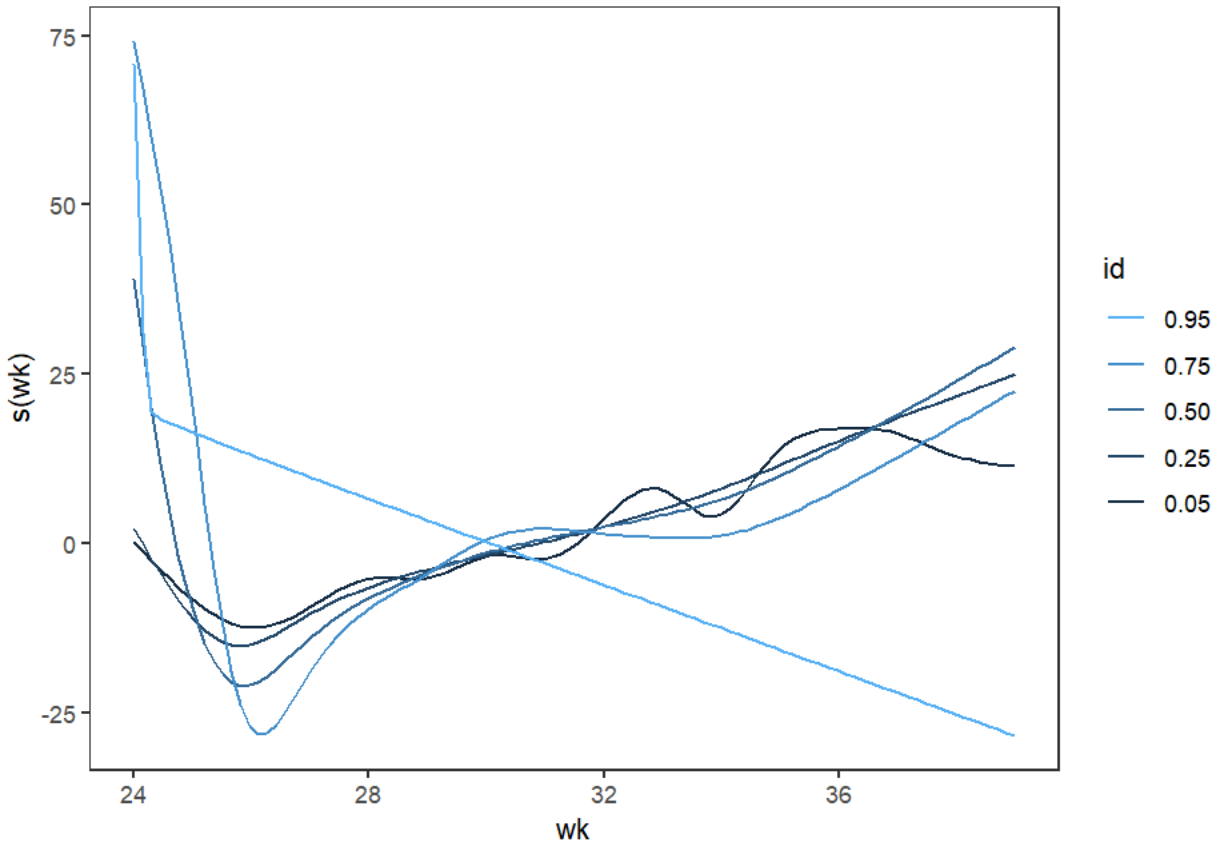

100
75
50
25
0
s(wk)
24
28
32
36
wk
id
0.95
0.75
0.50
0.25
0.05

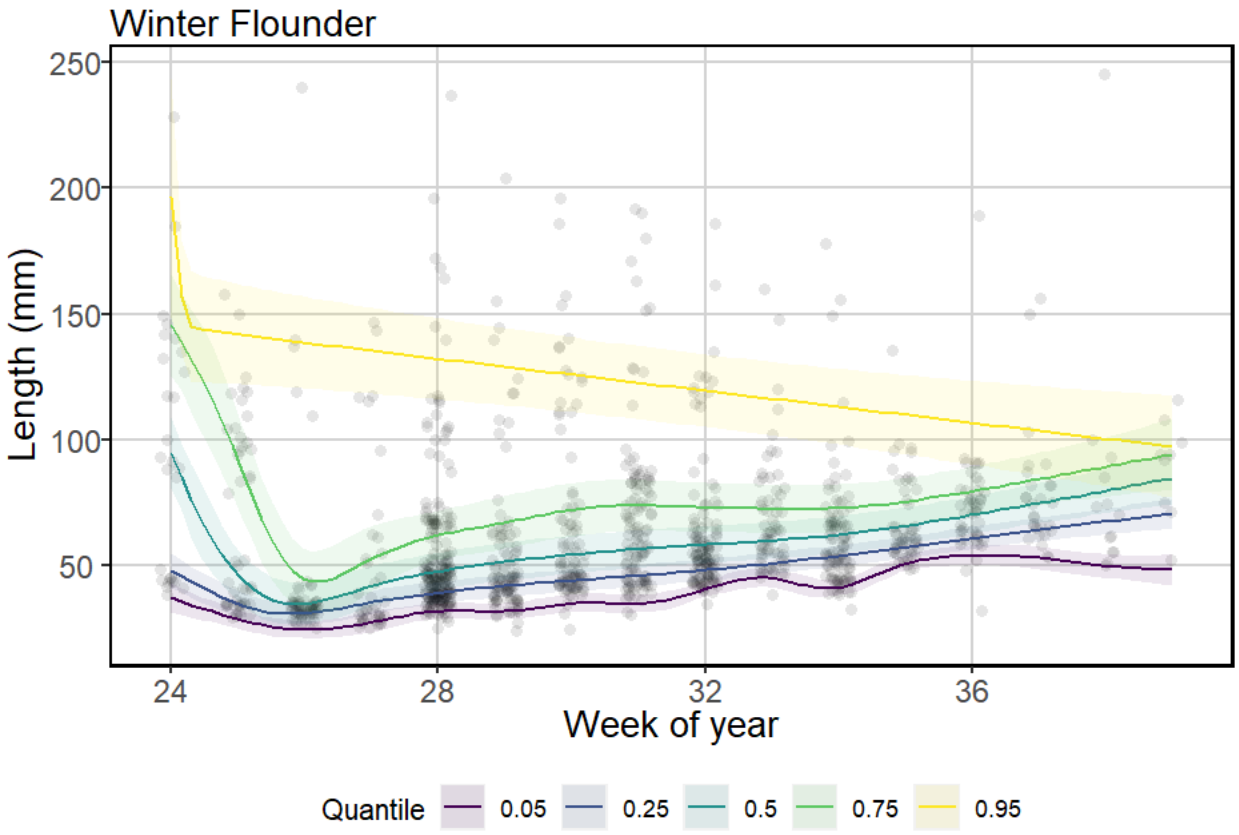



```
## Estimating learning rate. Each dot corresponds to a loss evaluation.
## qu = 0.5.............done
## qu = 0.25.............done
## qu = 0.75.............done
## qu = 0.95.....................done
## qu = 0.05.....................done
```

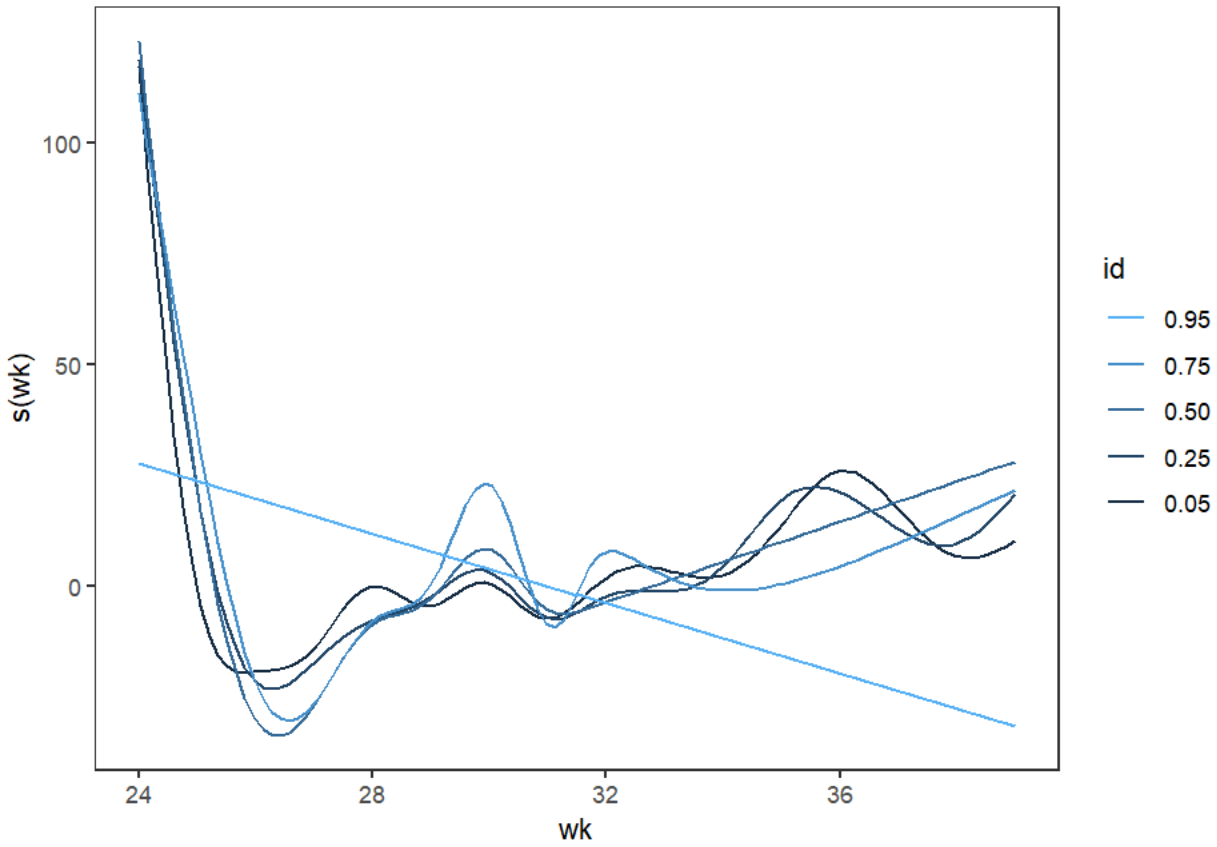


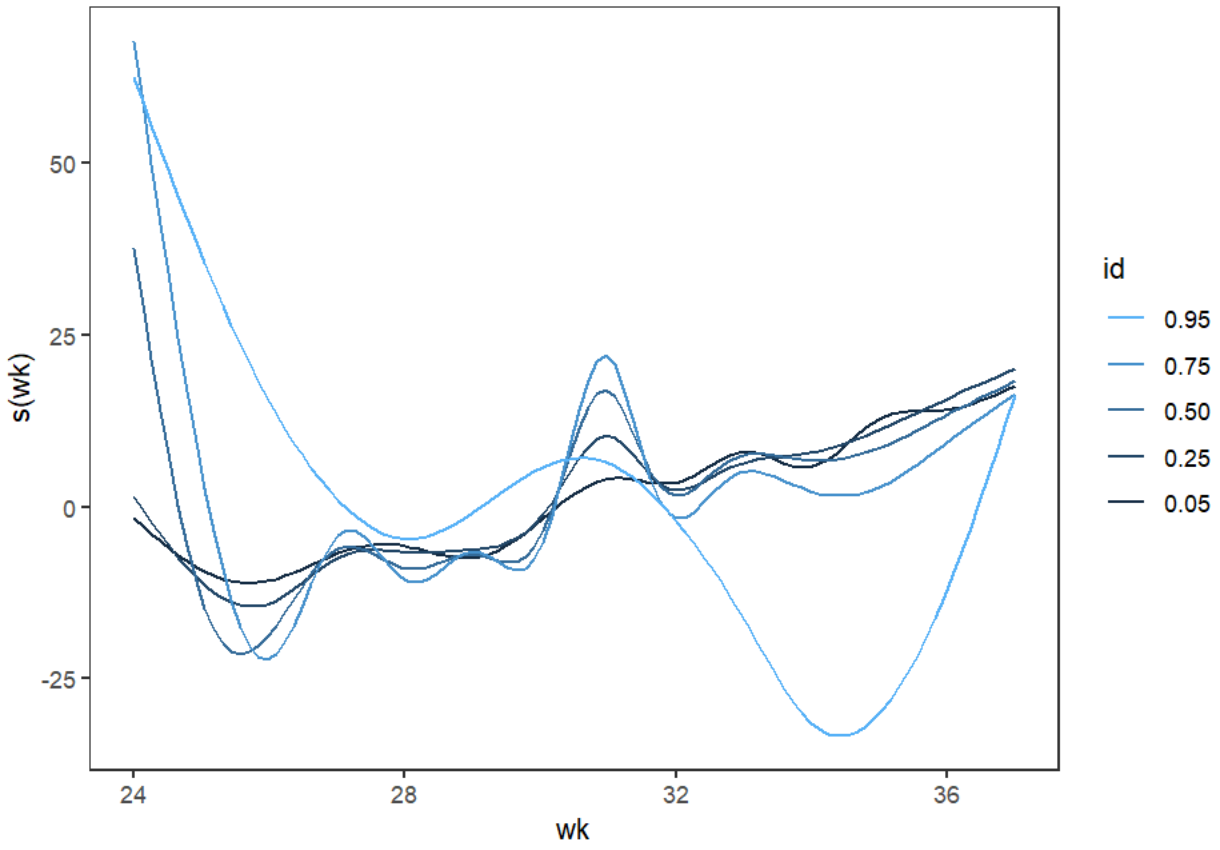

```
## Estimating learning rate. Each dot corresponds to a loss evaluation.
## qu = 0.5.............done
## qu = 0.25............done
## qu = 0.75....................done
## qu = 0.95............done
## qu = 0.05....................done
```

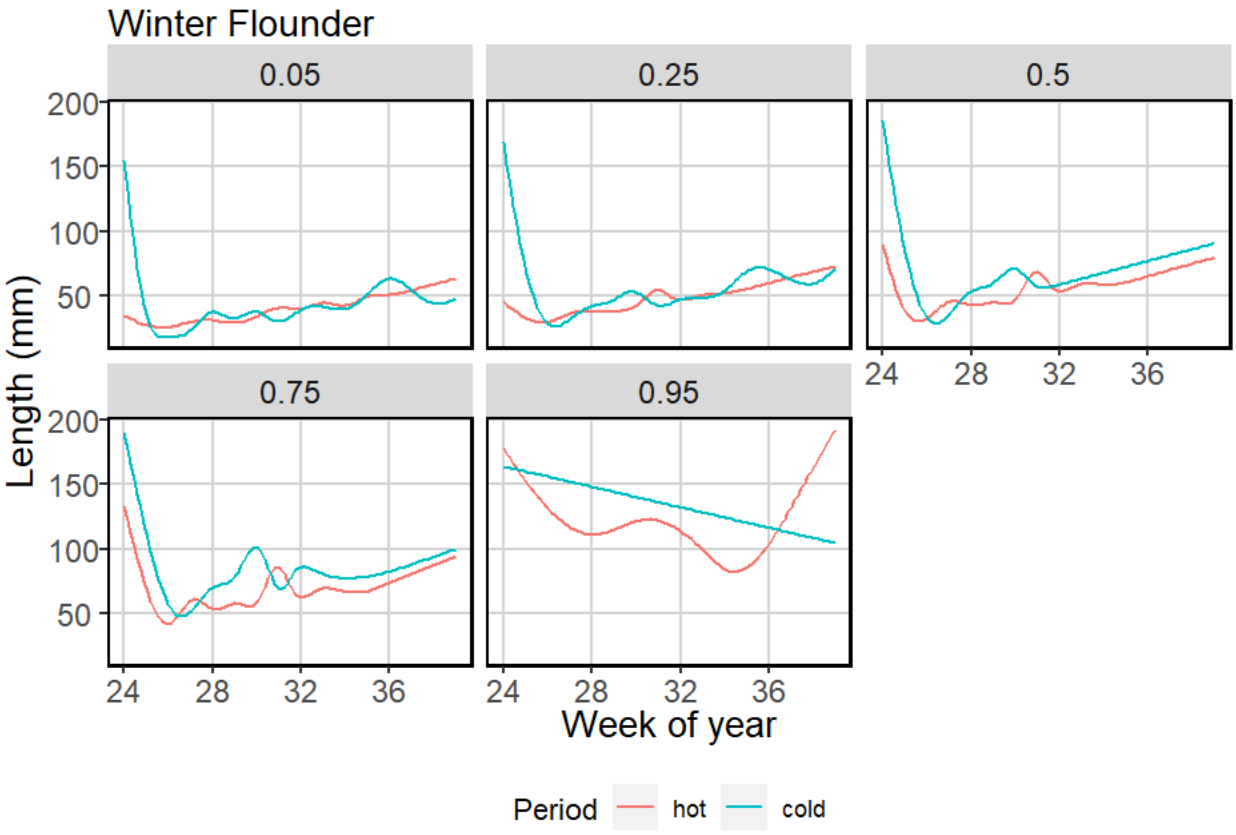

75
50
25
0
-25
s(wk)
24
28
32
36
wk
id
0.95
0.75
0.50
0.25
0.05




```
## Estimating learning rate. Each dot corresponds to a loss evaluation.
## qu = 0.5.............done
## qu = 0.25............done
## qu = 0.75............done
## qu = 0.95.............done
## qu = 0.05......................done
## Estimating learning rate. Each dot corresponds to a loss evaluation.
## qu = 0.5............done
## qu = 0.25.........................done
## qu = 0.75..........done
## qu = 0.95..................done
## qu = 0.05............done
```


100
50
0
s(wk)
24
28
32
36
wk
id
0.95
0.75
0.50
0.25
0.05


50
25
0
-25
s(wk)
24
28
32
36
wk
id
0.95
0.75
0.50
0.25
0.05


Winter Flounder
0.05
0.25
0.5
0.75
0.95
Length (mm)
200
150
100
50
24
28
32
36
Week of year
Period
hot
cold