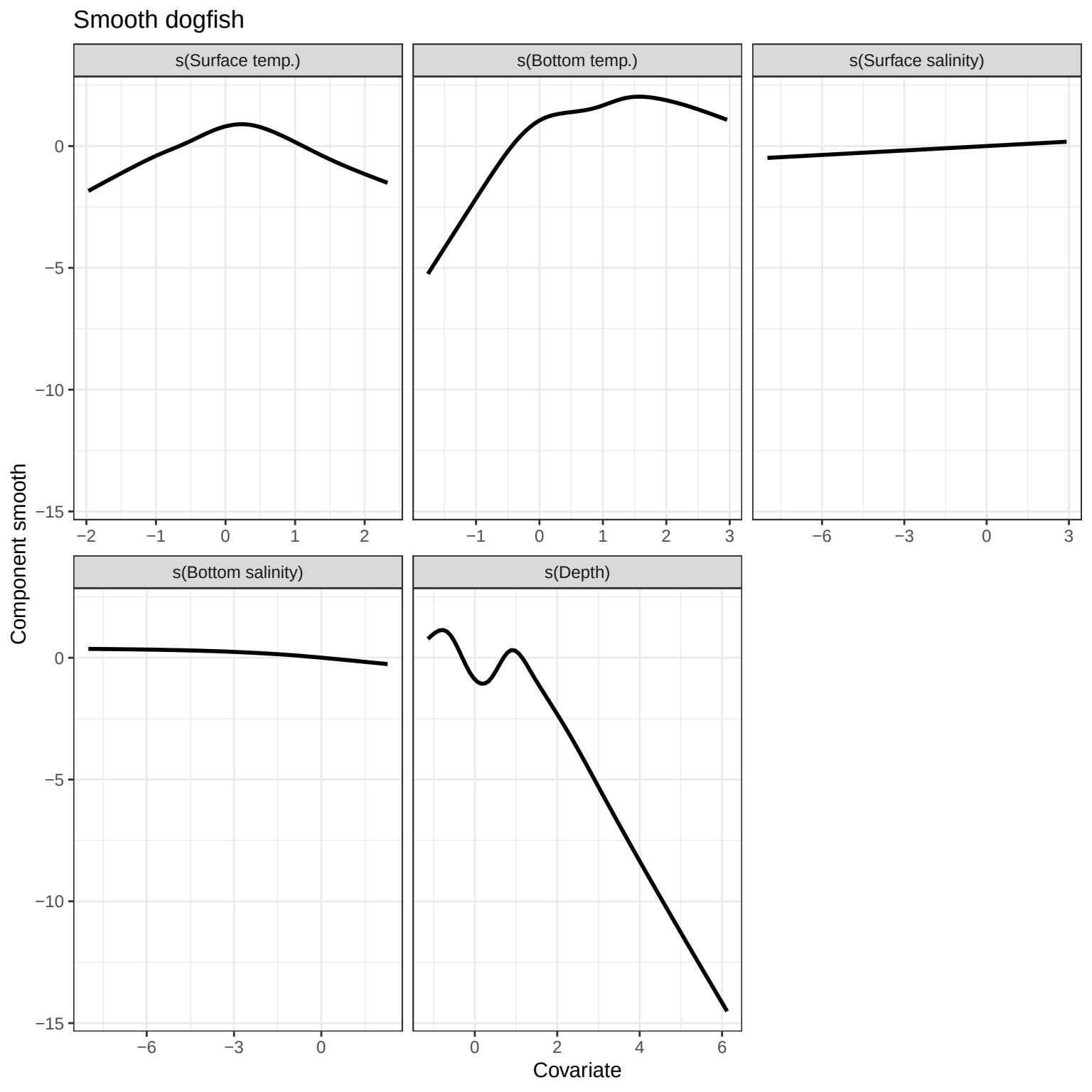
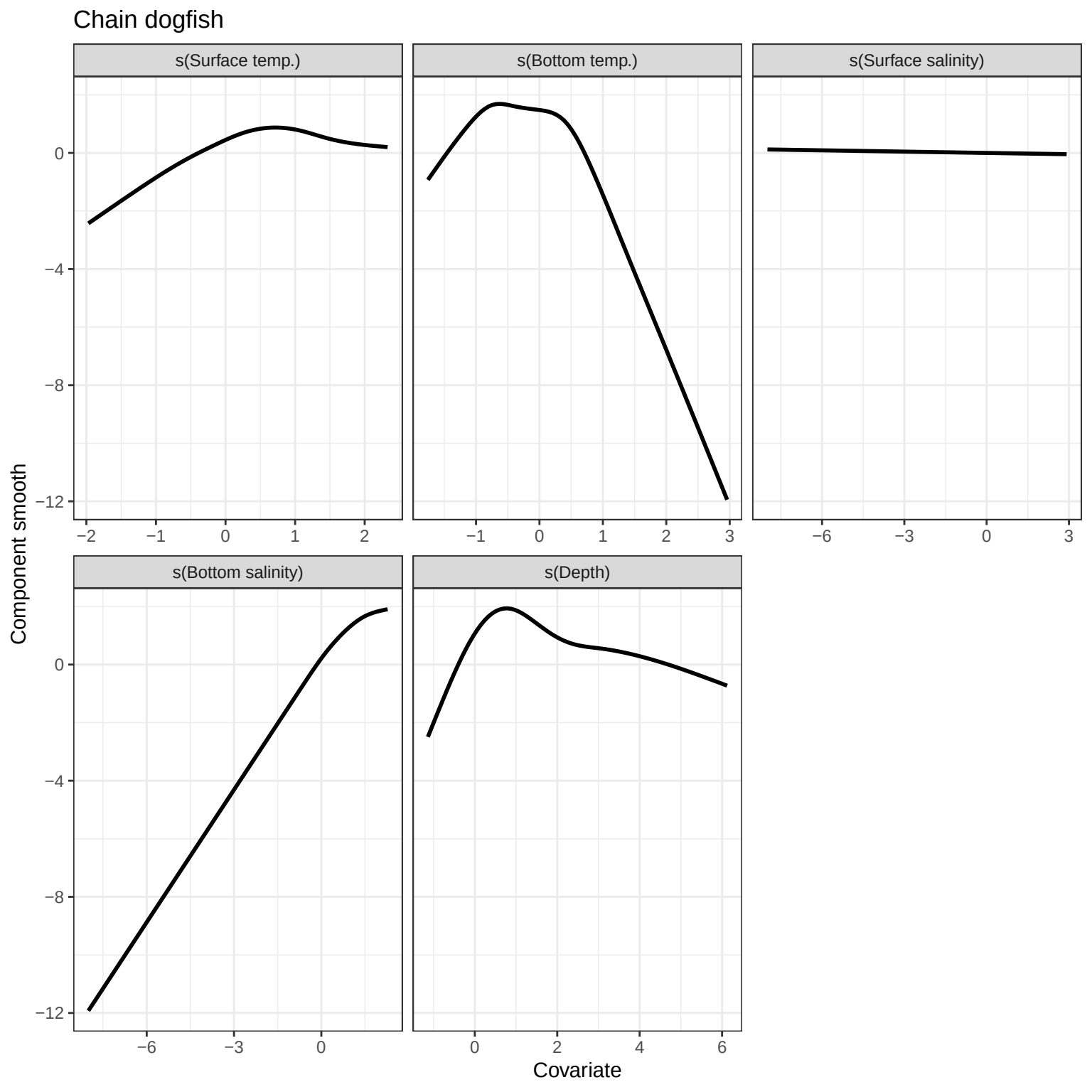
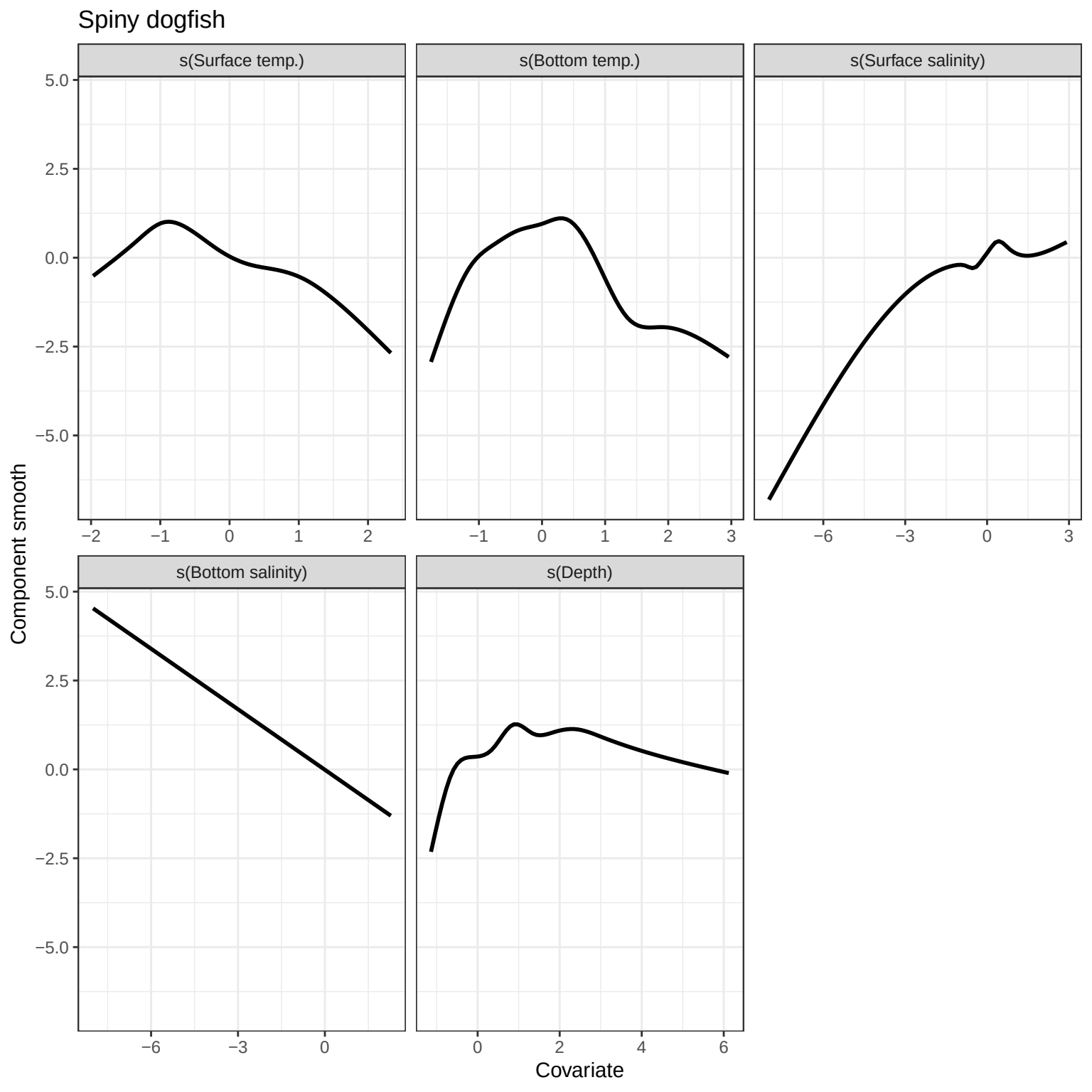
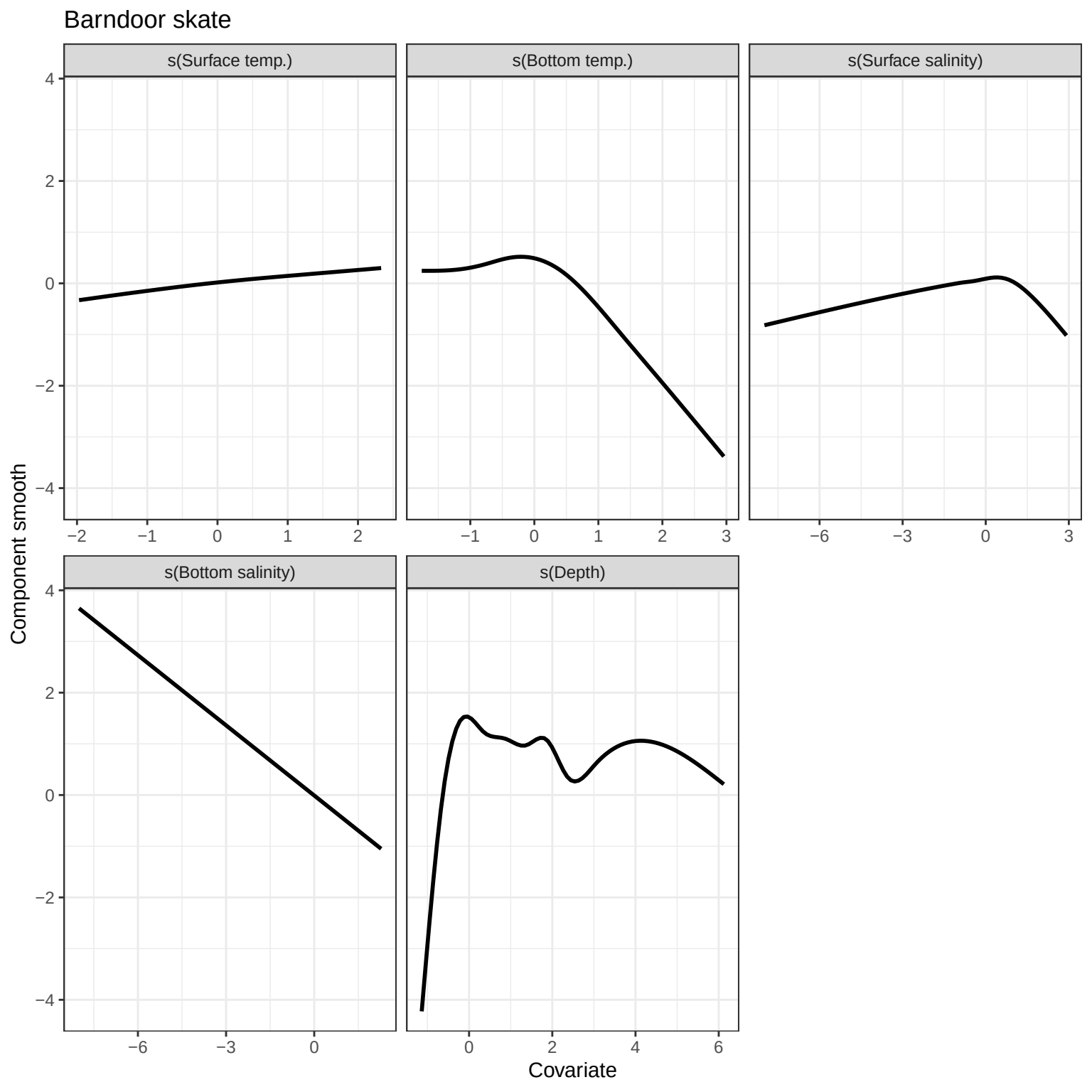
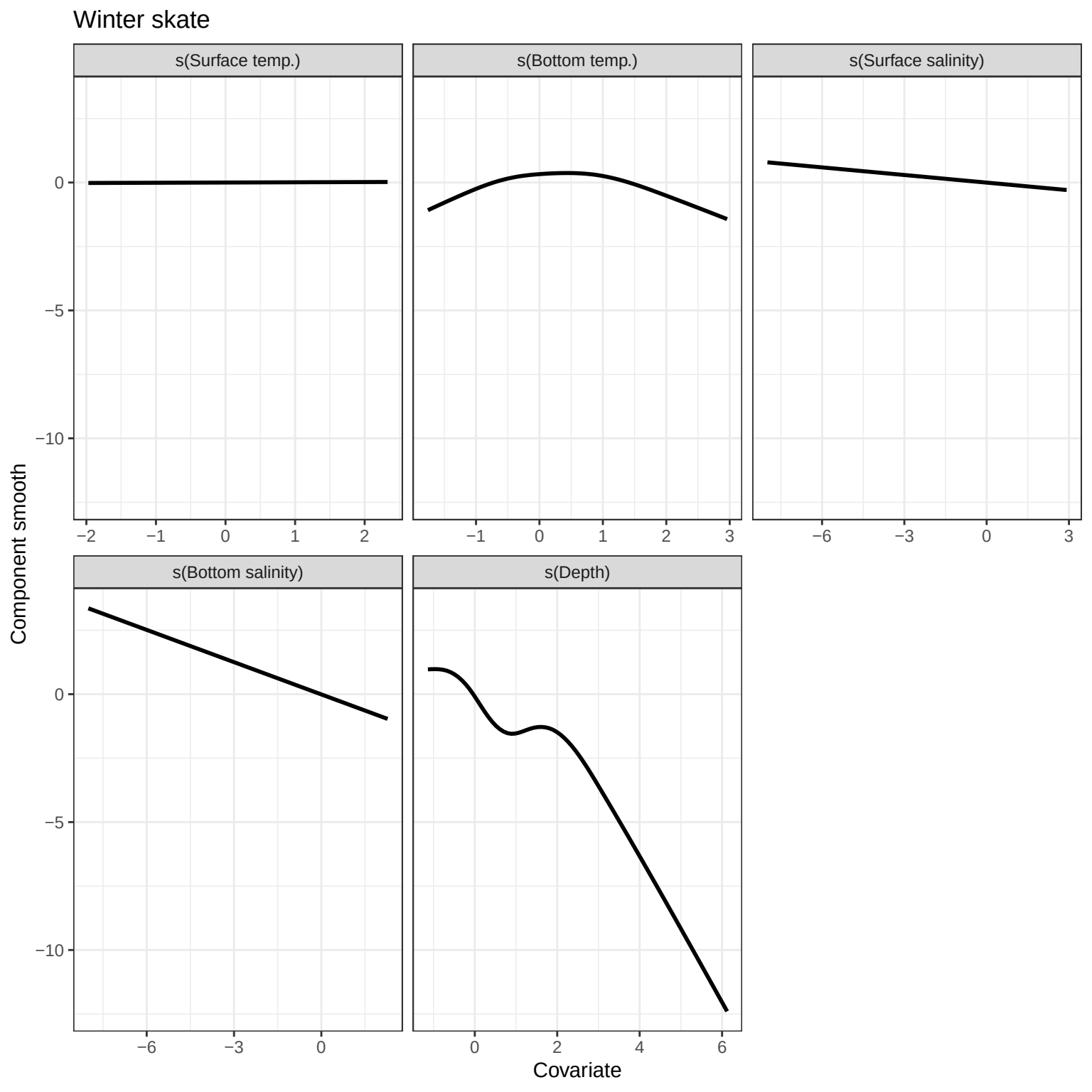
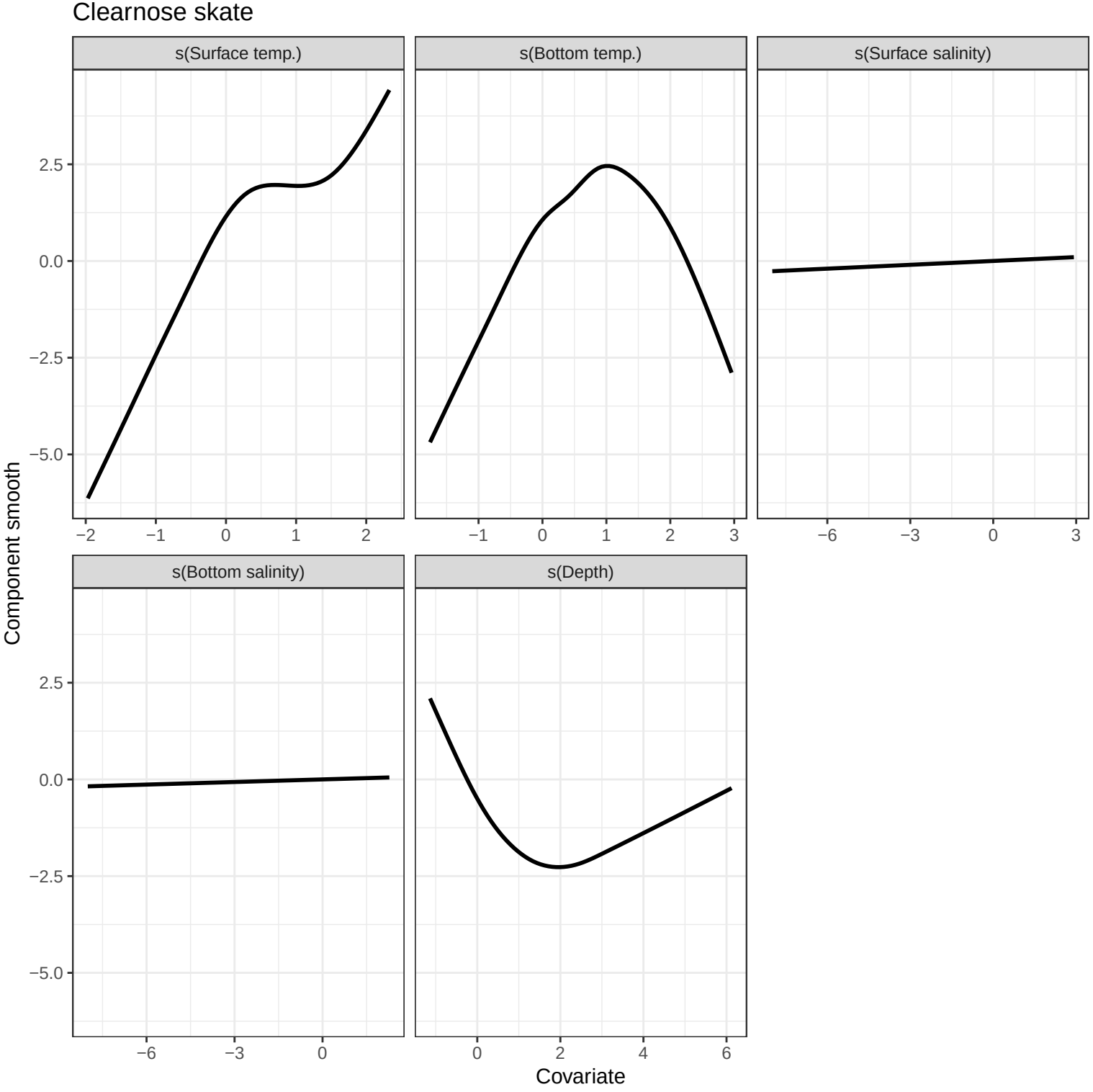

Smooth dogfish
s(Surface temp.)
s(Bottom temp.)
s(Surface salinity)
s(Bottom salinity)
s(Depth)
Component smooth
Covariate
0
−5
−10
−15
−2
−1
0
1
2
3
−6
−3
0
2
4
6

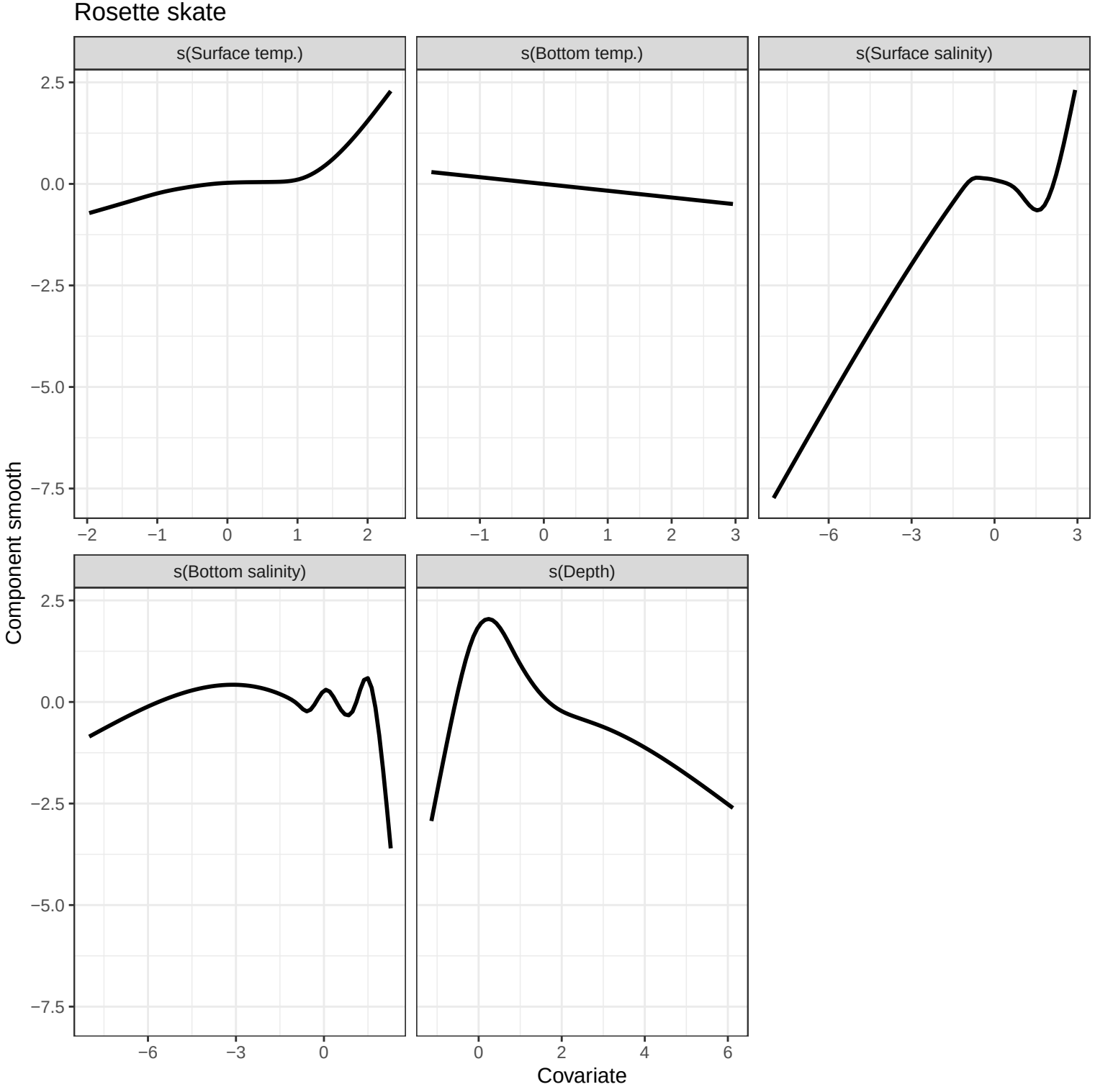

Chain dogfish
s(Surface temp.)
s(Bottom temp.)
s(Surface salinity)
s(Bottom salinity)
s(Depth)
Component smooth
Covariate
0
−4
−8
−12
−2
−1
0
1
2
3
−6
−3
0
2
4
6

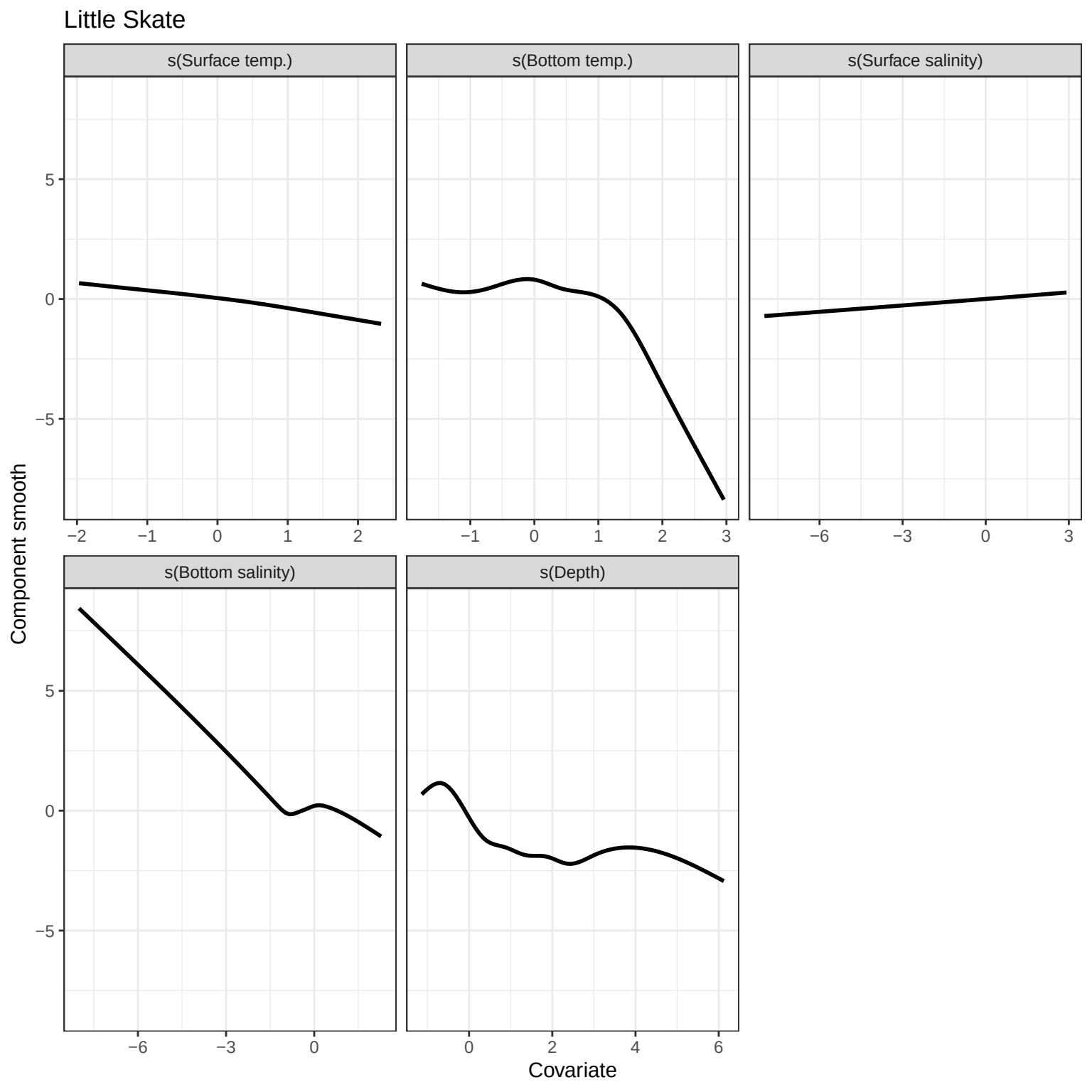

Spiny dogfish
s(Surface temp.)
s(Bottom temp.)
s(Surface salinity)
s(Bottom salinity)
s(Depth)
Component smooth
Covariate
5.0
2.5
0.0
−2.5
−5.0
−2
−1
0
1
2
3
−6
−3
0
2
4
6


Barndoor skate
s(Surface temp.)
s(Bottom temp.)
s(Surface salinity)
s(Bottom salinity)
s(Depth)
Component smooth
Covariate

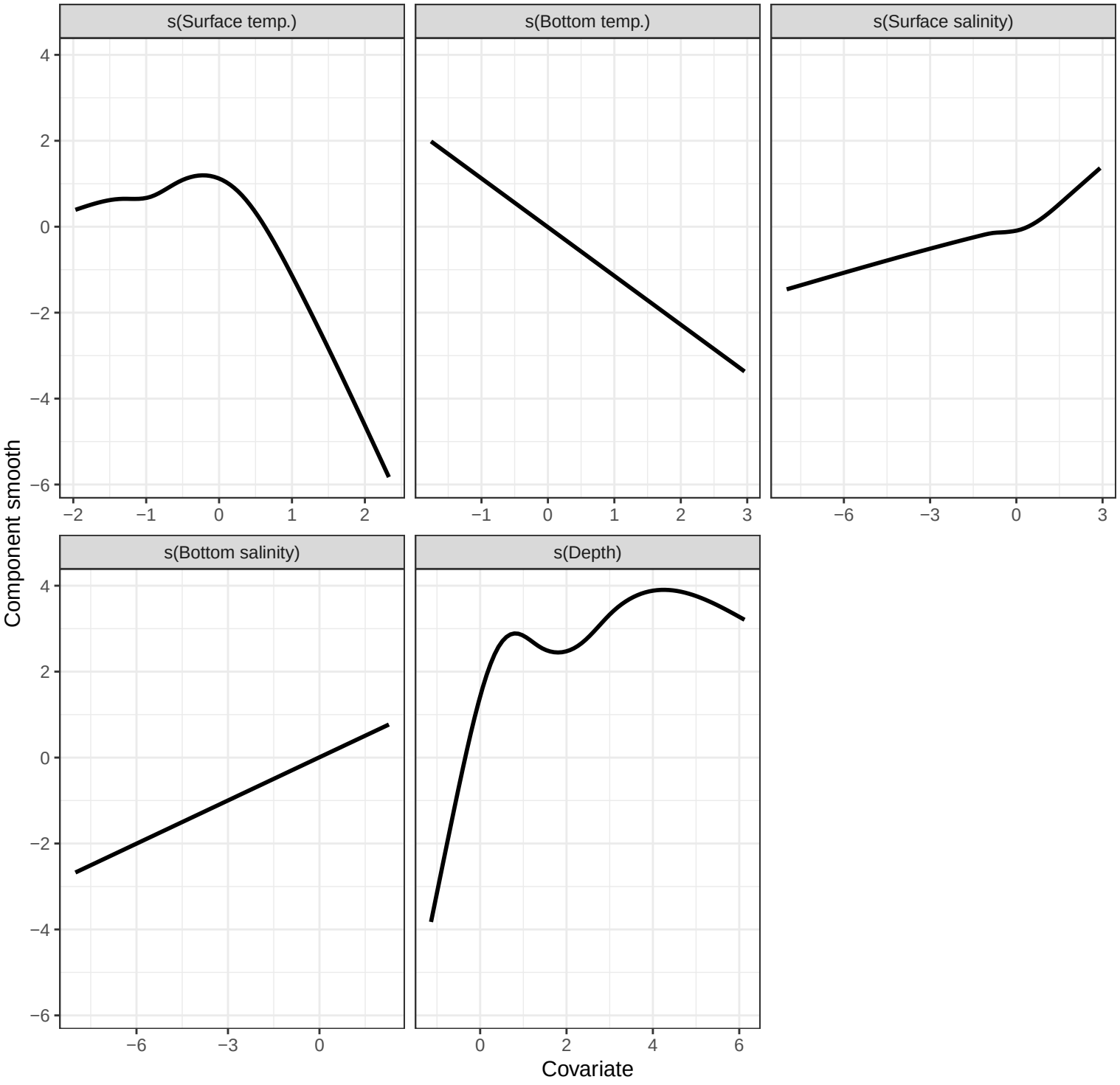

Winter skate
s(Surface temp.)
s(Bottom temp.)
s(Surface salinity)
s(Bottom salinity)
s(Depth)
Component smooth
Covariate
0
−5
−10
−2
−1
0
1
2
3
−6
−3
4
6

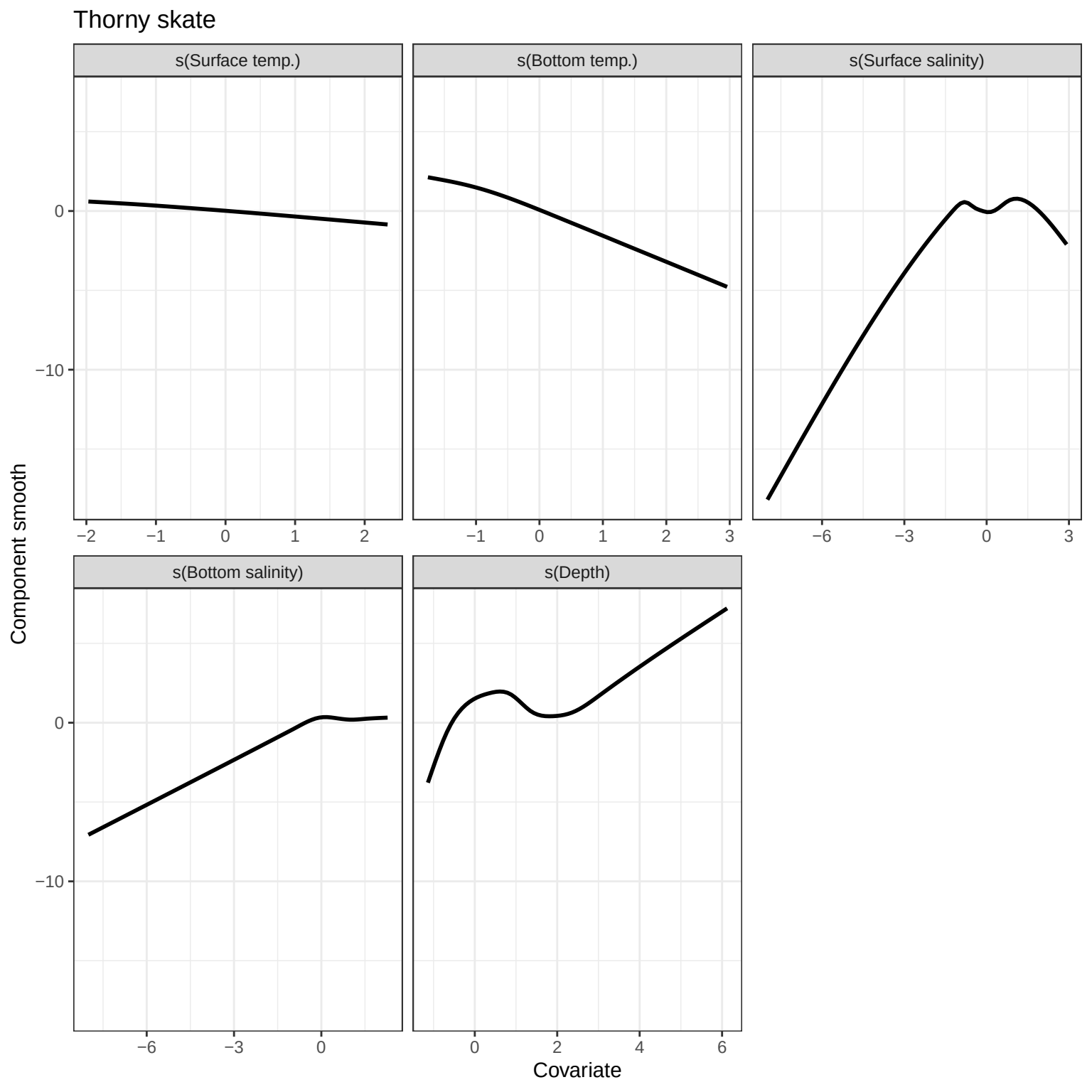

Clearnose skate
s(Surface temp.)
s(Bottom temp.)
s(Surface salinity)
s(Bottom salinity)
s(Depth)
Component smooth
Covariate
2.5
0.0
−2.5
−5.0
−2
−1
0
1
2
3
−6
−3
4
6

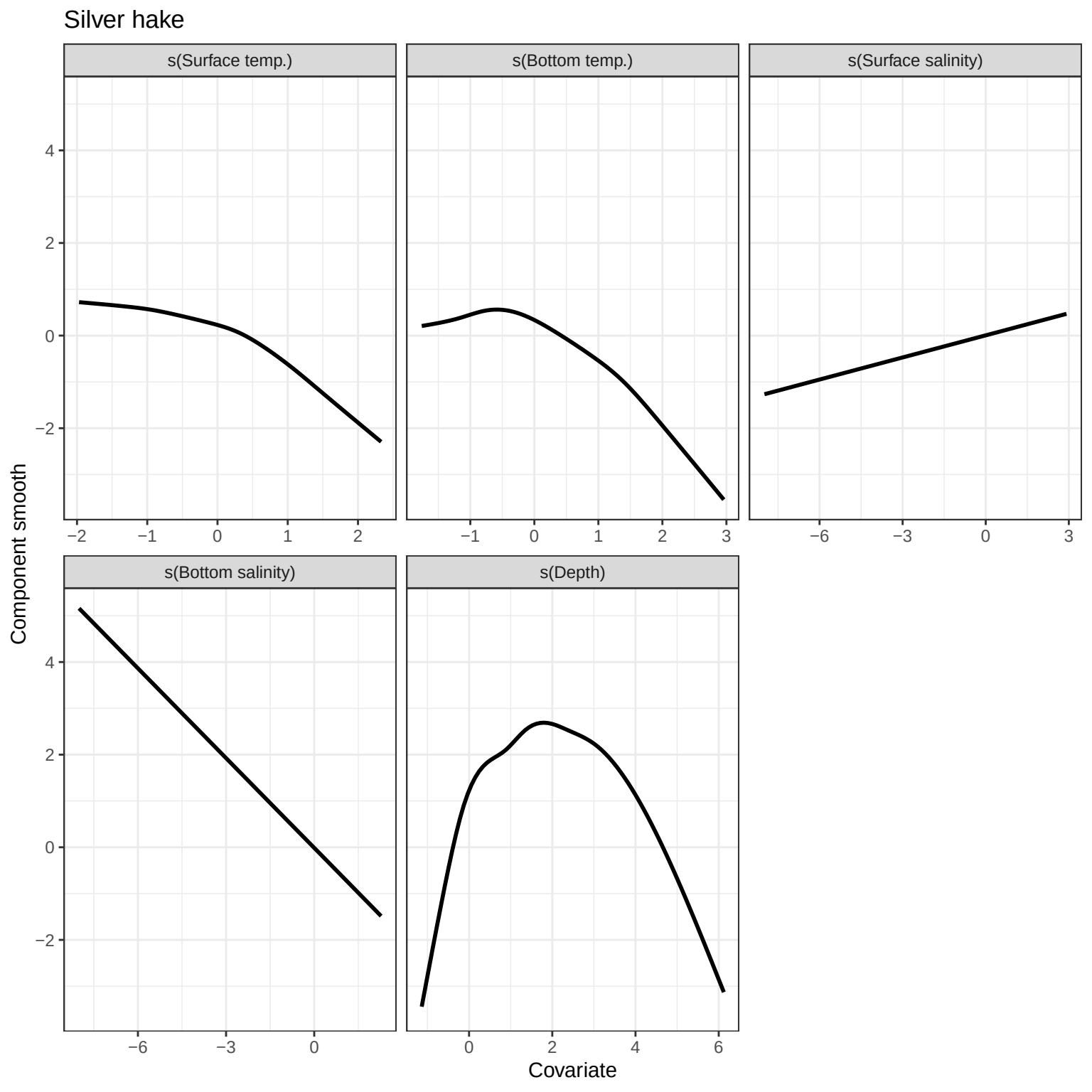

Rosette skate
s(Surface temp.)
s(Bottom temp.)
s(Surface salinity)
s(Bottom salinity)
s(Depth)
Component smooth
Covariate
2.5
0.0
−2.5
−5.0
−7.5
−2
−1
0
1
2
3
−6
−3
4
6

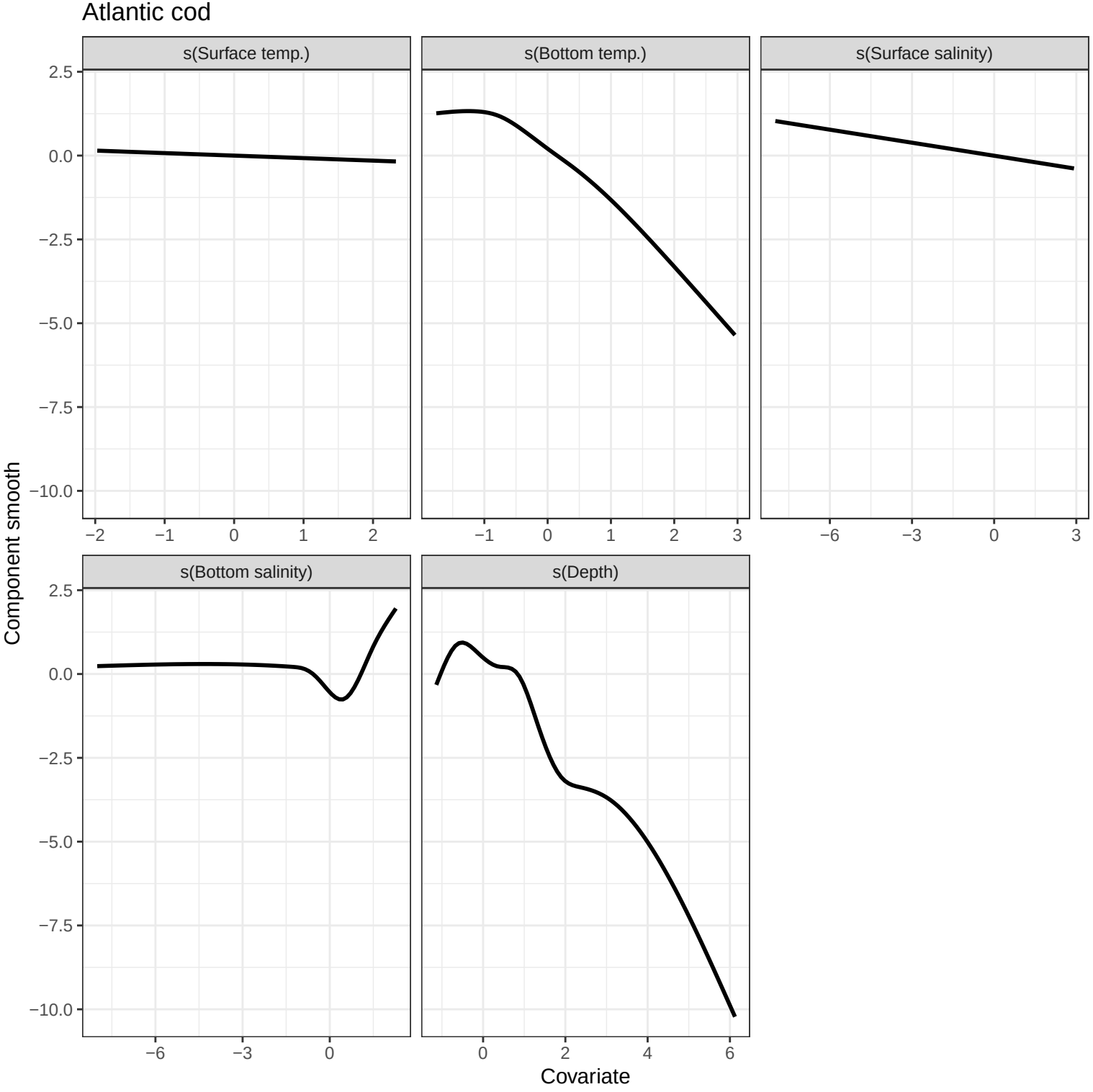

Little Skate
s(Surface temp.)
s(Bottom temp.)
s(Surface salinity)
s(Bottom salinity)
s(Depth)
Component smooth
Covariate
5
0
−5
−2
−1
0
1
2
3
−6
−3
4
6

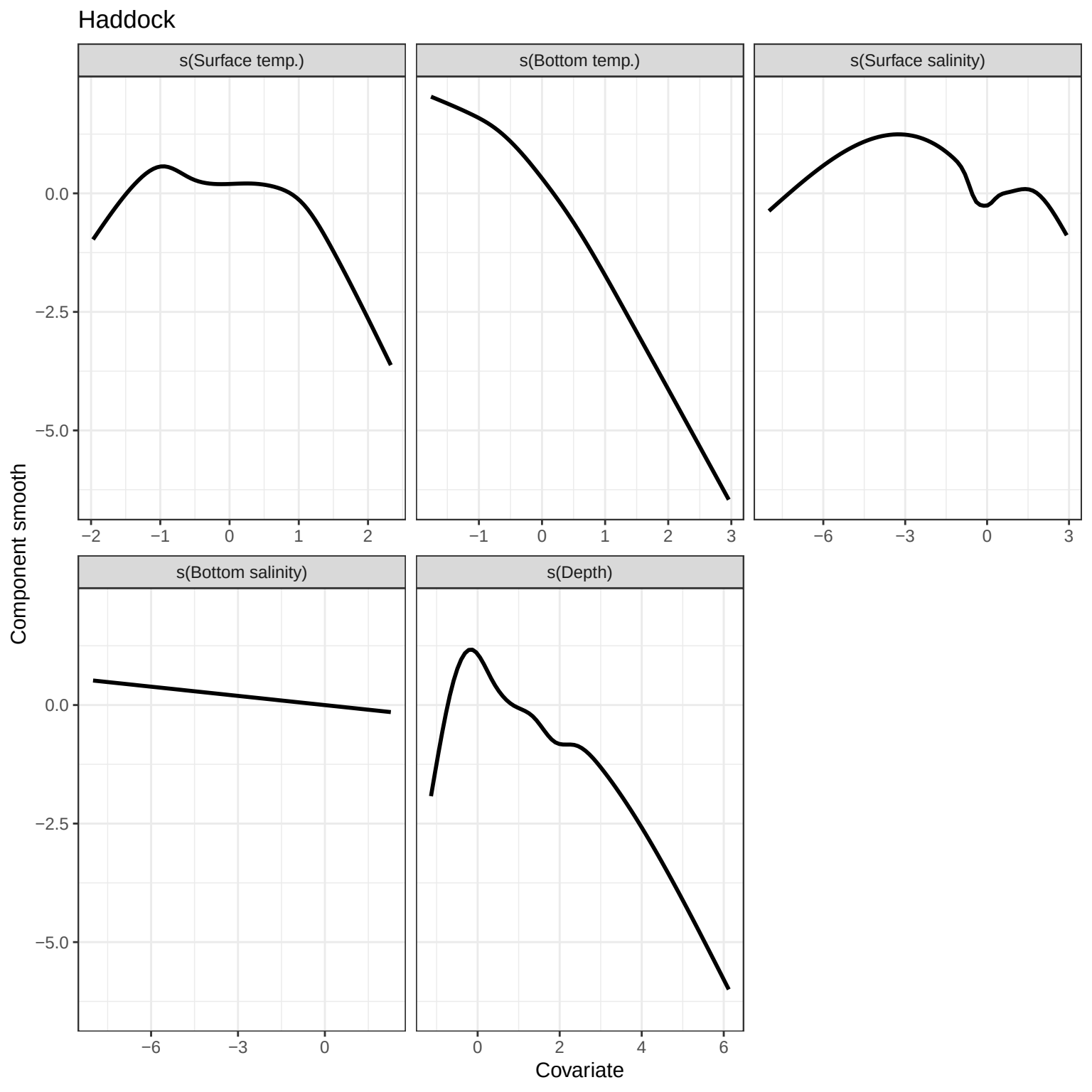
Smooth skate

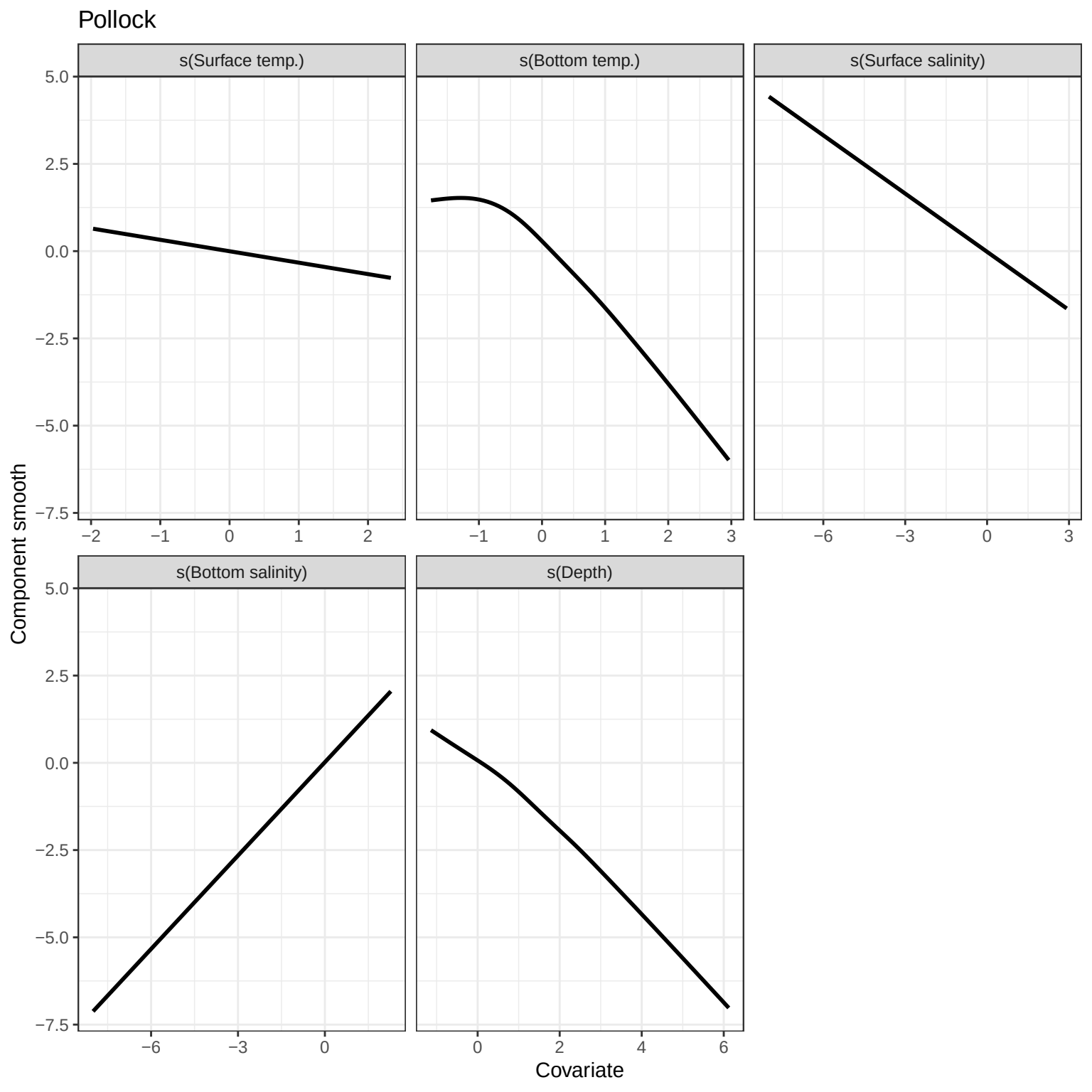


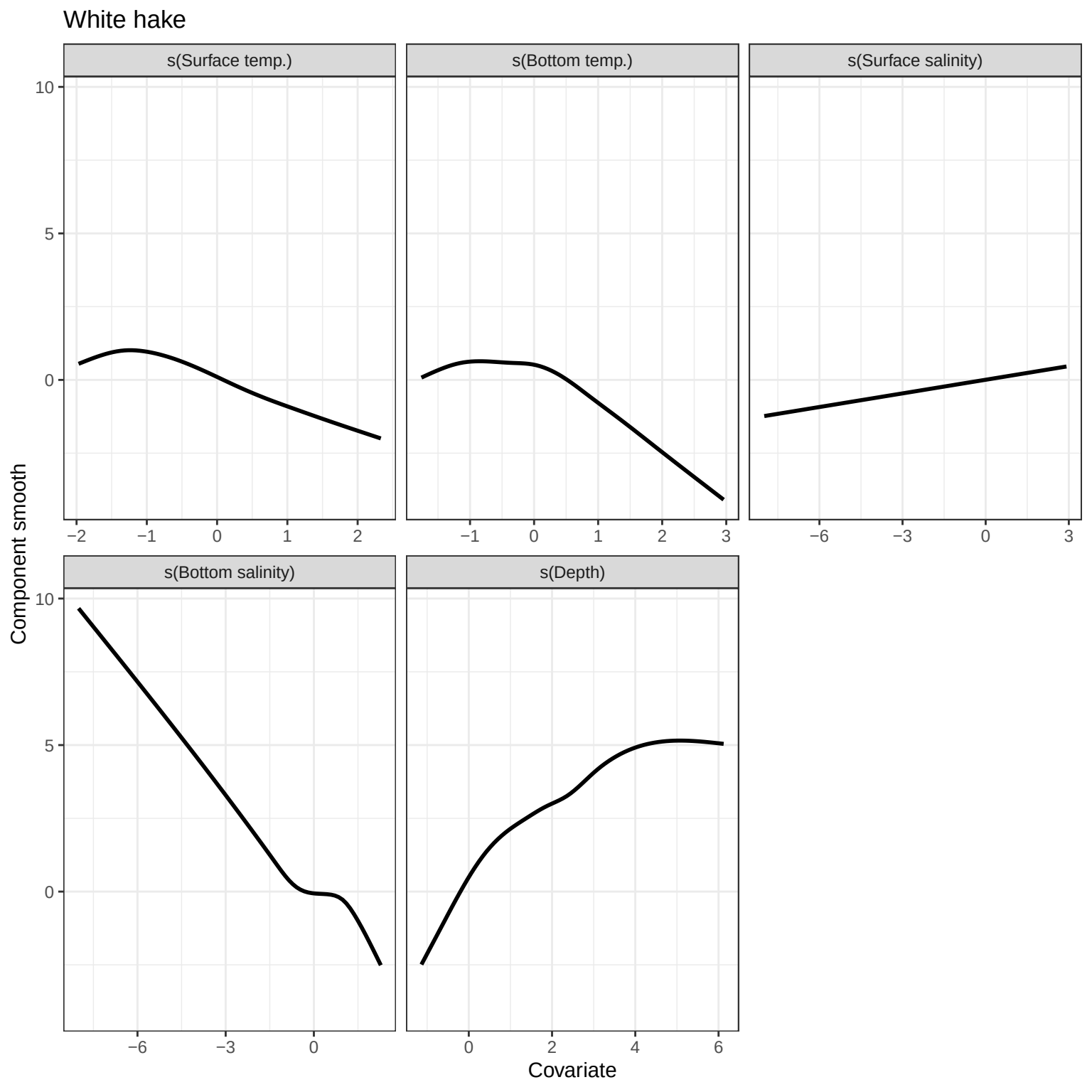

Thorny skate
s(Surface temp.)
s(Bottom temp.)
s(Surface salinity)
s(Bottom salinity)
s(Depth)
Component smooth
Covariate
0
−10
−2
−1
0
1
2
3
−6
−3
4
6


Silver hake
s(Surface temp.)
s(Bottom temp.)
s(Surface salinity)
s(Bottom salinity)
s(Depth)
Component smooth
Covariate

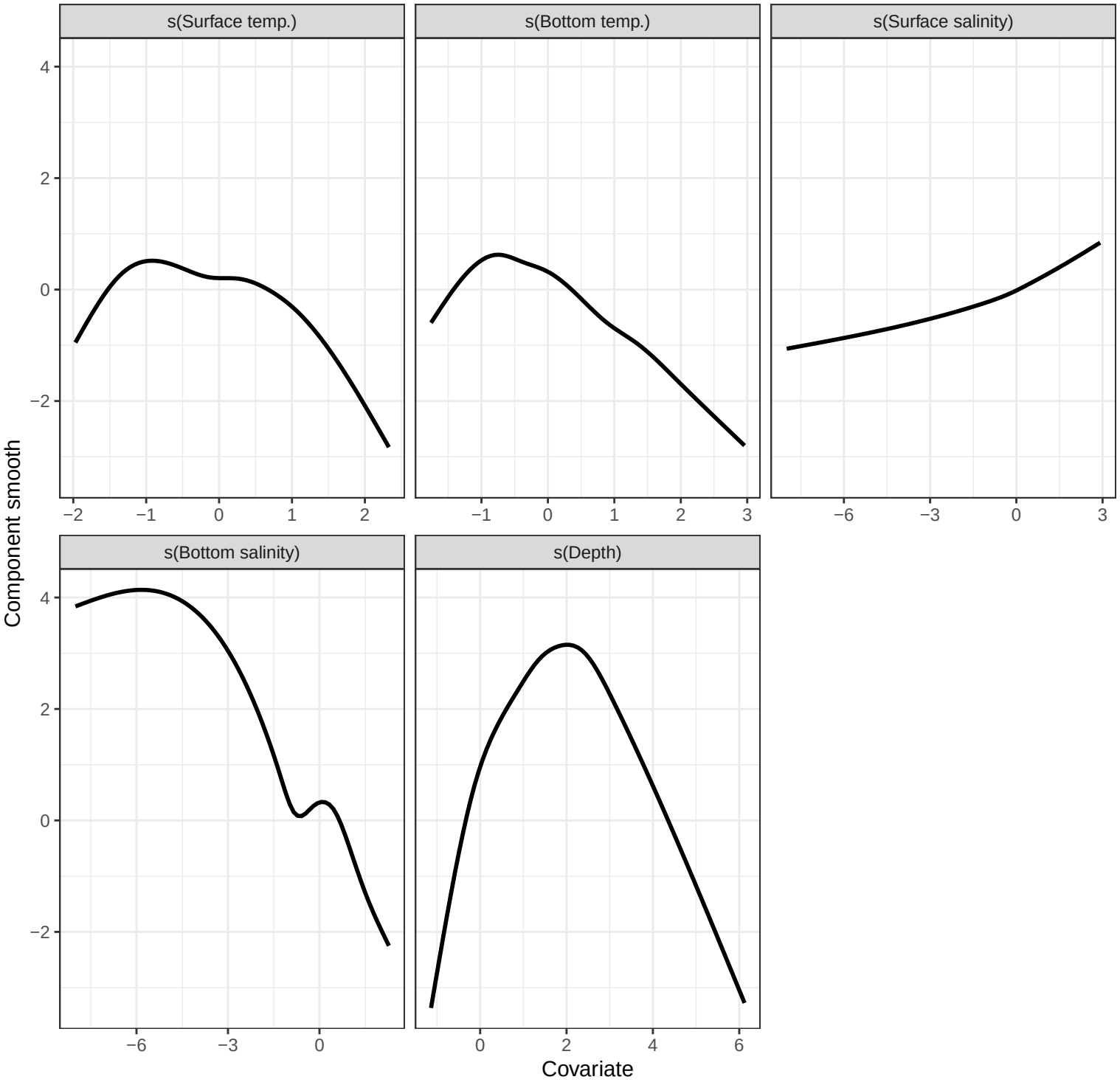

Atlantic cod
s(Surface temp.)
s(Bottom temp.)
s(Surface salinity)
s(Bottom salinity)
s(Depth)
Component smooth
Covariate
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−2
−1
0
1
2
3
−6
−3
4
6


Haddock
s(Surface temp.)
s(Bottom temp.)
s(Surface salinity)
s(Bottom salinity)
s(Depth)
Component smooth
Covariate
0.0
−2.5
−5.0
−2
−1
0
1
2
3
−6
−3
4
6

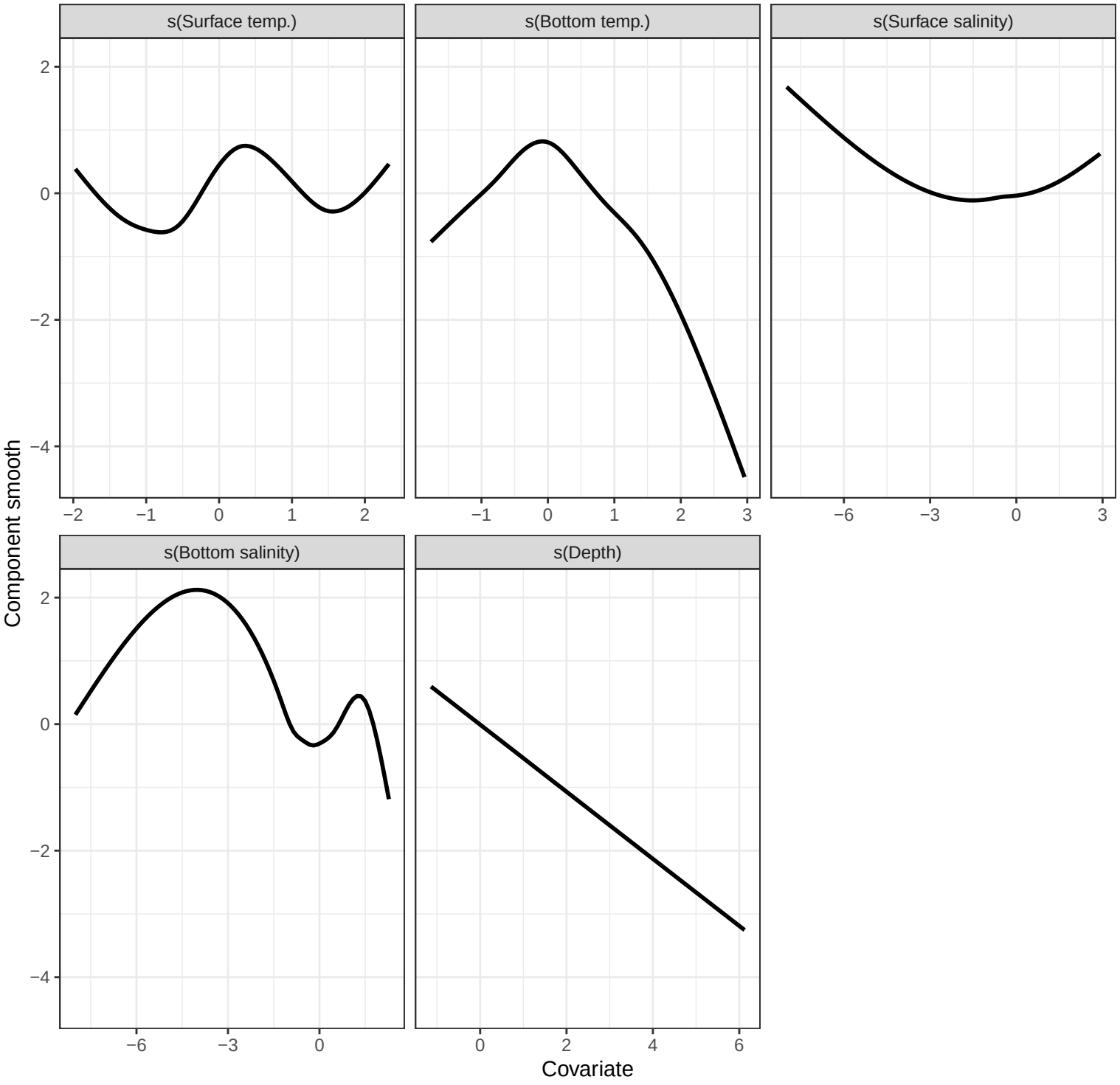

Pollock
s(Surface temp.)
s(Bottom temp.)
s(Surface salinity)
s(Bottom salinity)
s(Depth)
Component smooth
Covariate
5.0
2.5
0.0
−2.5
−5.0
−7.5
−2
−1
0
1
2
3
−6
−3
0
2
4
6


White hake
s(Surface temp.)
s(Bottom temp.)
s(Surface salinity)
s(Bottom salinity)
s(Depth)
Component smooth
Covariate
10
5
0
−2
−1
0
1
2
3
−6
−3
4
6

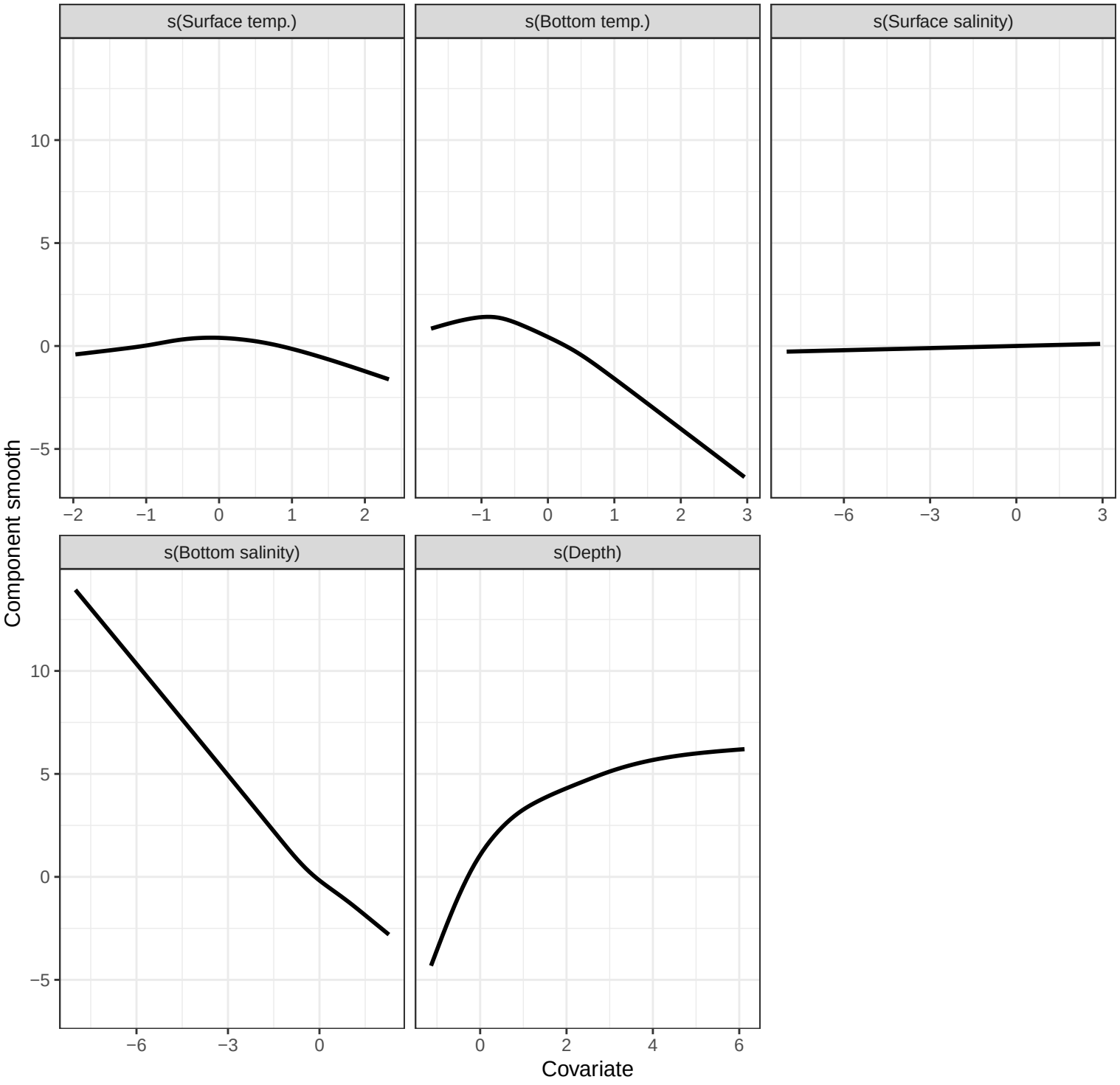
Red hake

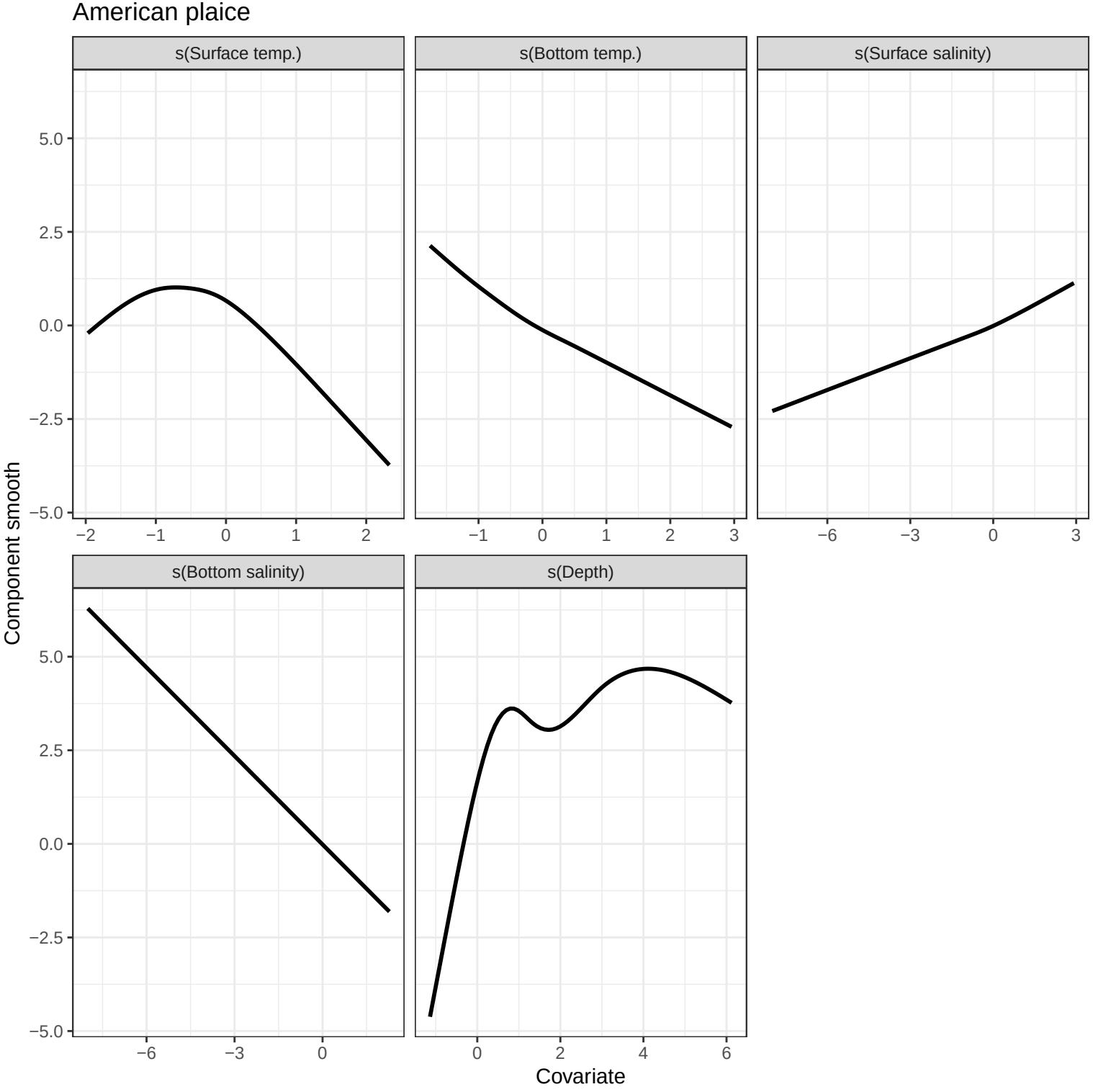

s(Surface temp.)
s(Bottom temp.)
s(Surface salinity)
s(Bottom salinity)
s(Depth)
Component smooth
Covariate

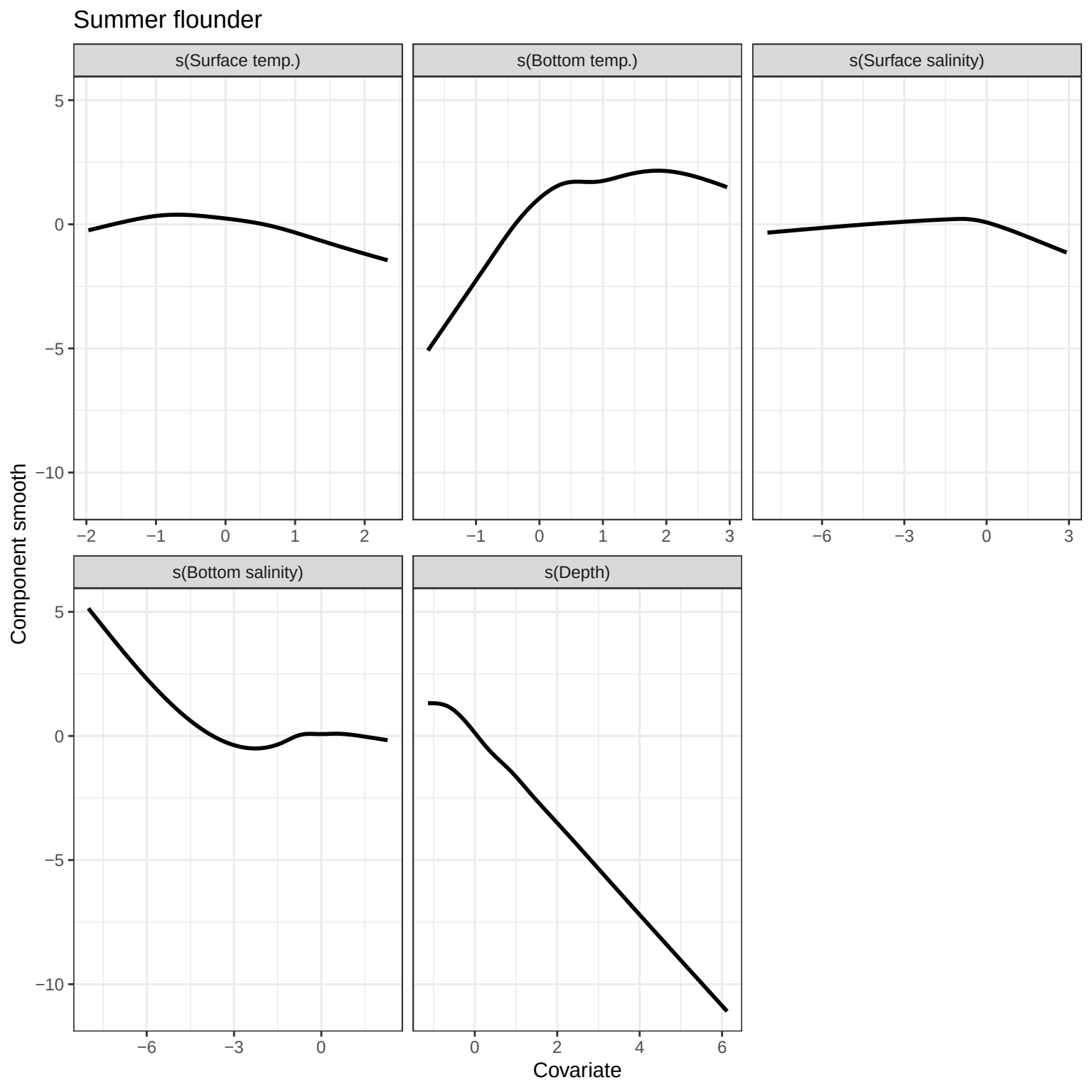
Spotted hake

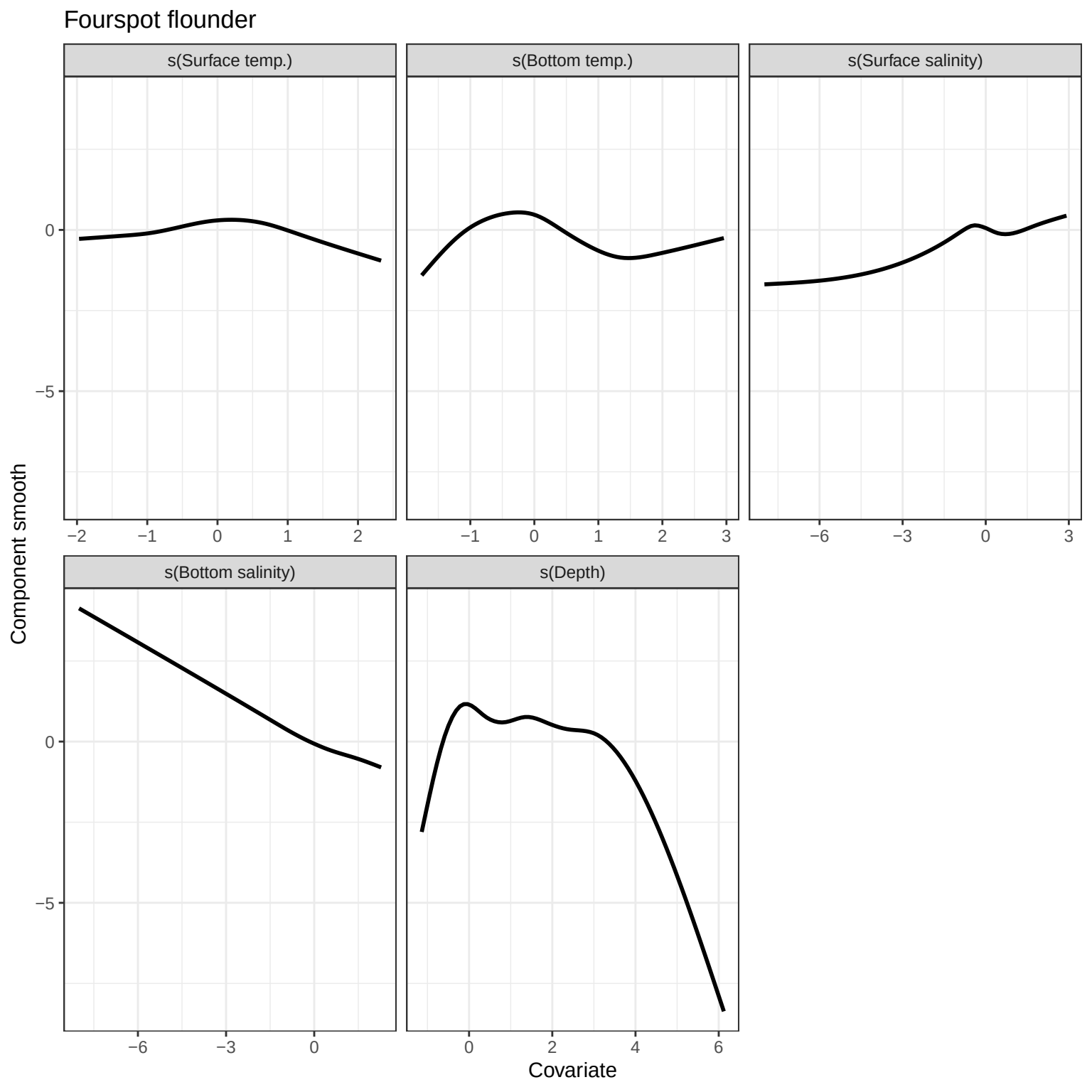


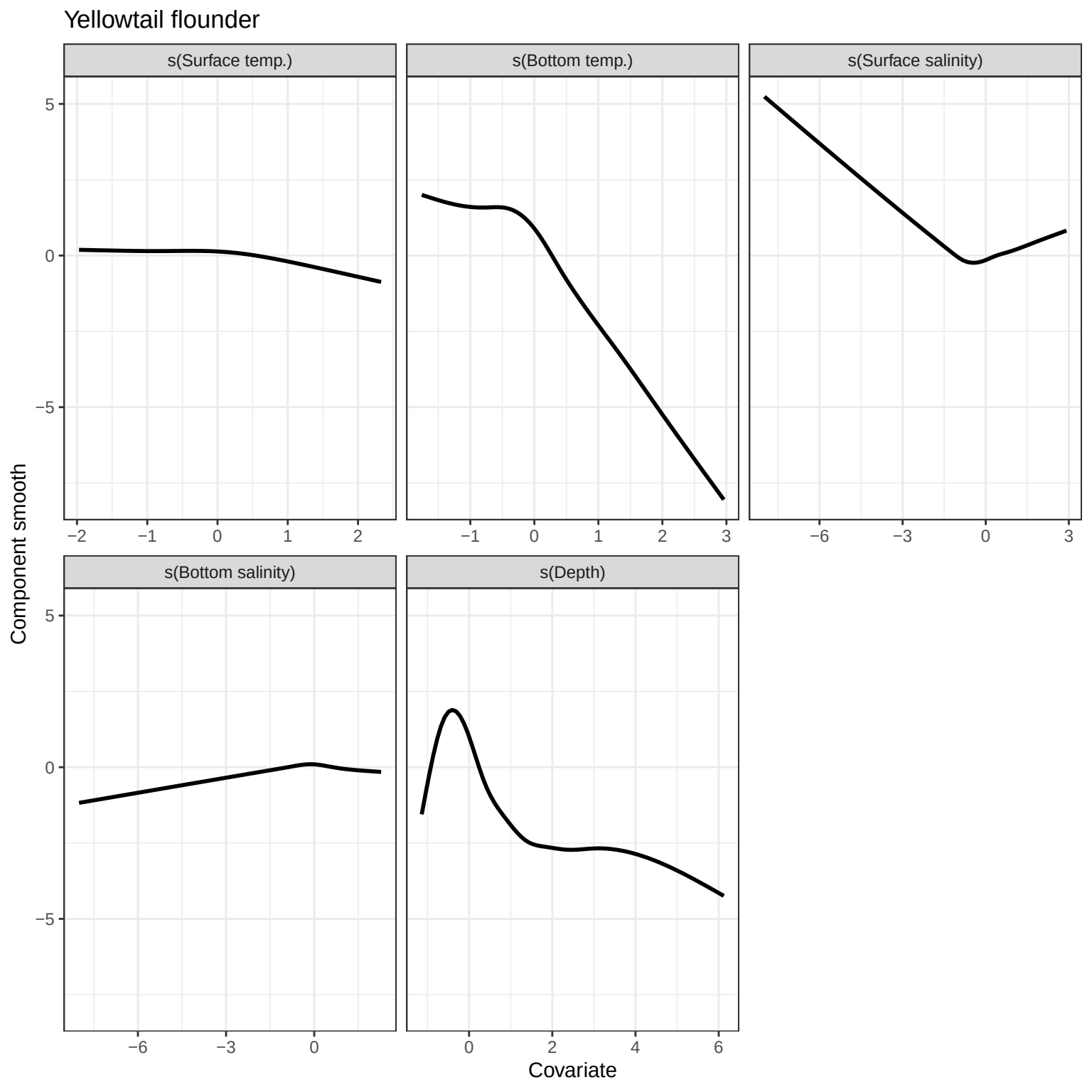
Fourbeard rockling

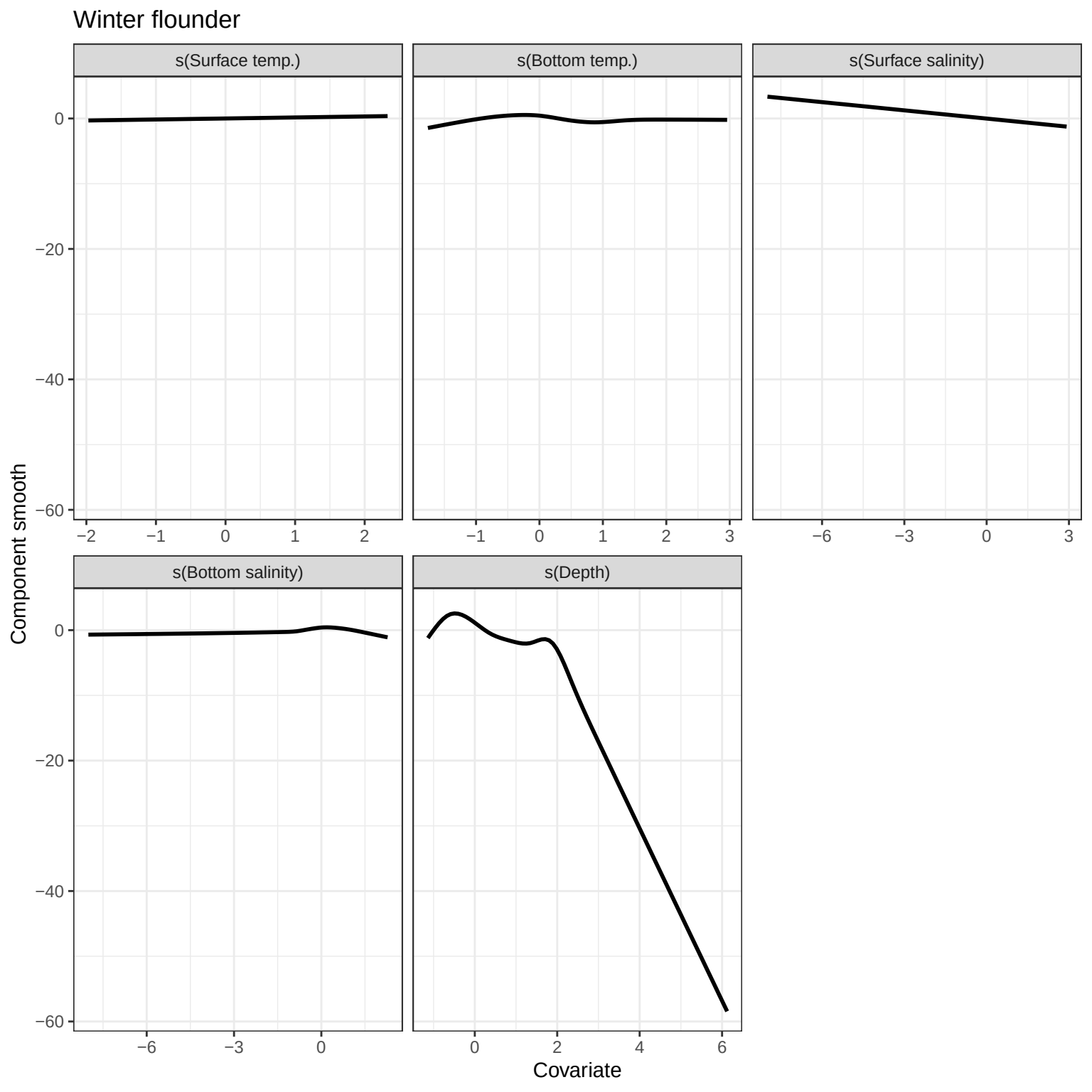


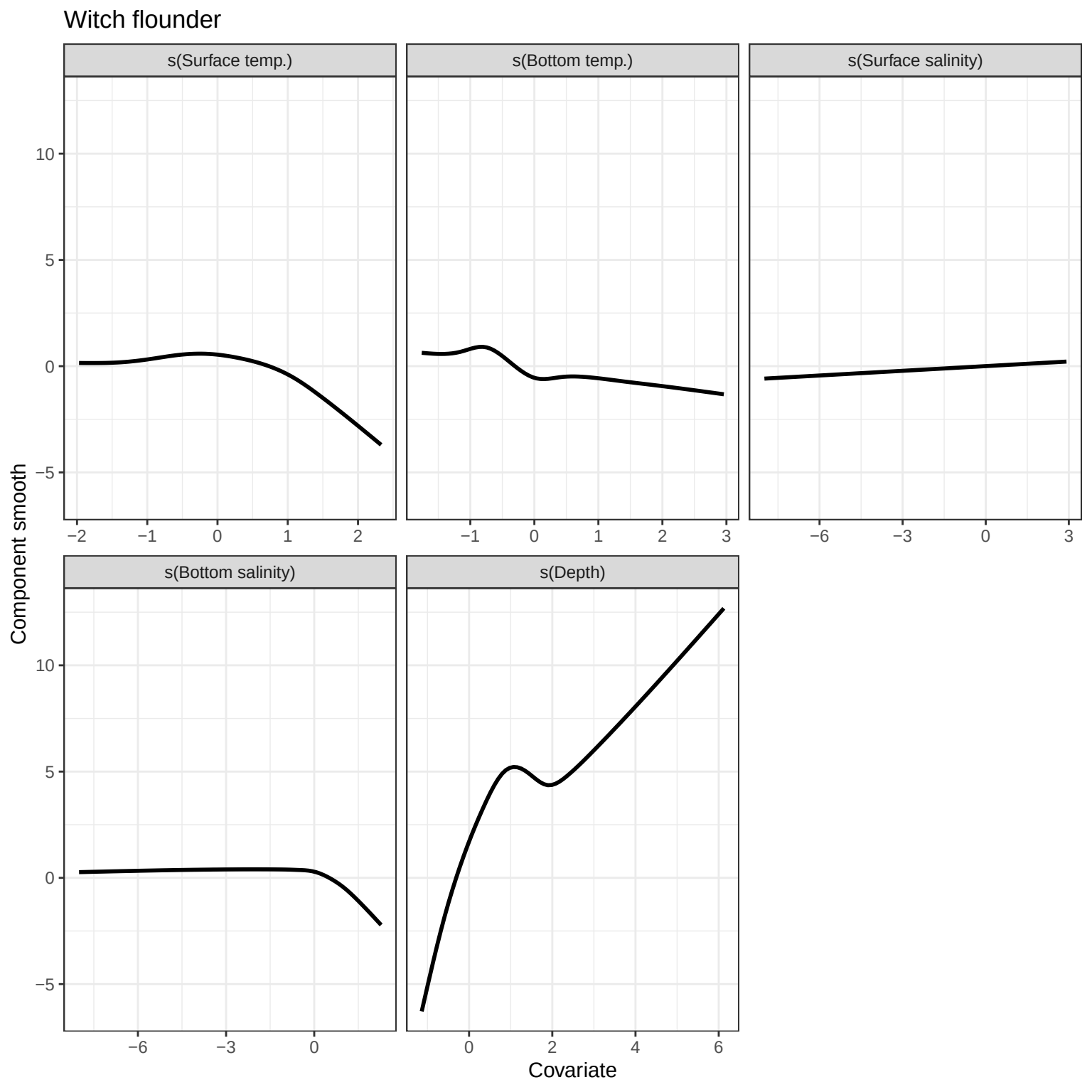

American plaice
s(Surface temp.)
s(Bottom temp.)
s(Surface salinity)
s(Bottom salinity)
s(Depth)
Component smooth
Covariate
5.0
2.5
0.0
−2.5
−5.0
−2
−1
0
1
2
3
−6
−3
0
2
4
6

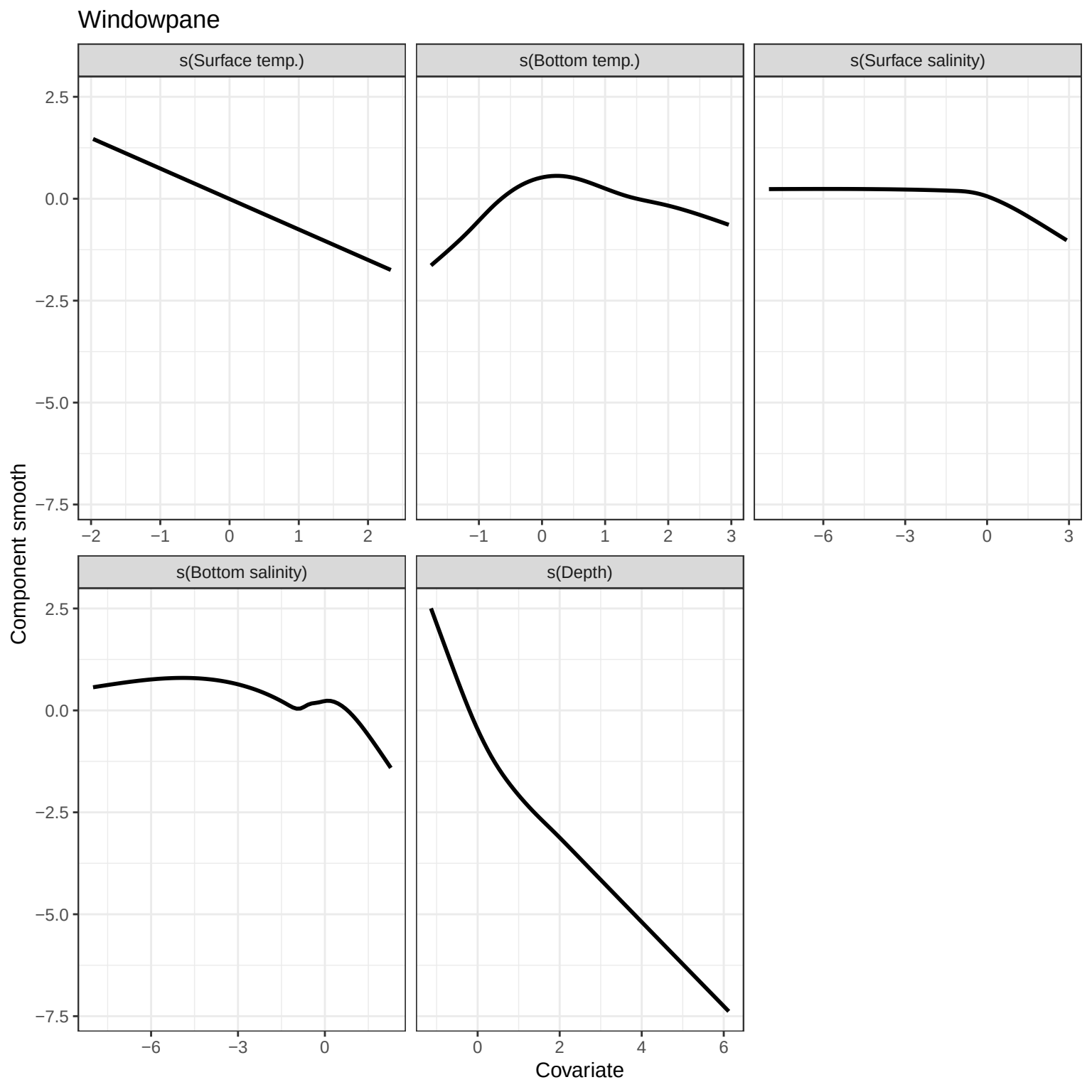

Summer flounder
s(Surface temp.)
s(Bottom temp.)
s(Surface salinity)
s(Bottom salinity)
s(Depth)
Component smooth
Covariate
5
0
−5
−10
−2
−1
0
1
2
3
−6
−3
4
6

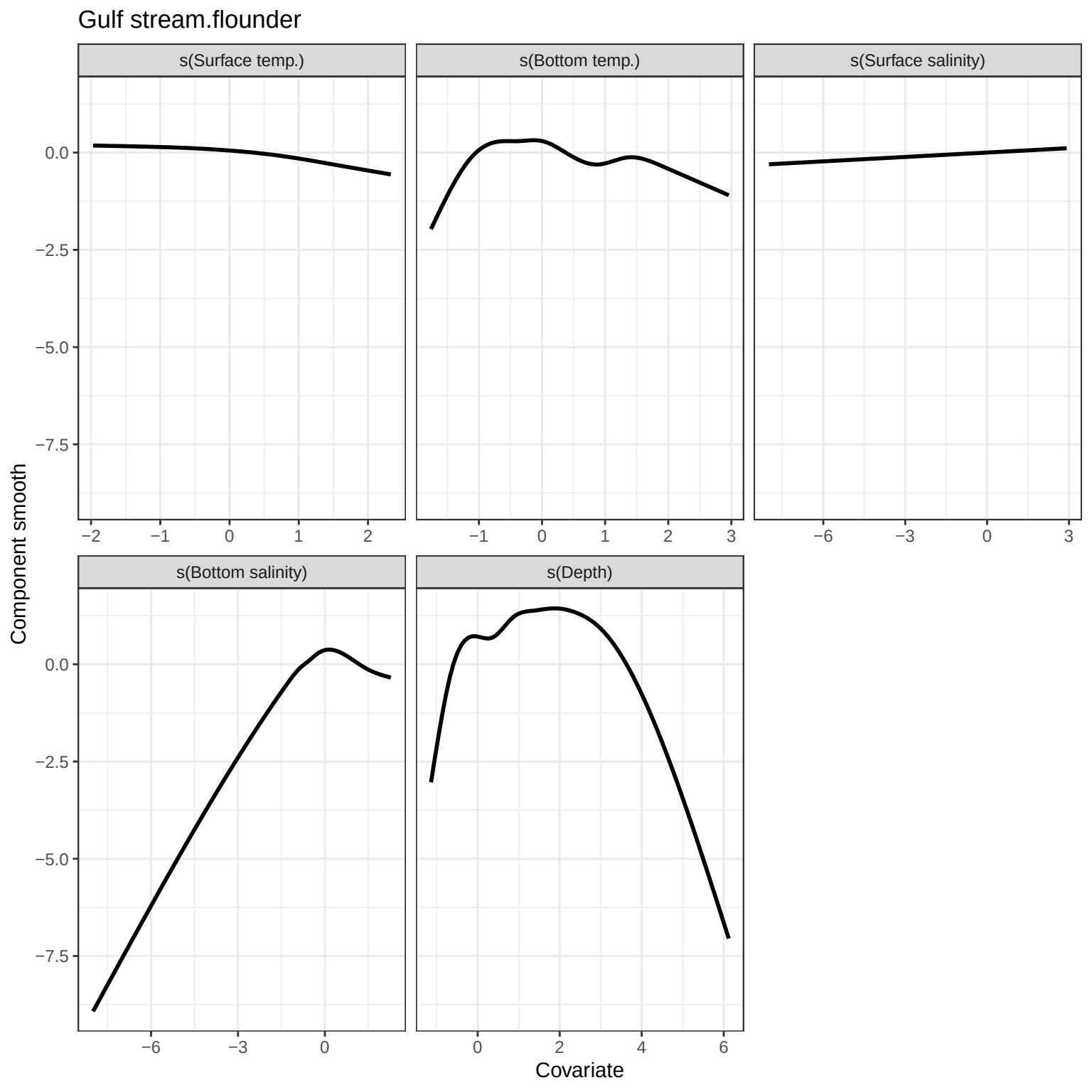

Fourspot flounder
s(Surface temp.)
s(Bottom temp.)
s(Surface salinity)
s(Bottom salinity)
s(Depth)
Component smooth
Covariate
0
−5
−2
−1
0
1
2
3
−6
−3
4
6

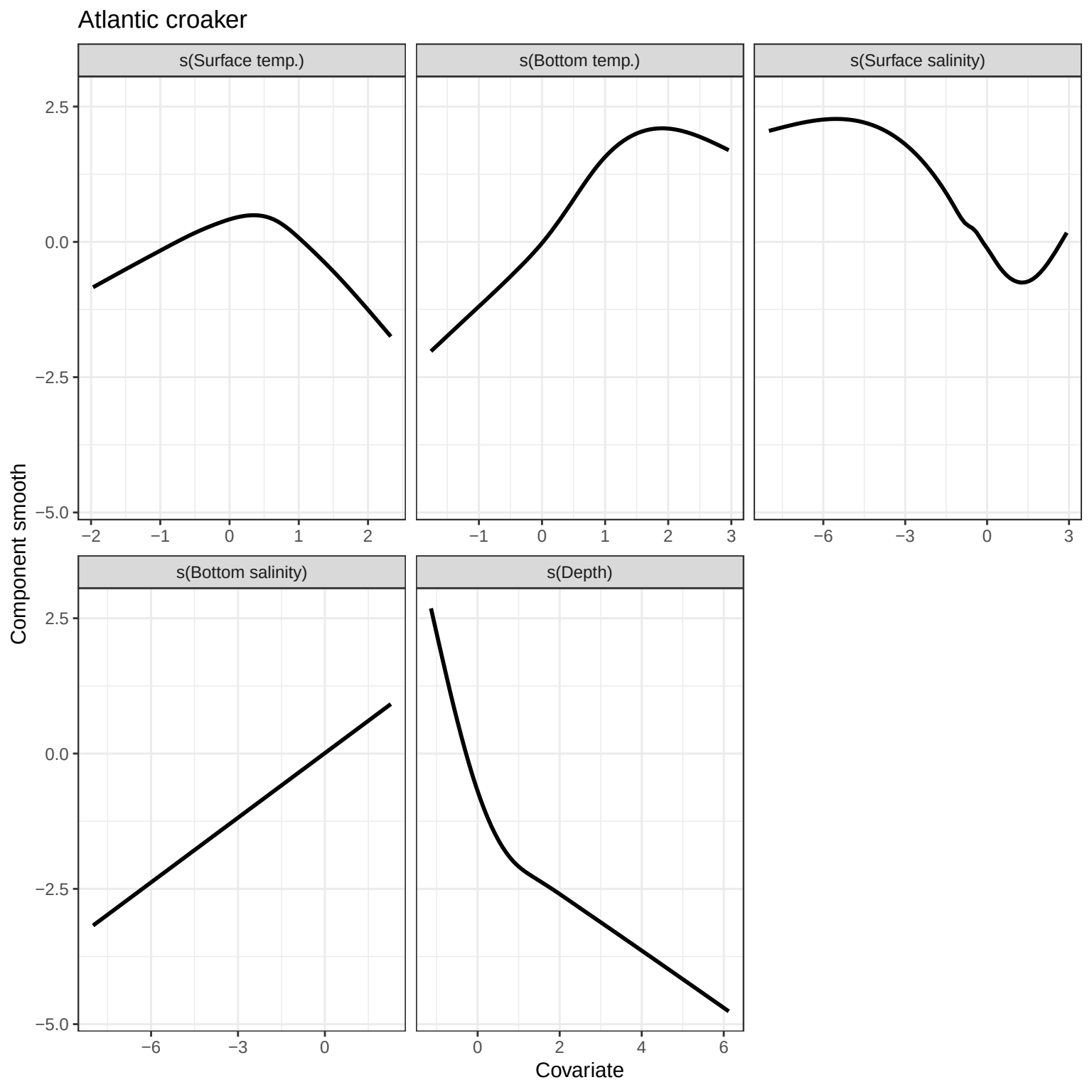

Yellowtail flounder
s(Surface temp.)
s(Bottom temp.)
s(Surface salinity)
s(Bottom salinity)
s(Depth)
Component smooth
Covariate
5
0
−5
−2
−1
0
1
2
3
−6
−3
4
6

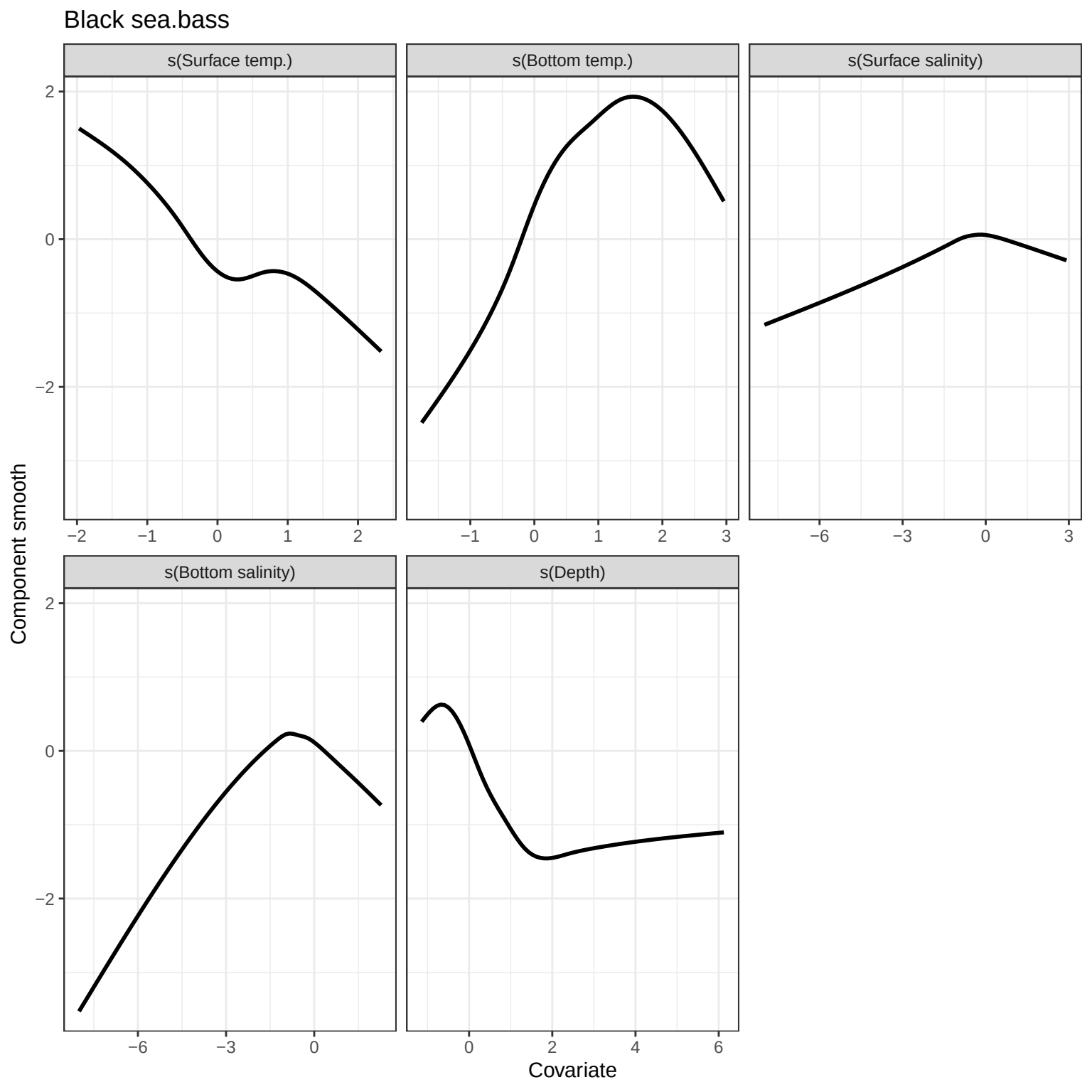

Winter flounder
s(Surface temp.)
s(Bottom temp.)
s(Surface salinity)
s(Bottom salinity)
s(Depth)
Component smooth
Covariate
0
−20
−40
−60
−2
−1
0
1
2
3
−6
−3
4
6

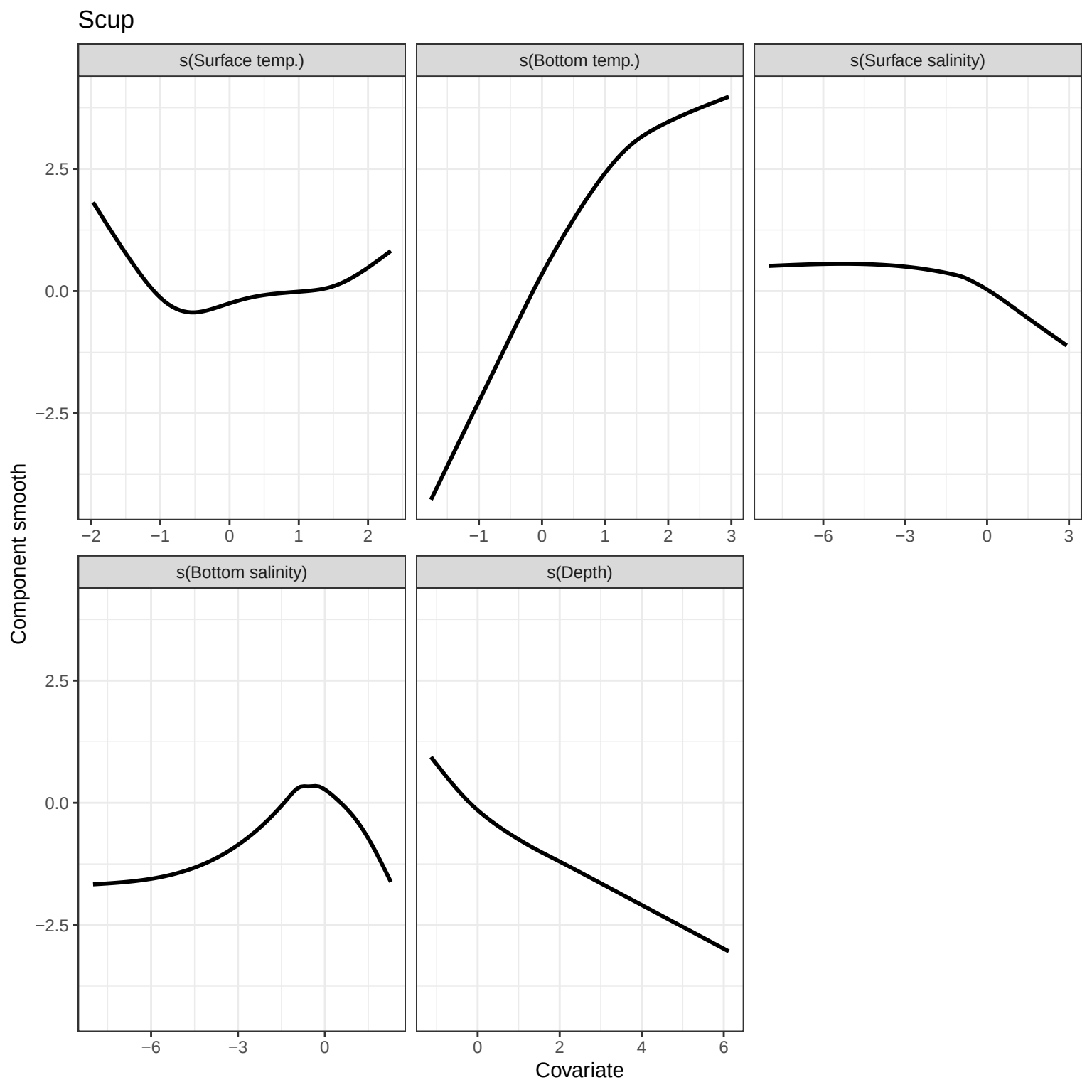

Witch flounder
s(Surface temp.)
s(Bottom temp.)
s(Surface salinity)
s(Bottom salinity)
s(Depth)
Component smooth
Covariate
10
5
0
−5
−2
−1
0
1
2
3
−6
−3
4
6

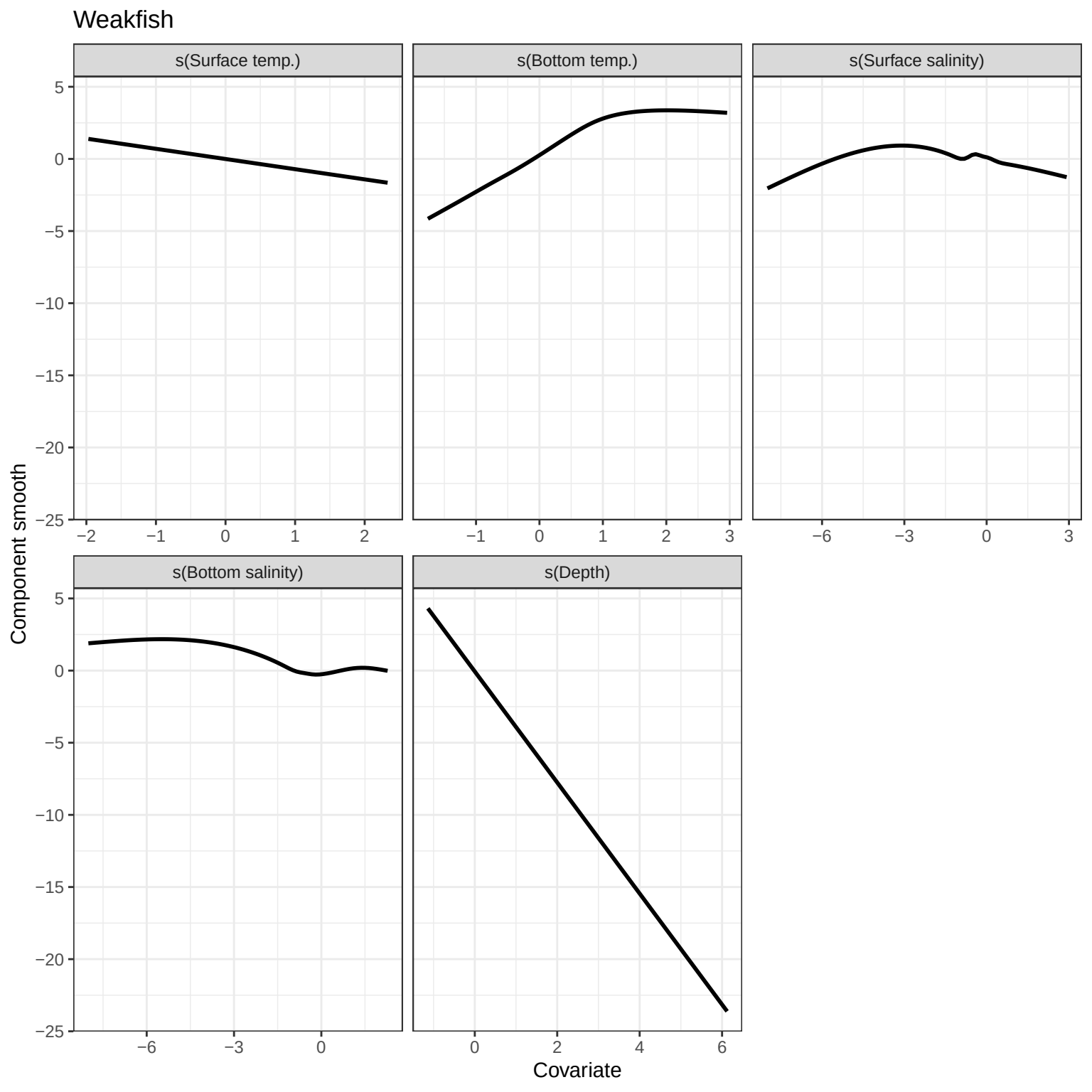

Windowpane
s(Surface temp.)
s(Bottom temp.)
s(Surface salinity)
s(Bottom salinity)
s(Depth)
Component smooth
Covariate
2.5
0.0
−2.5
−5.0
−7.5
−2
−1
0
1
2
3
−6
−3
4
6

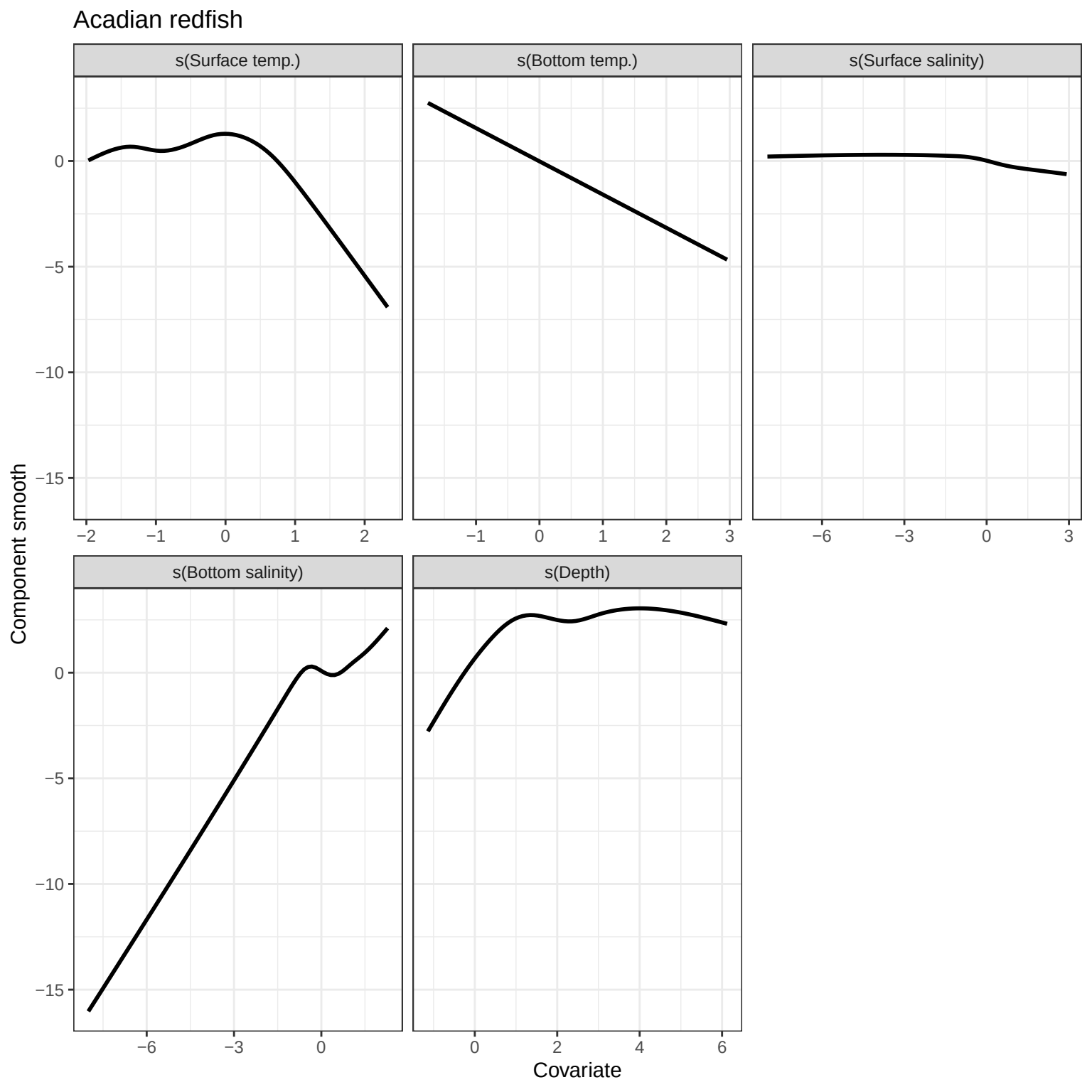

Gulf stream.flounder
s(Surface temp.)
s(Bottom temp.)
s(Surface salinity)
s(Bottom salinity)
s(Depth)
Component smooth
Covariate
0.0
−2.5
−5.0
−7.5
−2
−1
0
1
2
3
−6
−3
4
6

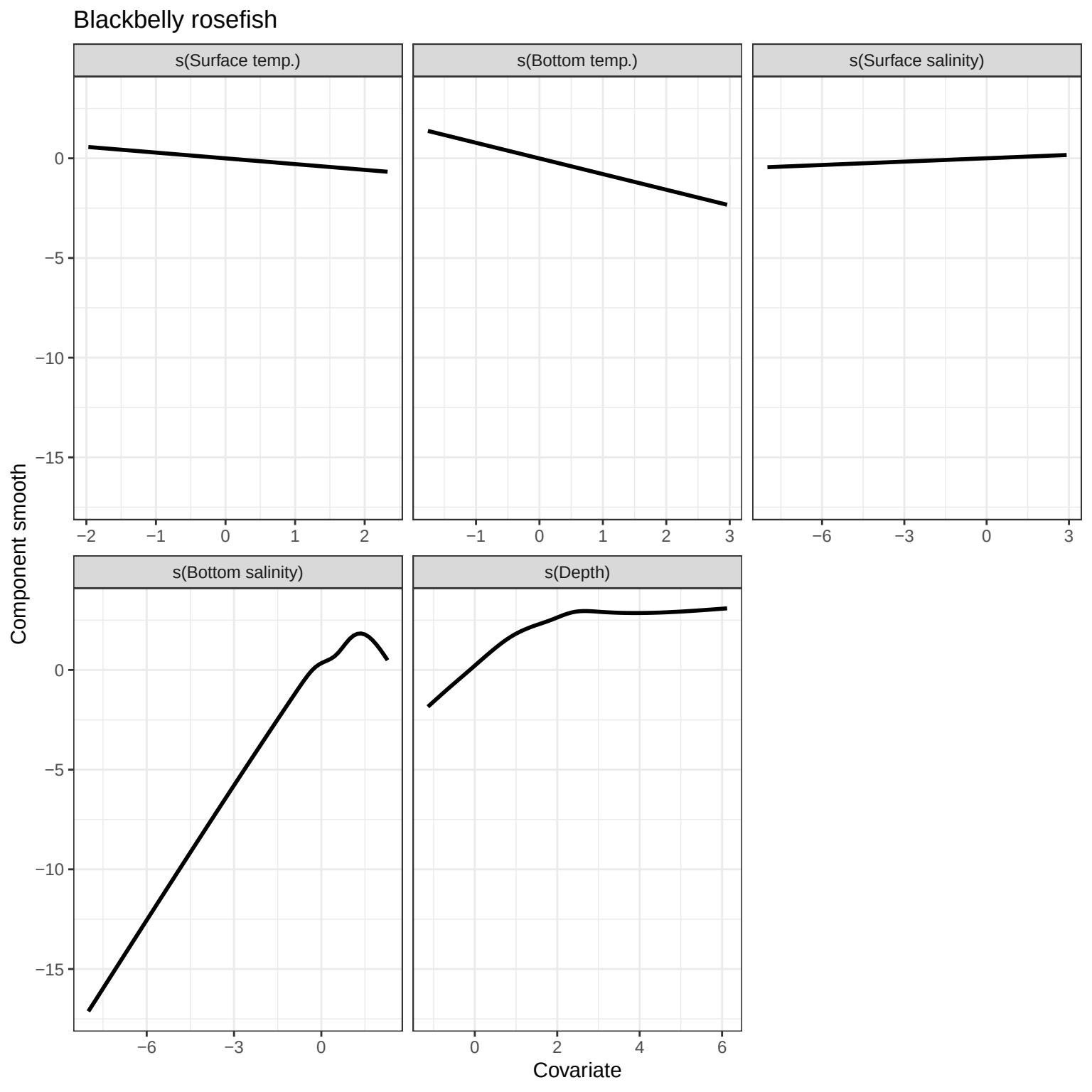

Atlantic croaker
s(Surface temp.)
s(Bottom temp.)
s(Surface salinity)
s(Bottom salinity)
s(Depth)
Component smooth
Covariate
2.5
0.0
−2.5
−5.0
−2
−1
0
1
2
3
−6
−3
4
6

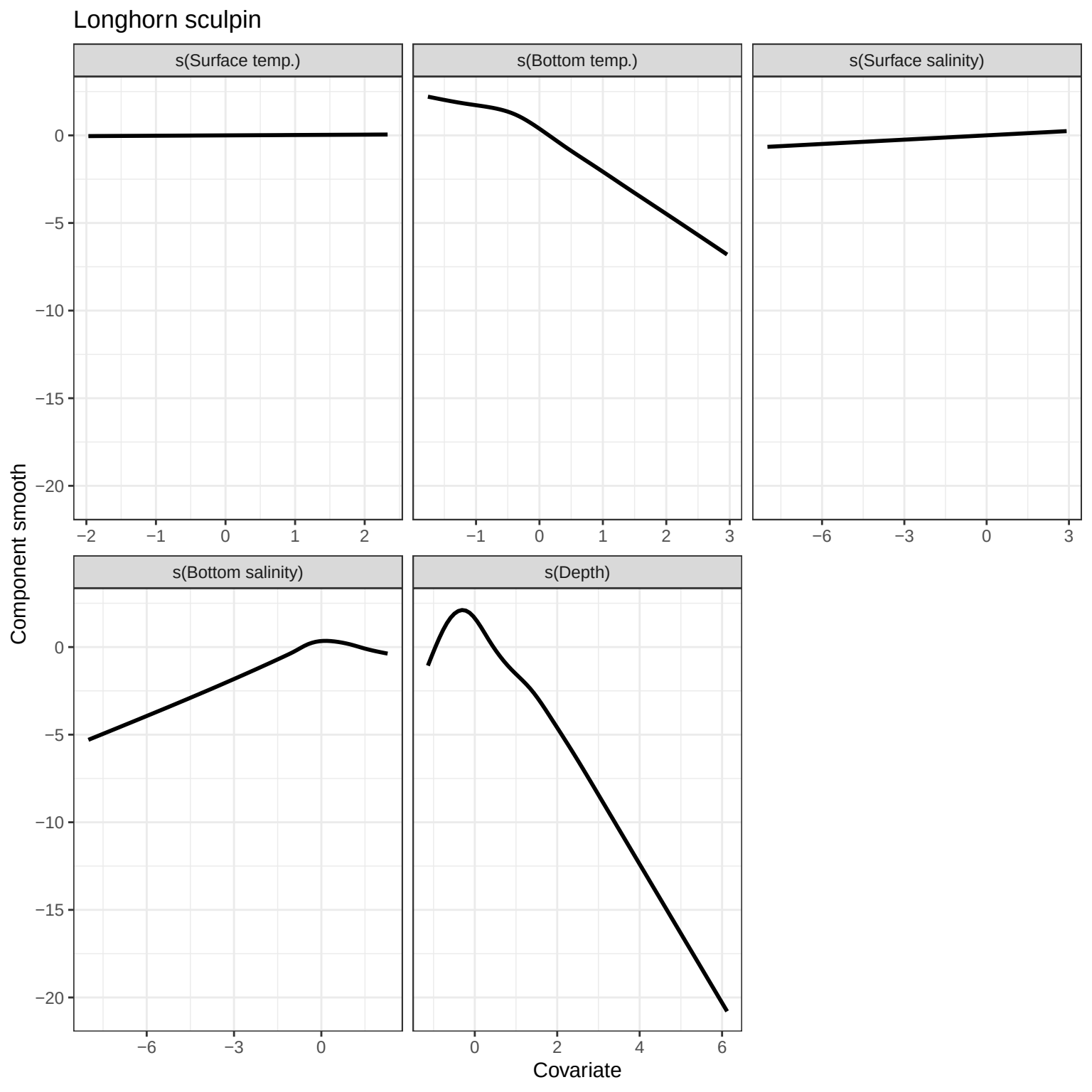

Black sea.bass
s(Surface temp.)
s(Bottom temp.)
s(Surface salinity)
s(Bottom salinity)
s(Depth)
Component smooth
Covariate

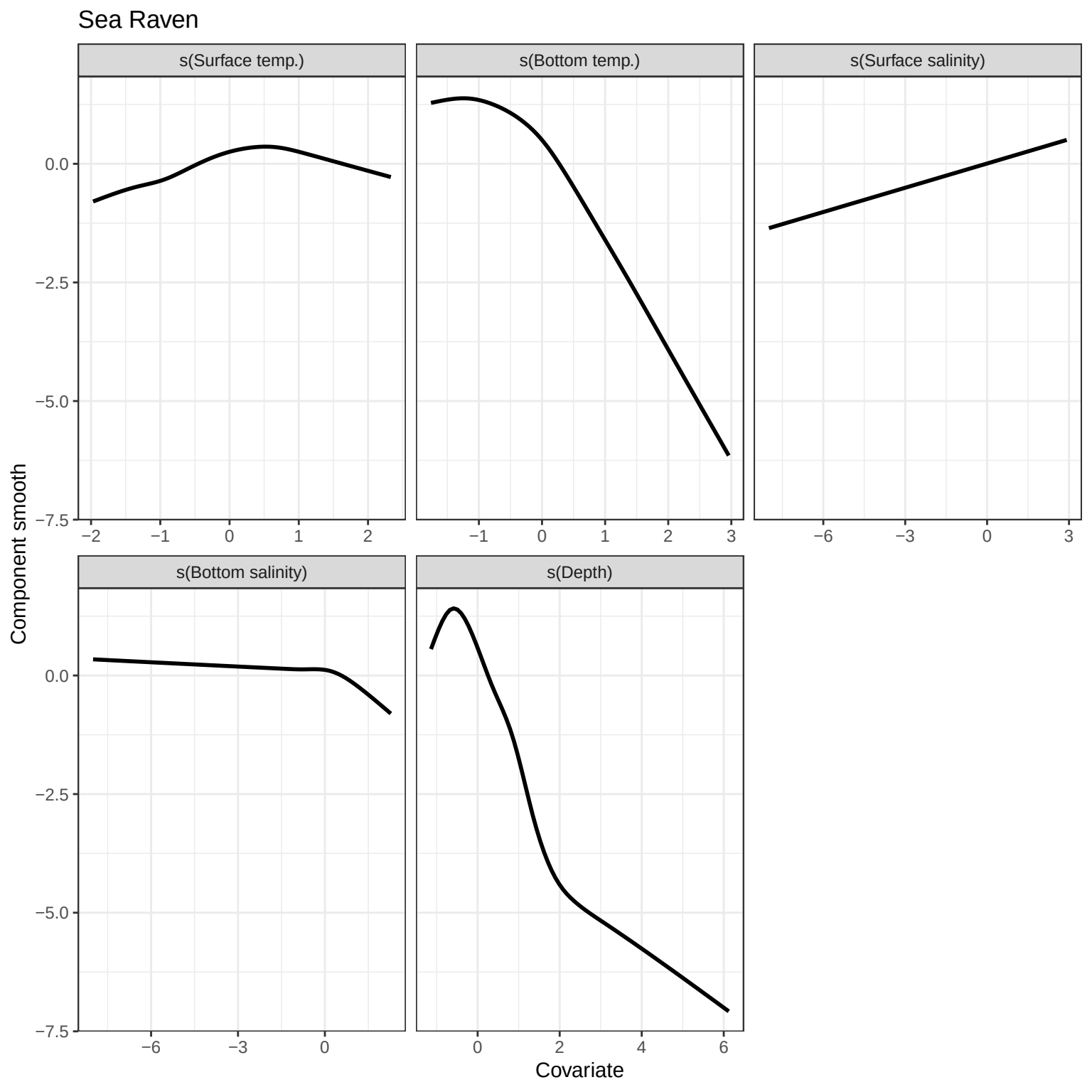

Scup
s(Surface temp.)
s(Bottom temp.)
s(Surface salinity)
s(Bottom salinity)
s(Depth)
Component smooth
Covariate
2.5
0.0
−2.5
−2
−1
0
1
2
3
−6
−3
4
6

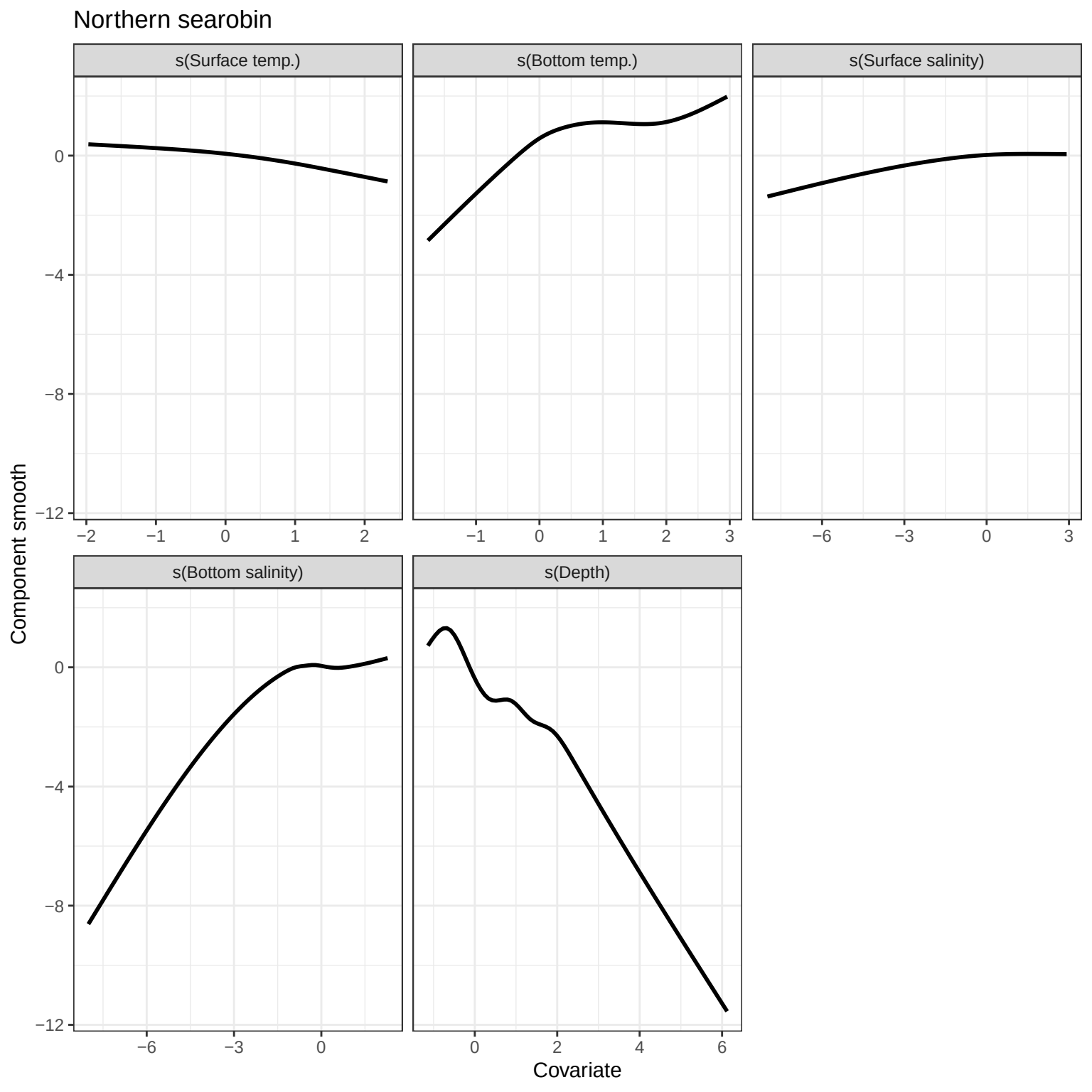

Weakfish
s(Surface temp.)
s(Bottom temp.)
s(Surface salinity)
s(Bottom salinity)
s(Depth)
Component smooth
Covariate
5
0
−5
−10
−15
−20
−25
−2
−1
0
1
2
3
−6
−3
4
6

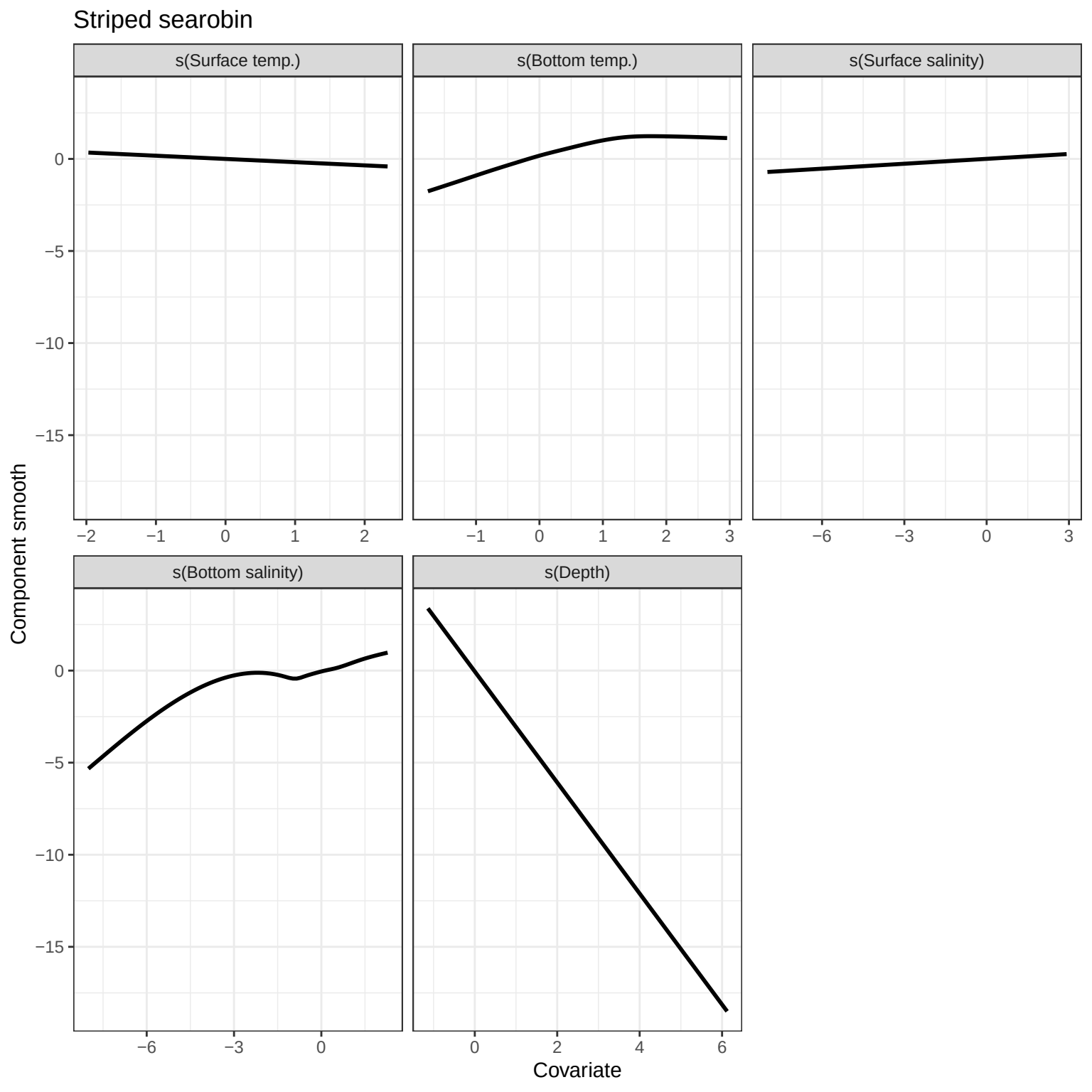

Acadian redfish
s(Surface temp.)
s(Bottom temp.)
s(Surface salinity)
s(Bottom salinity)
s(Depth)
Component smooth
Covariate
0
−5
−10
−15
−2
−1
0
1
2
3
−6
−3
0
2
4
6

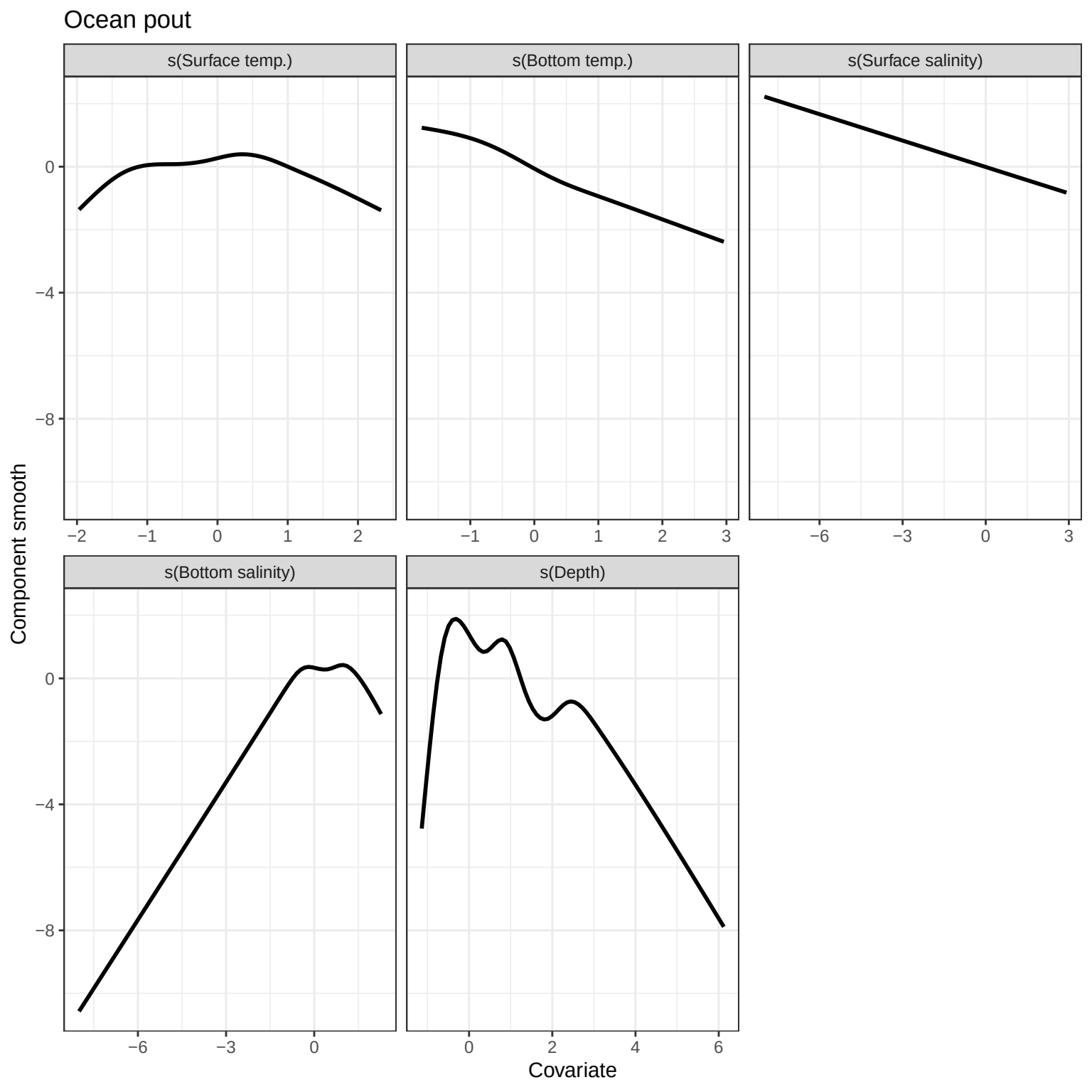

Blackbelly rosefish
s(Surface temp.)
s(Bottom temp.)
s(Surface salinity)
s(Bottom salinity)
s(Depth)
Component smooth
Covariate
0
−5
−10
−15
−2
−1
0
1
2
3
−6
−3
4
6

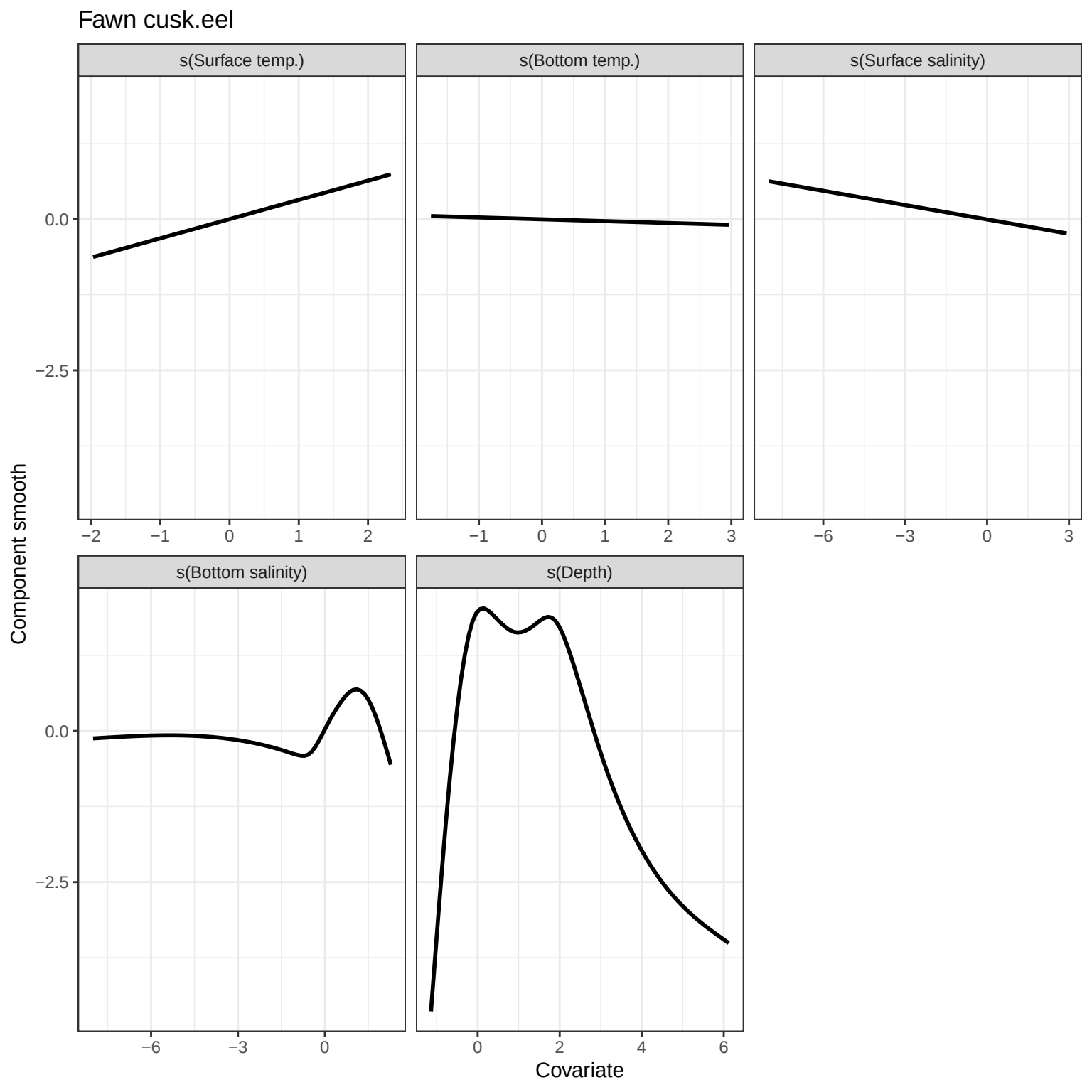

Longhorn sculpin
s(Surface temp.)
s(Bottom temp.)
s(Surface salinity)
s(Bottom salinity)
s(Depth)
Component smooth
Covariate
0
−5
−10
−15
−20
−2
−1
0
1
2
3
−6
−3
0
2
4
6


Sea Raven
s(Surface temp.)
s(Bottom temp.)
s(Surface salinity)
s(Bottom salinity)
s(Depth)
Component smooth
Covariate
0.0
−2.5
−5.0
−7.5
−2
−1
0
1
2
3
−6
−3
4
6

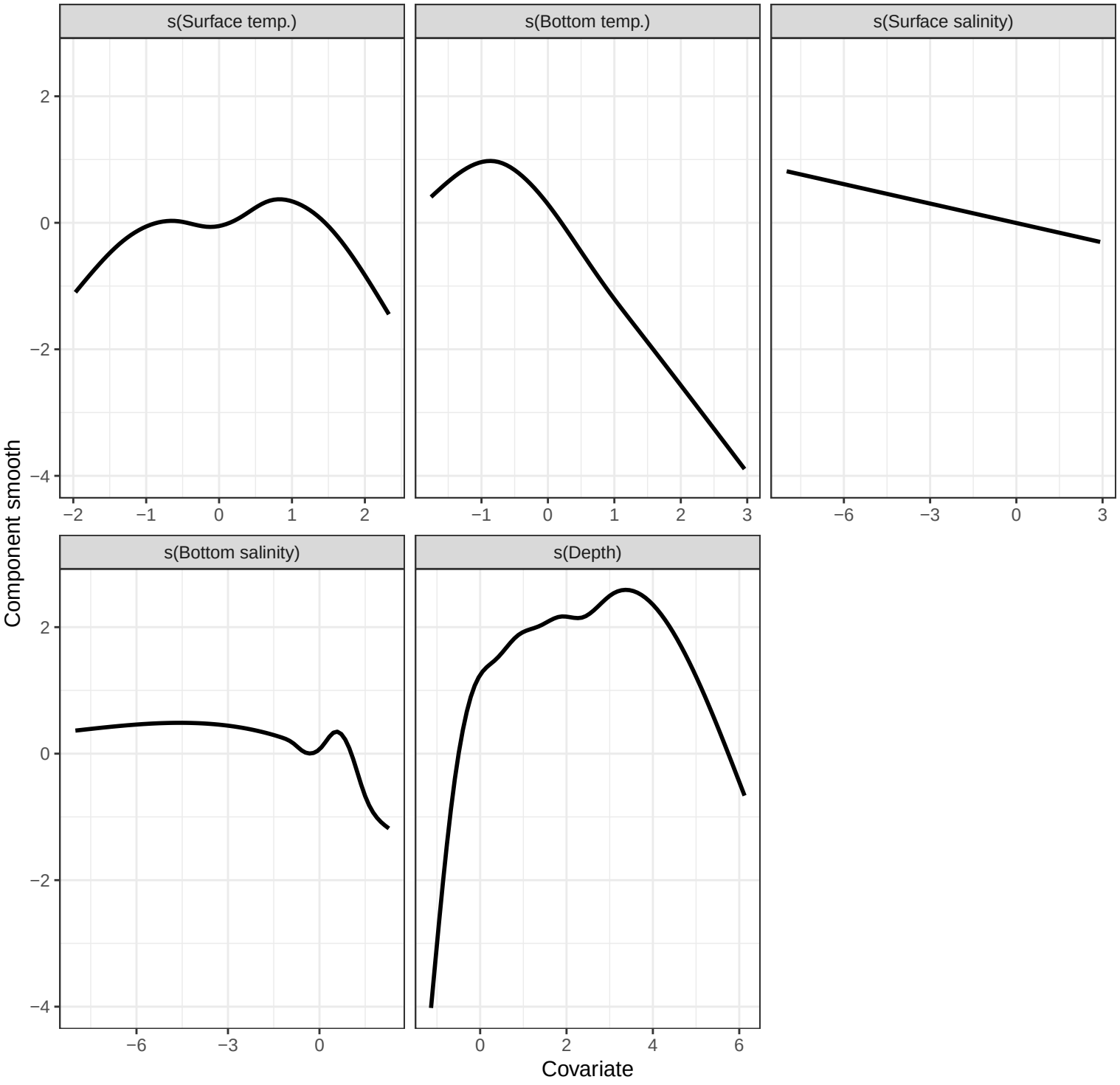

Northern searobin
s(Surface temp.)
s(Bottom temp.)
s(Surface salinity)
s(Bottom salinity)
s(Depth)
Component smooth
Covariate
0
−4
−8
−12
−2
−1
0
1
2
3
−6
−3
0
2
4
6


Striped searobin
s(Surface temp.)
s(Bottom temp.)
s(Surface salinity)
s(Bottom salinity)
s(Depth)
Component smooth
Covariate
0
−5
−10
−15
−2
−1
0
1
2
3
−6
−3
0
2
4
6


Ocean pout
s(Surface temp.)
s(Bottom temp.)
s(Surface salinity)
s(Bottom salinity)
s(Depth)
Component smooth
Covariate
0
−4
−8
−2
−1
0
1
2
3
−6
−3
4
6


Fawn cusk.eel
s(Surface temp.)
s(Bottom temp.)
s(Surface salinity)
s(Bottom salinity)
s(Depth)
Component smooth
Covariate
0.0
−2.5
−2
−1
0
1
2
3
−6
−3
4
6

Goosefish


s(Surface temp.)
s(Bottom temp.)
s(Surface salinity)
s(Bottom salinity)
s(Depth)
Component smooth
Covariate
2
0
−2
−4
−2
−1
0
1
2
3
−6
−3
4
6