

# Graphs on linear responses to temperature anomalies

Each page of this document contains a scatter plot showing, for each one of the 162 populations analyzed in this study,  $\log(\lambda)$  on the y-axis, and temperature anomalies on the x-axis. The blue line is the mean prediction of the multiple linear model (Eq. 2 and 3 in the main text) calculated across the observed temperature anomalies while keeping precipitation anomalies at the mean value observed during the study period. The shaded grey area is the 95% confidence interval around the mean prediction. Note that these plots show only linear relationships with annual temperature anomalies. The six populations for which model selection supported a nonlinear relationship with temperature are represented in Supplementary Figures 3 and 5.

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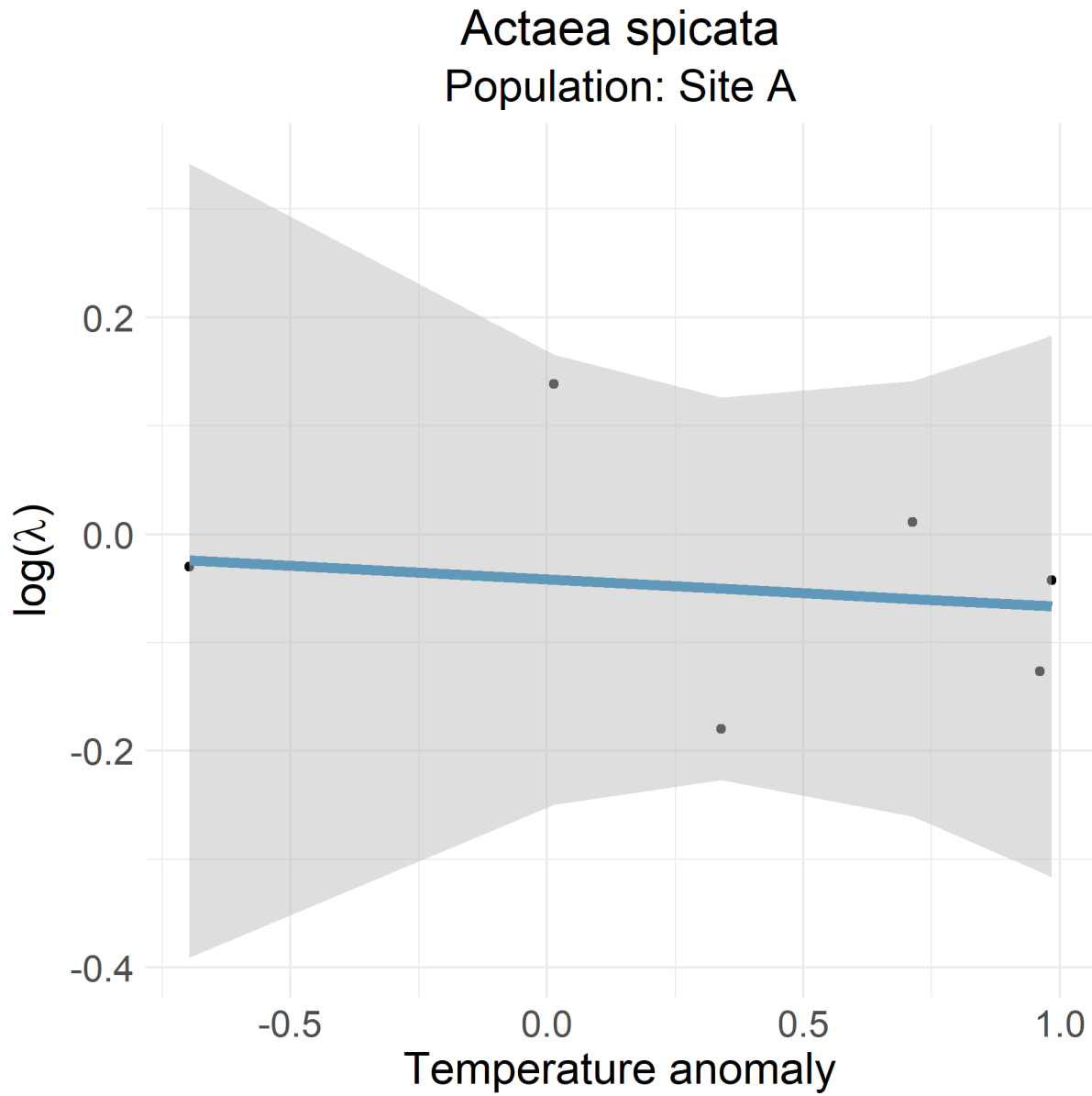


Figure 1: *Actaea spicata* Site A

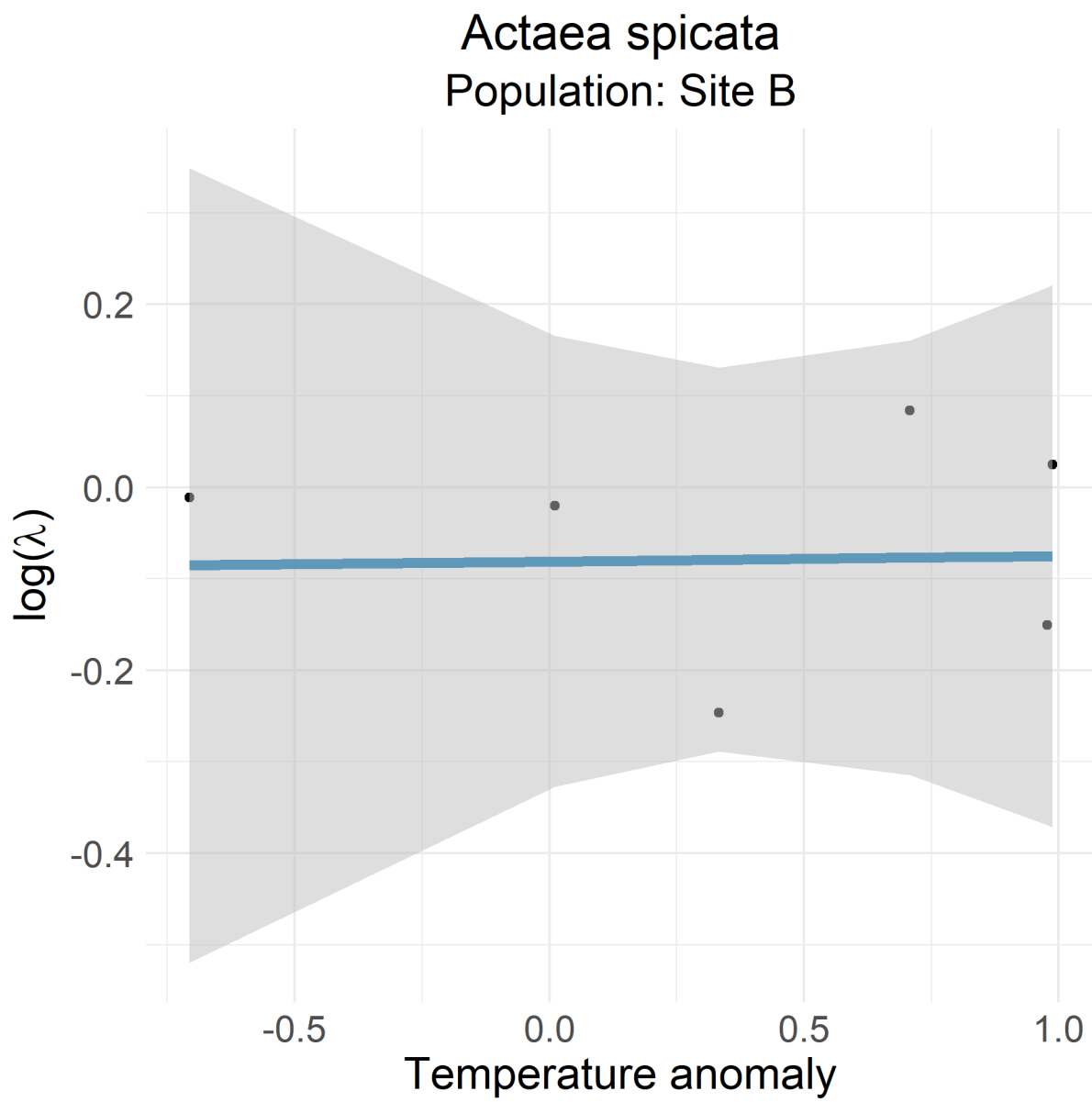


Figure 2: *Actaea spicata* Site B



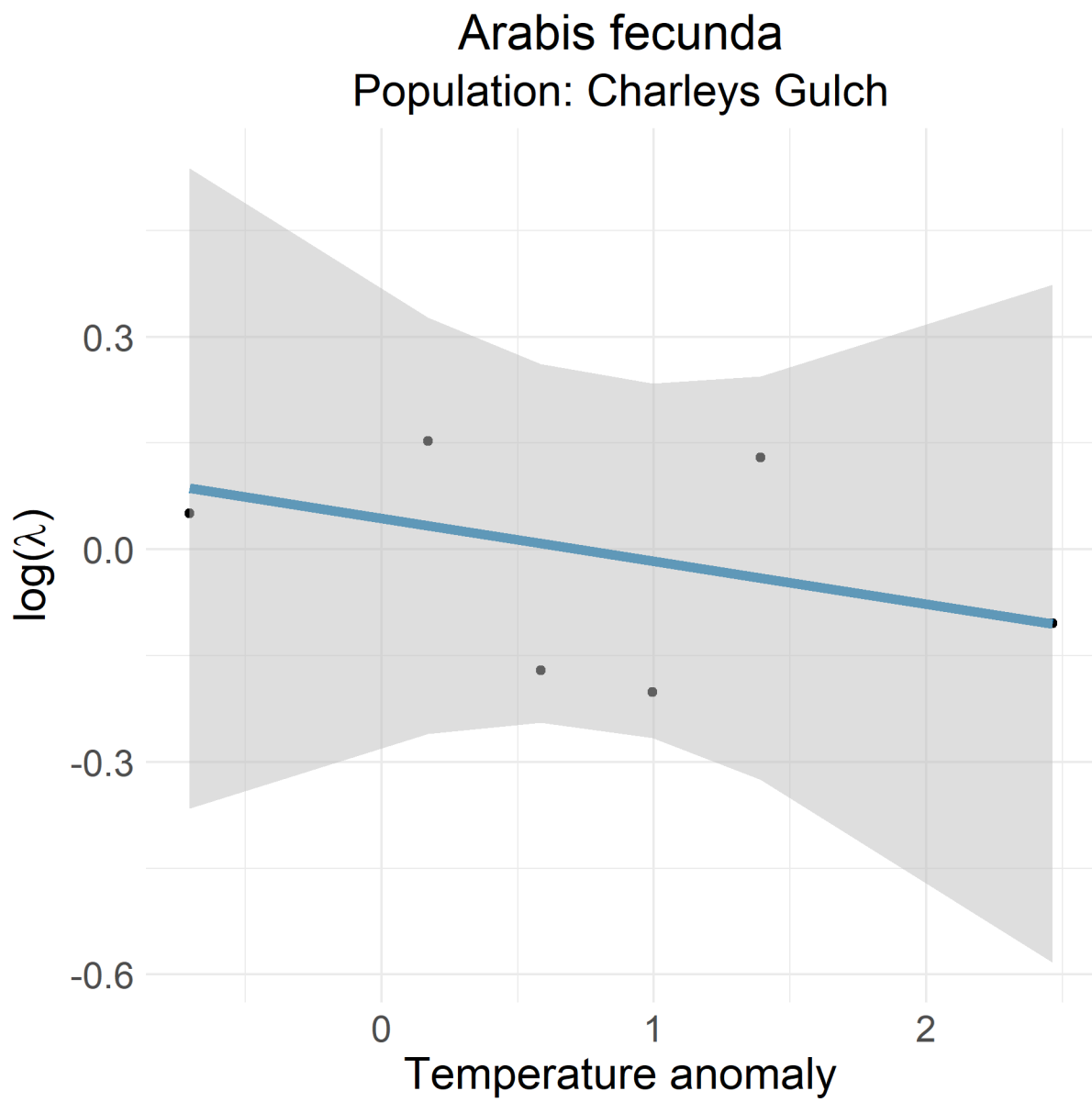


Figure 3: *Arabis fecunda* Charleys Gulch

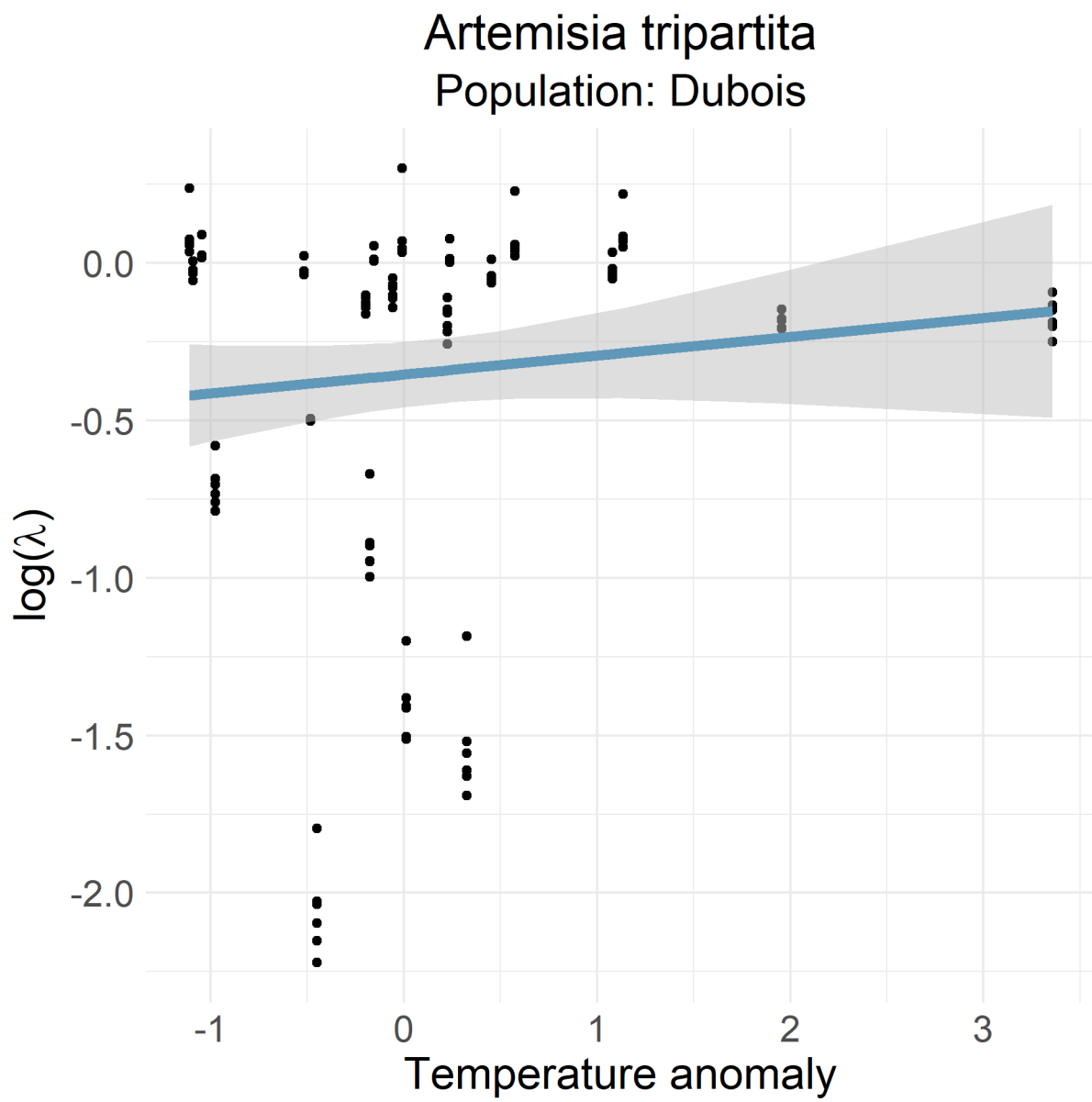


Figure 4: *Artemisia tripartita* Dubois

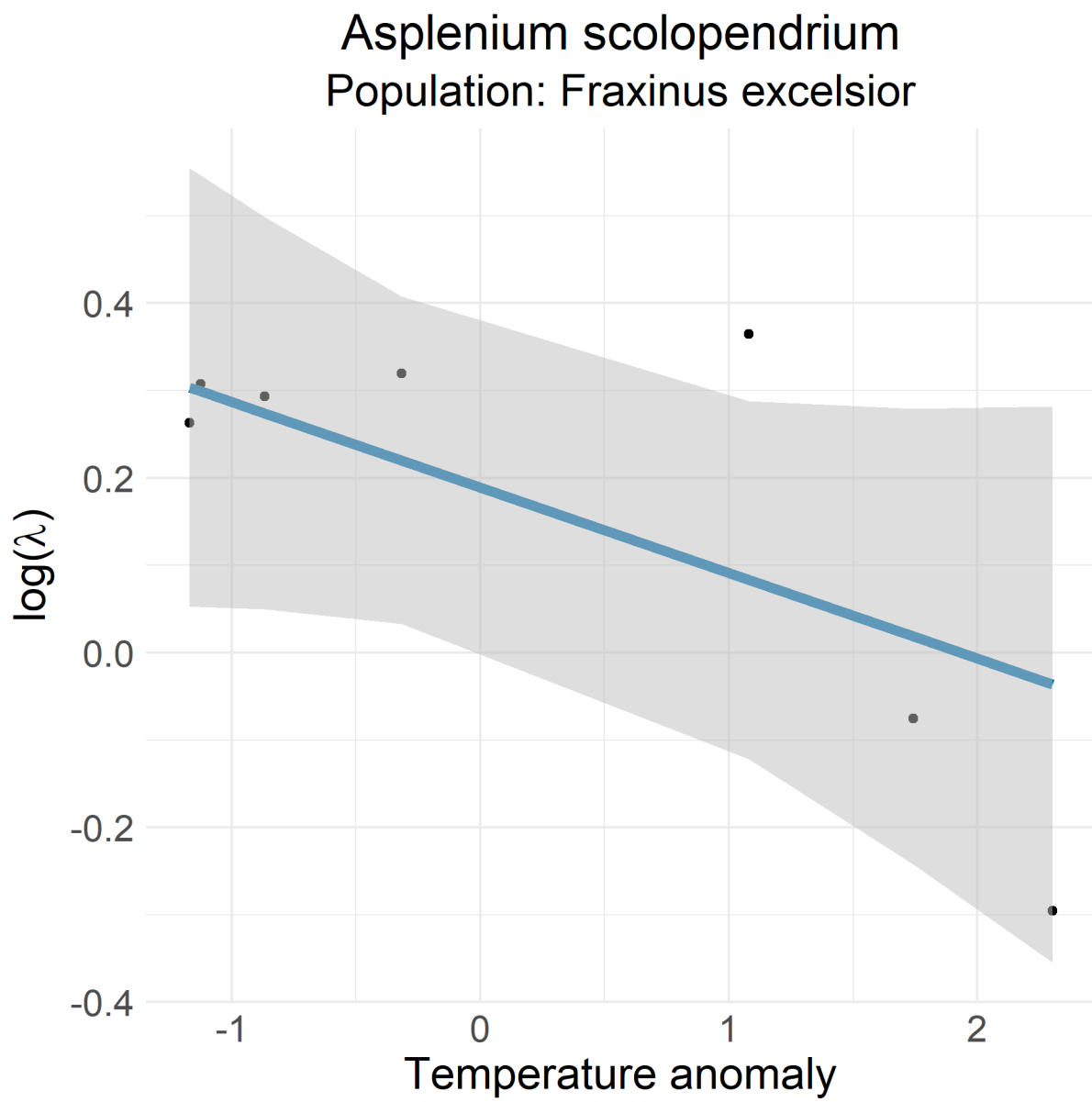


Figure 5: *Asplenium scolopendrium* *Fraxinus excelsior*

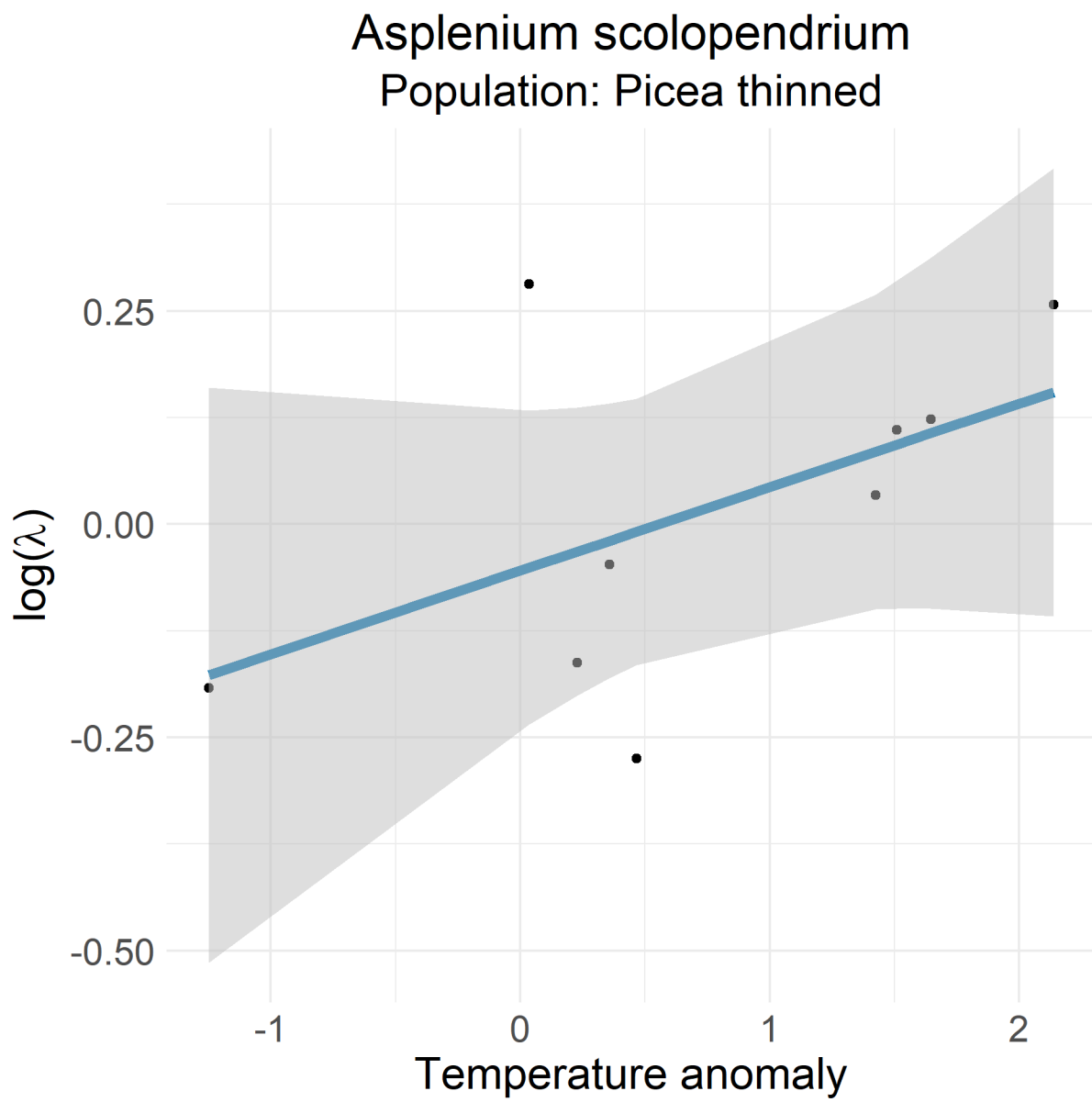


Figure 6: Asplenium scolopendrium Picea thinned

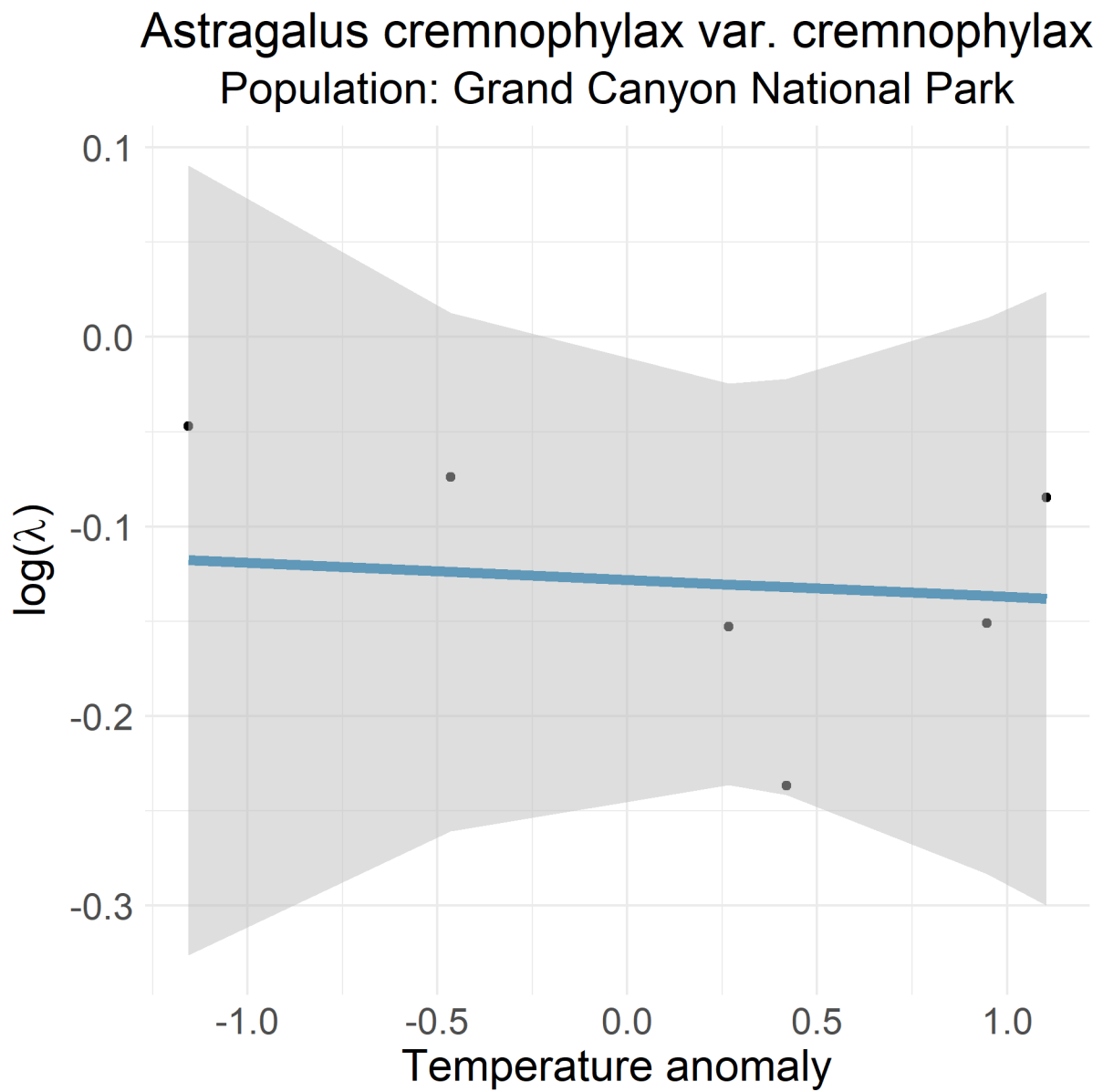


Figure 7: *Astragalus cremnophylax* var. *cremnophylax* Grand Canyon National Park

Astragalus scaphoides 2  
Population: Haynes Creek

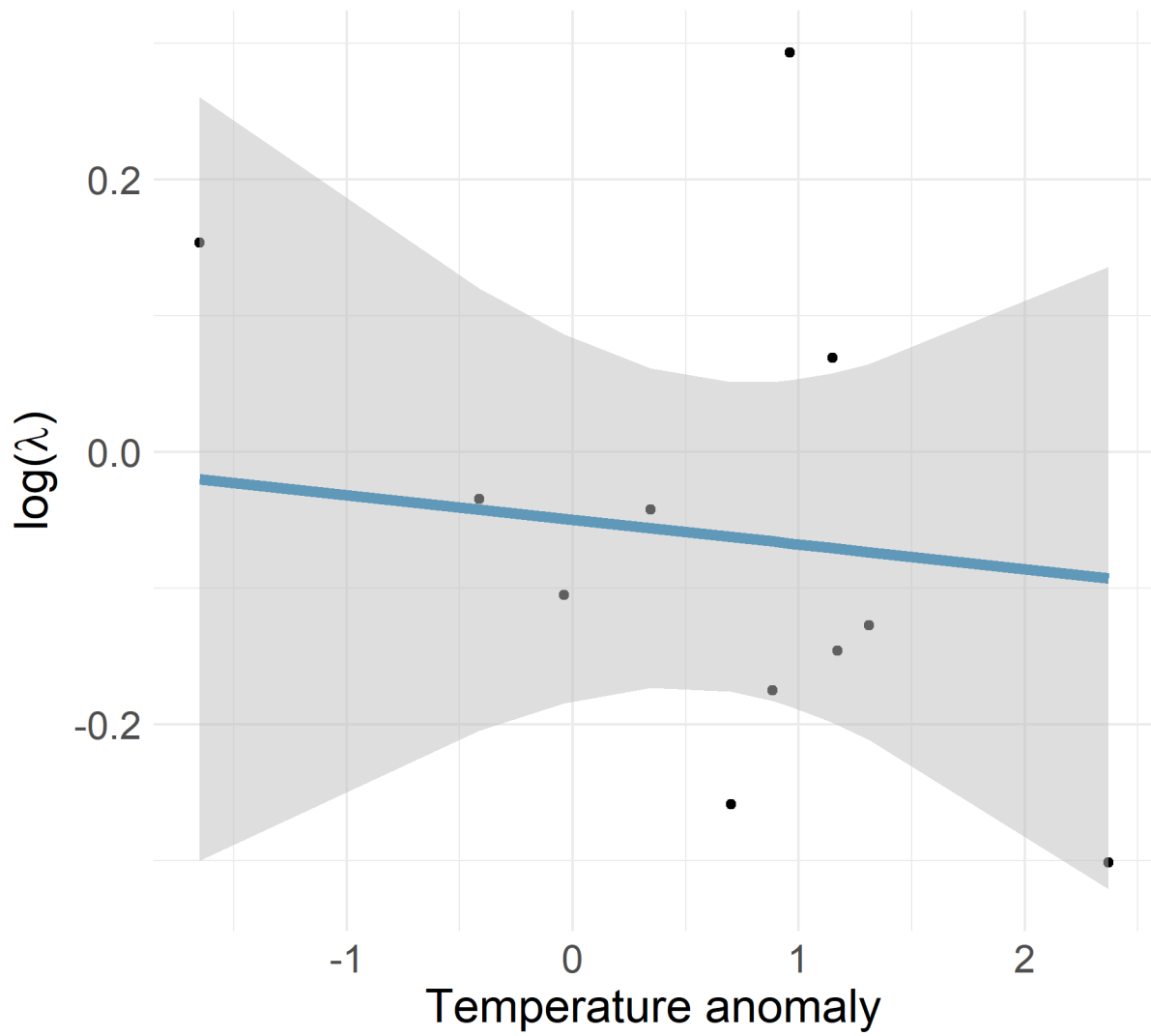


Figure 8: Astragalus scaphoides 2 Haynes Creek

Astragalus scaphoides 2  
Population: McDevitt Creek

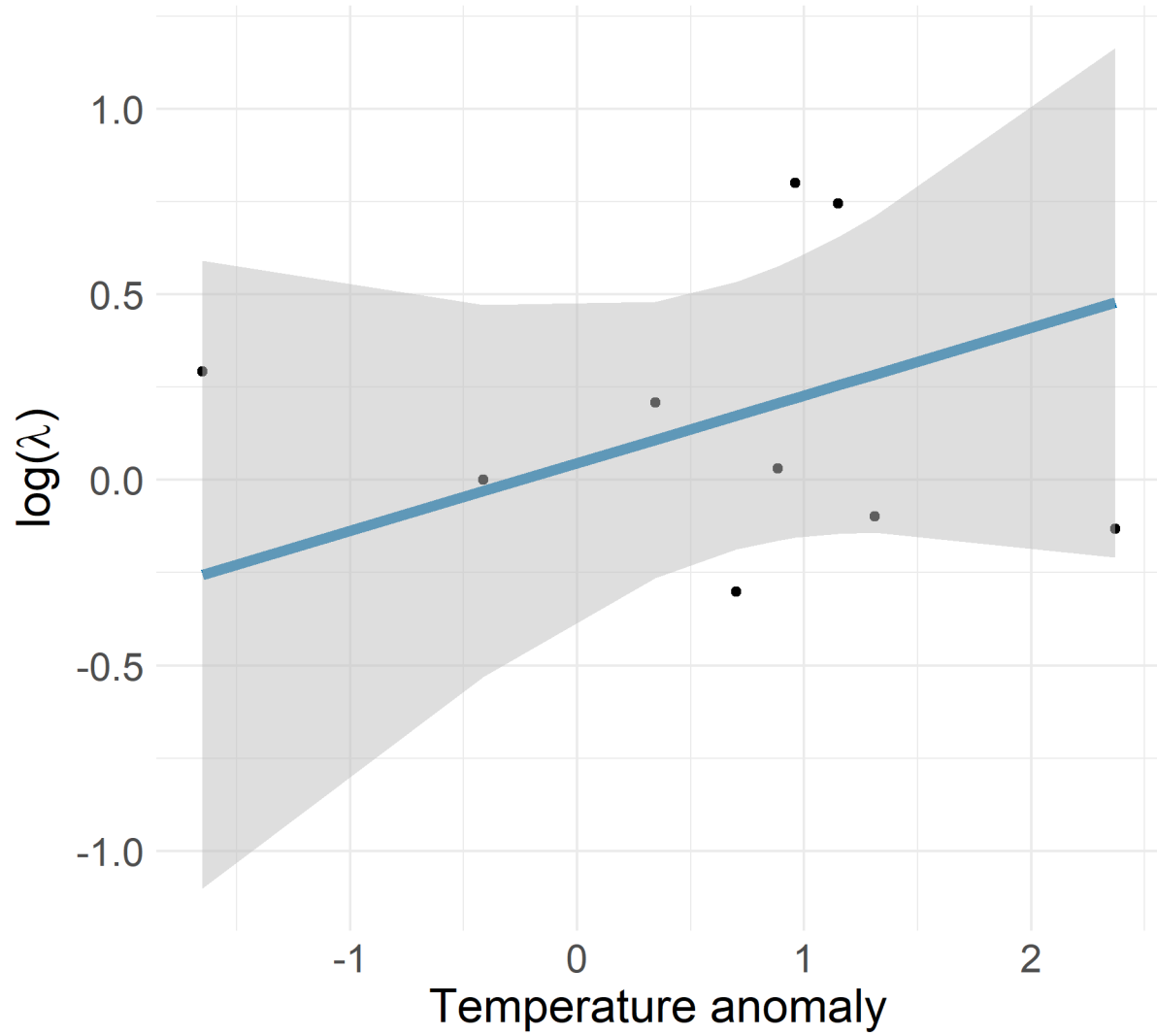


Figure 9: *Astragalus scaphoides* 2 McDevitt Creek

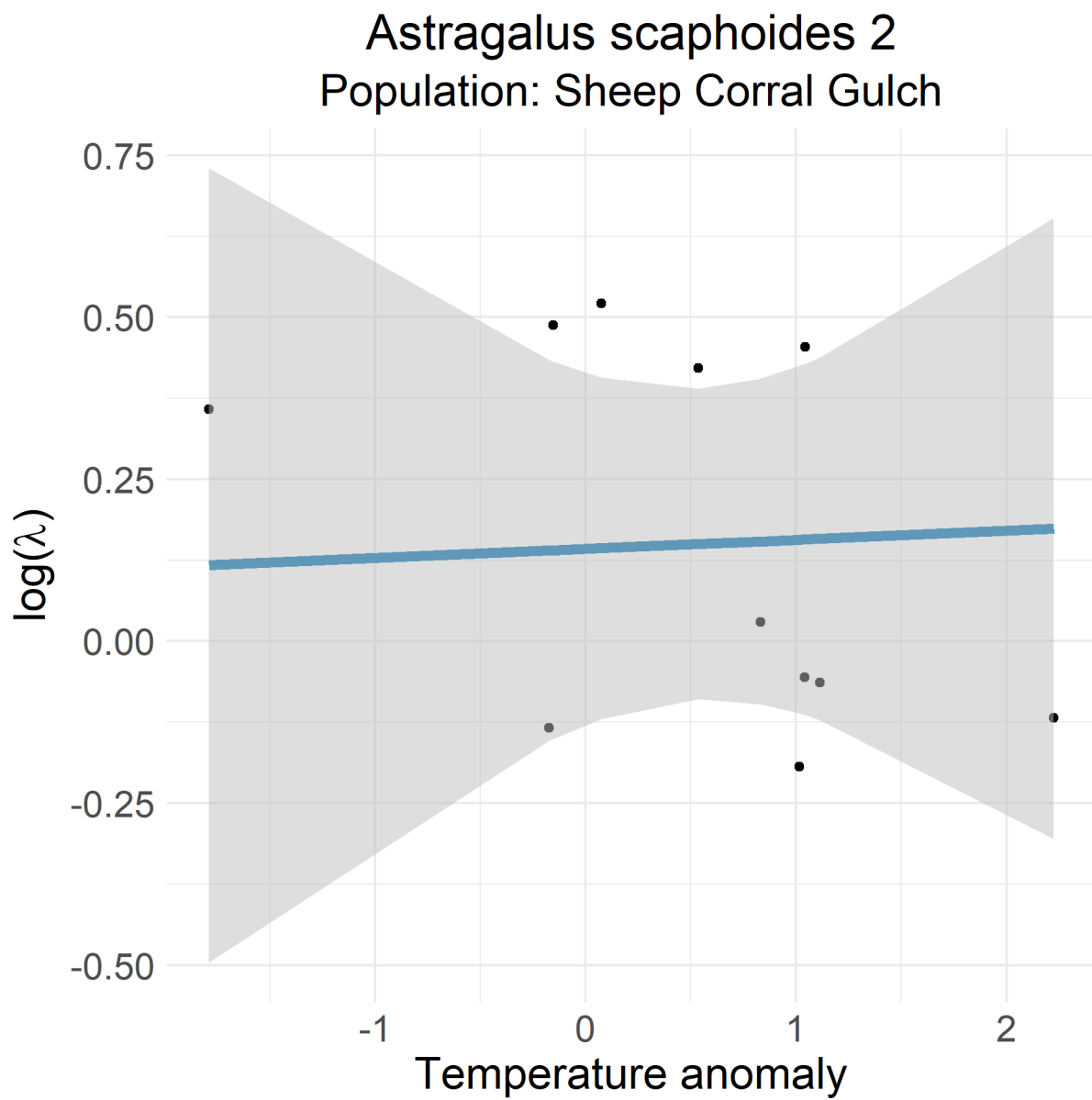


Figure 10: Astragalus scaphoides 2 Sheep Corral Gulch



Astragalus scaphoides 6  
Population: Haynes Creek

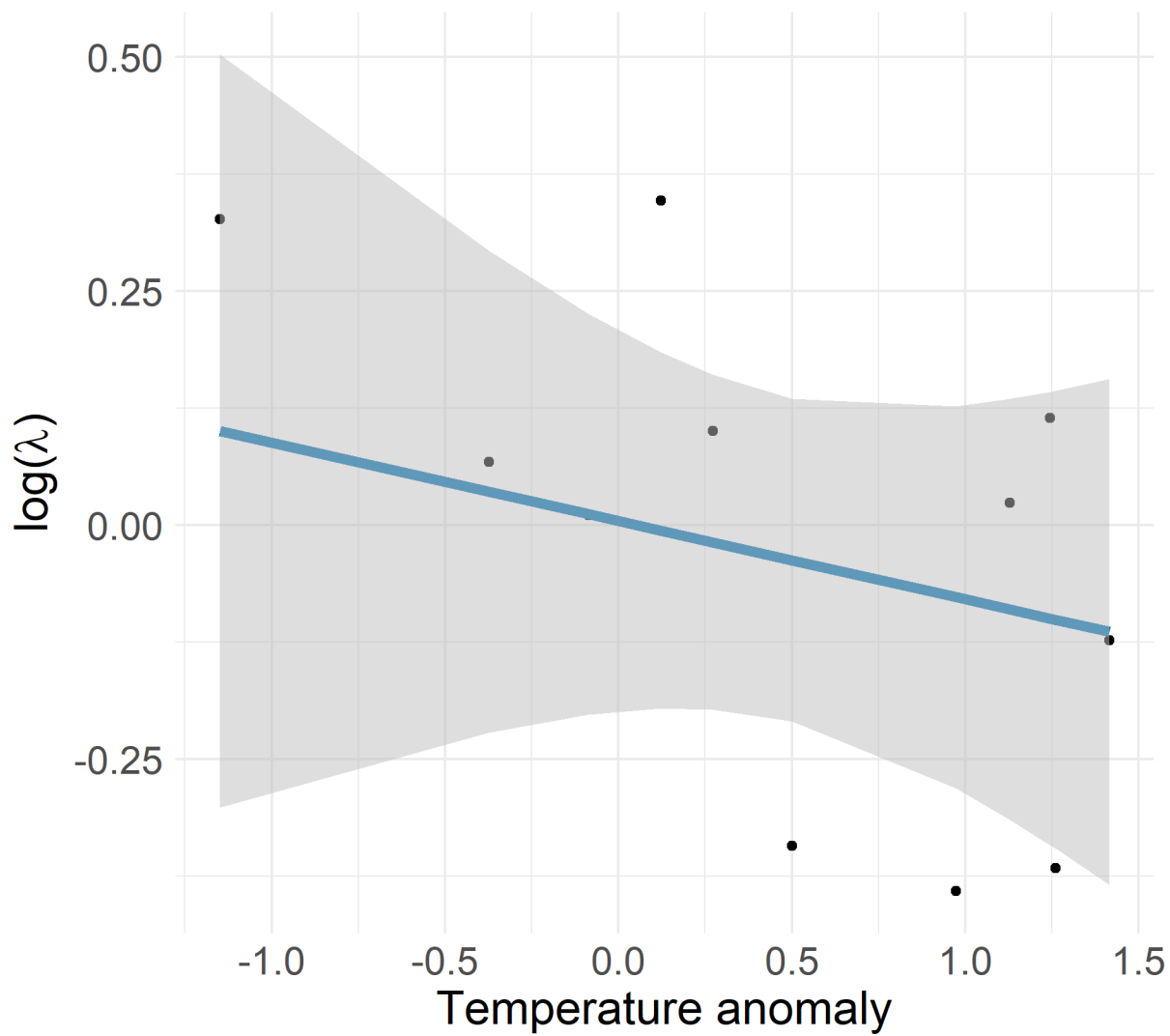


Figure 11: Astragalus scaphoides 6 Haynes Creek

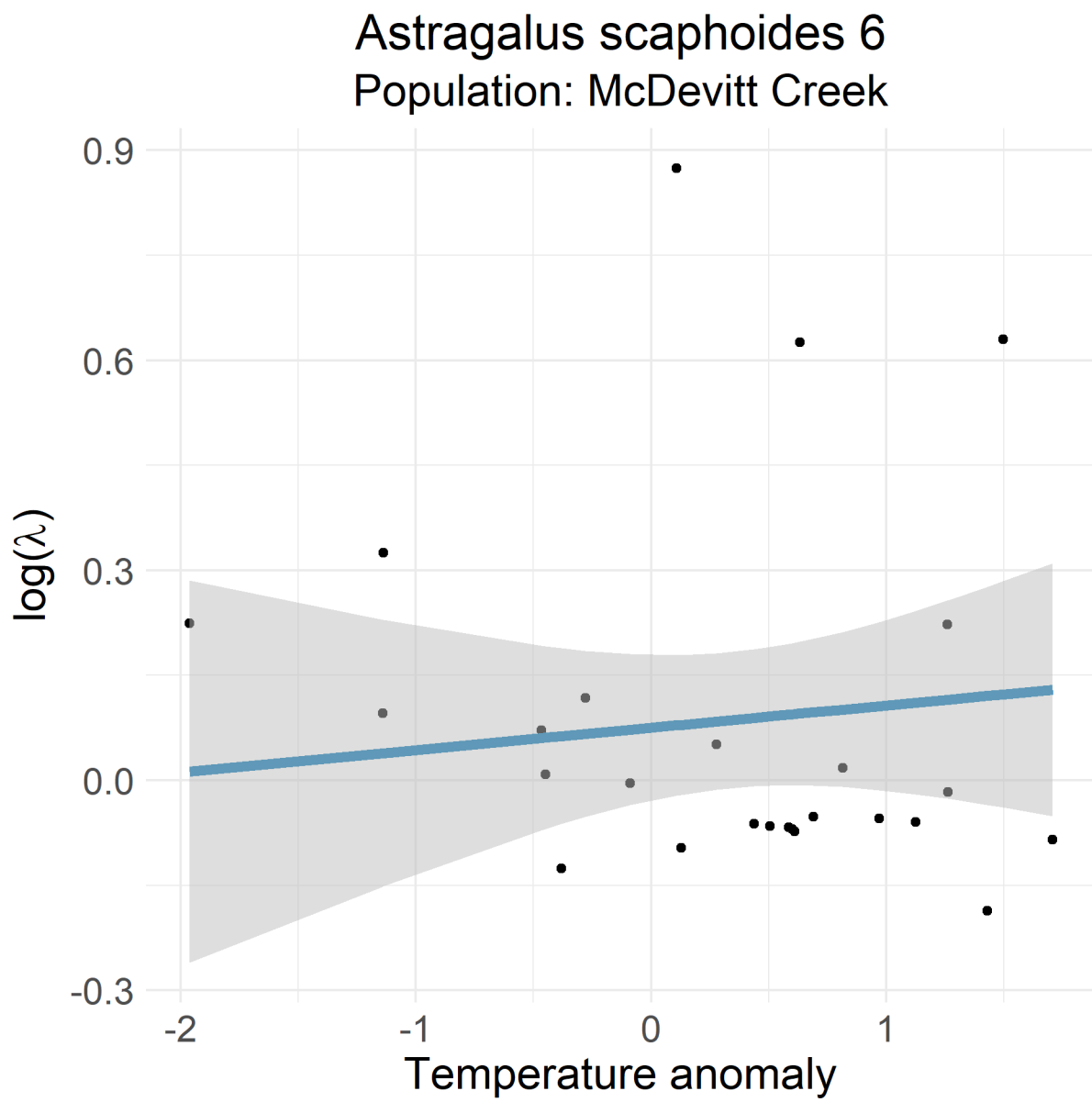


Figure 12: Astragalus scaphoides 6 McDevitt Creek

Astragalus scaphoides 6  
Population: Reservoir Creek

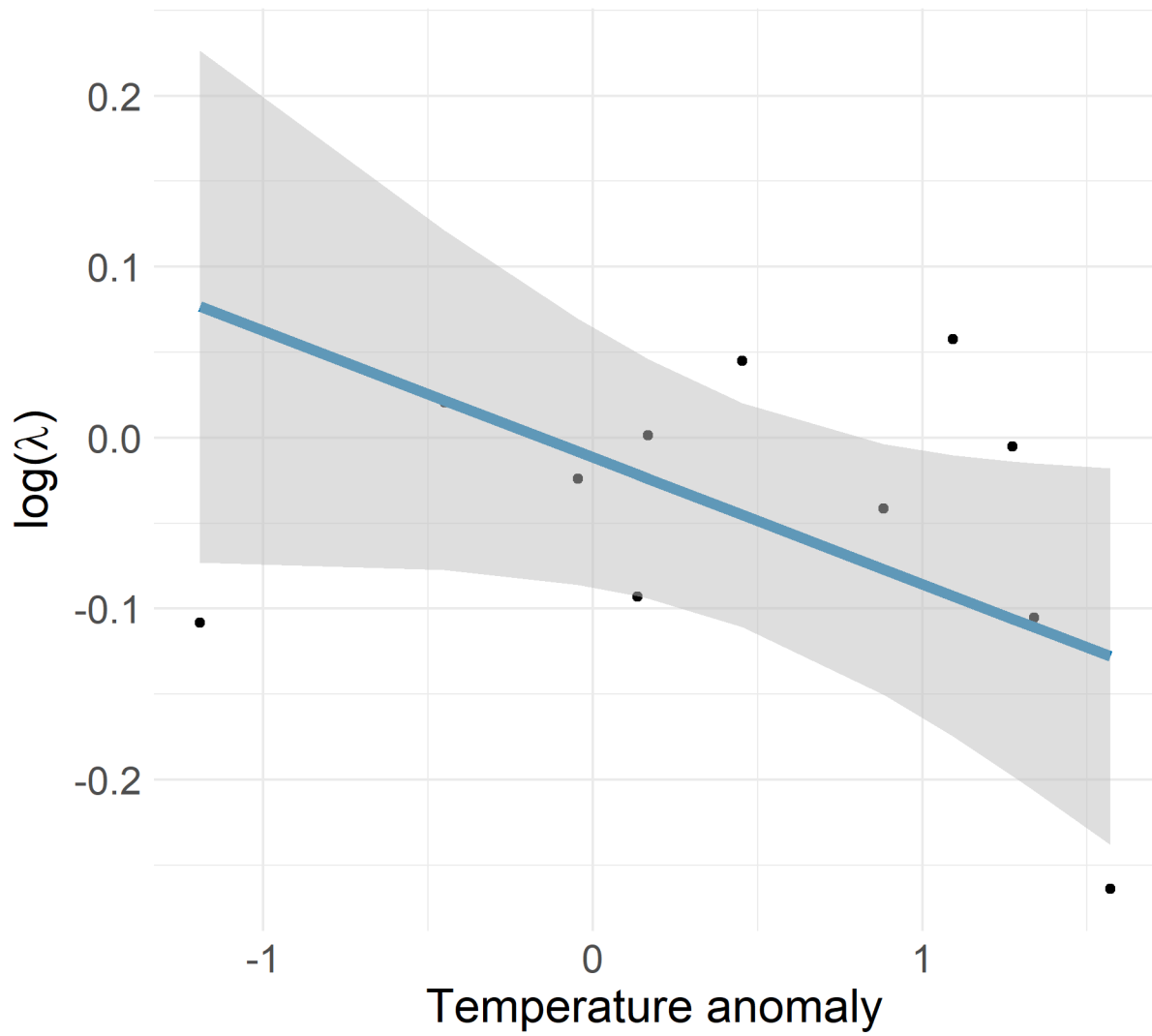


Figure 13: Astragalus scaphoides 6 Reservoir Creek

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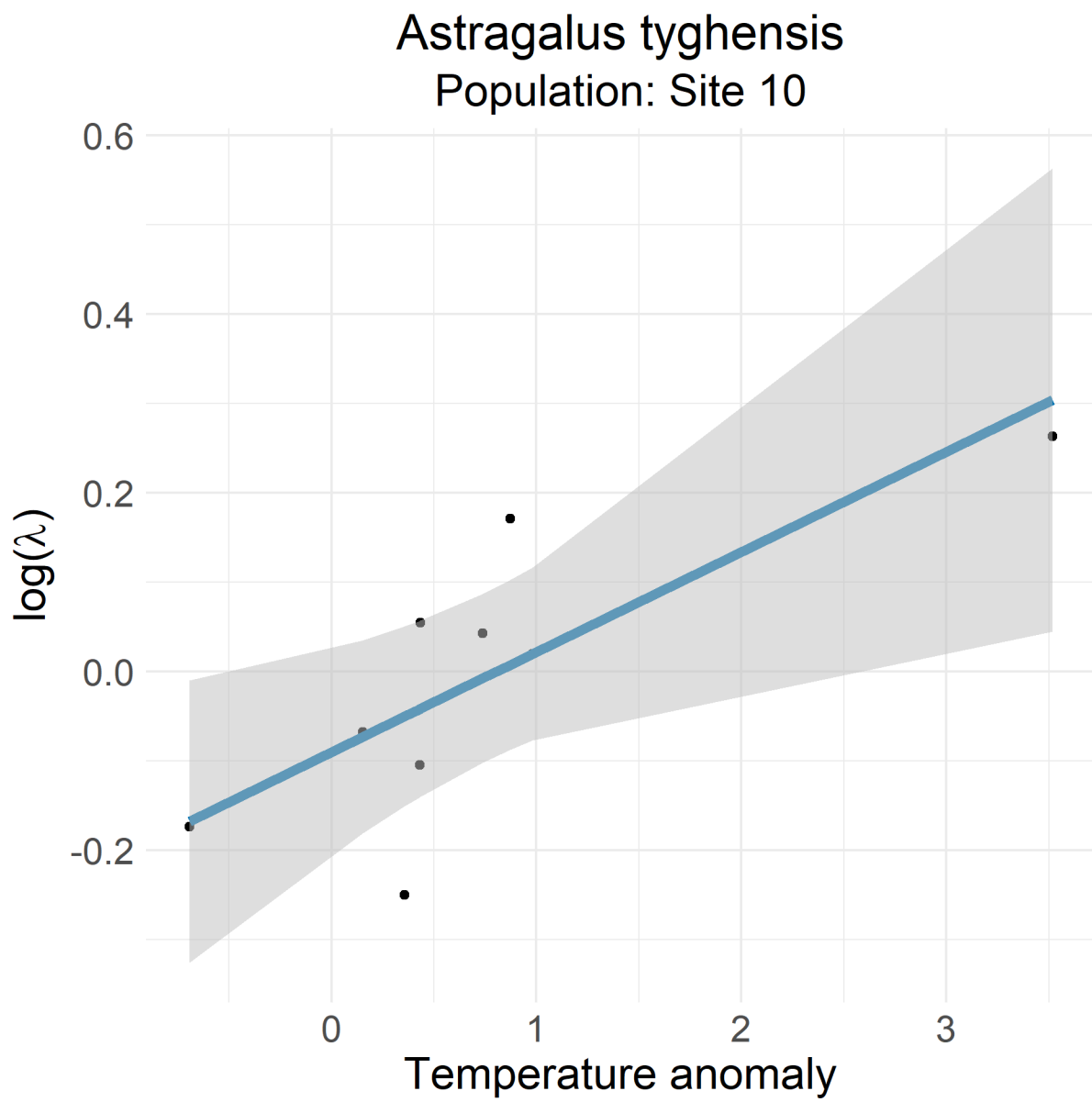


Figure 15: *Astragalus tyghensis* Site 10

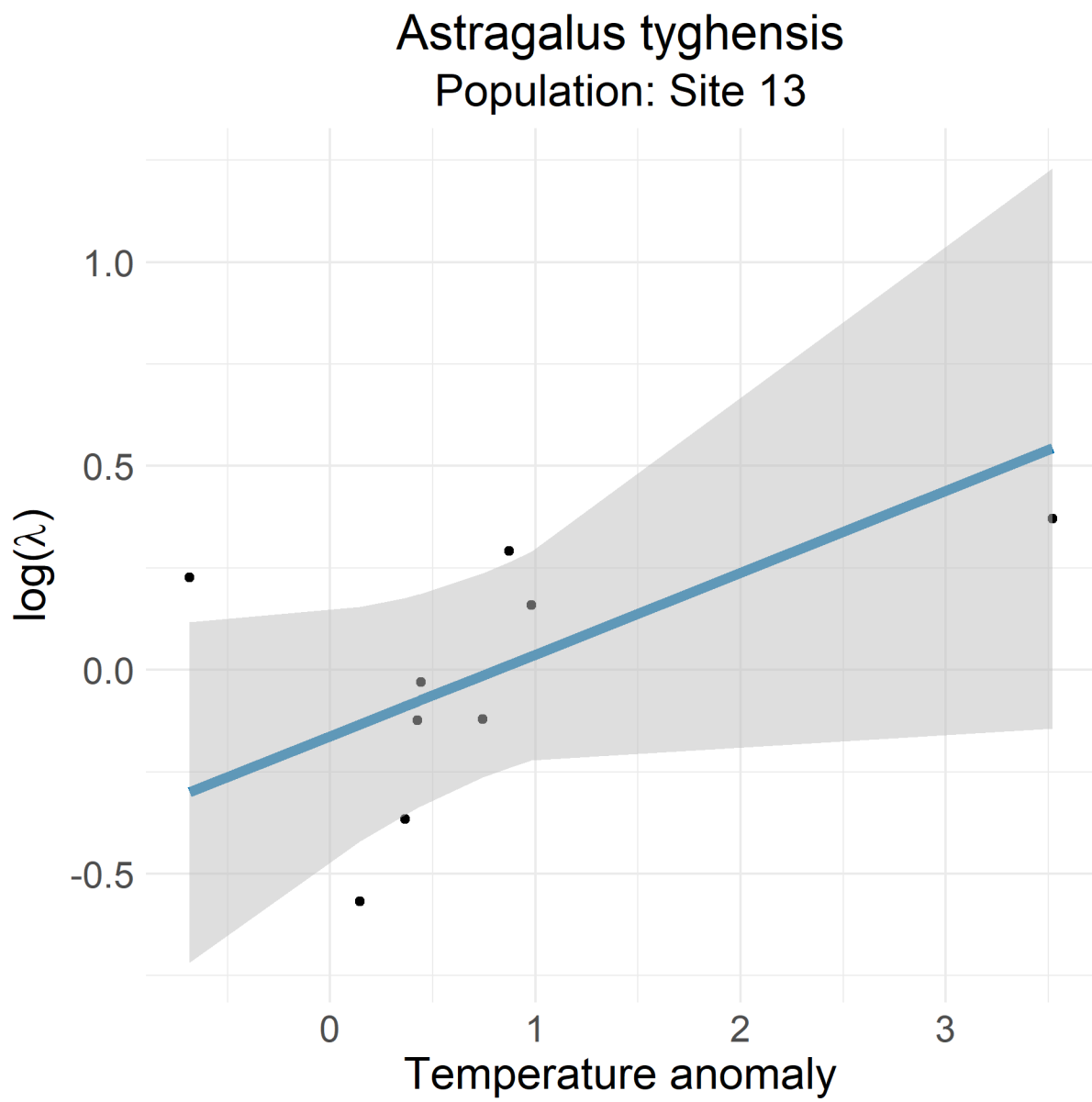


Figure 16: *Astragalus tyghensis* Site 13

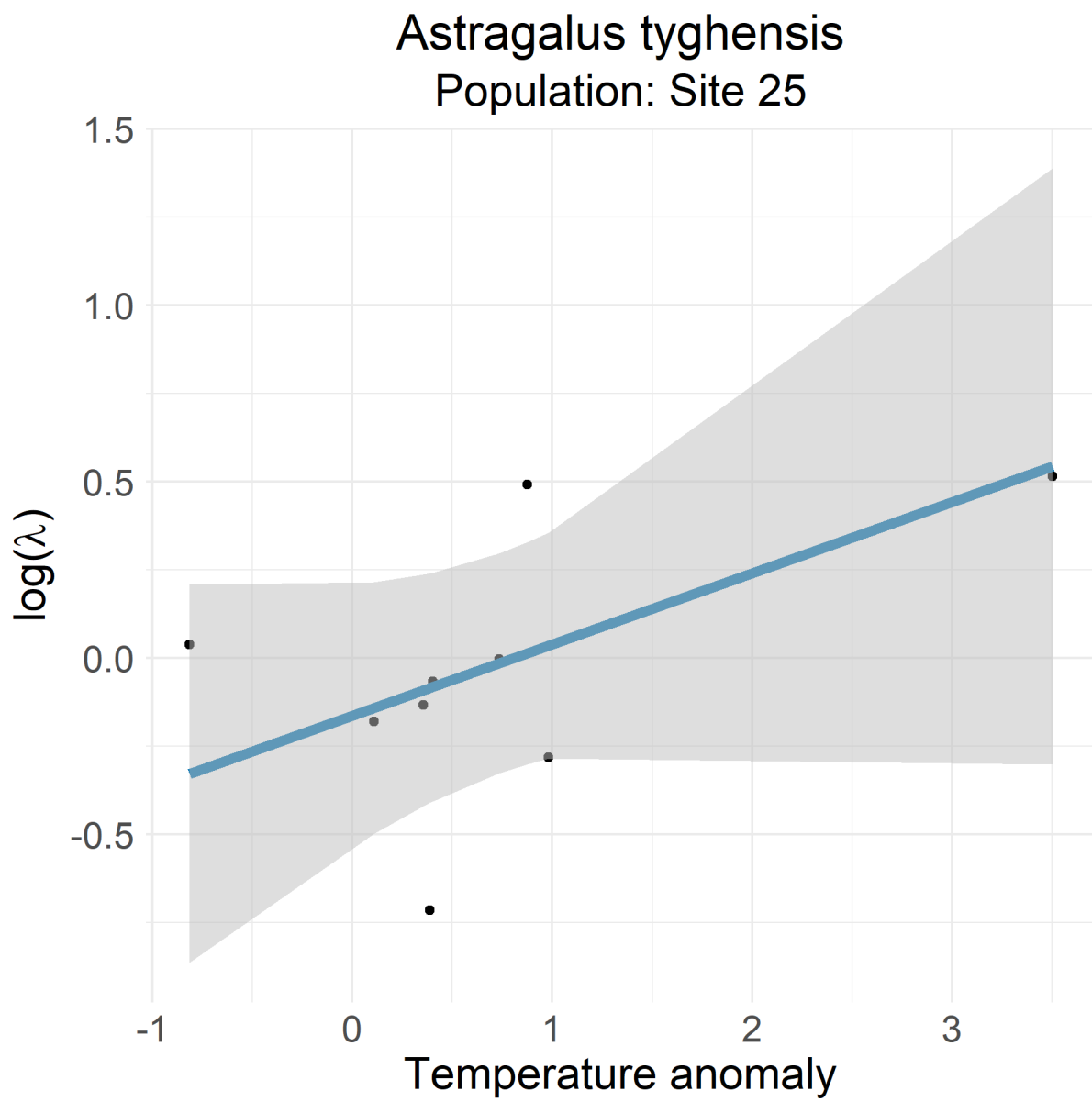


Figure 17: *Astragalus tyghensis* Site 25

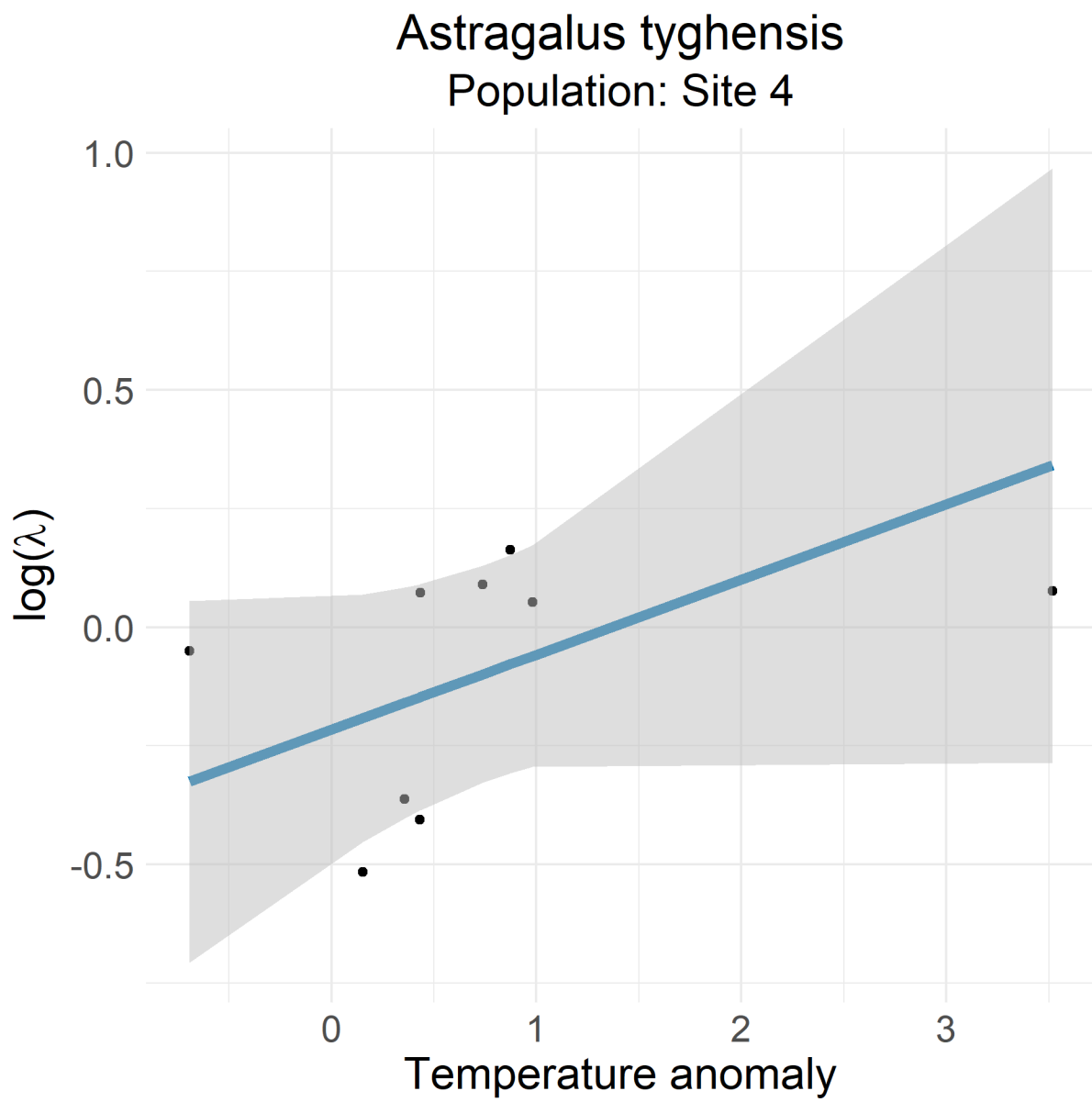


Figure 18: *Astragalus tyghensis* Site 4



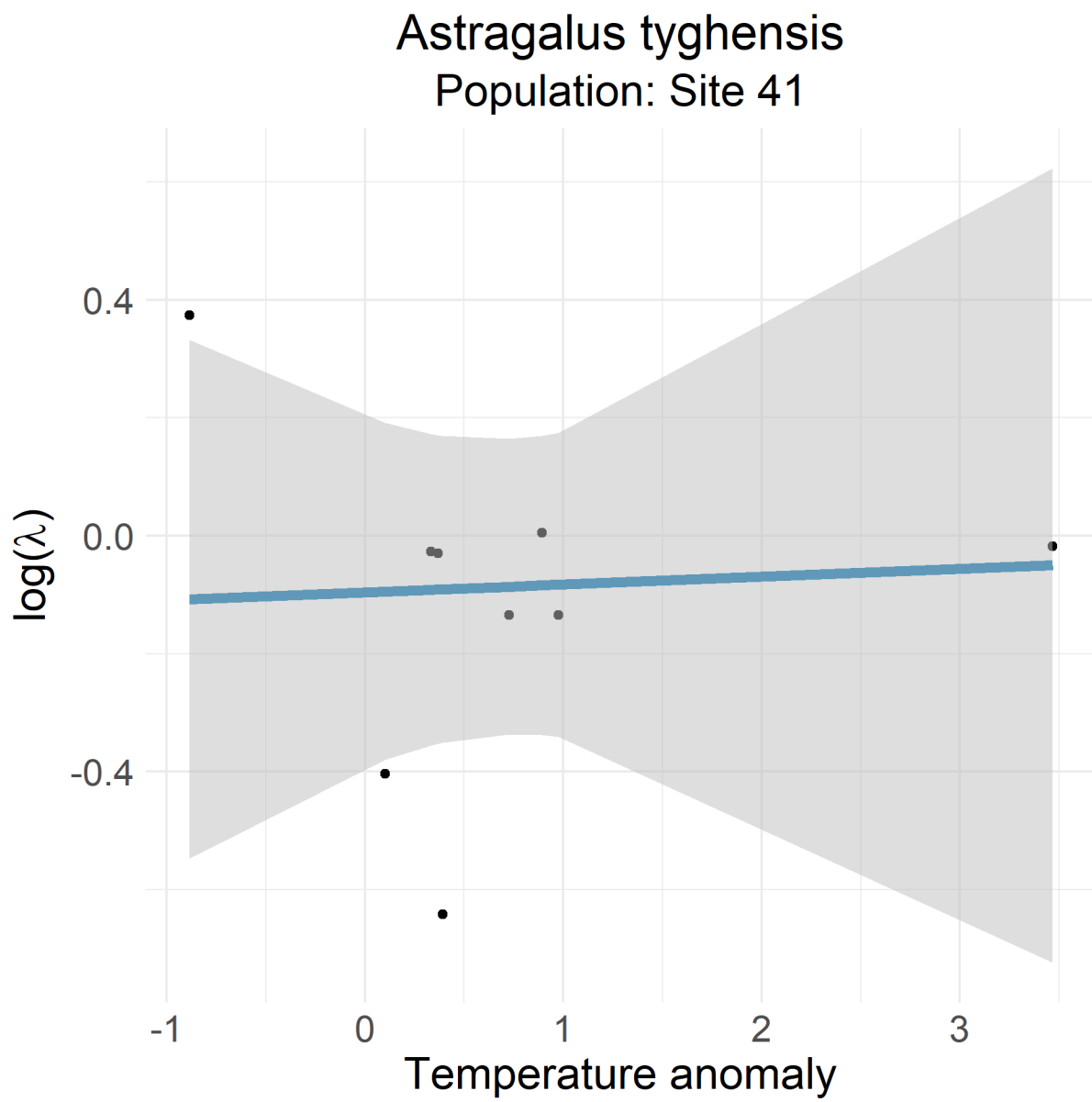


Figure 19: *Astragalus tyghensis* Site 41

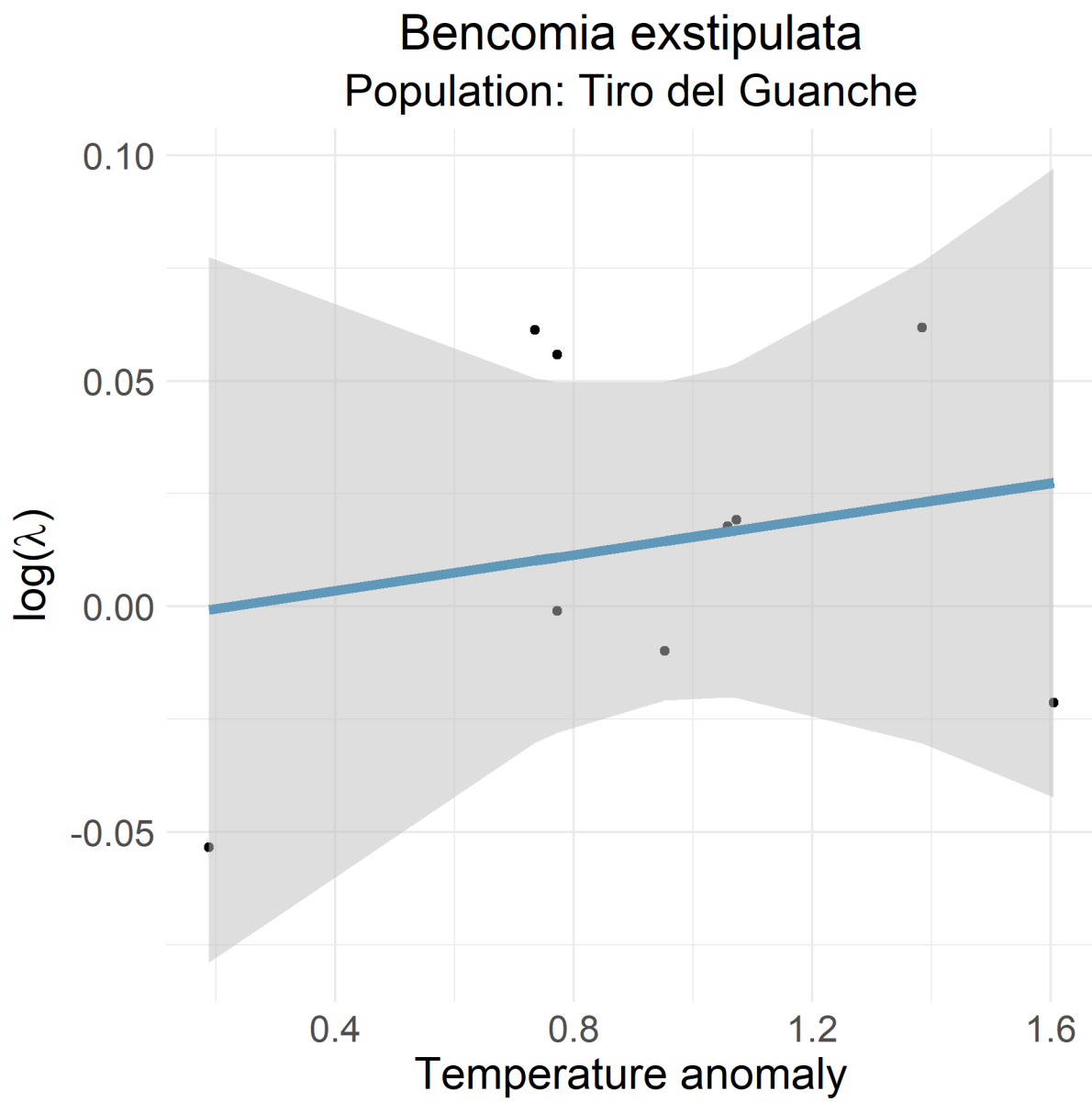


Figure 20: *Bencomia exstipulata* Tiro del Guanche

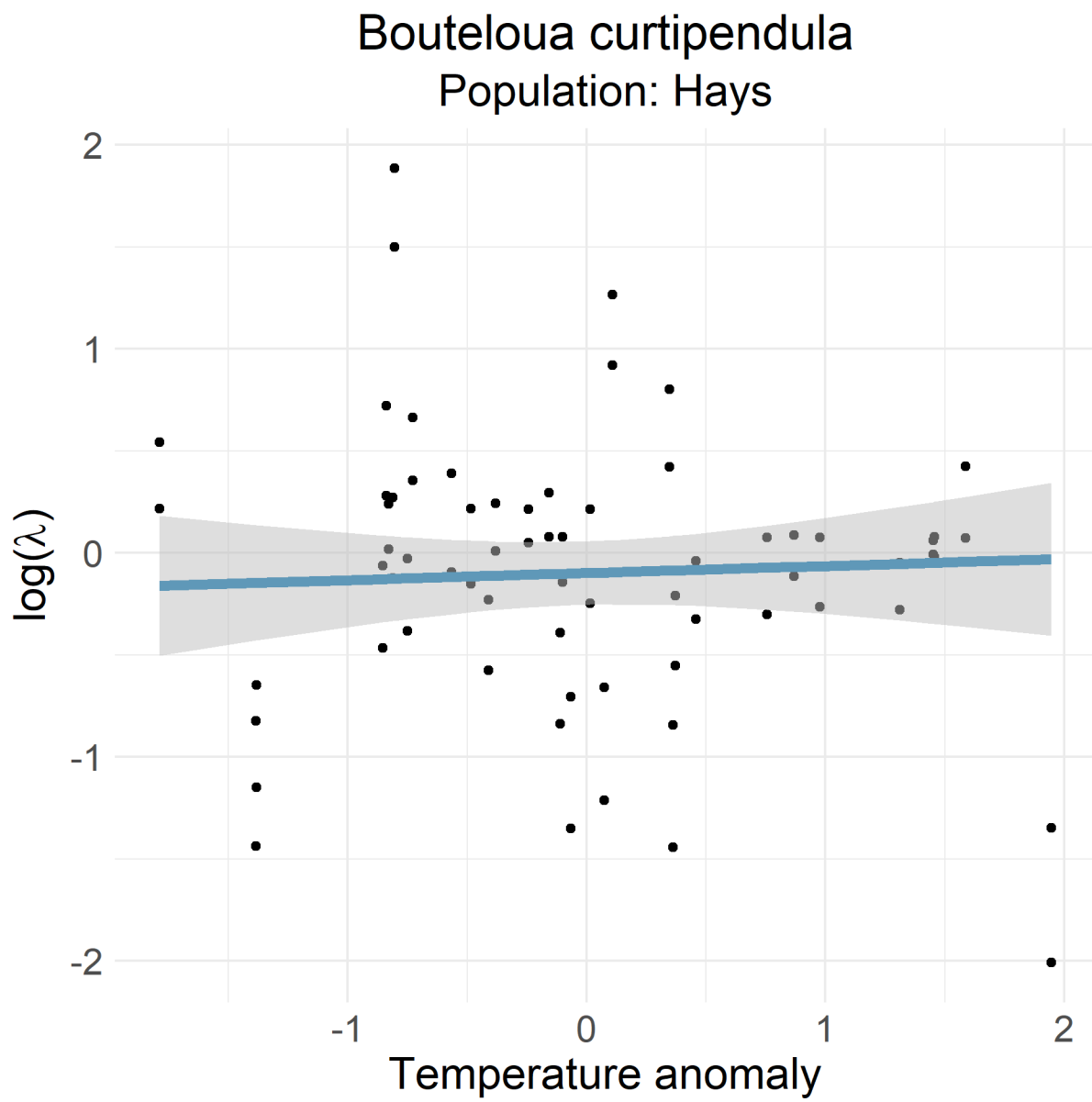


Figure 21: *Bouteloua curtipendula* Hays

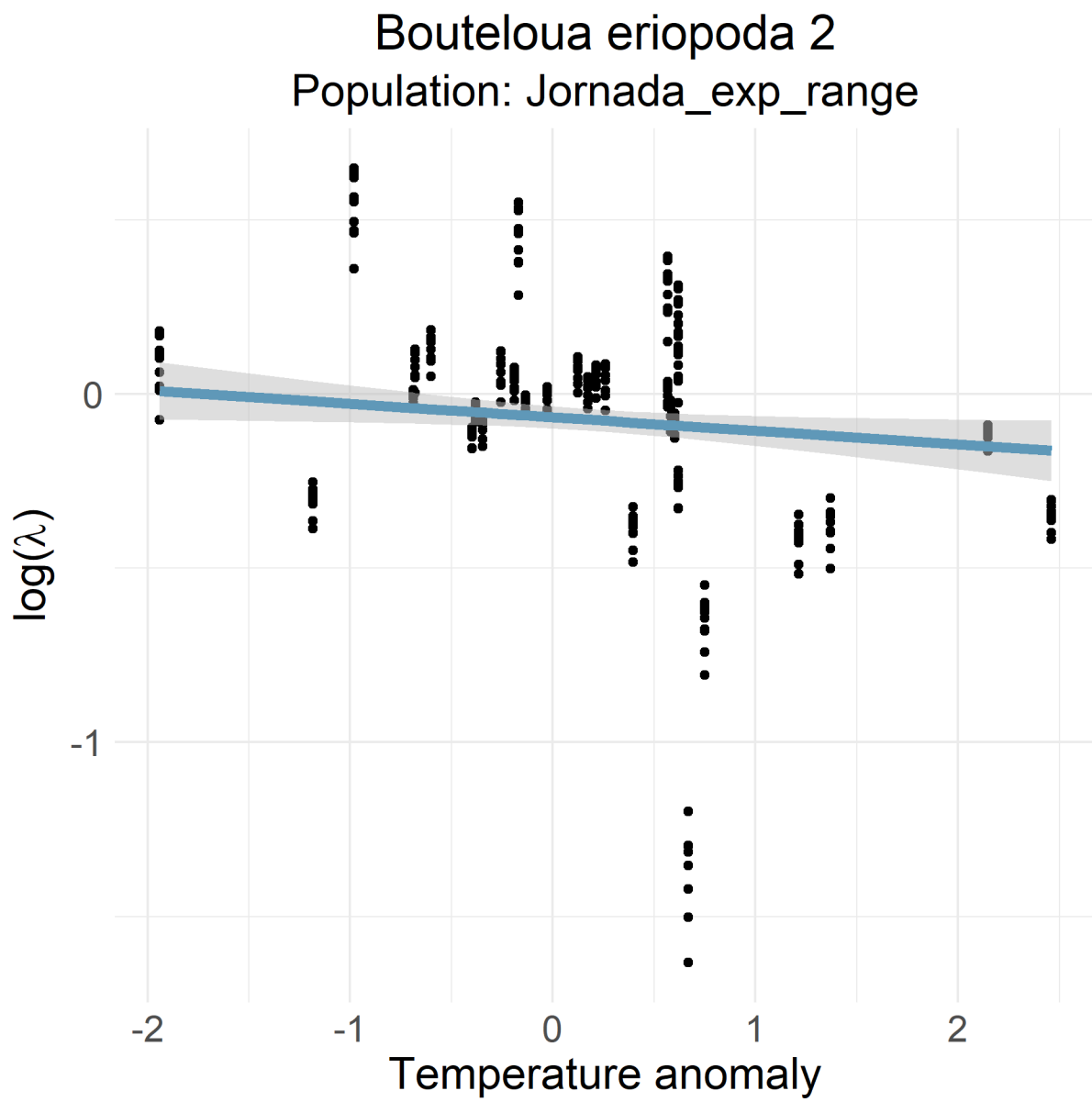
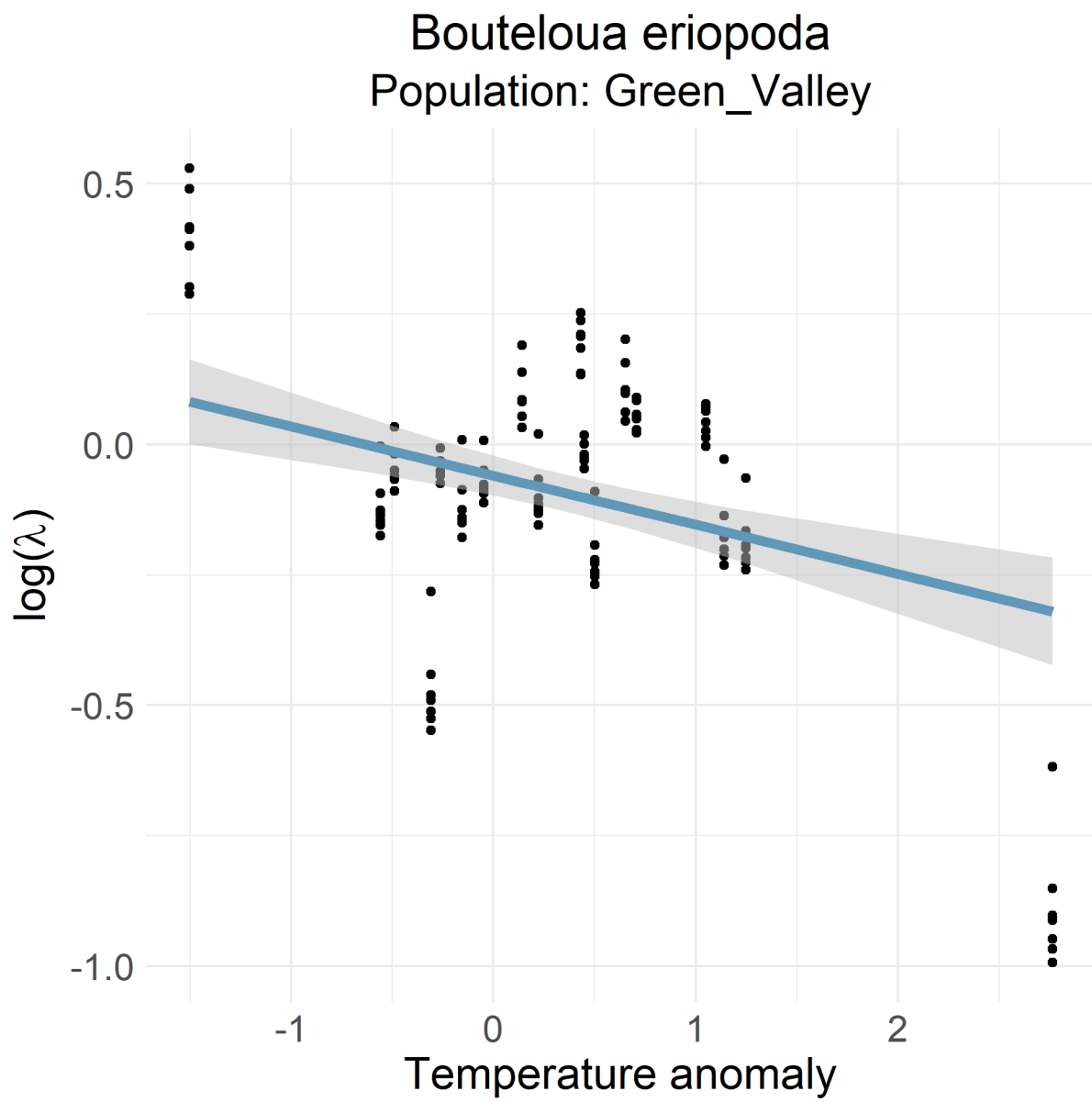


Figure 22: Bouteloua eriopoda 2 Jornada exp range



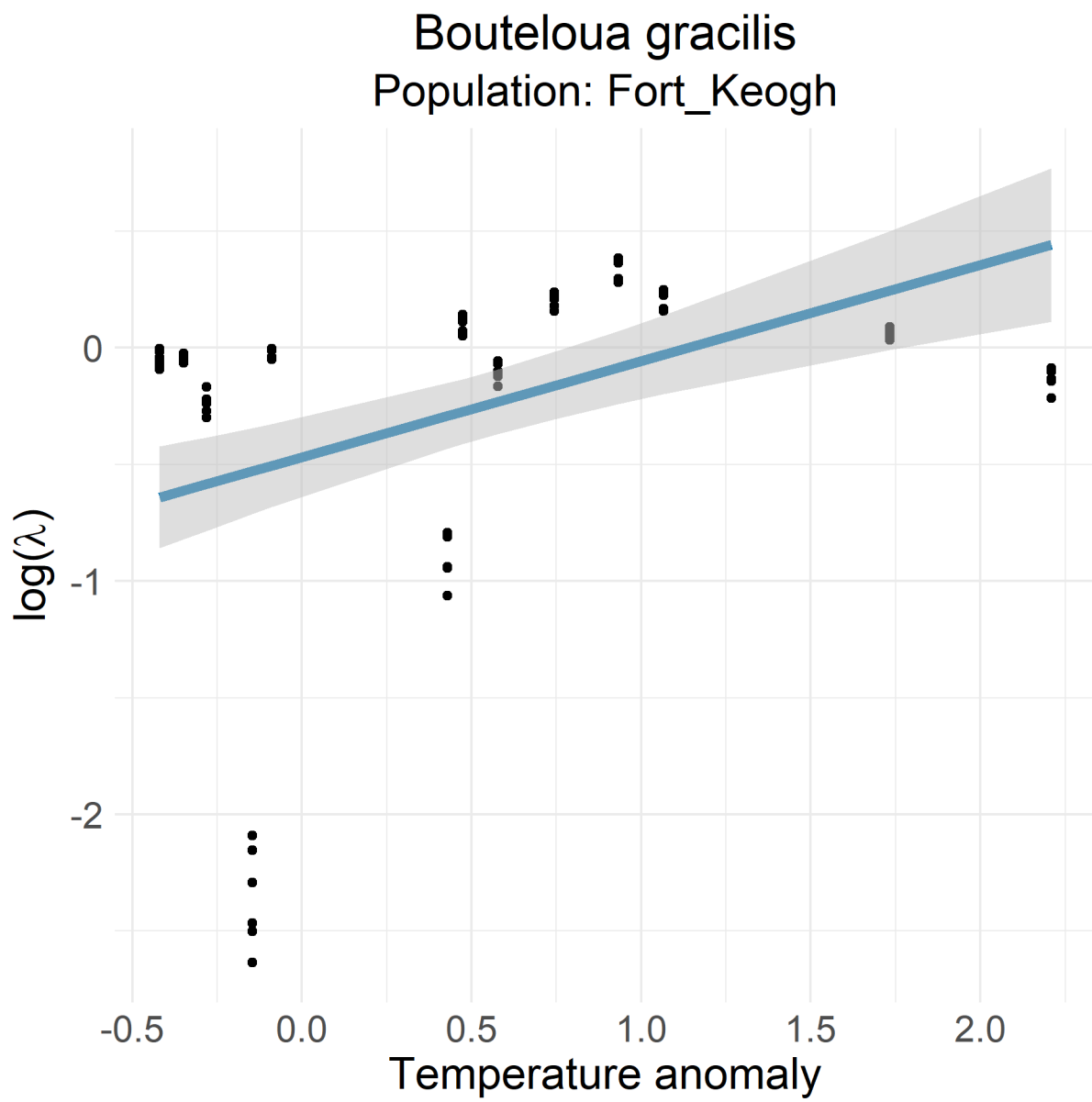


Figure 24: *Bouteloua gracilis* Fort Keogh

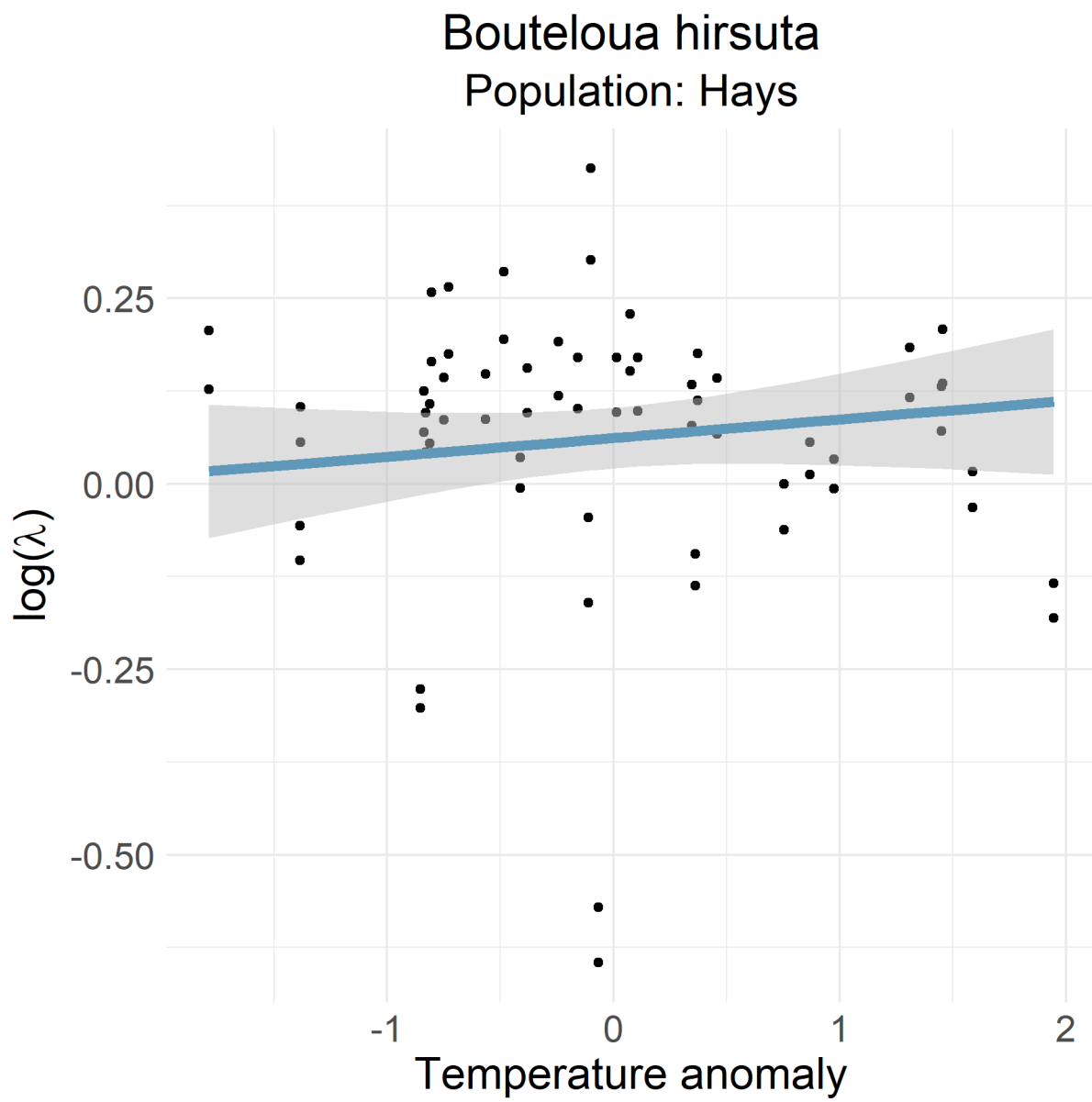


Figure 25: *Bouteloua hirsuta* Hays

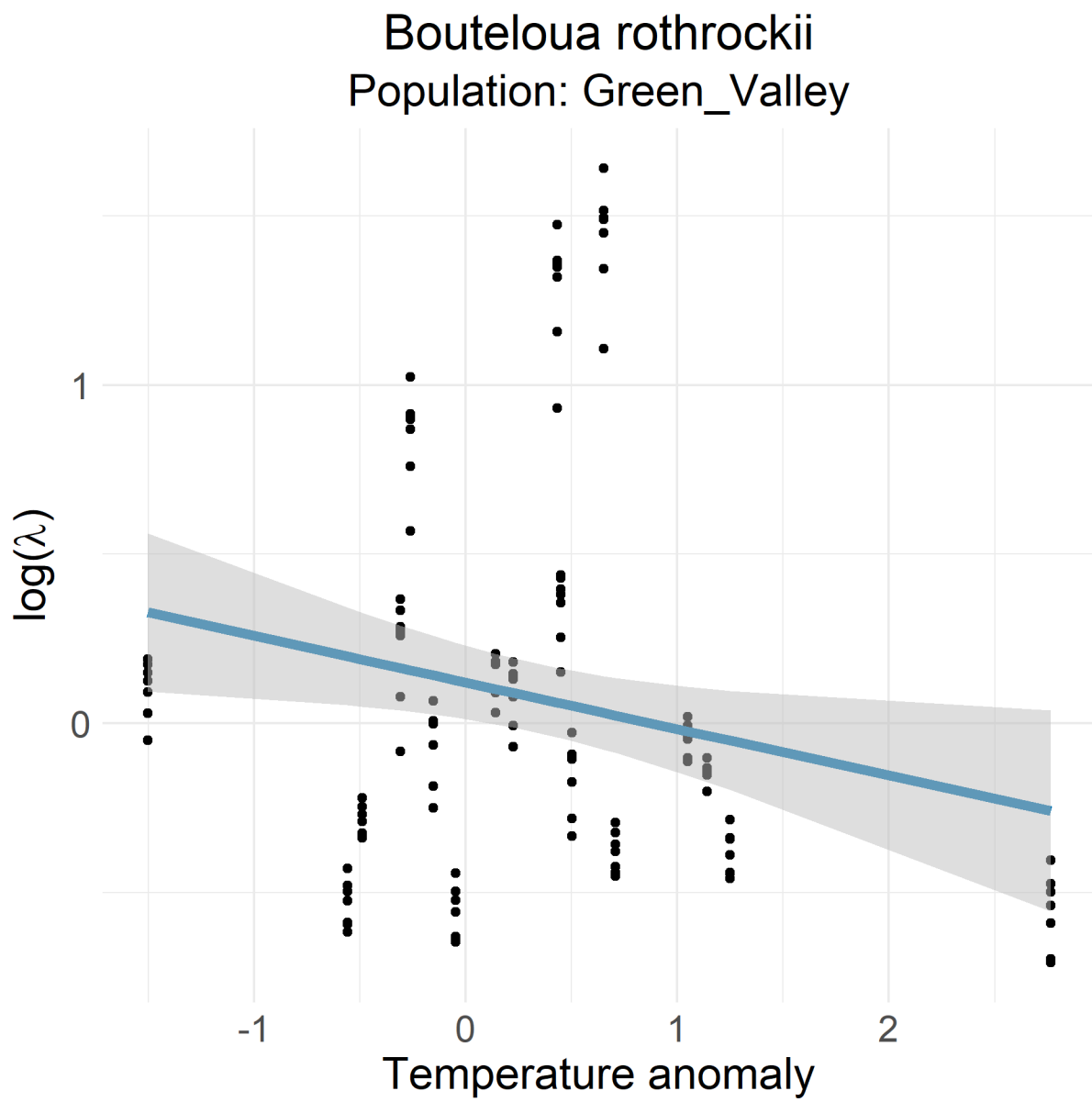


Figure 26: *Bouteloua rothrockii* Green Valley



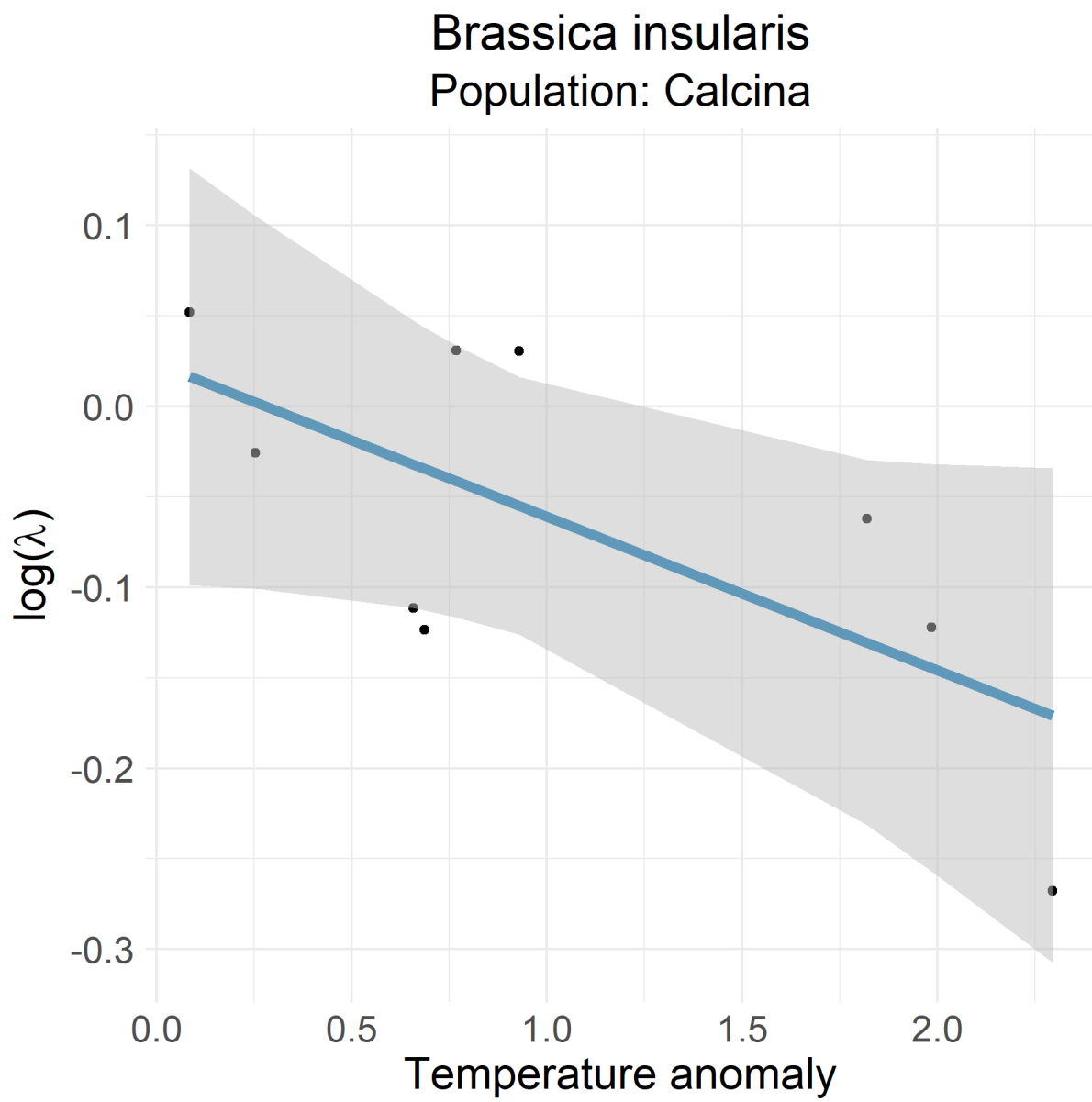


Figure 27: *Brassica insularis* Calcina

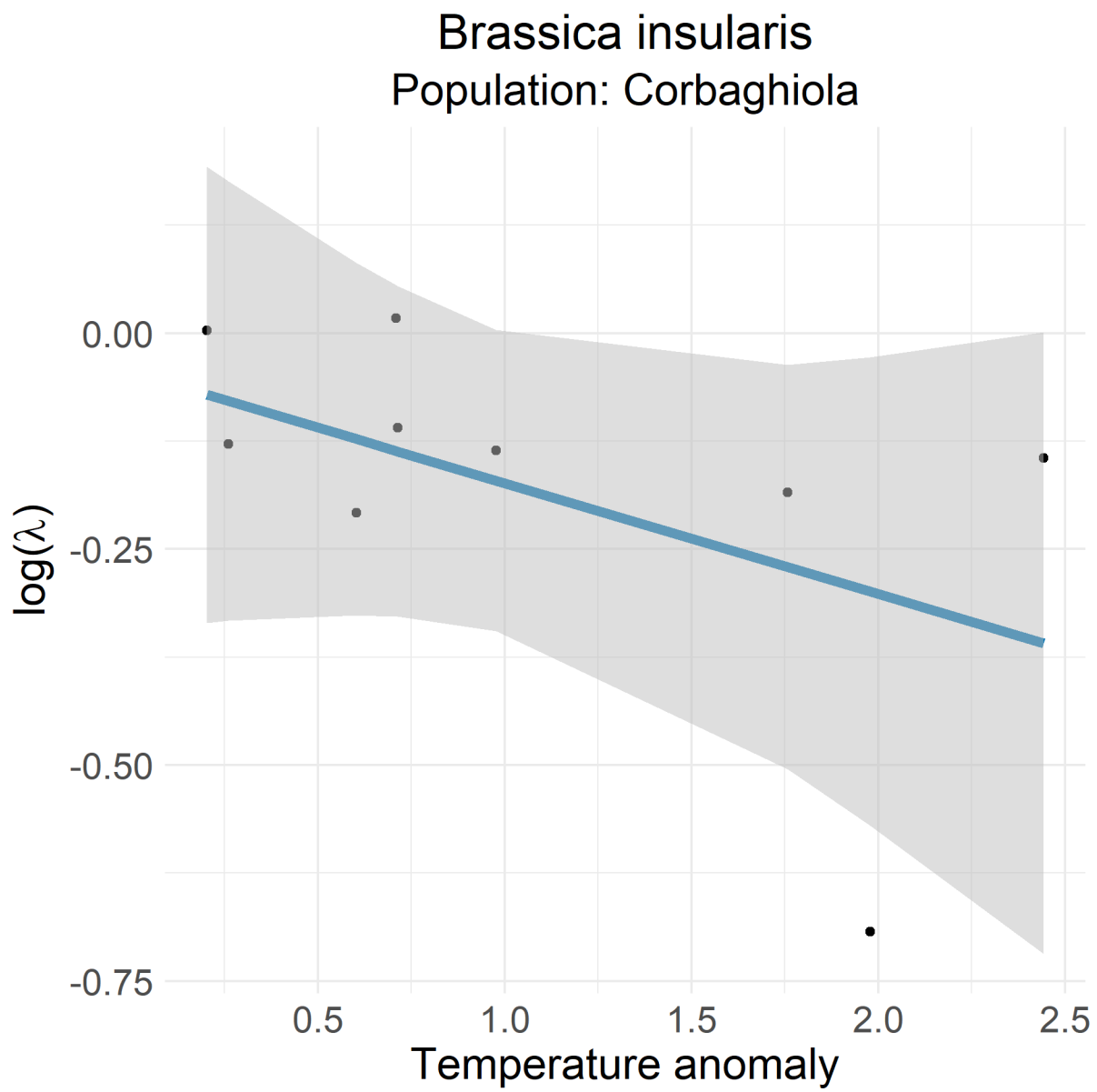


Figure 28: *Brassica insularis* Corbaghiola

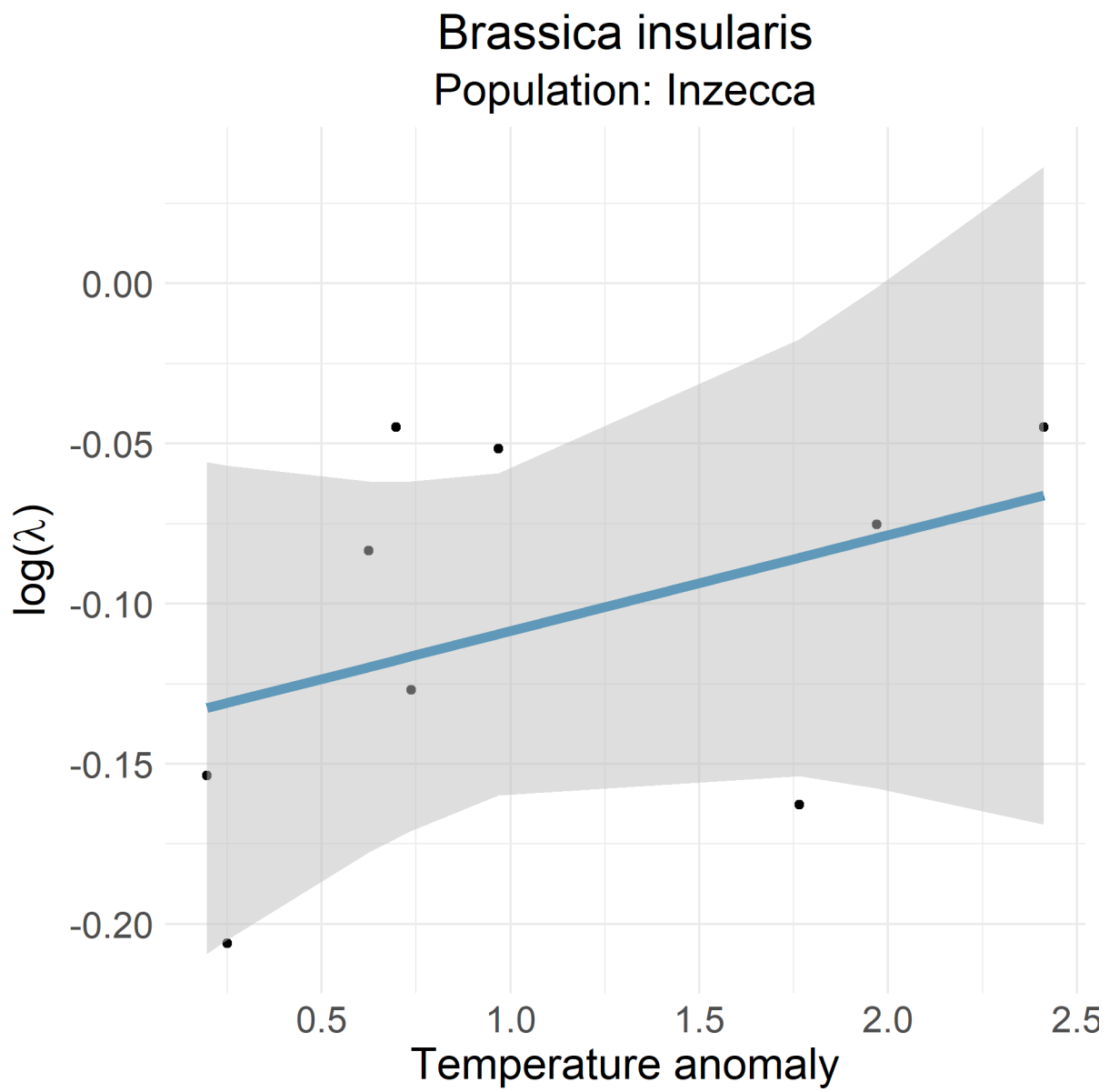


Figure 29: *Brassica insularis* Inzecca

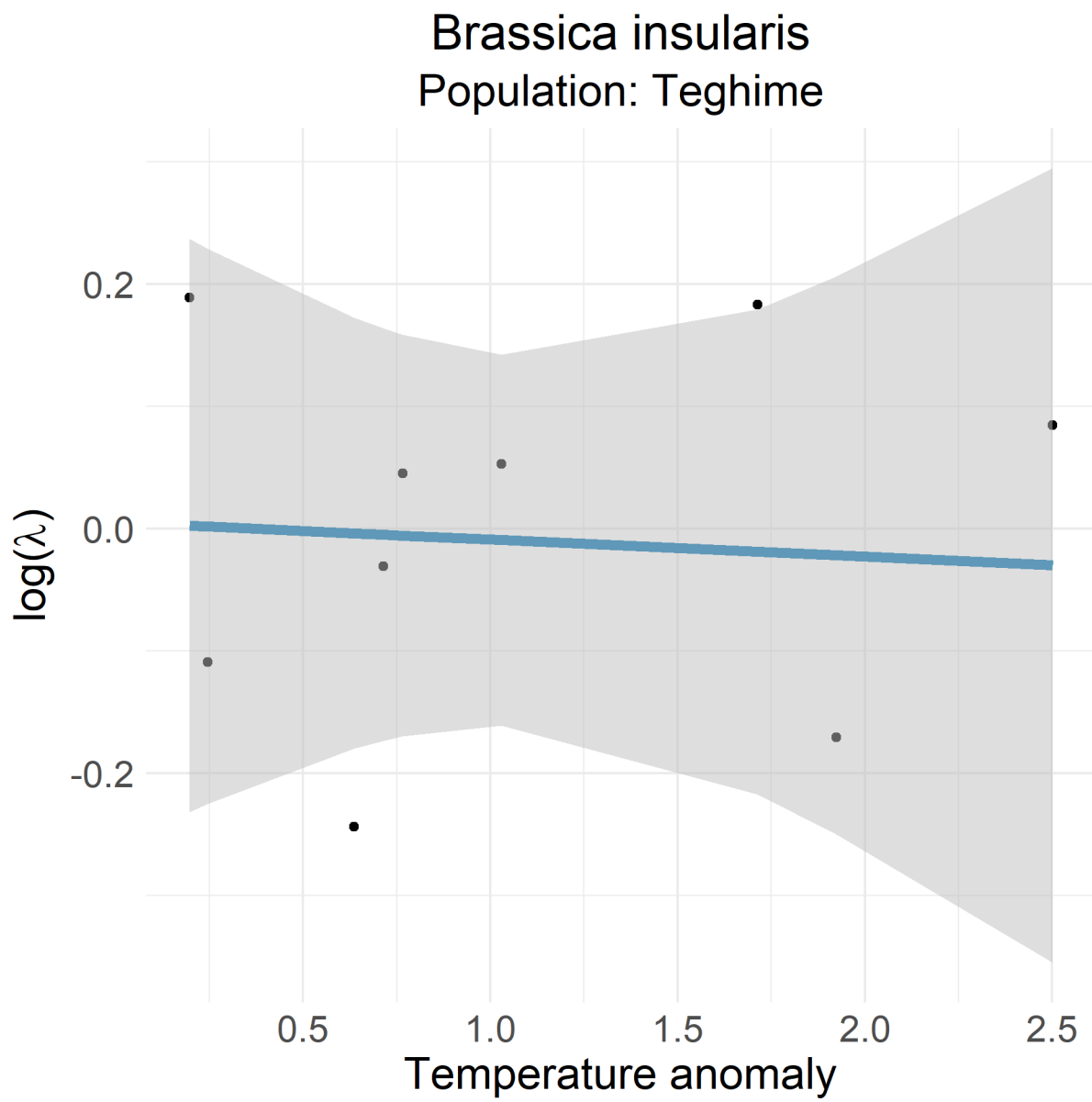


Figure 30: *Brassica insularis* Teghime

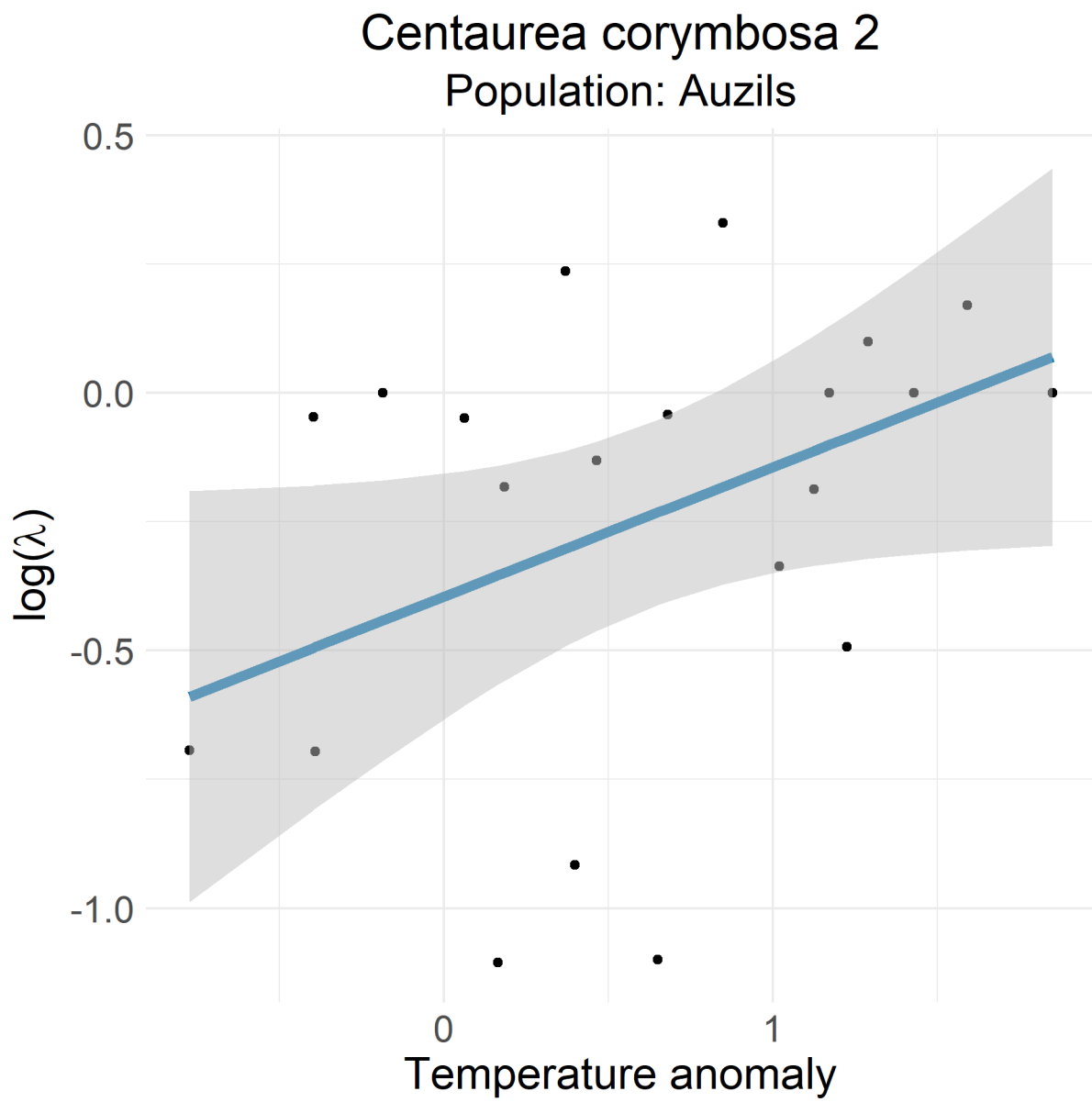


Figure 31: *Centaurea corymbosa* 2 Auzils

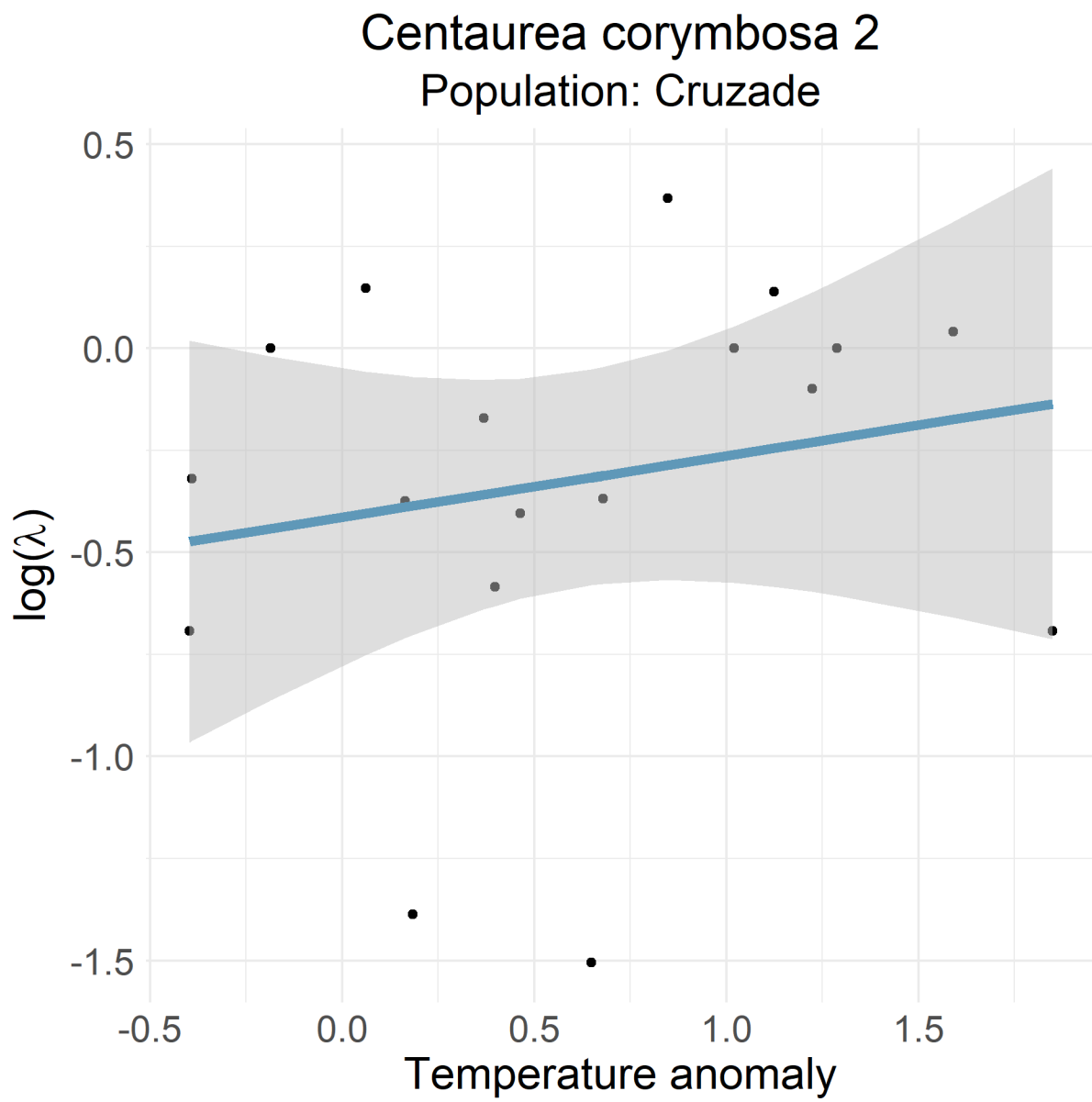


Figure 32: *Centaurea corymbosa* 2 Cruzade

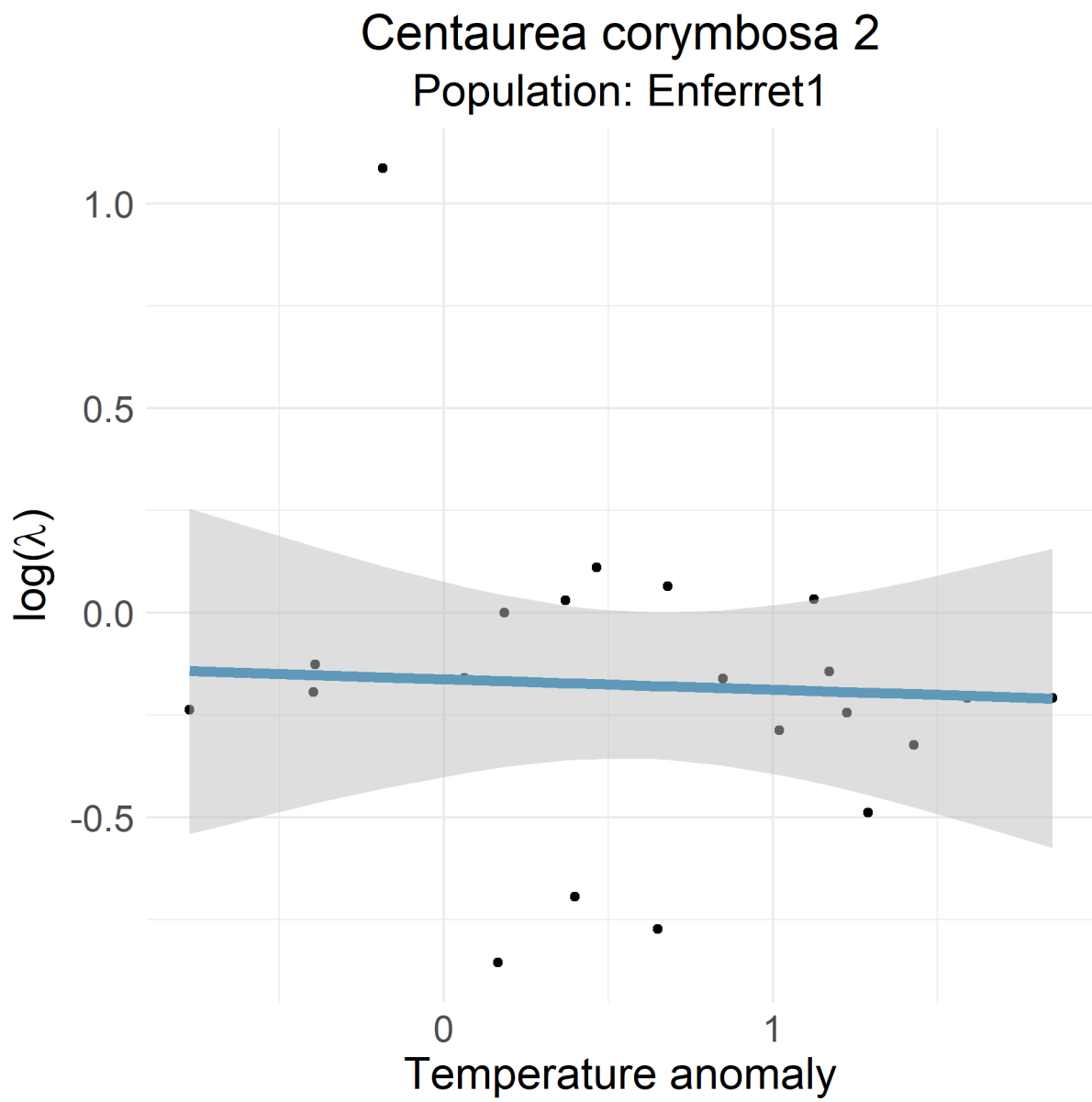


Figure 33: *Centaurea corymbosa* 2 Enferret1

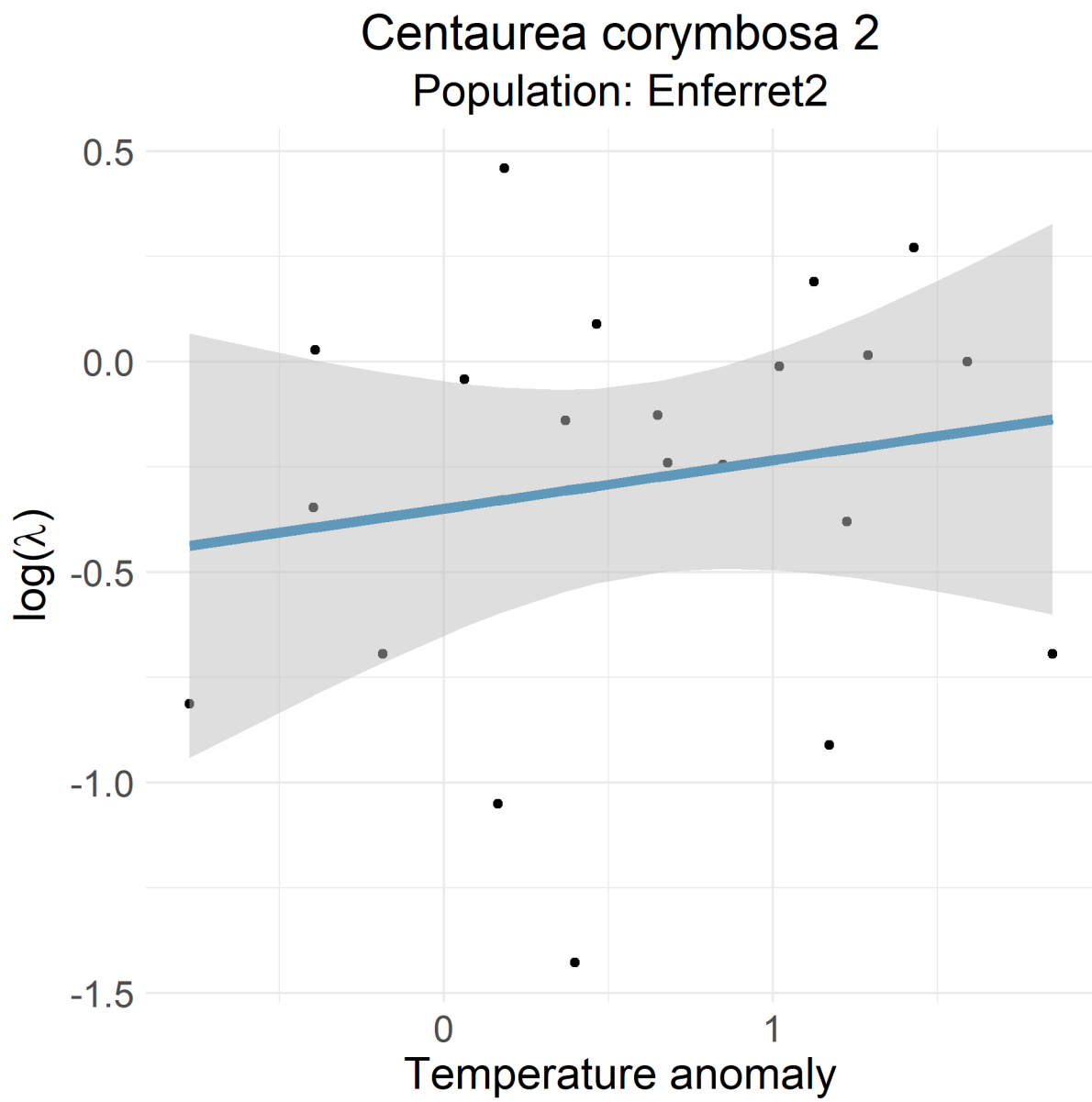


Figure 34: *Centaurea corymbosa* 2 Enferret2



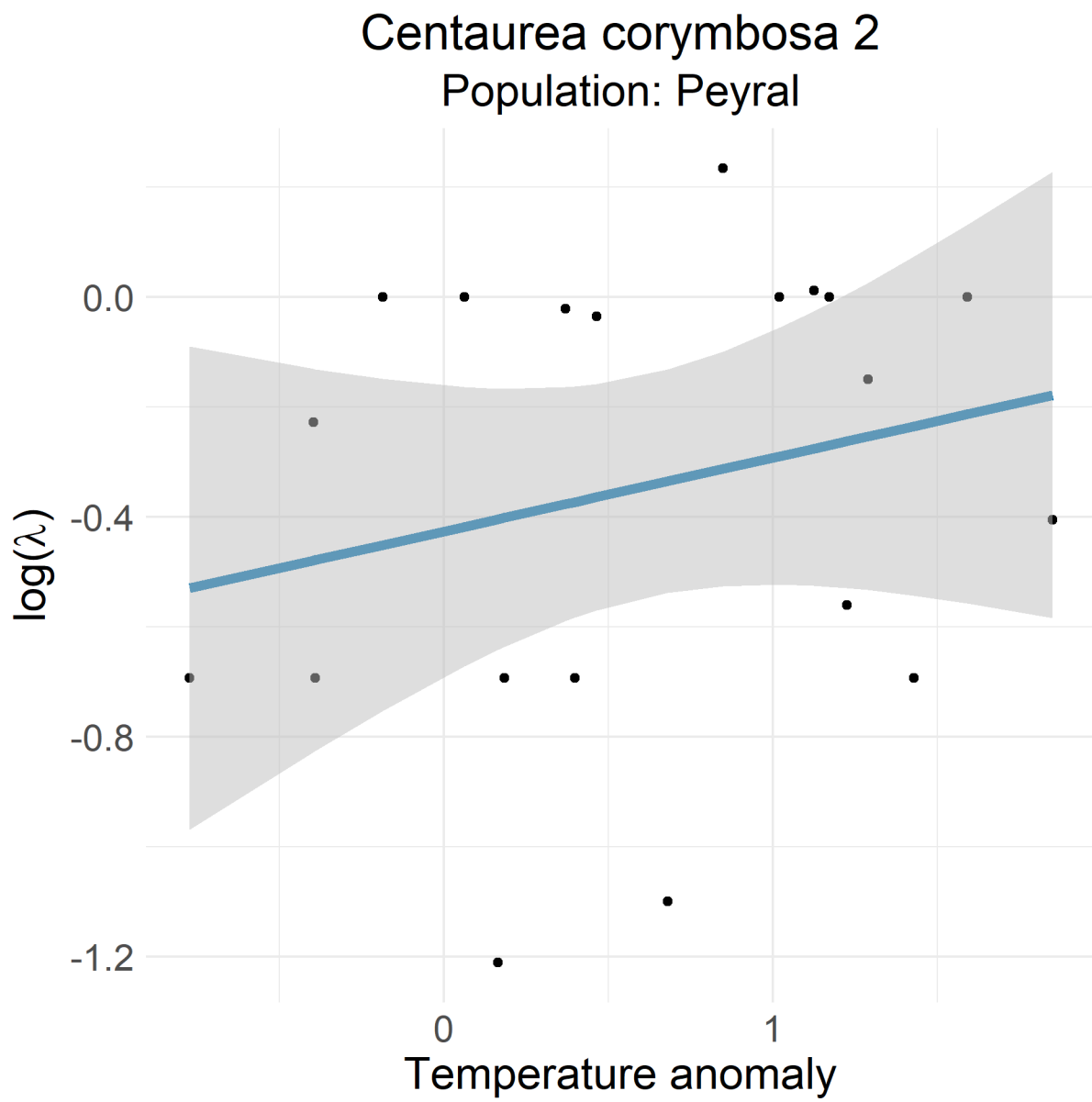


Figure 35: *Centaurea corymbosa* 2 Peyral

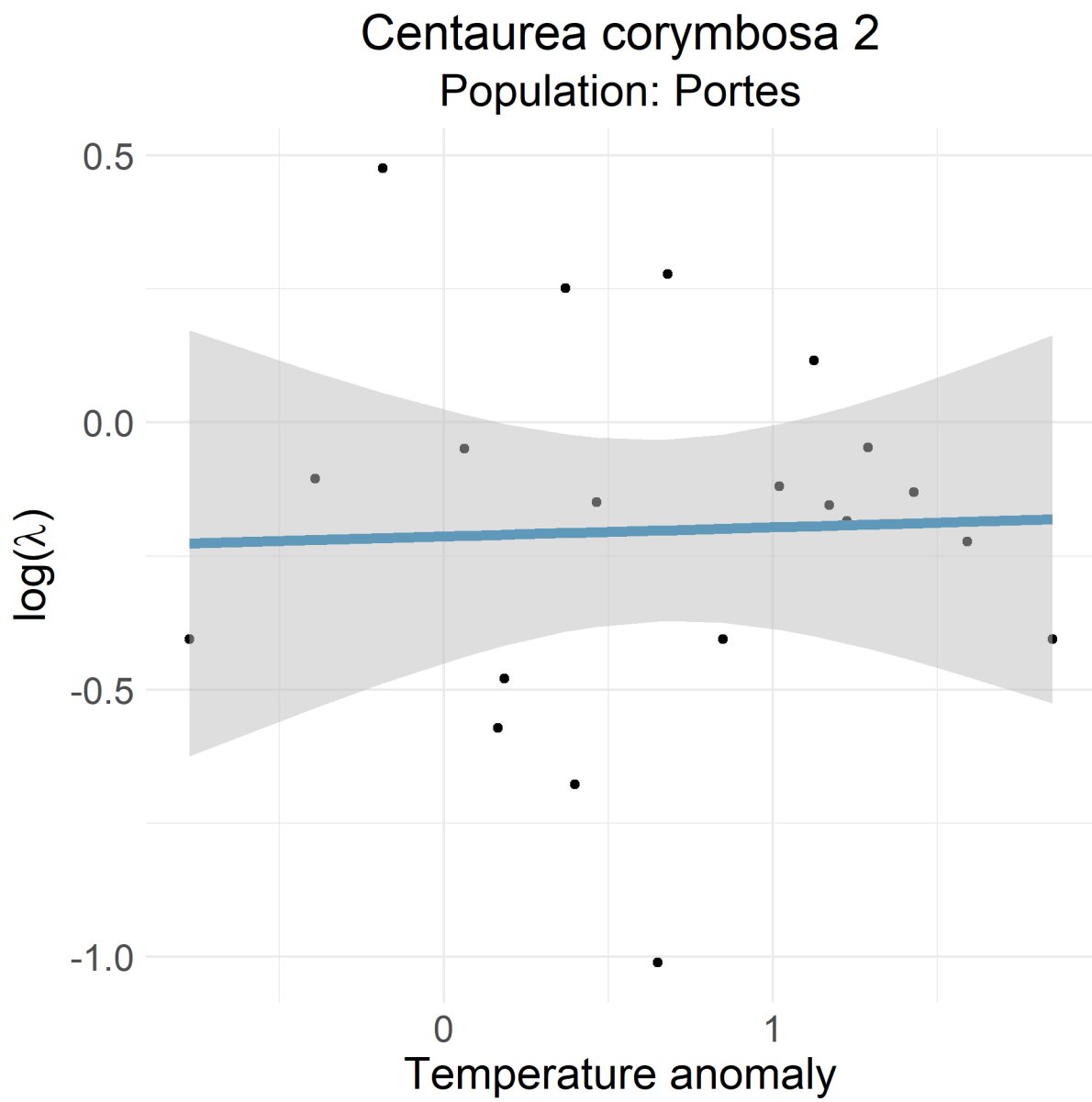


Figure 36: *Centaurea corymbosa* 2 Portes

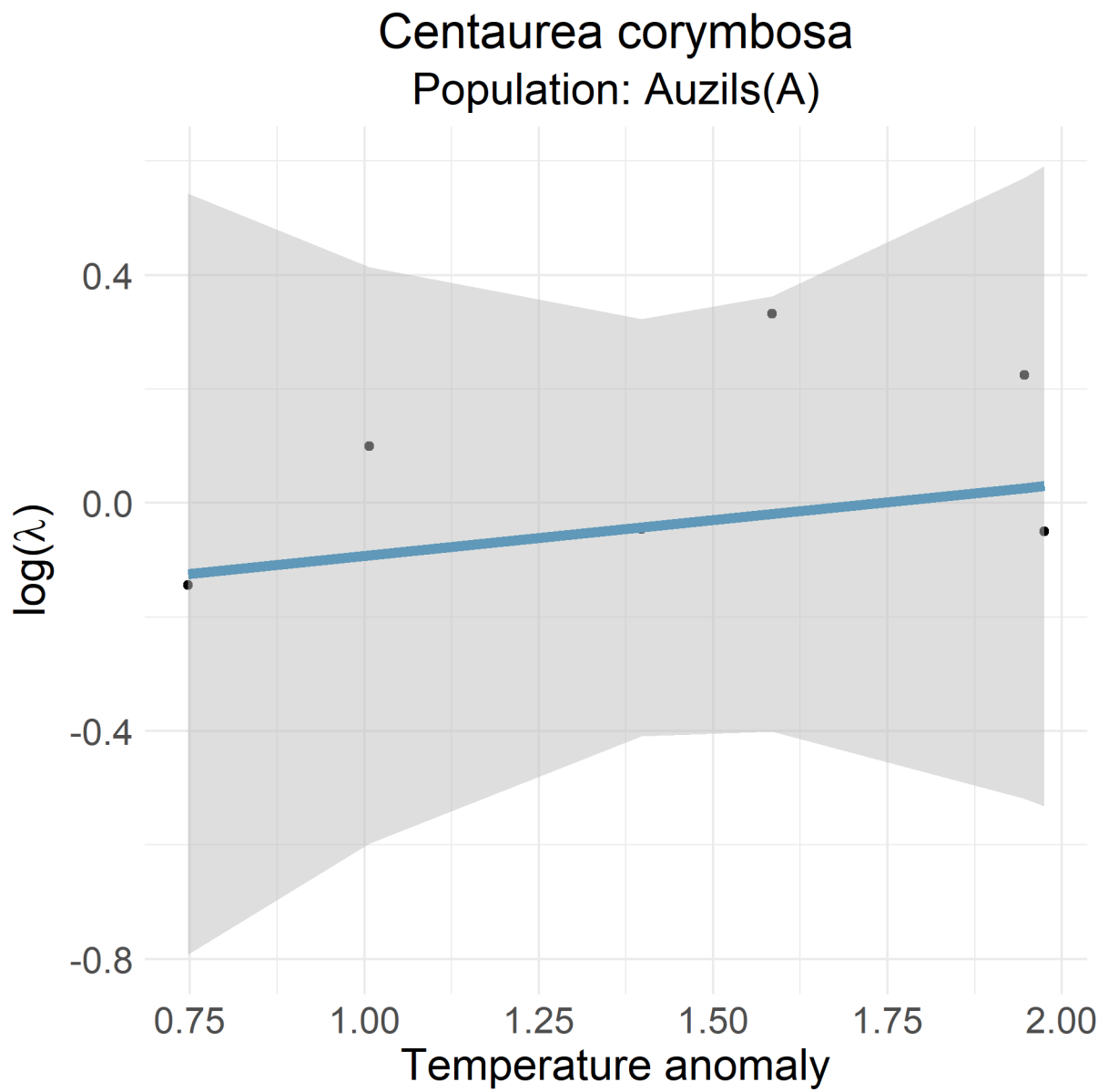


Figure 37: *Centaurea corymbosa* Auzils(A)

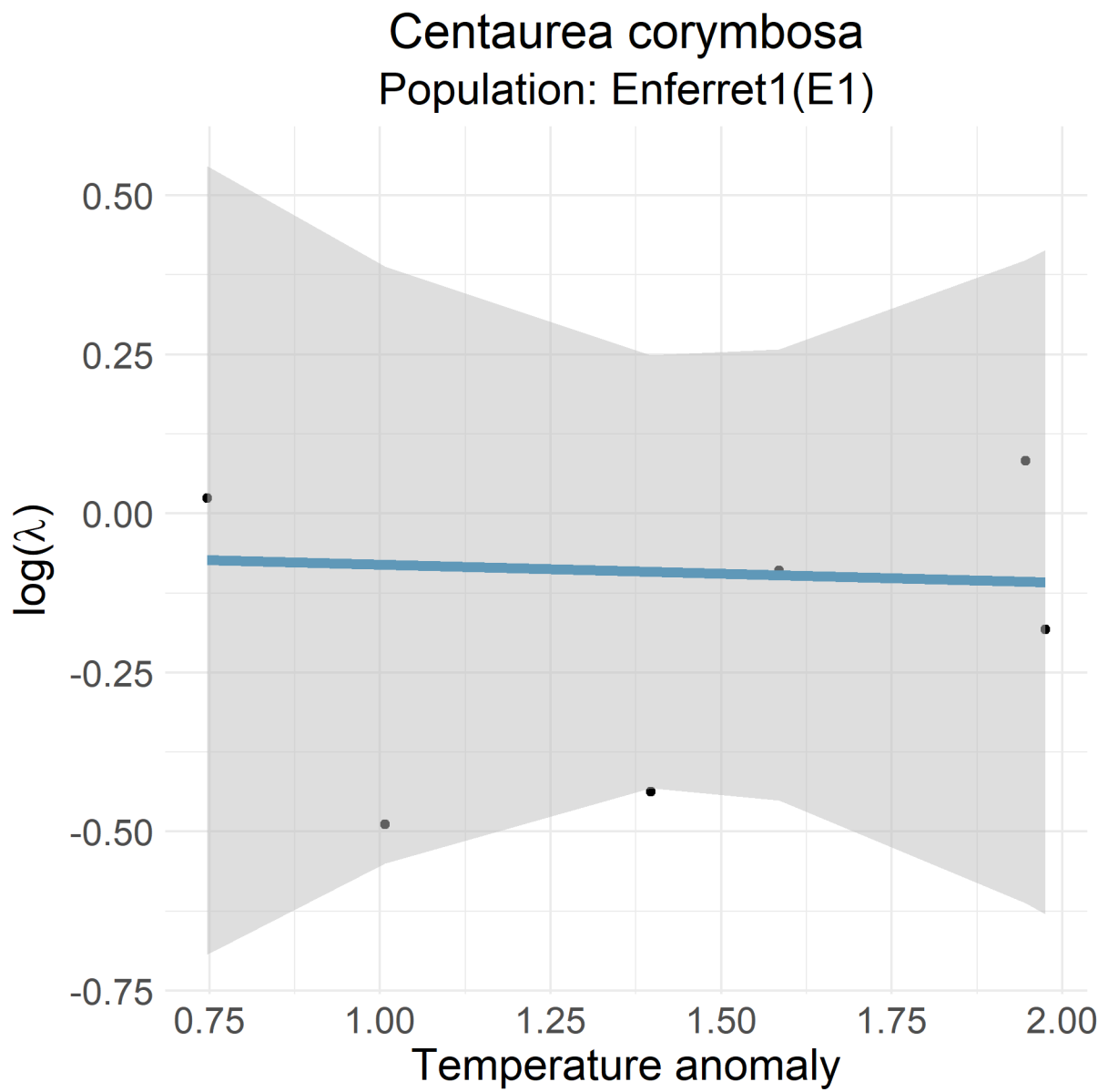


Figure 38: *Centaurea corymbosa* Enferret1(E1)

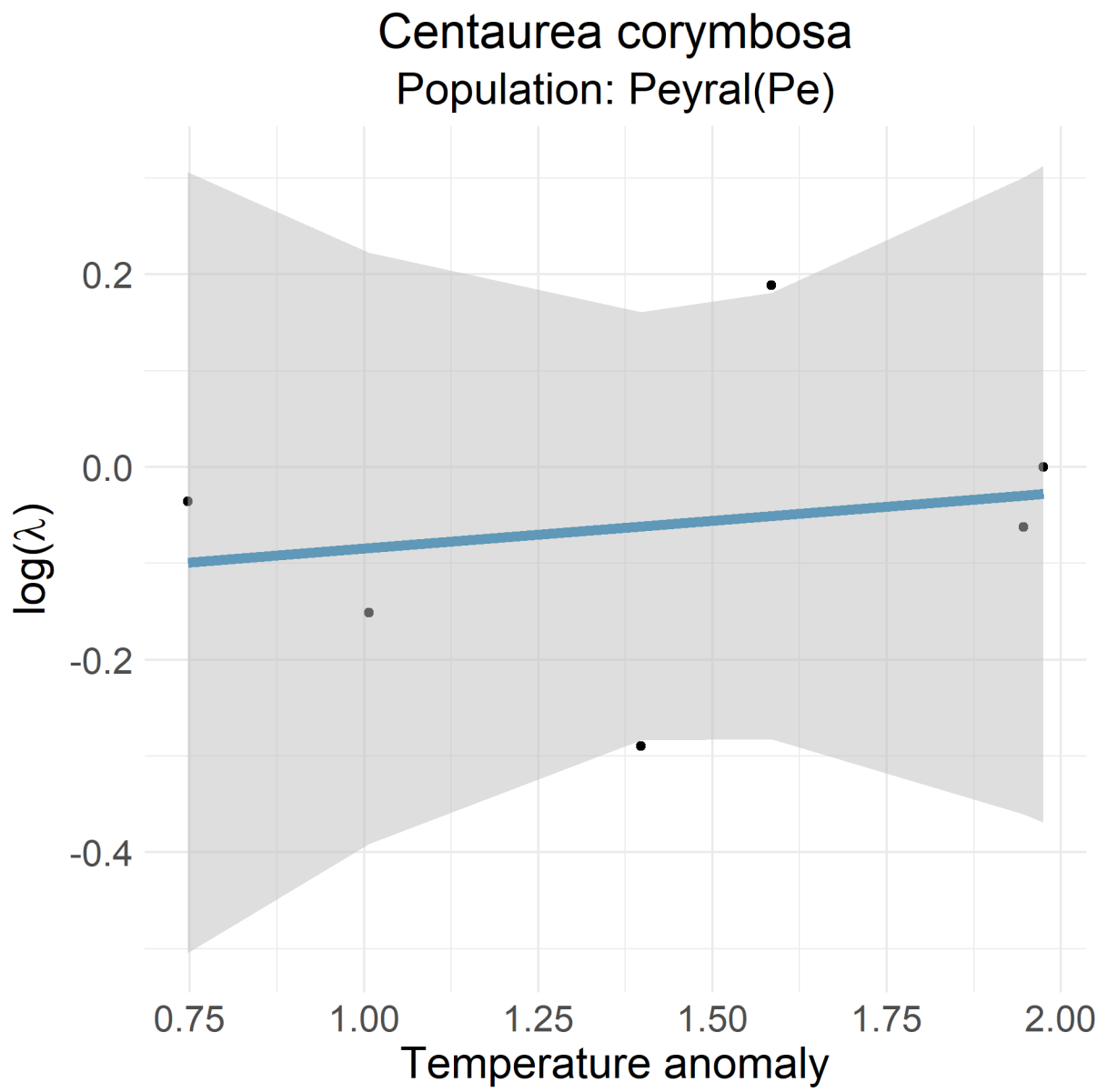


Figure 39: *Centaurea corymbosa* Peyral(Pe)

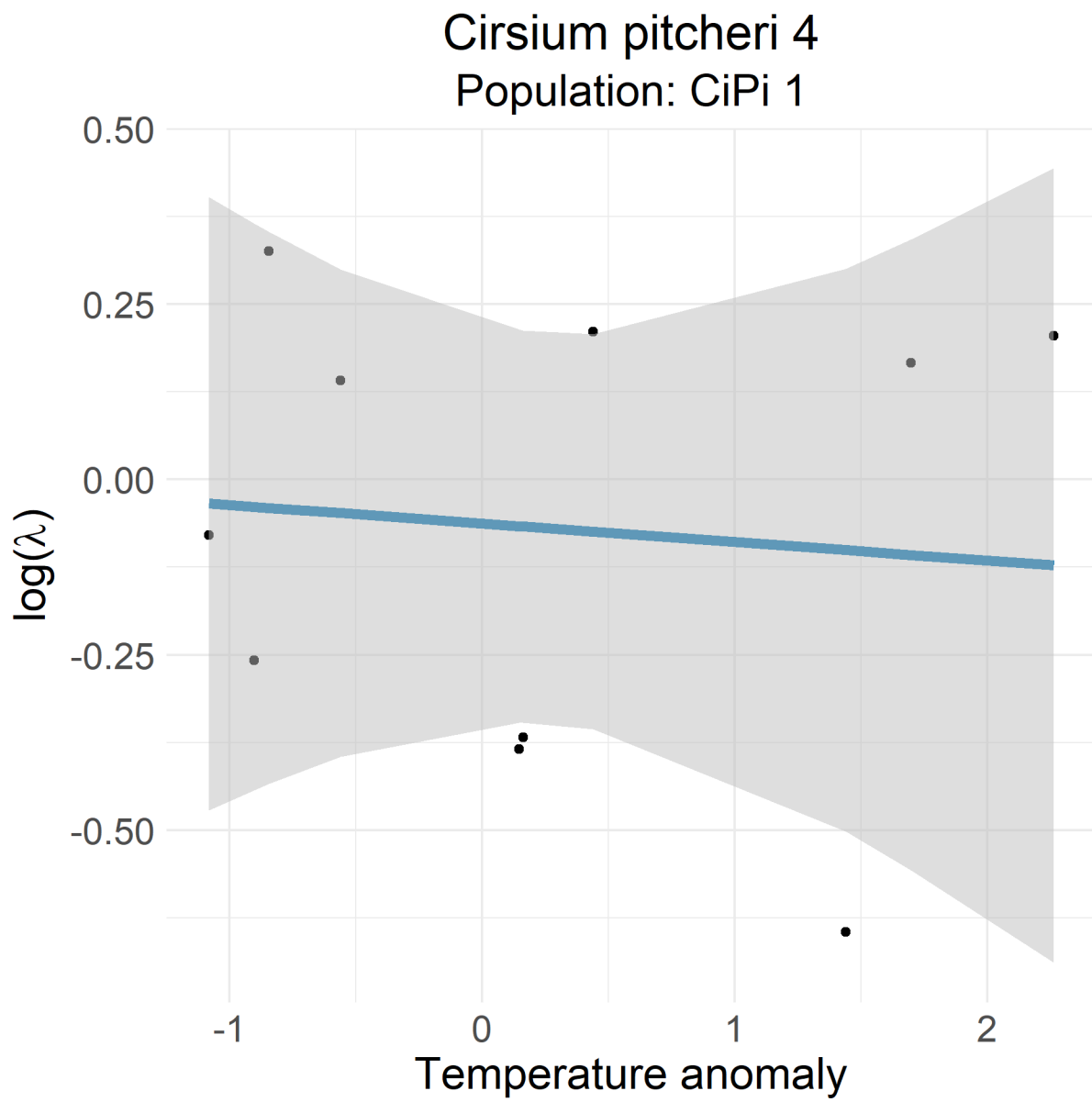


Figure 40: *Cirsium pitcheri* 4 CiPi 1

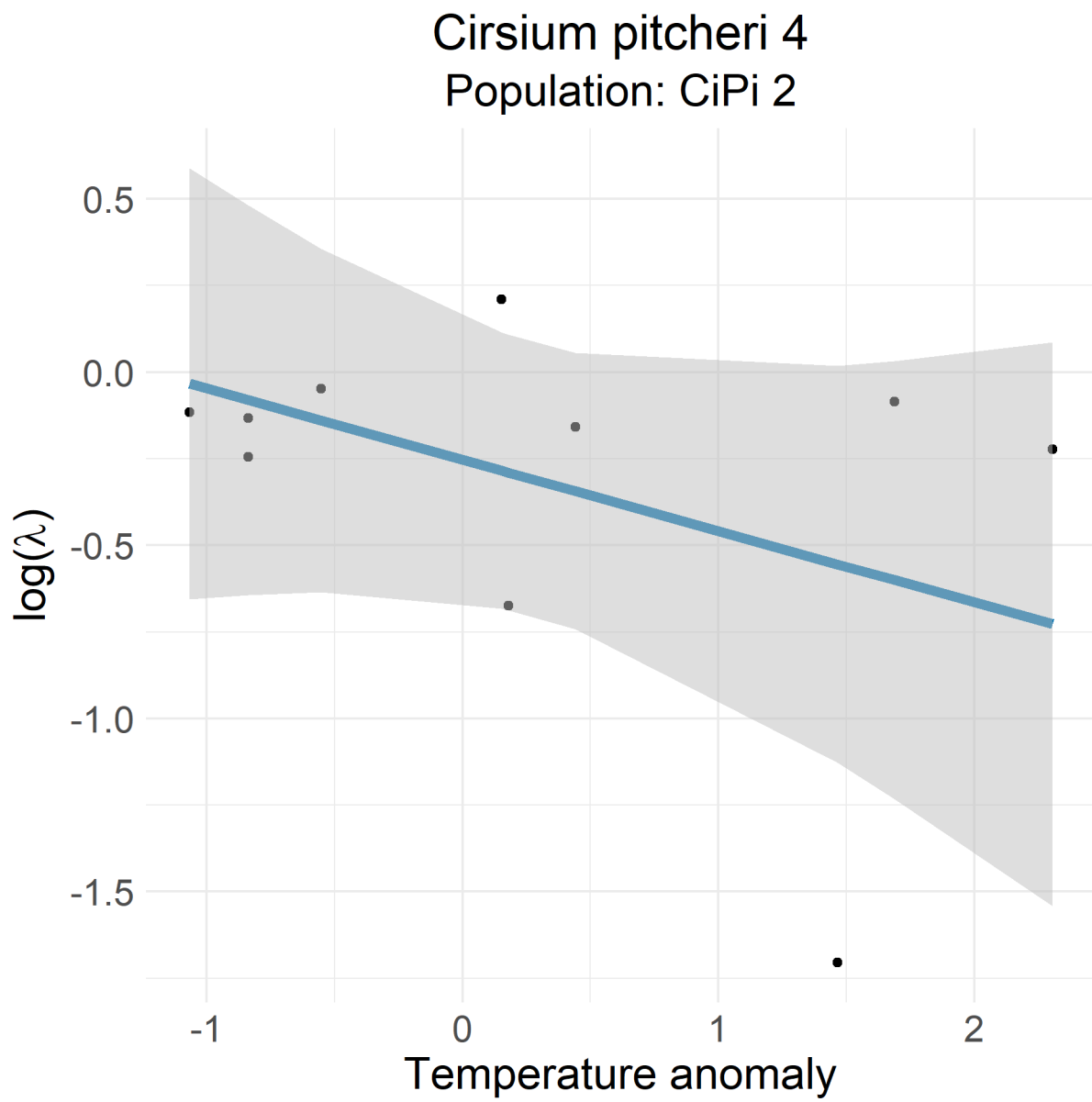


Figure 41: Cirsium pitcheri 4 CiPi 2

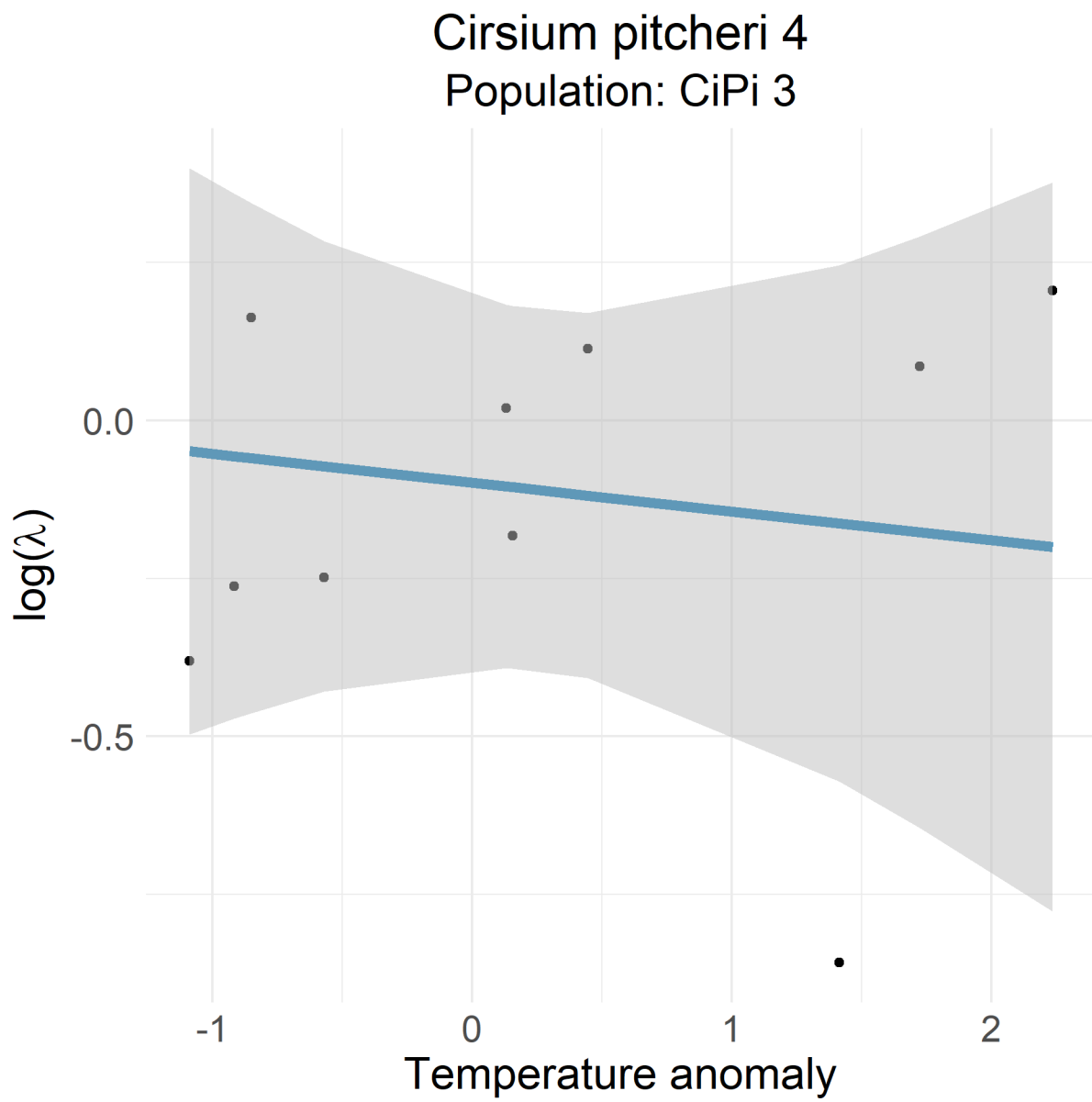


Figure 42: Cirsium pitcheri 4 CiPi 3



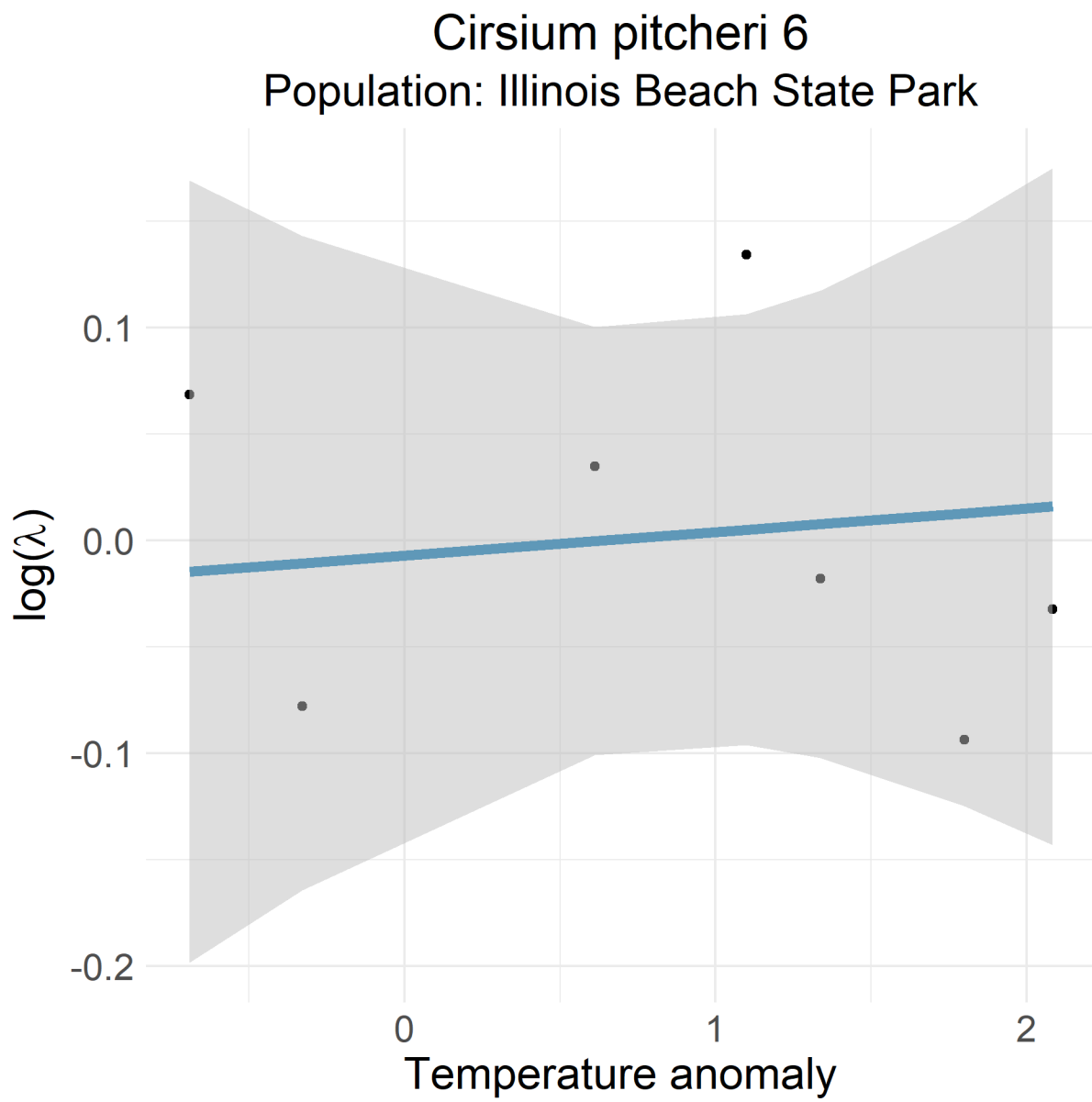


Figure 43: *Cirsium pitcheri* 6 Illinois Beach State Park

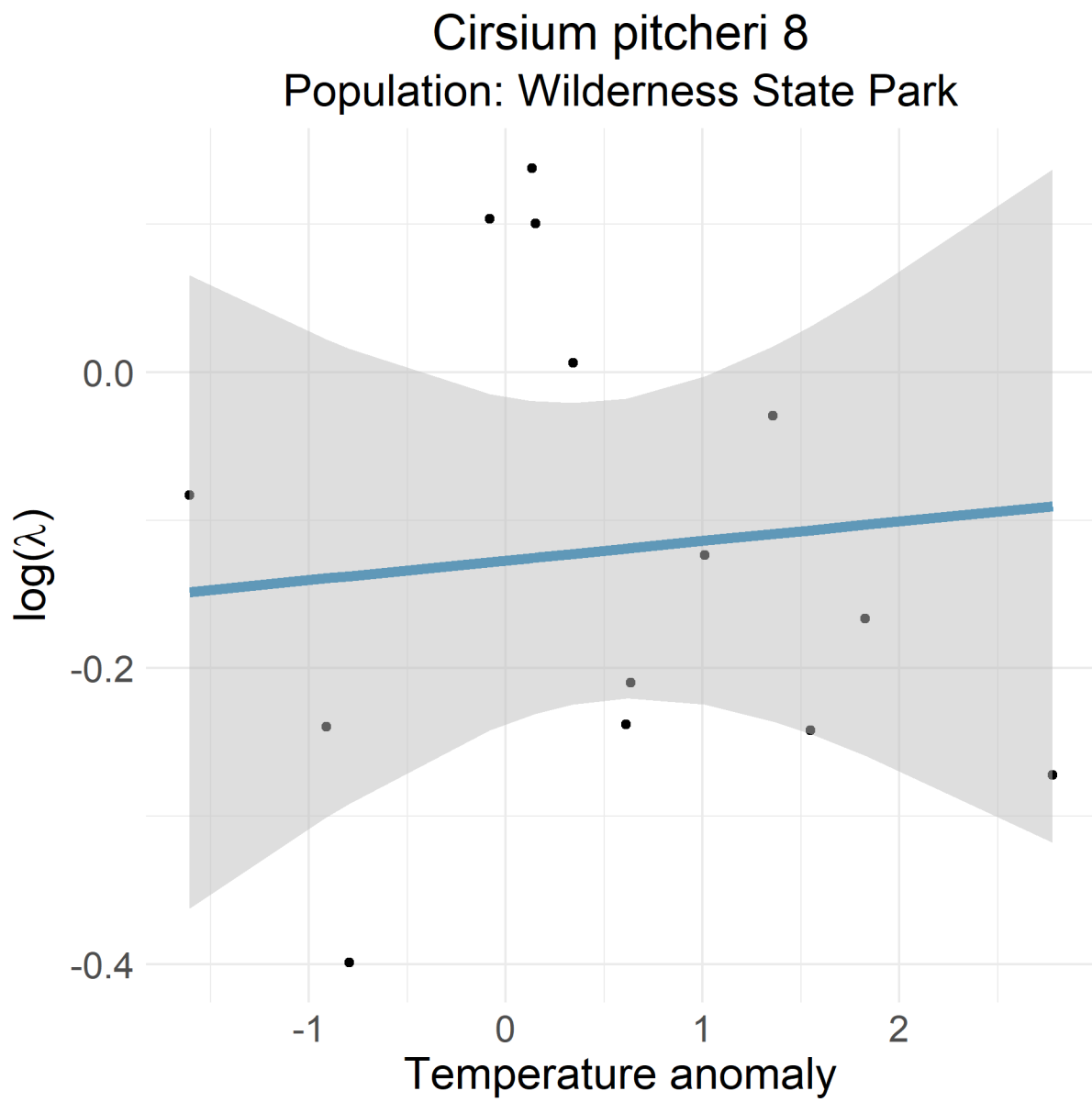


Figure 44: *Cirsium pitcheri* 8 Wilderness State Park

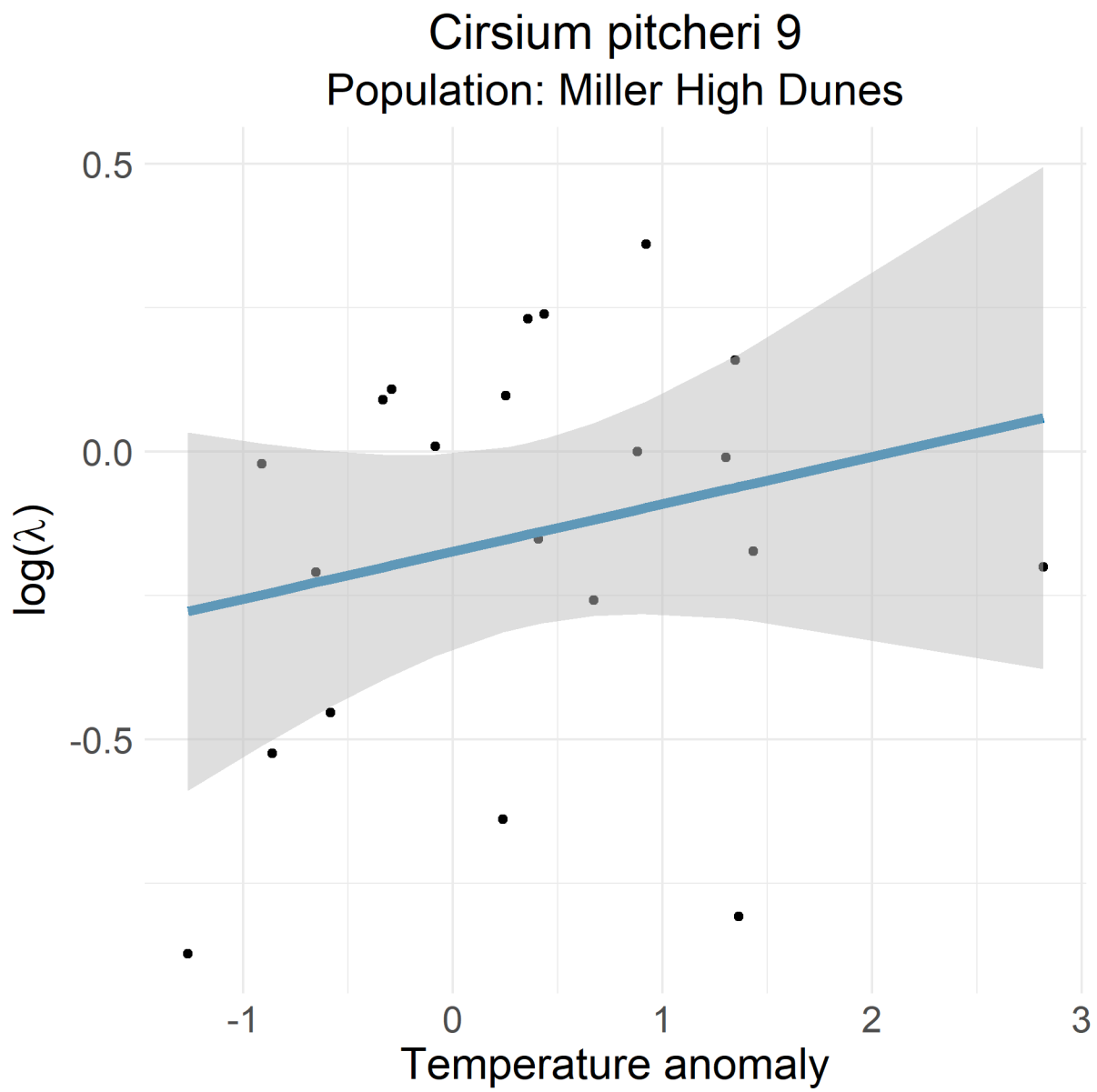


Figure 45: *Cirsium pitcheri* 9 Miller High Dunes

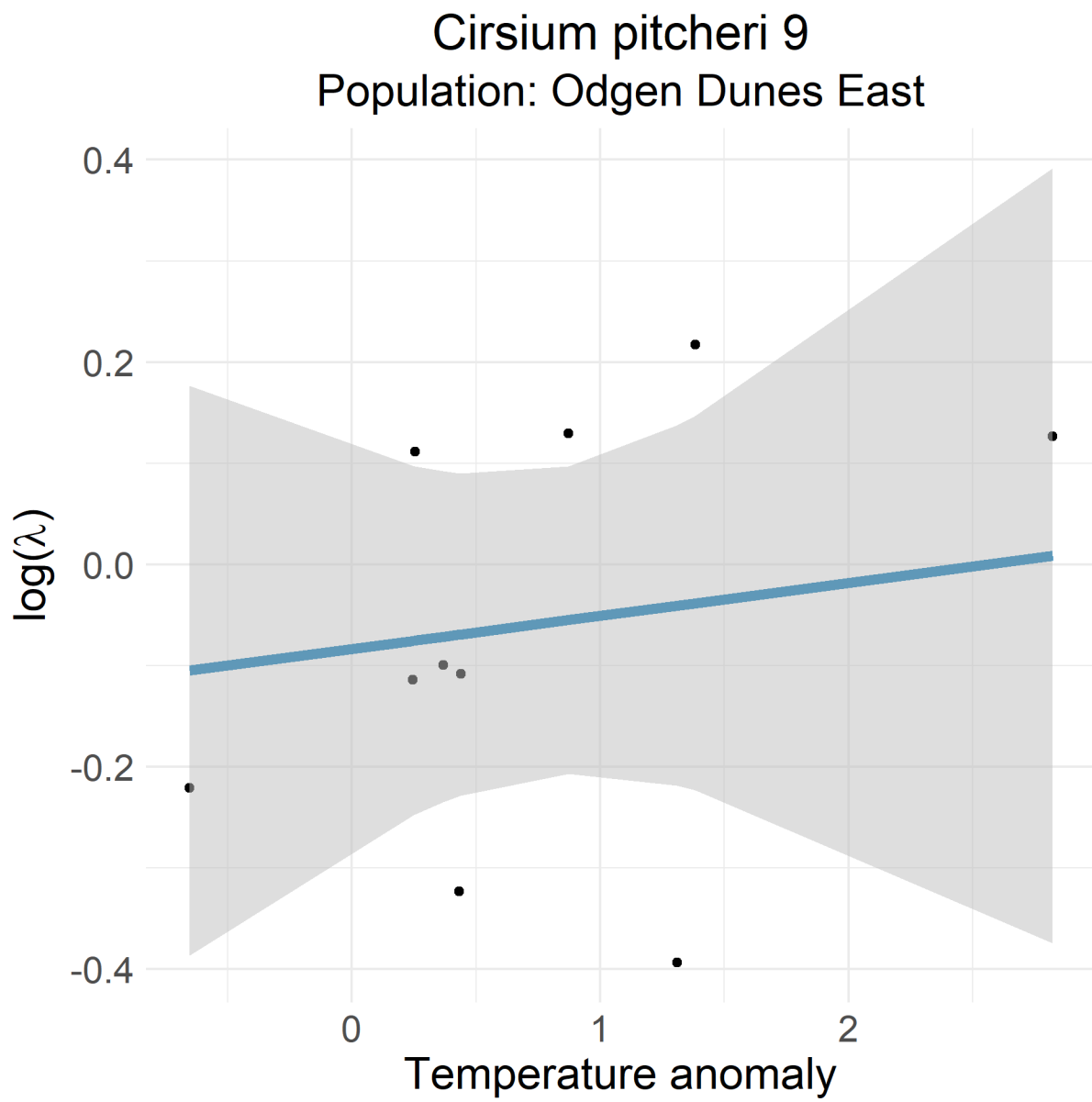


Figure 46: *Cirsium pitcheri* 9 Odgen Dunes East

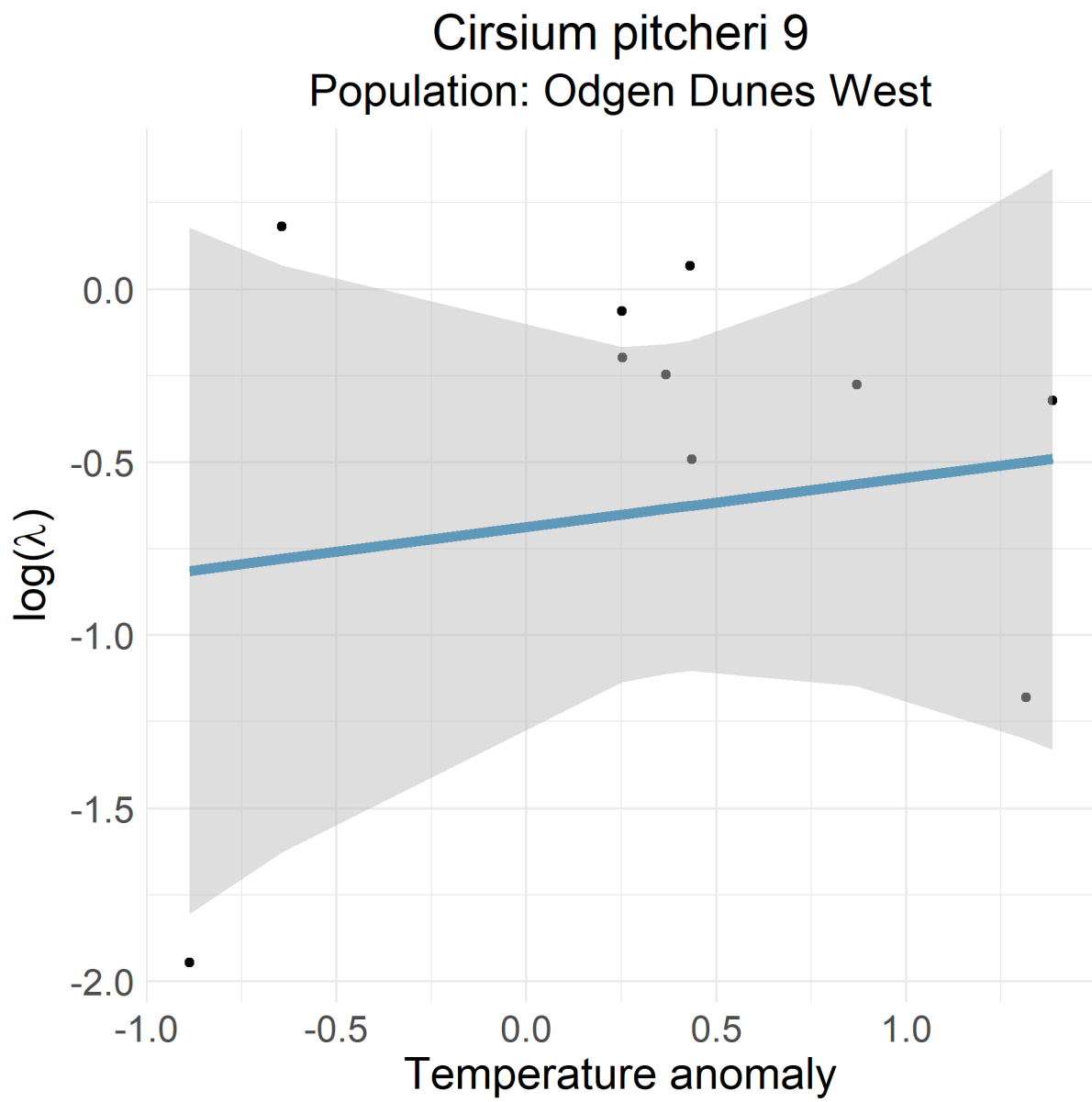


Figure 47: *Cirsium pitcheri* 9 Odgen Dunes West

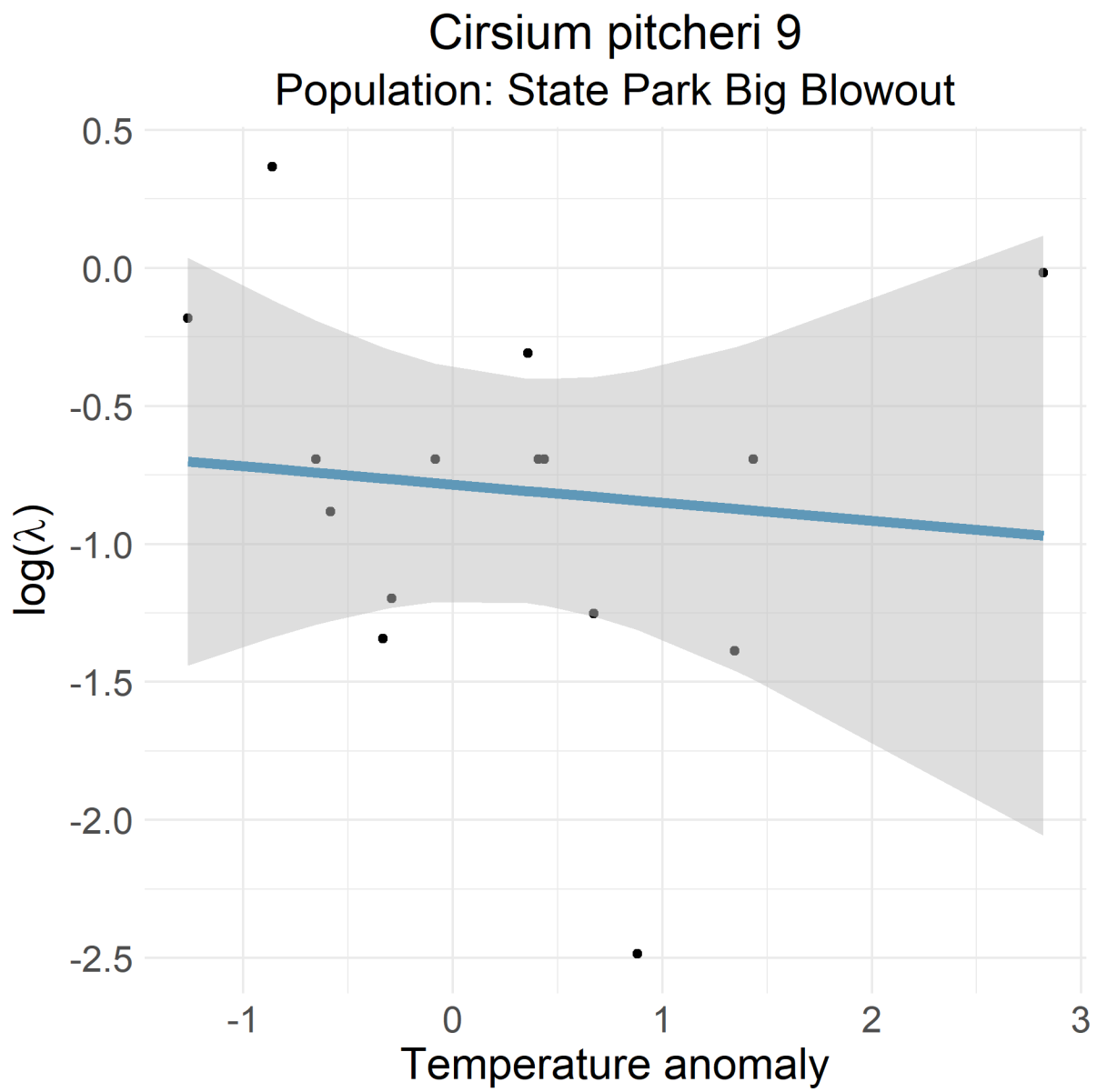


Figure 48: *Cirsium pitcheri* 9 State Park Big Blowout

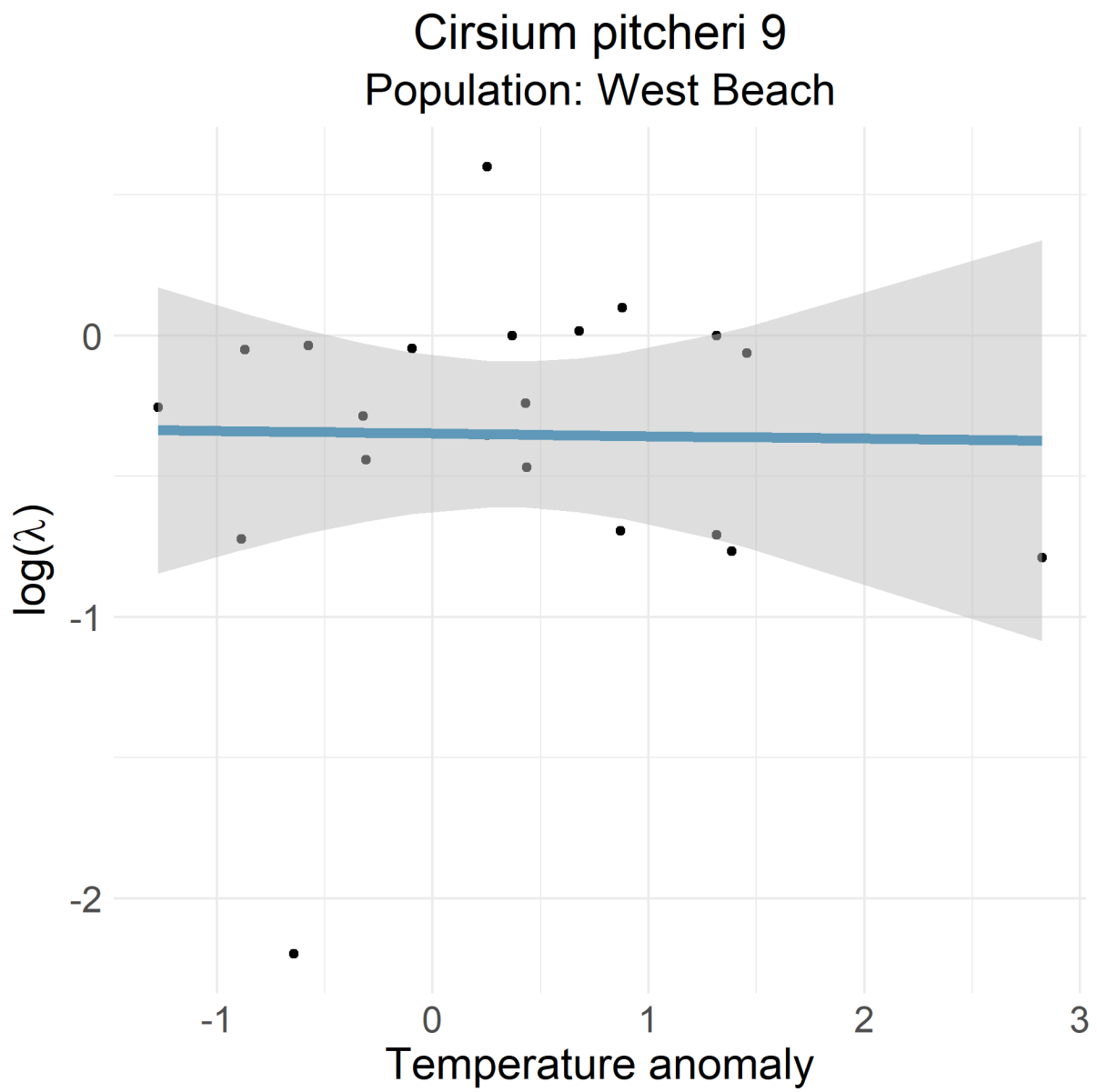


Figure 49: *Cirsium pitcheri* 9 West Beach

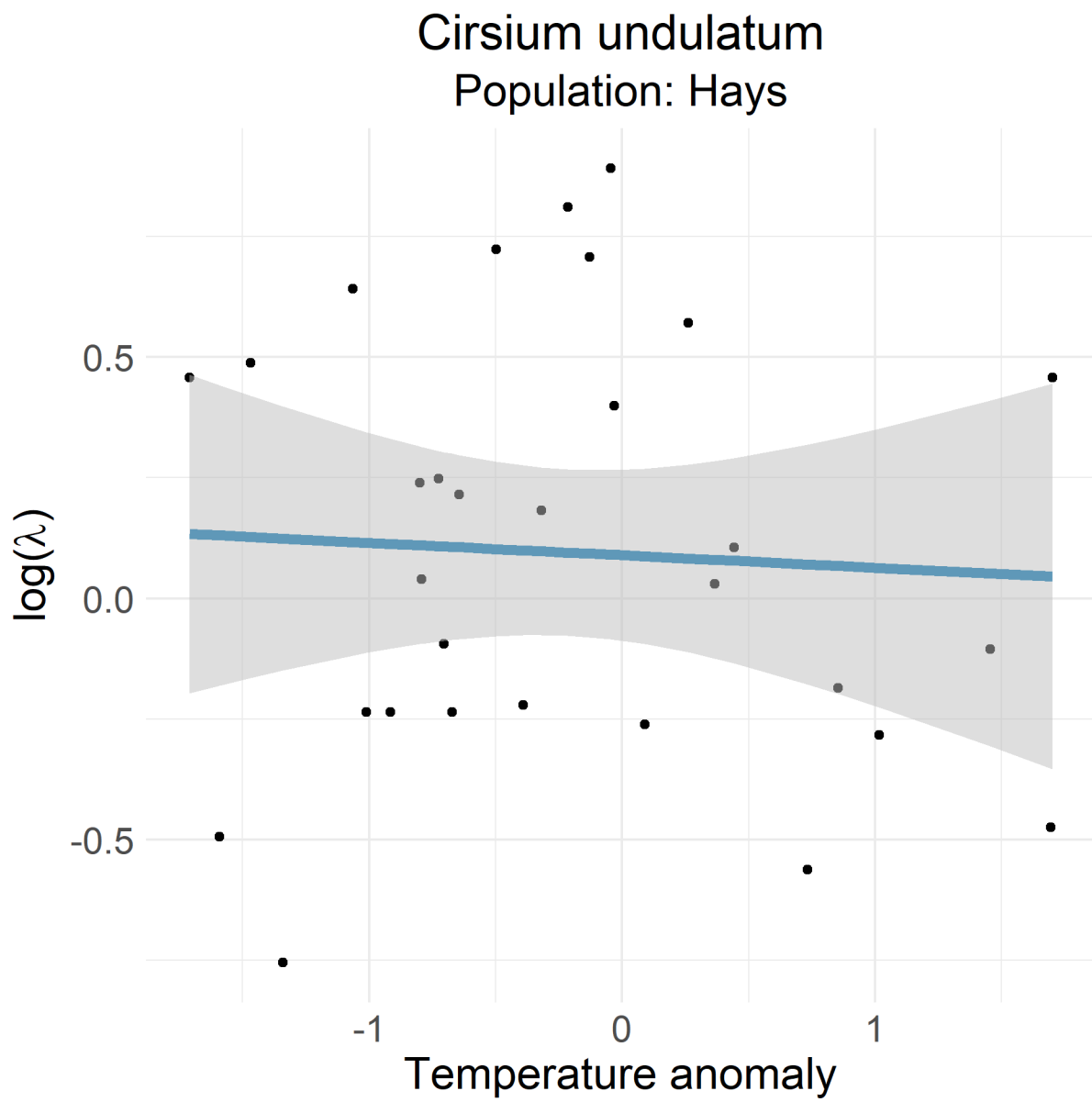


Figure 50: *Cirsium undulatum* Hays



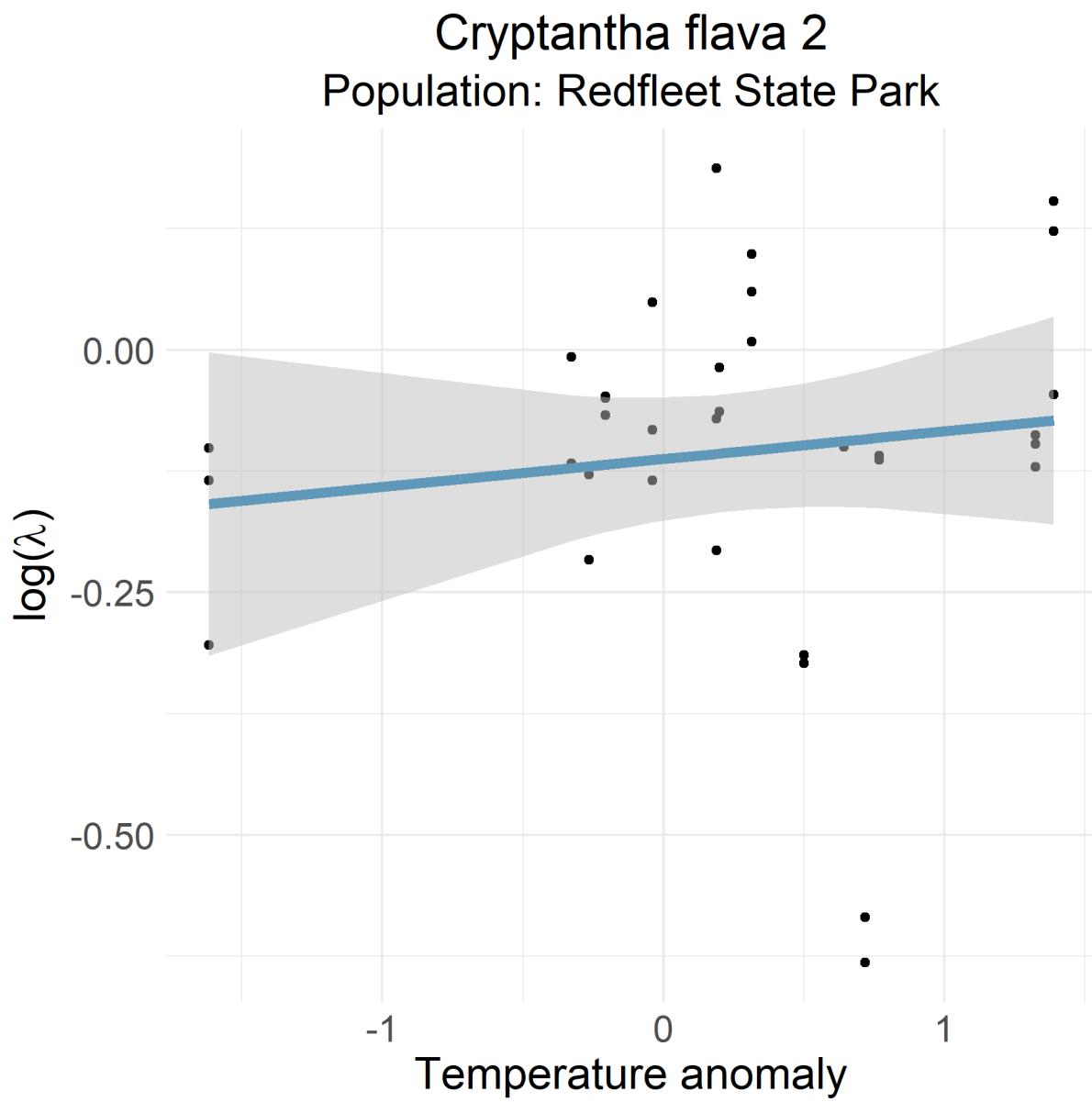


Figure 51: *Cryptantha flava* 2 Redfleet State Park

Cypripedium calceolus  
Population: Oparzelisko

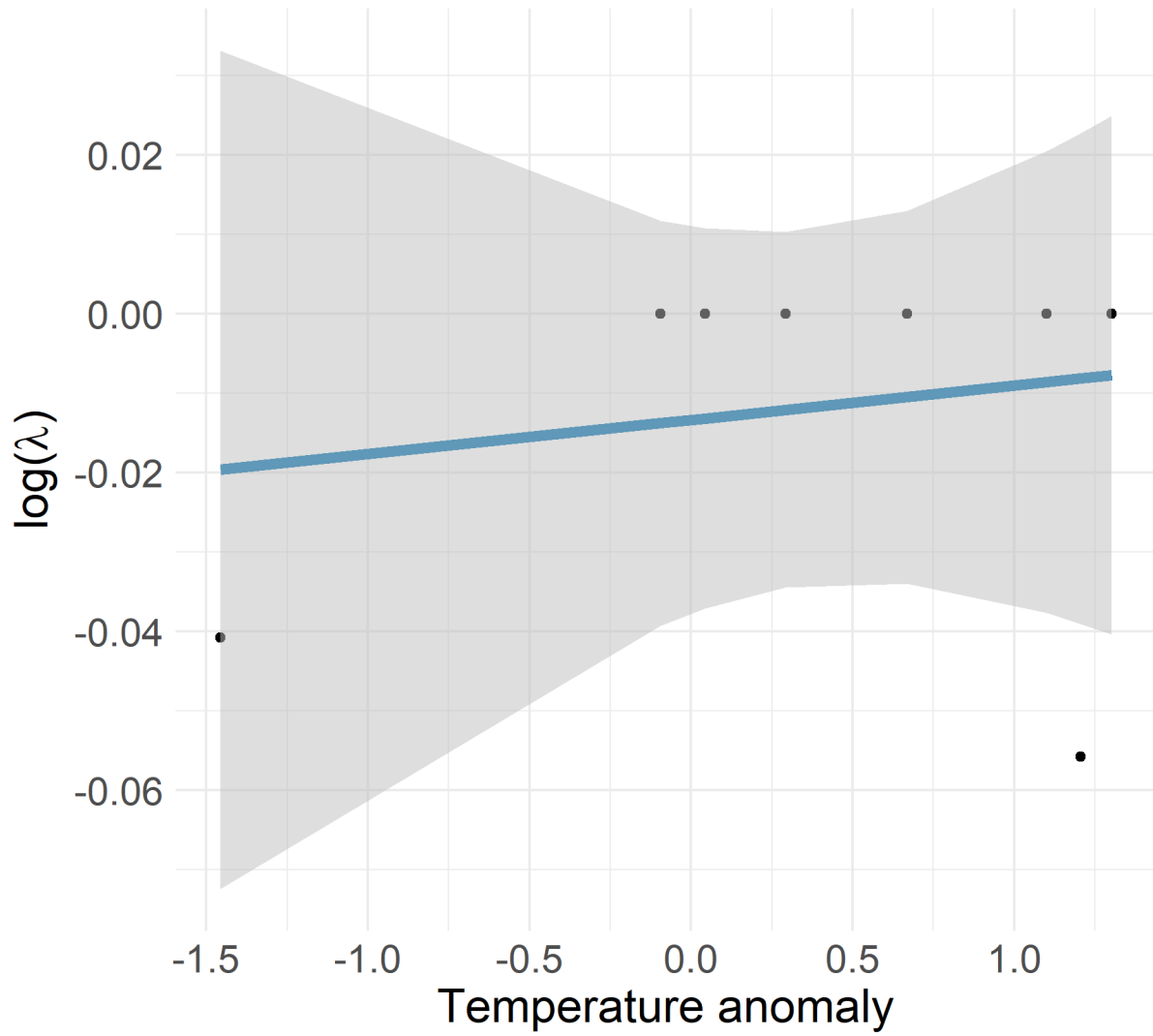


Figure 52: Cypripedium calceolus Oparzelisko

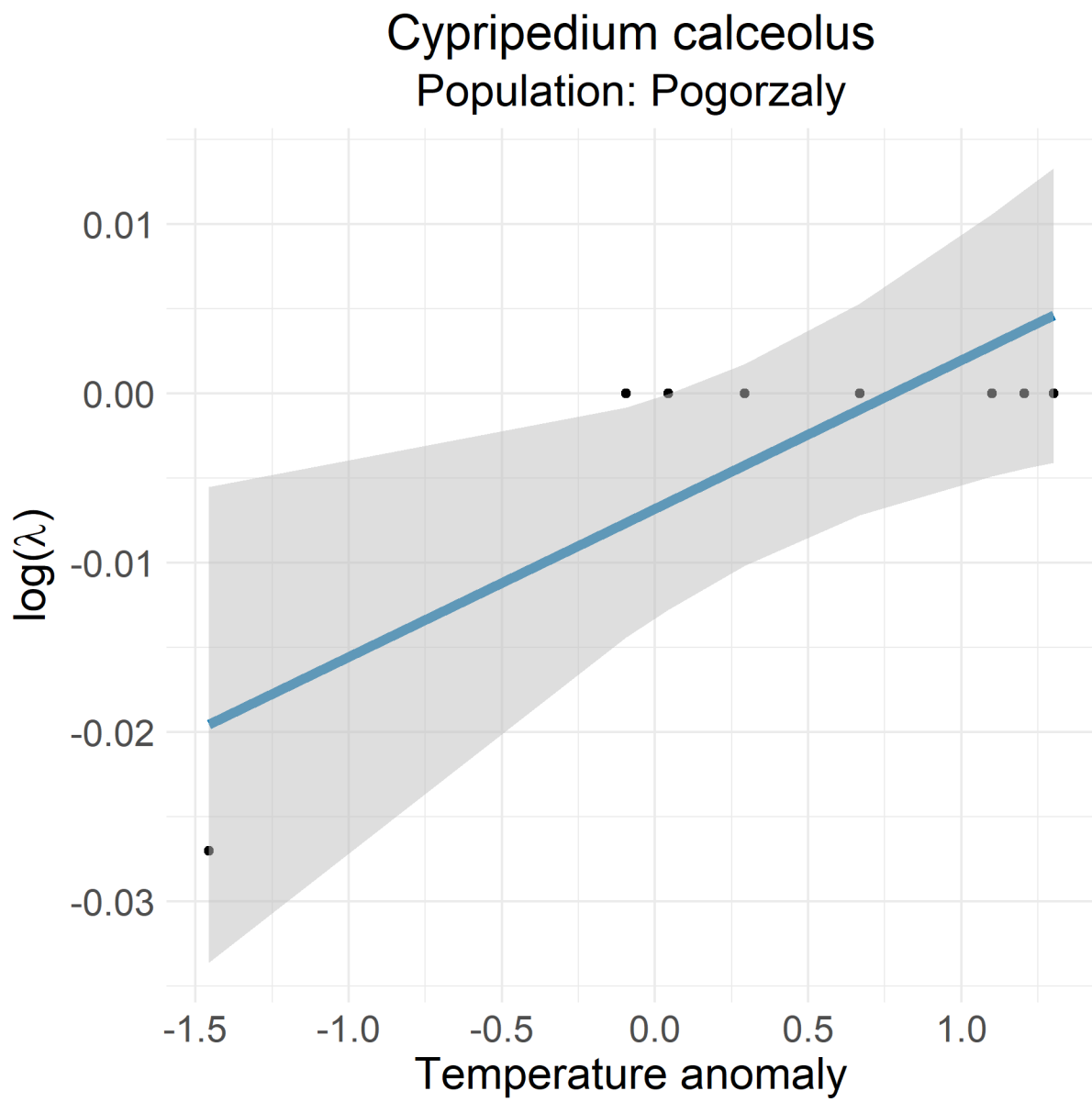


Figure 53: *Cypripedium calceolus* Pogorzaly

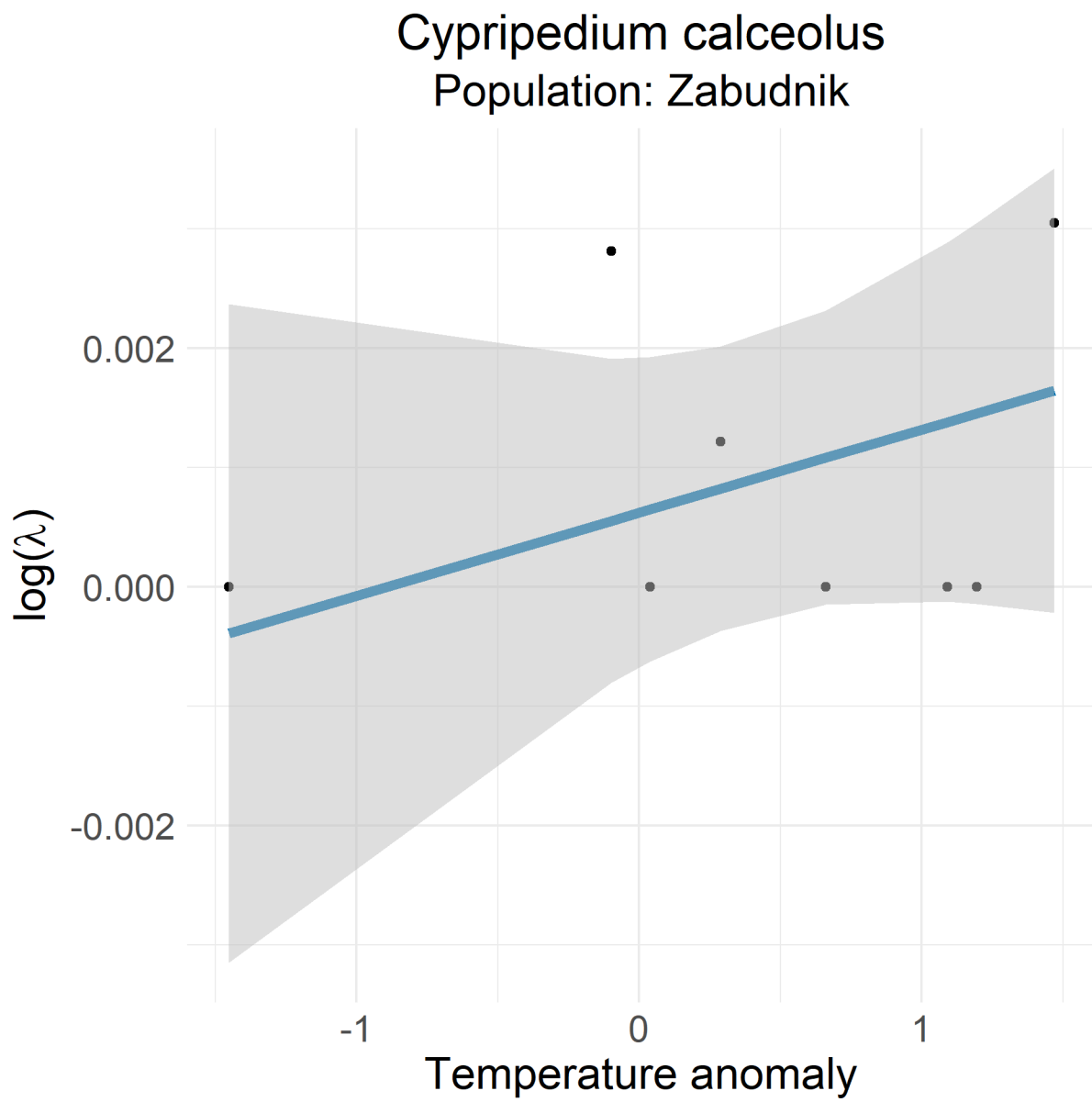


Figure 54: *Cypripedium calceolus* Zabudnik

Cypripedium fasciculatum  
Population: Region 3

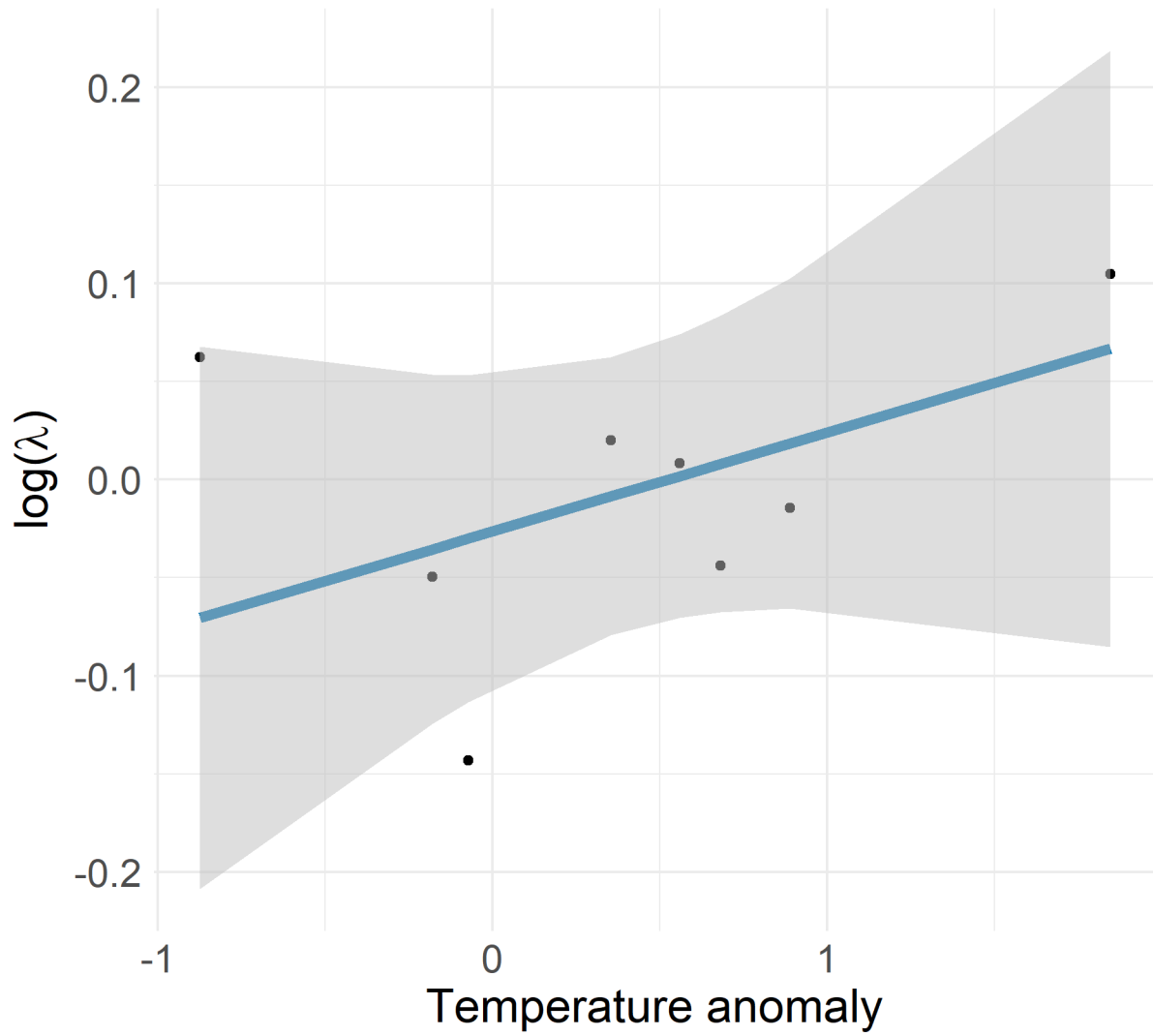


Figure 55: Cypripedium fasciculatum Region 3

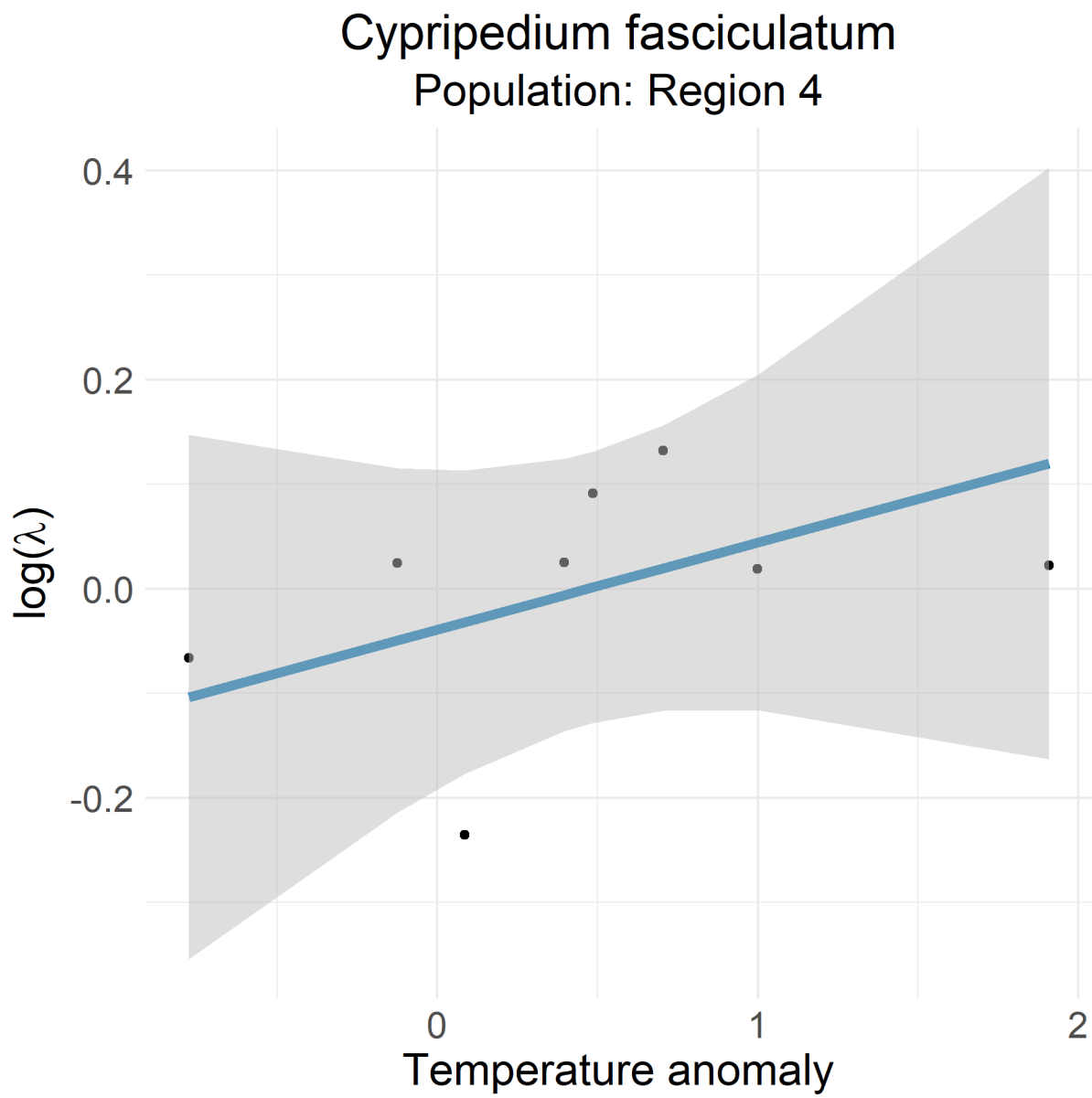


Figure 56: *Cypripedium fasciculatum* Region 4

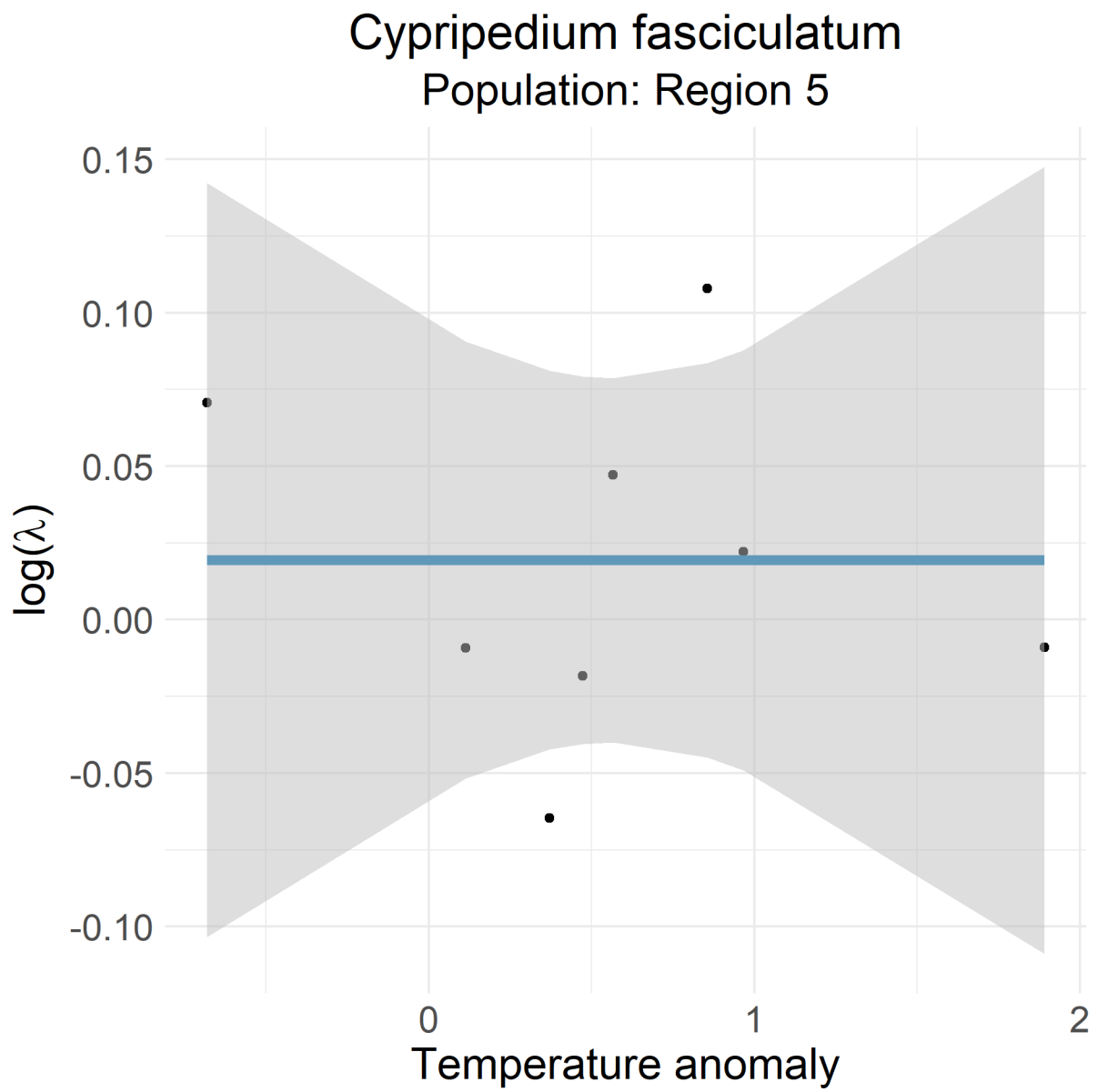


Figure 57: *Cypripedium fasciculatum* Region 5

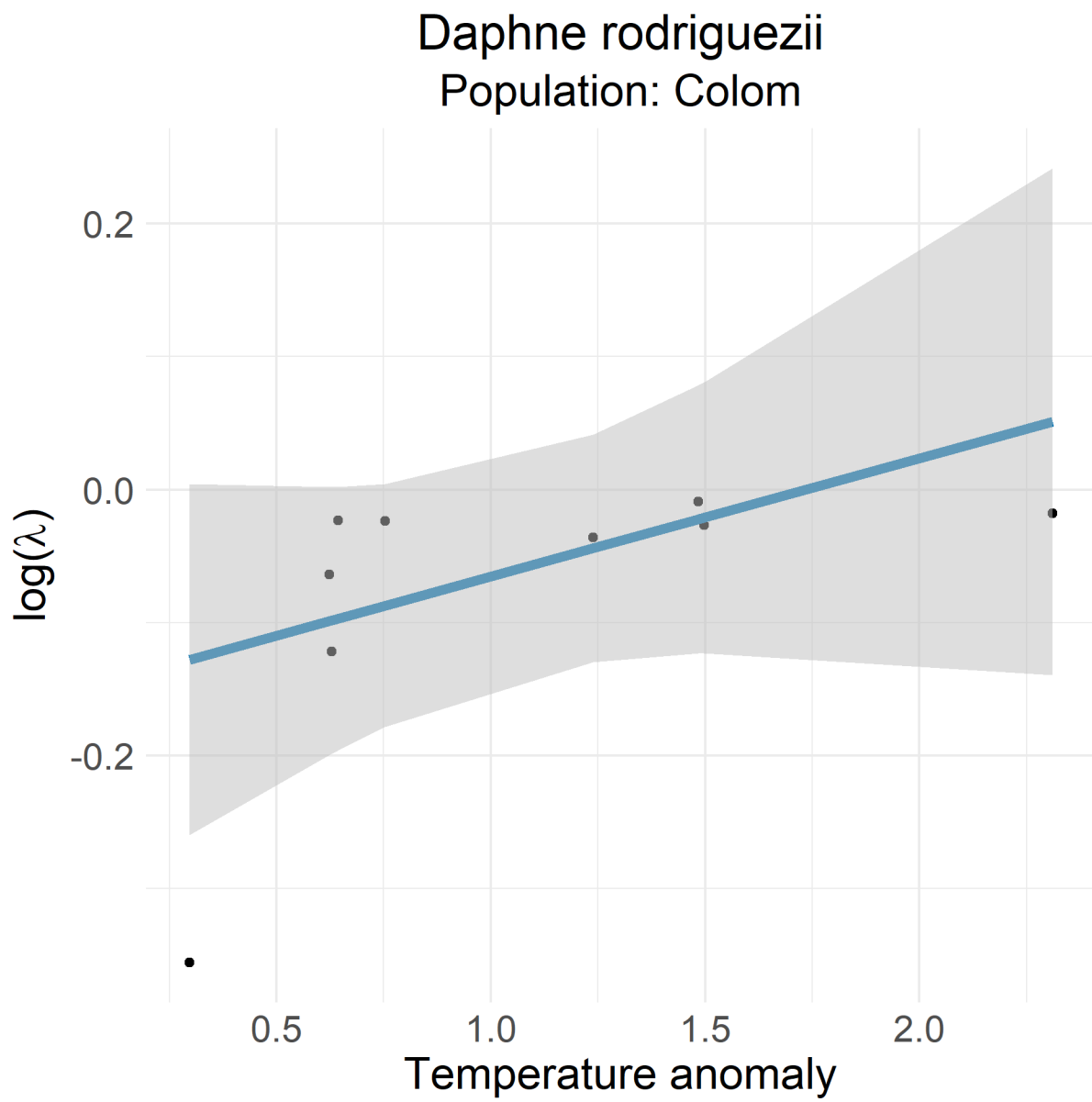


Figure 58: *Daphne rodriguezii* Colom



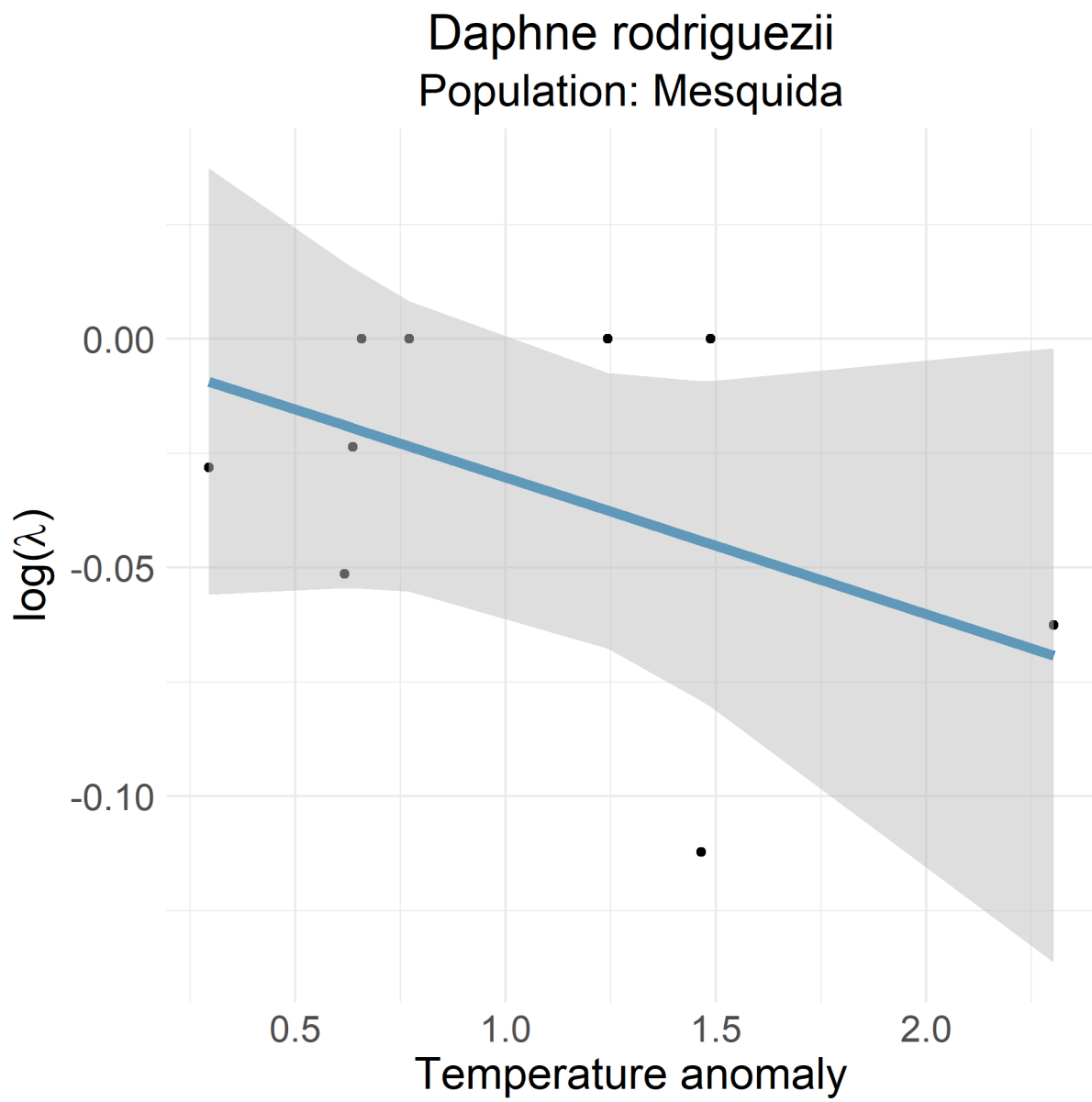


Figure 59: *Daphne rodriguezii* Mesquida

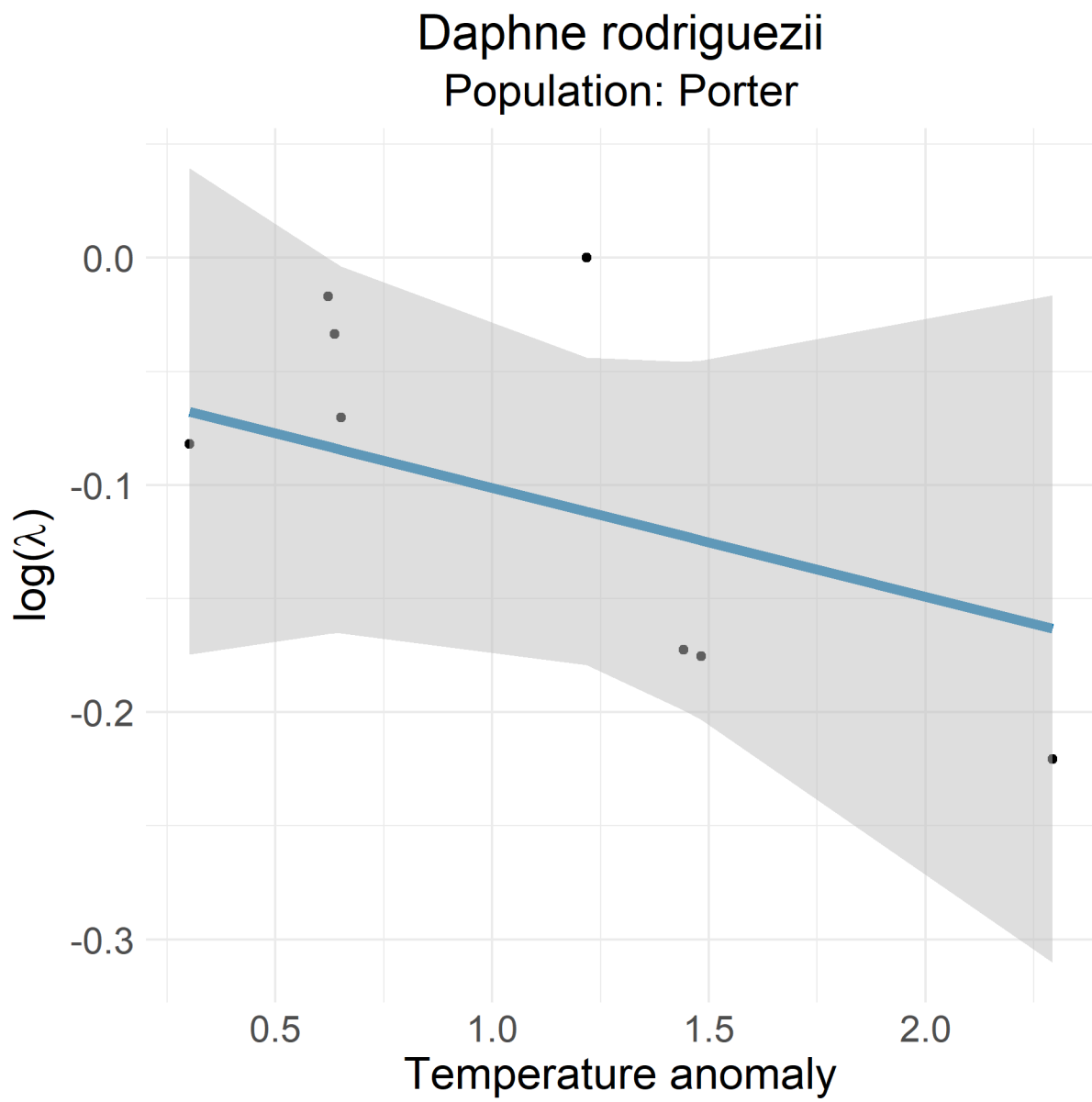


Figure 60: *Daphne rodriguezii* Porter

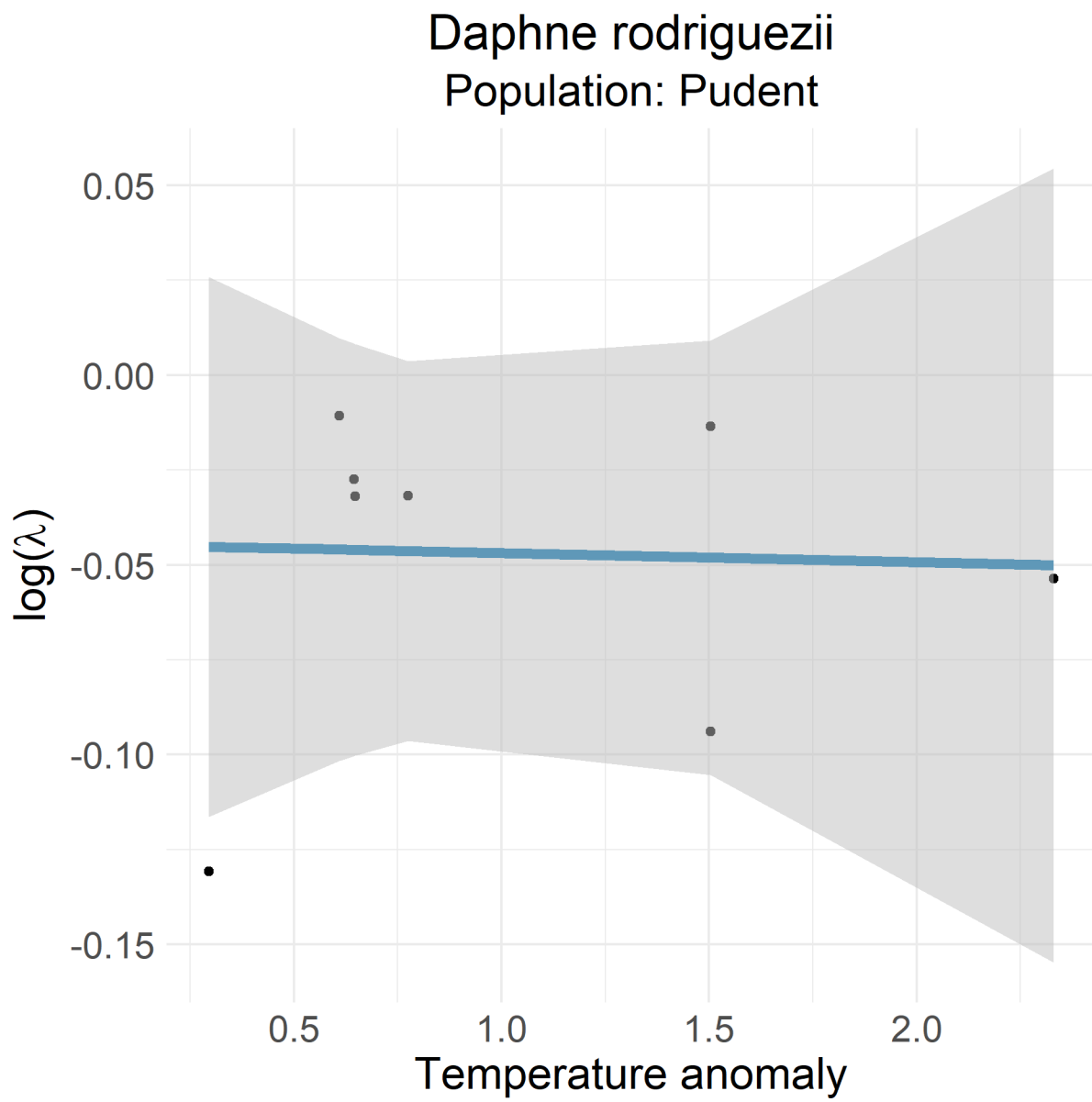


Figure 61: *Daphne rodriguezii* Pudent

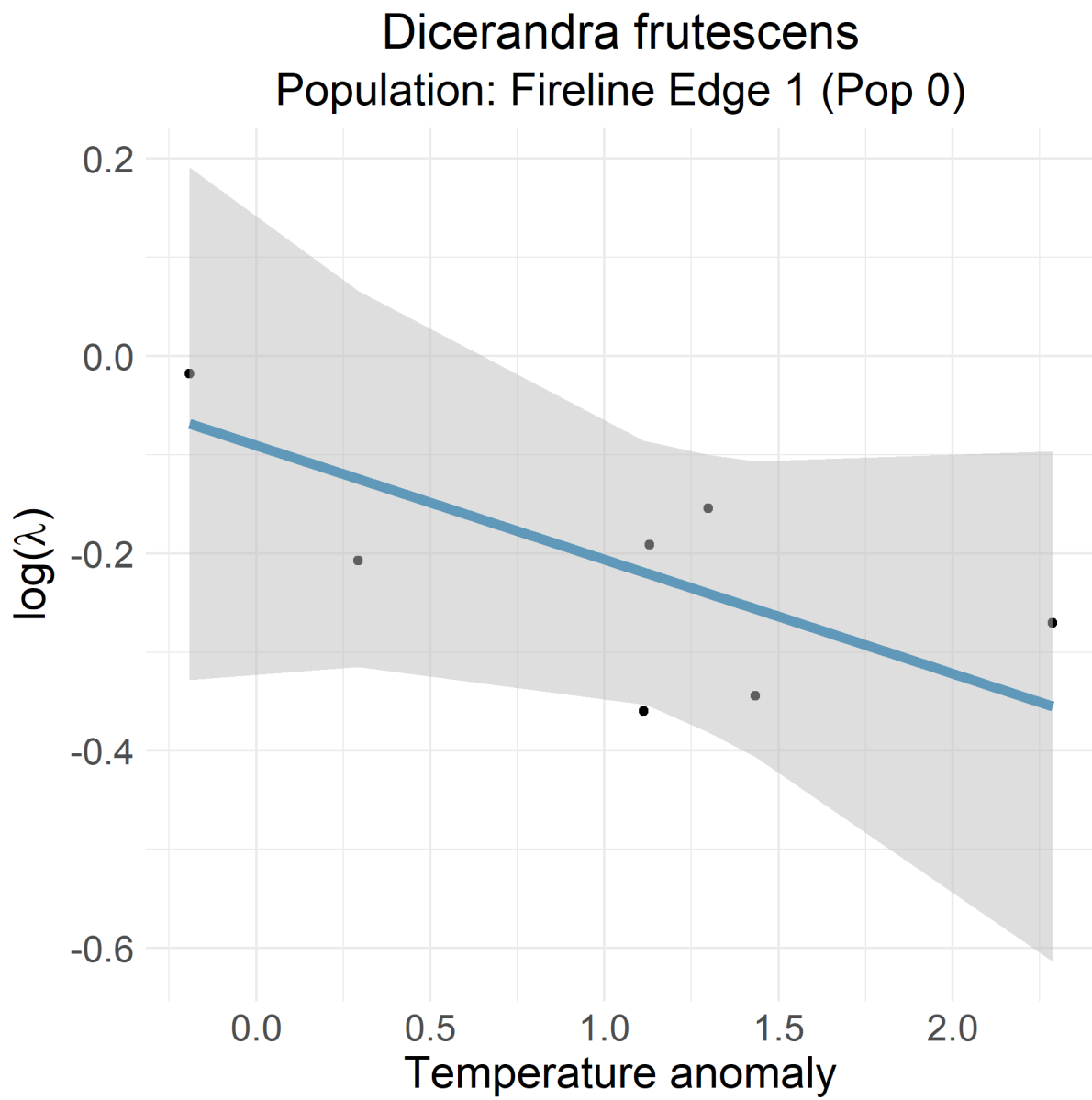


Figure 62: *Dicerandra frutescens* Fireline Edge 1 (Pop 0)

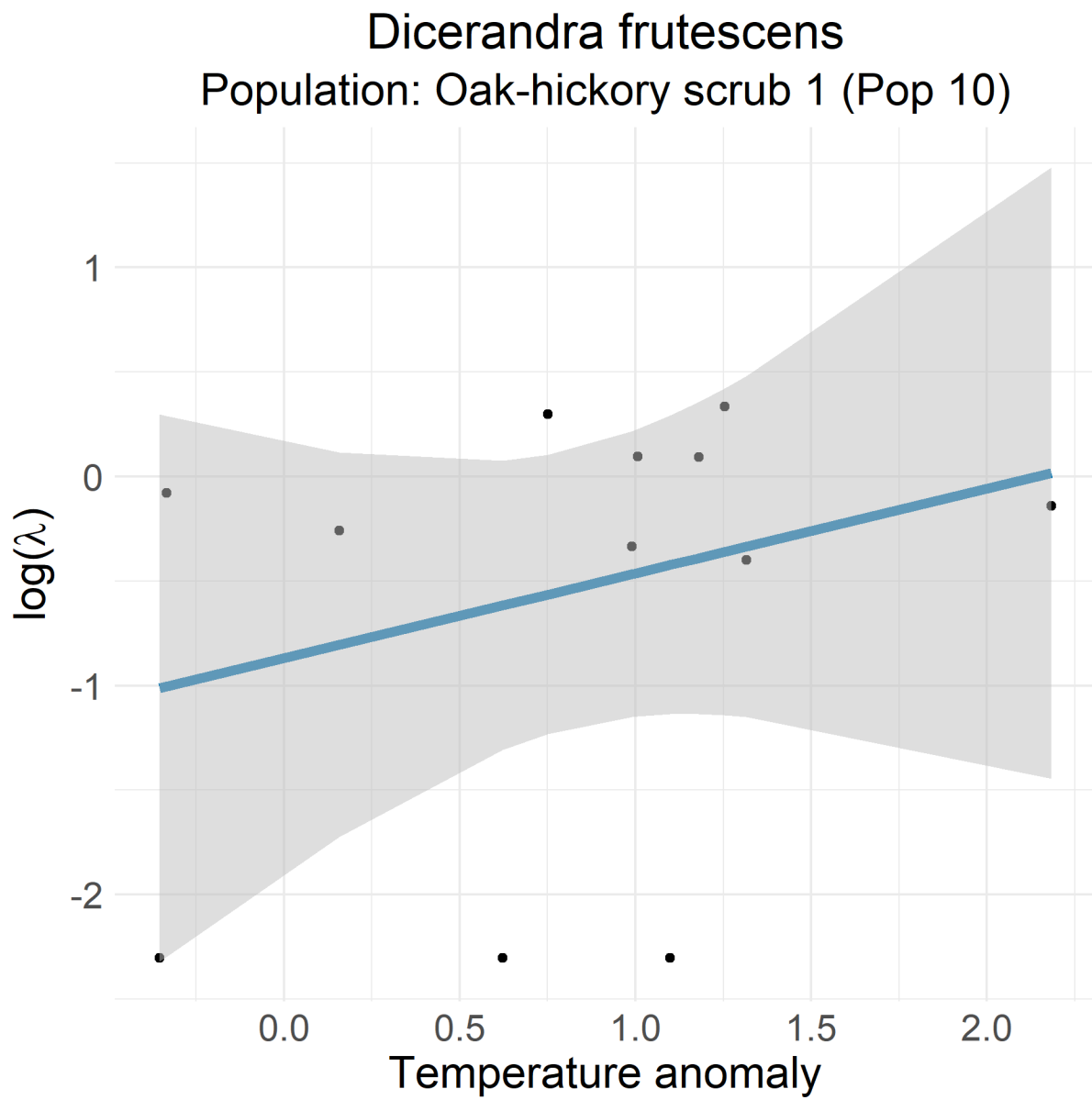


Figure 63: *Dicerandra frutescens* Oak-hickory scrub 1 (Pop 10)

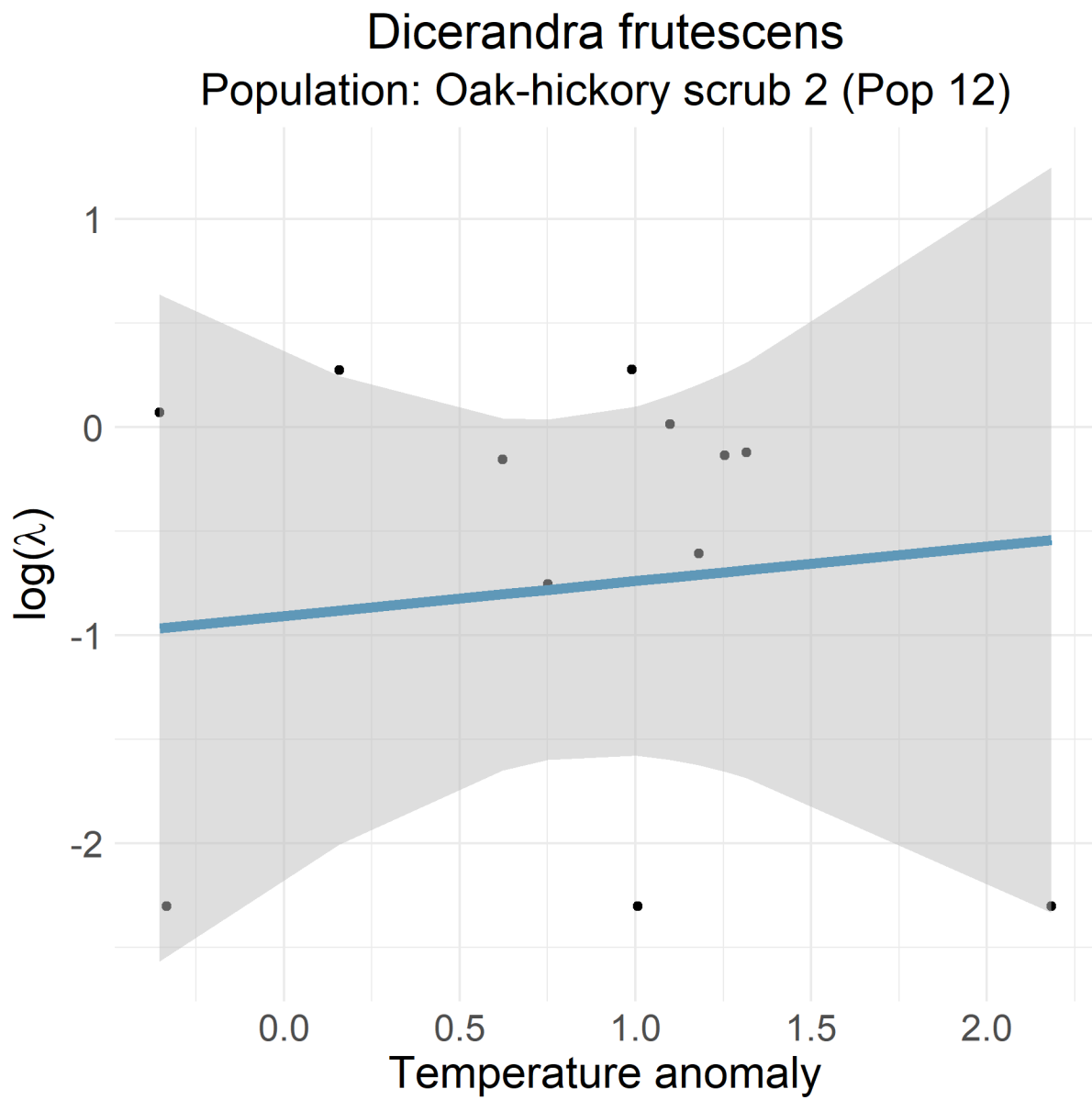


Figure 64: *Dicerandra frutescens* Oak-hickory scrub 2 (Pop 12)

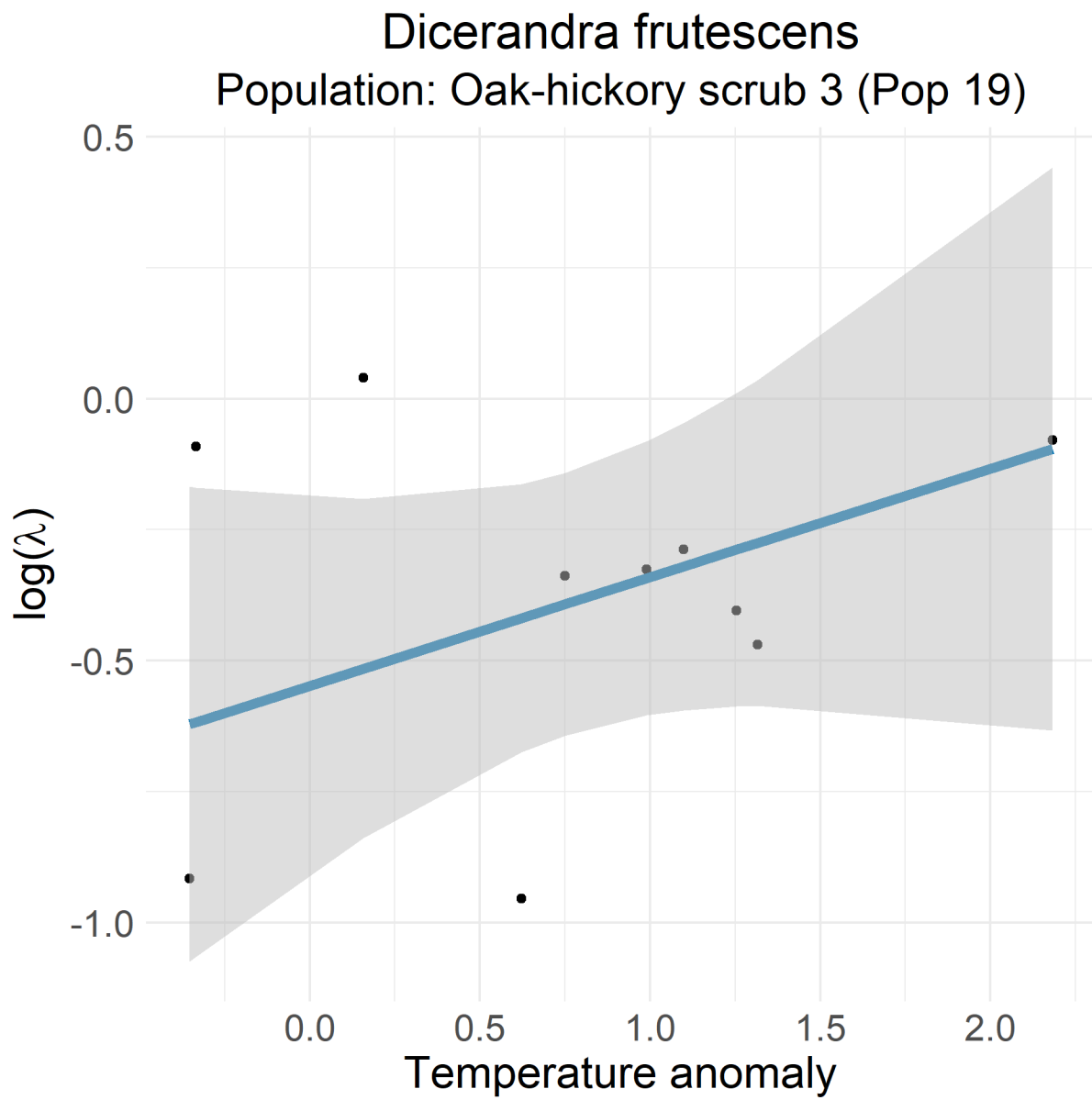


Figure 65: *Dicerandra frutescens* Oak-hickory scrub 3 (Pop 19)

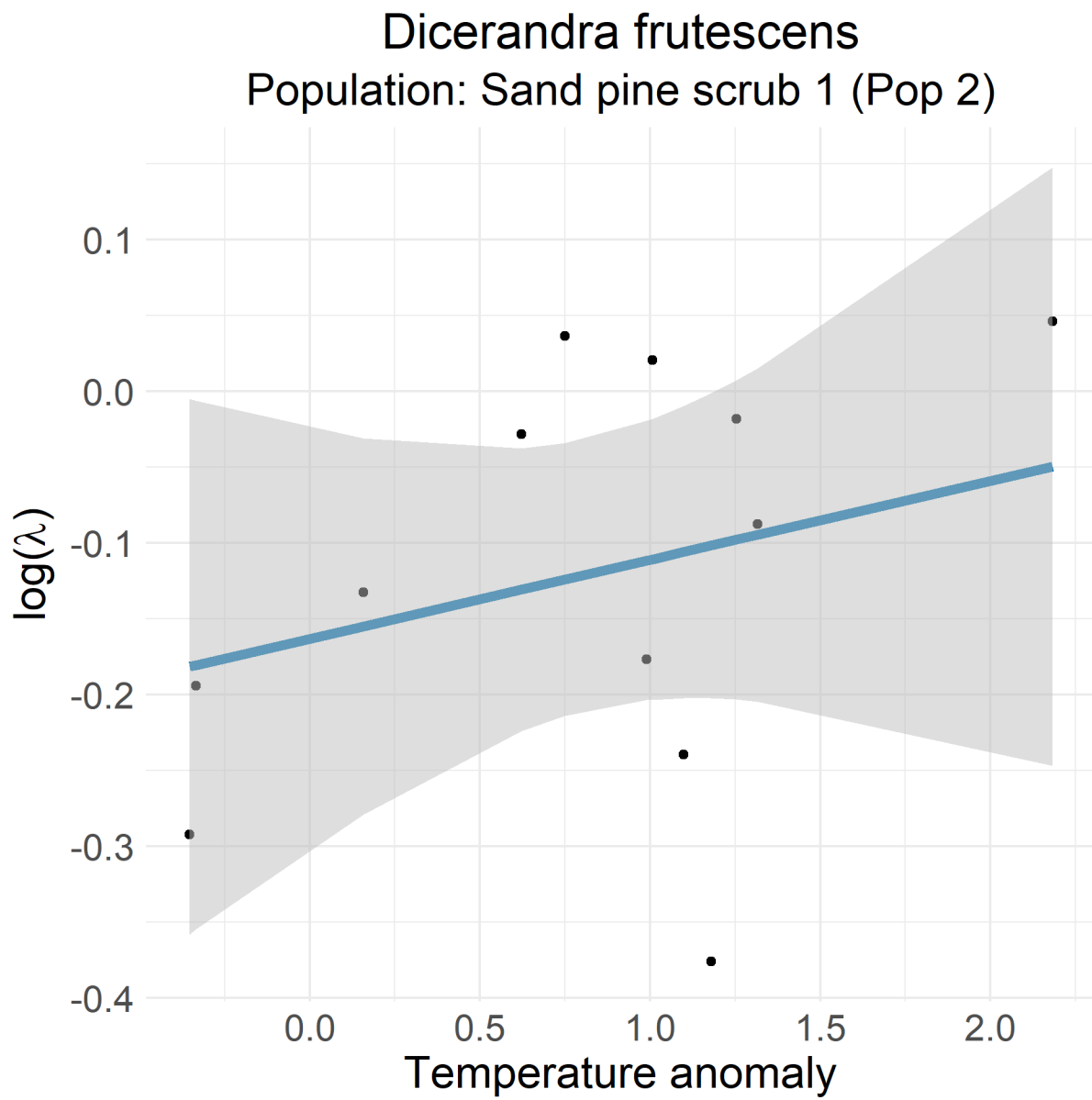


Figure 66: *Dicerandra frutescens* Sand pine scrub 1 (Pop 2)



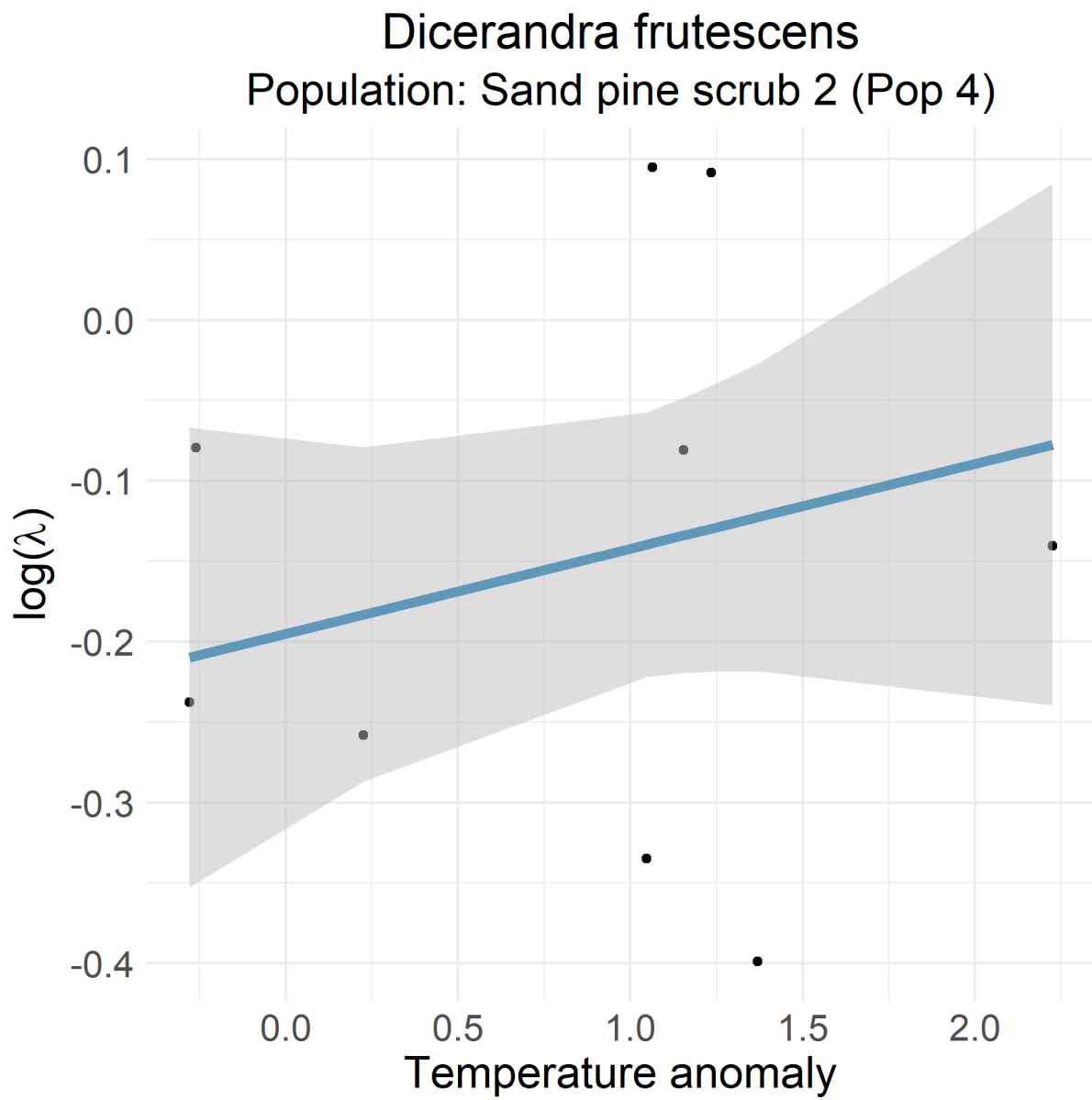


Figure 67: *Dicerandra frutescens* Sand pine scrub 2 (Pop 4)

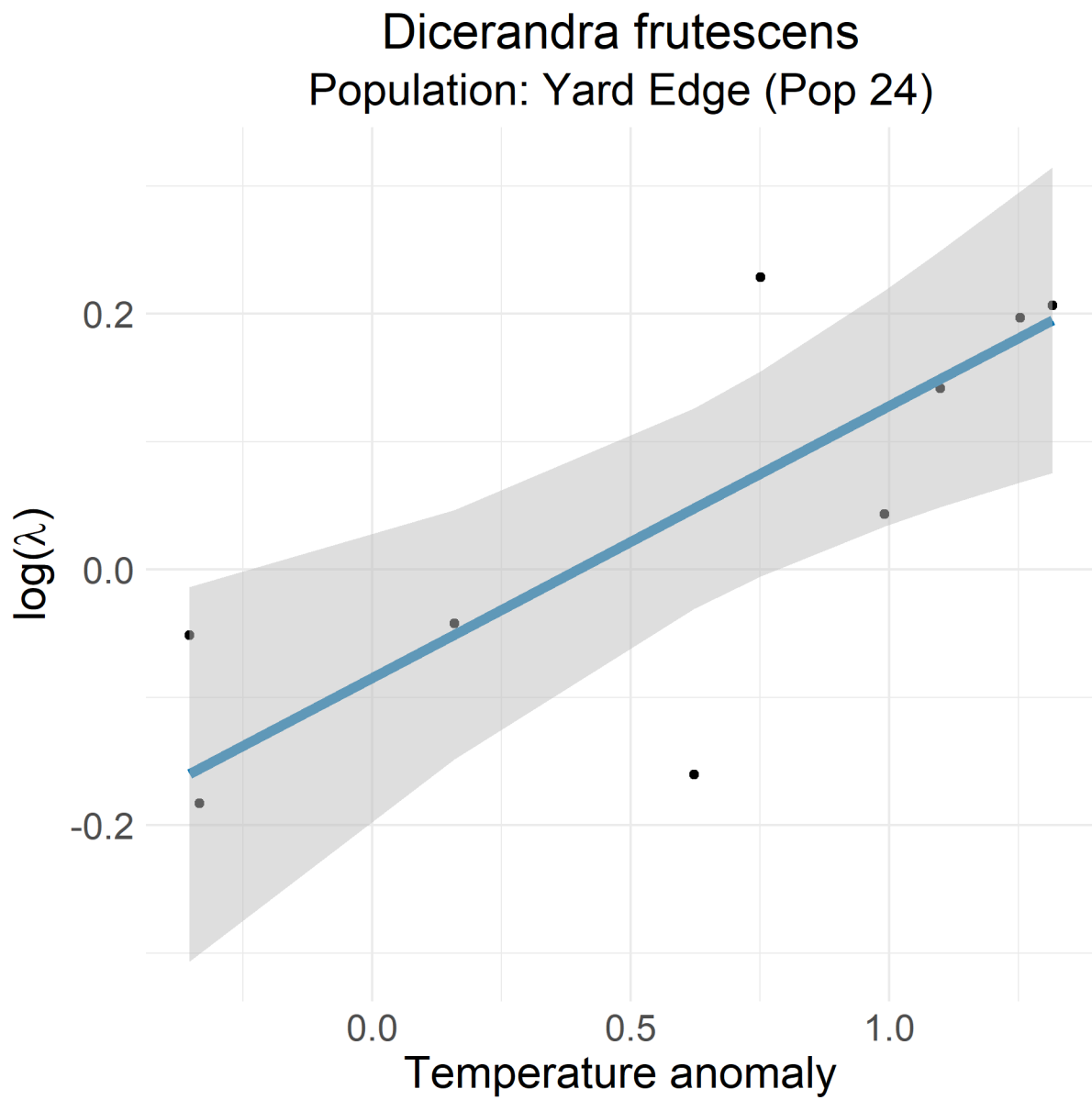


Figure 68: *Dicerandra frutescens* Yard Edge (Pop 24)

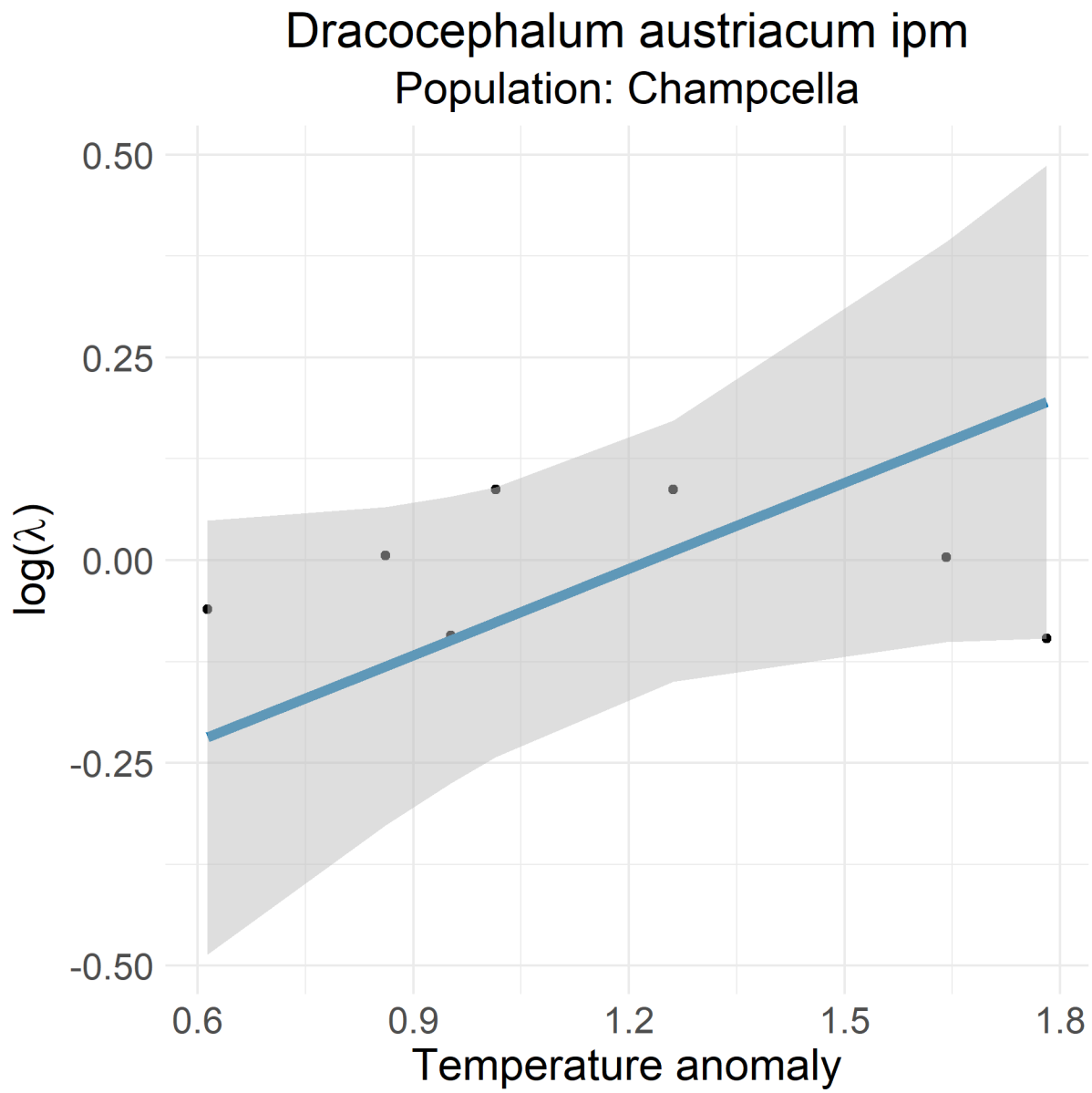


Figure 69: *Dracocephalum austriacum* ipm Champcella

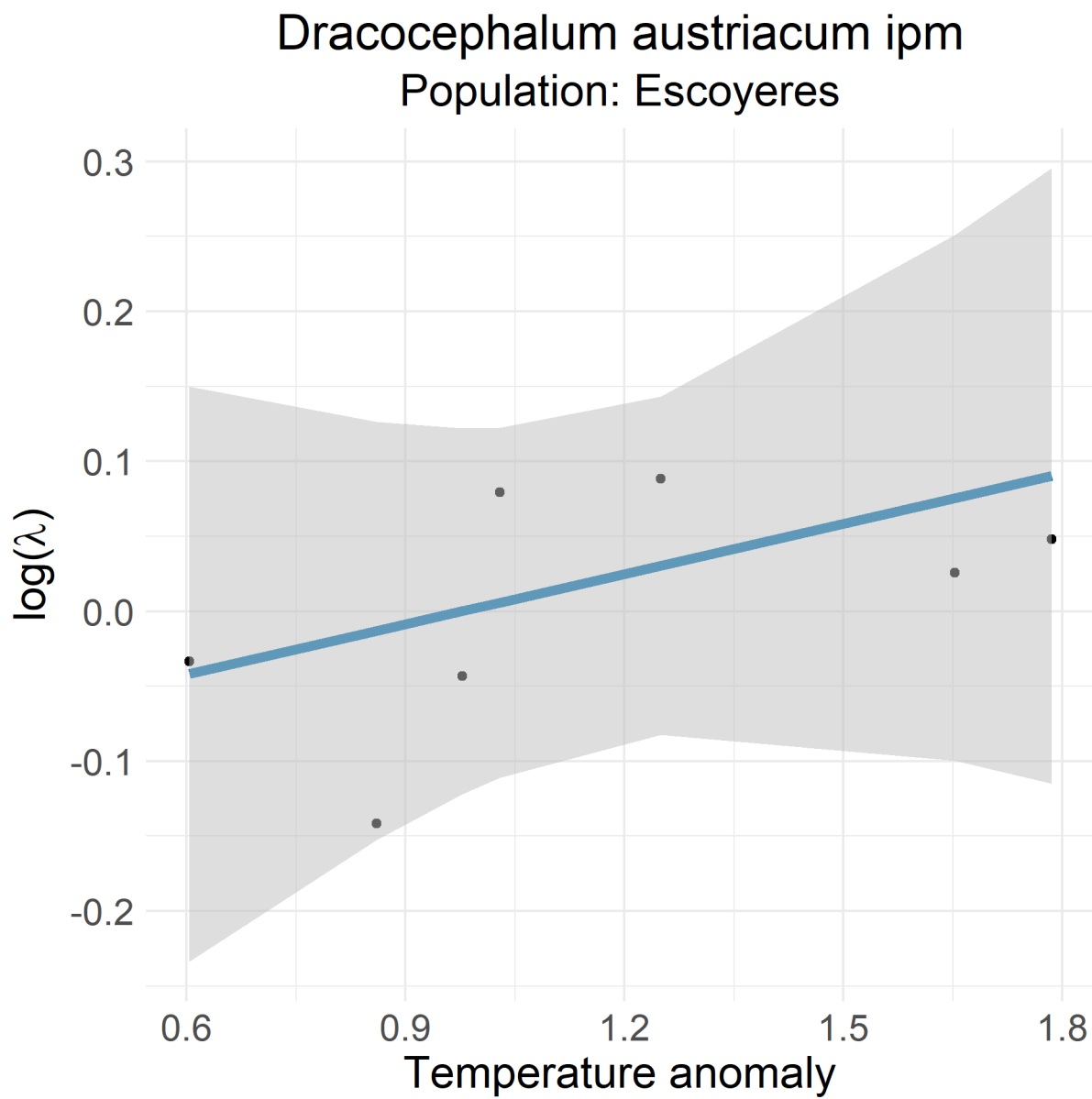


Figure 70: *Dracocephalum austriacum* ipm Escoyeres

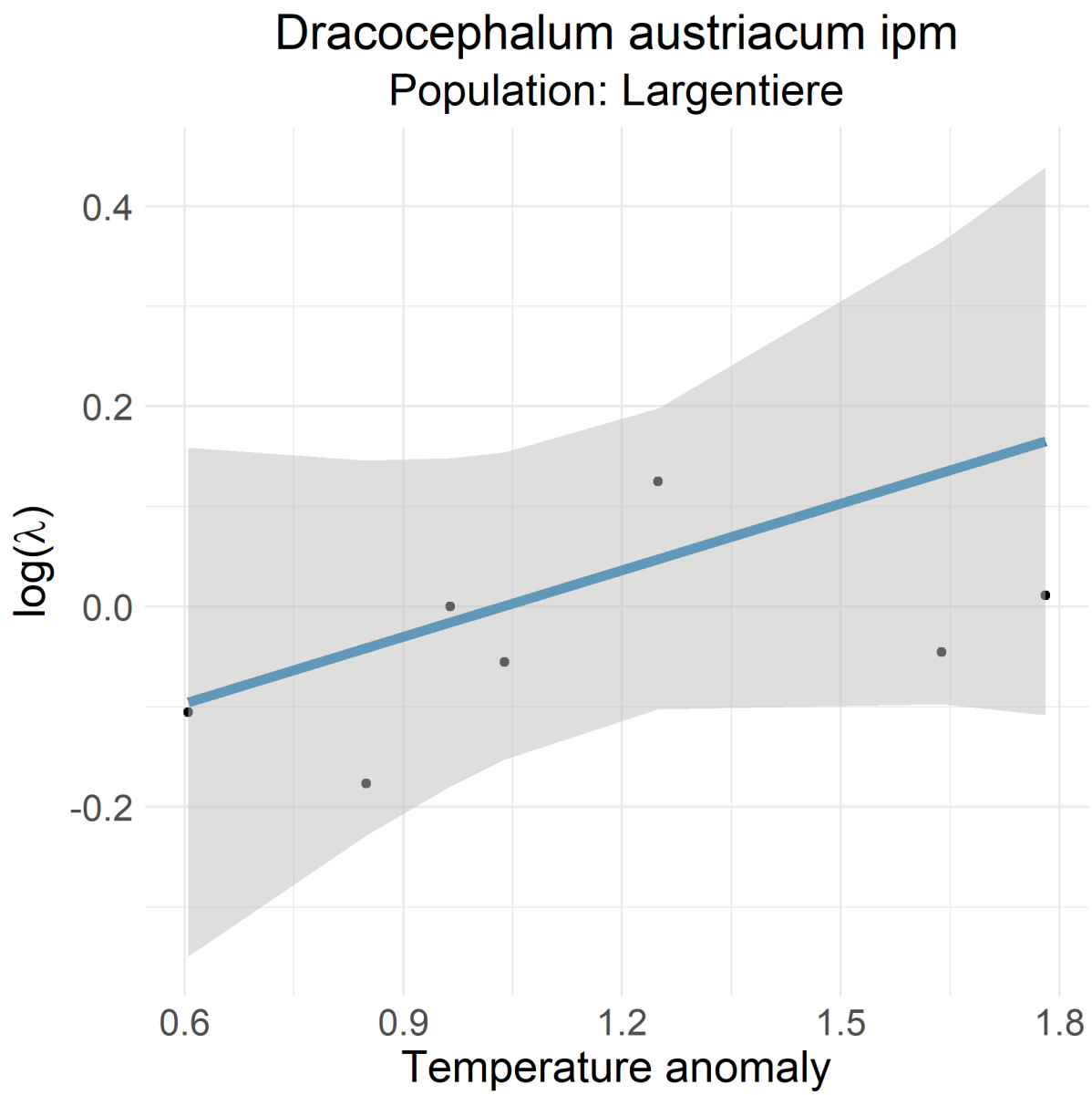


Figure 71: *Dracocephalum austriacum* ipm Largentiere

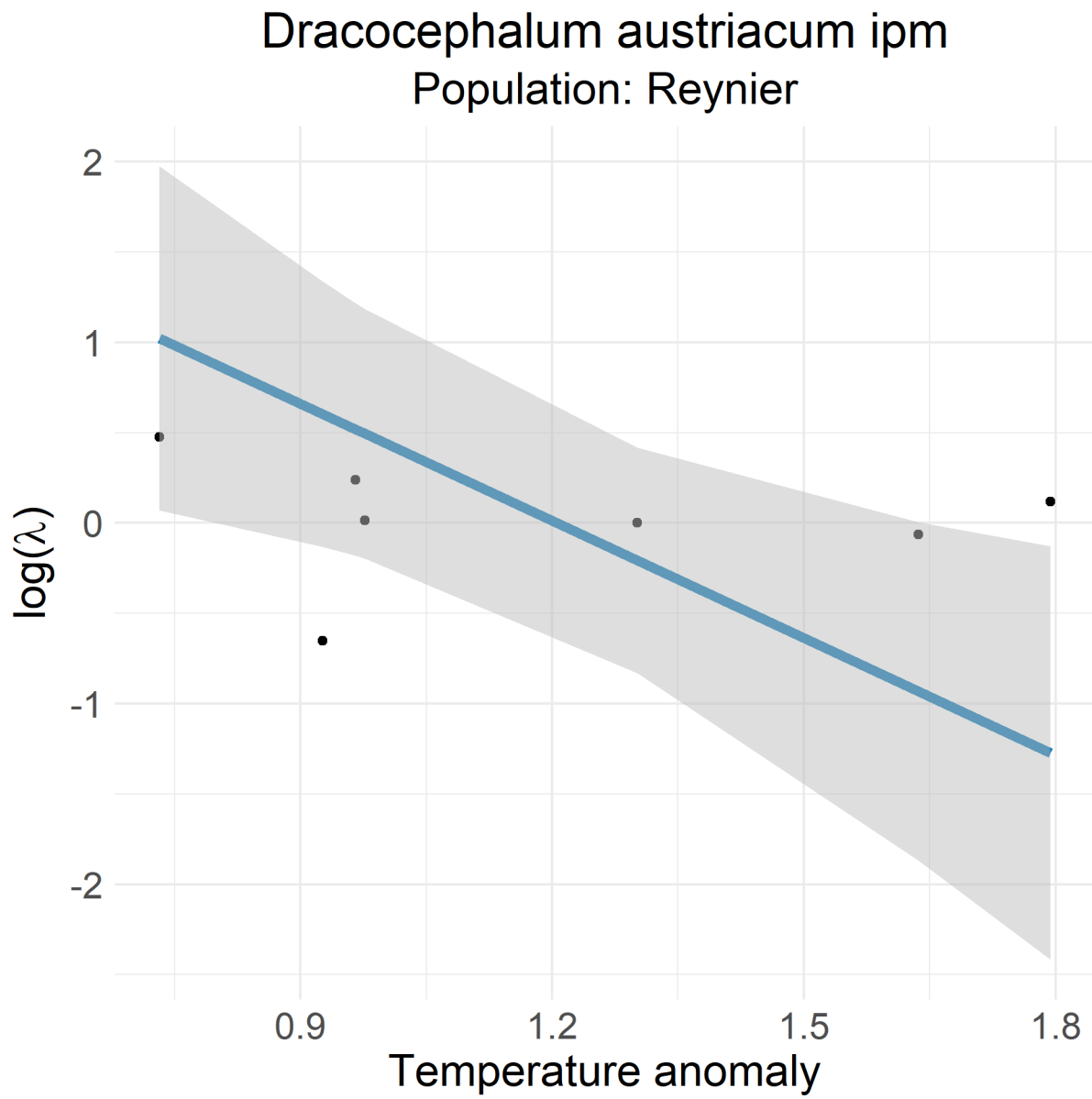


Figure 72: *Dracocephalum austriacum* ipm Reynier

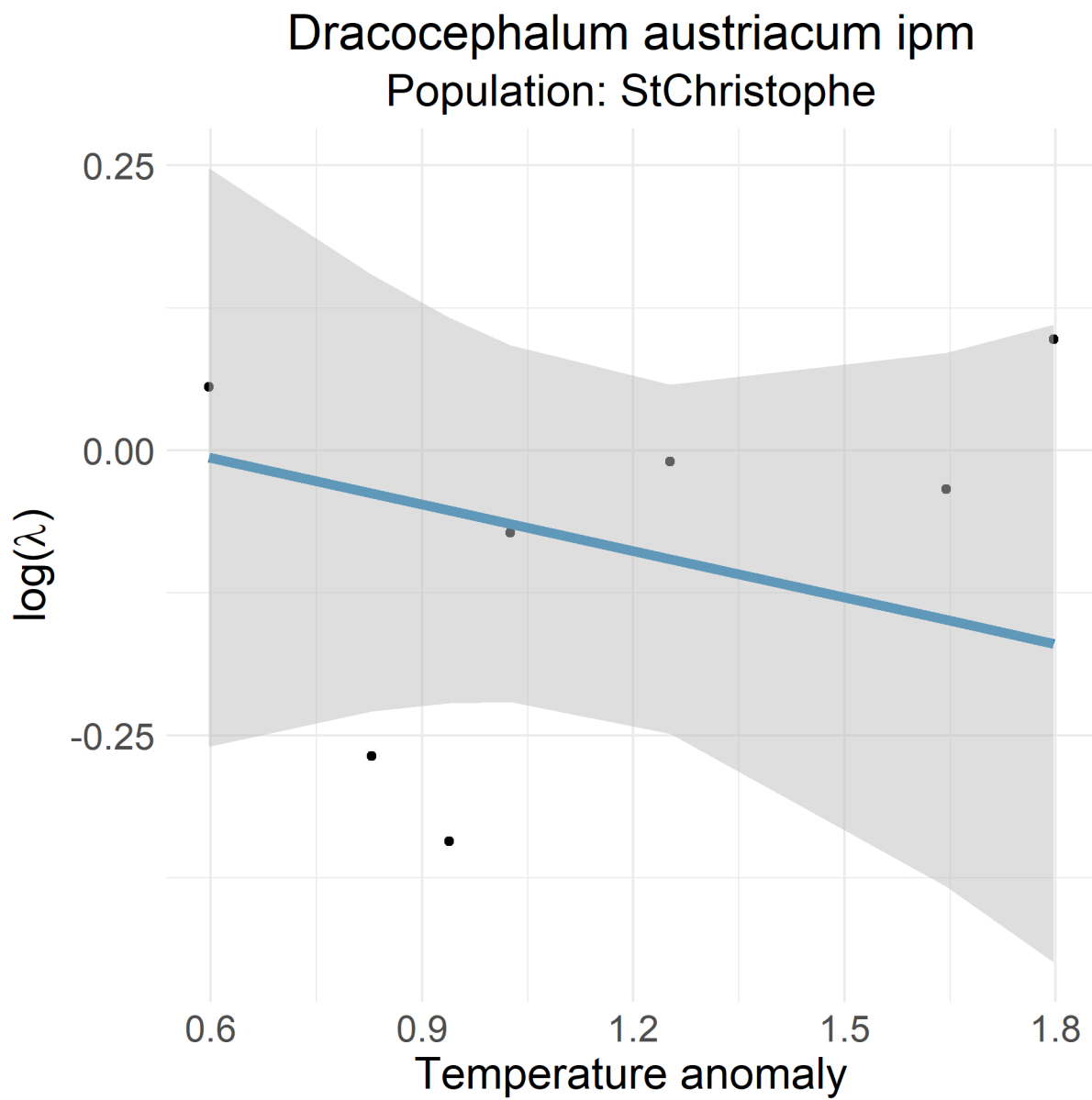


Figure 73: *Dracocephalum austriacum* ipm StChristophe

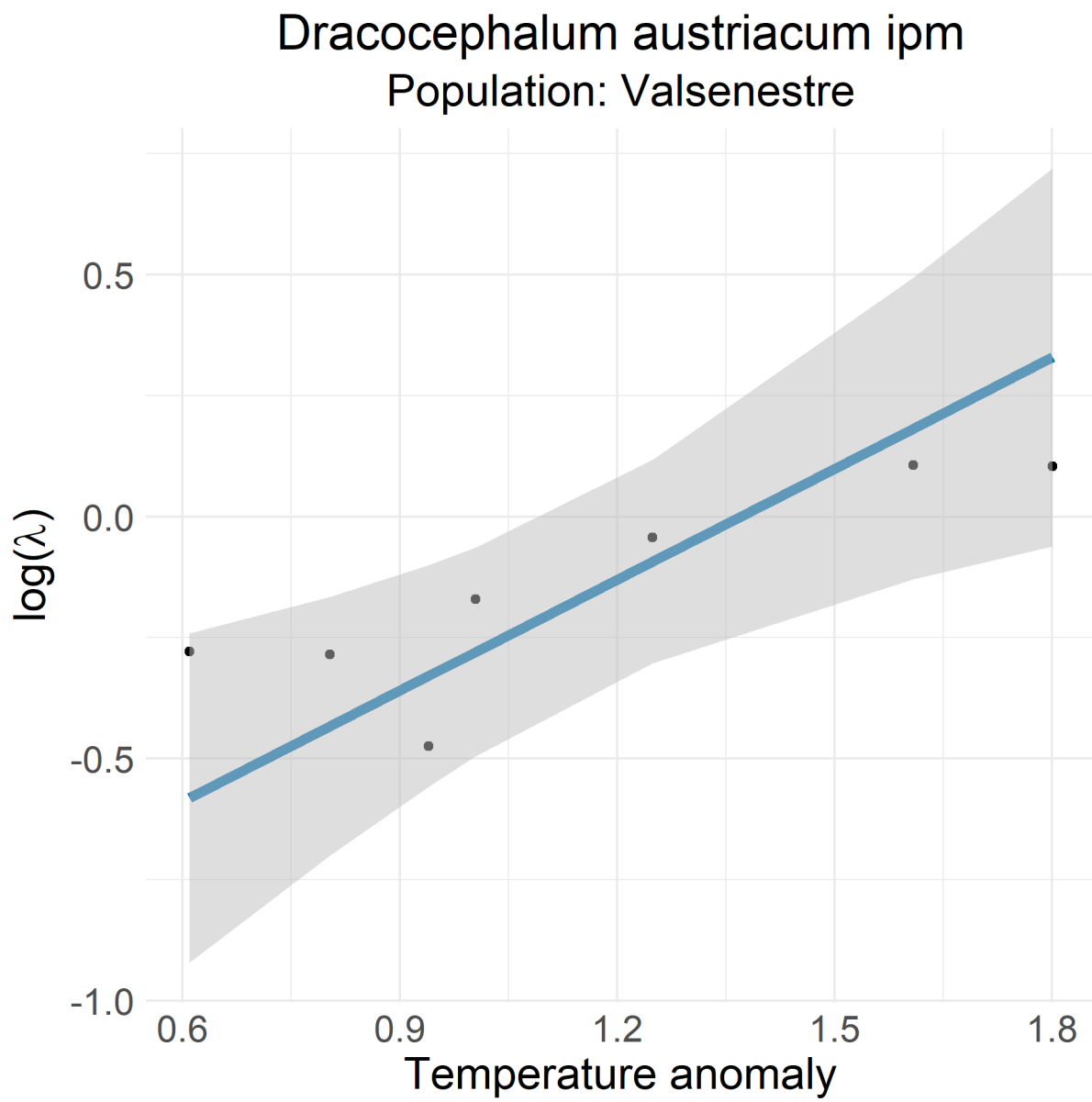


Figure 74: *Dracocephalum austriacum* ipm Valsenestre



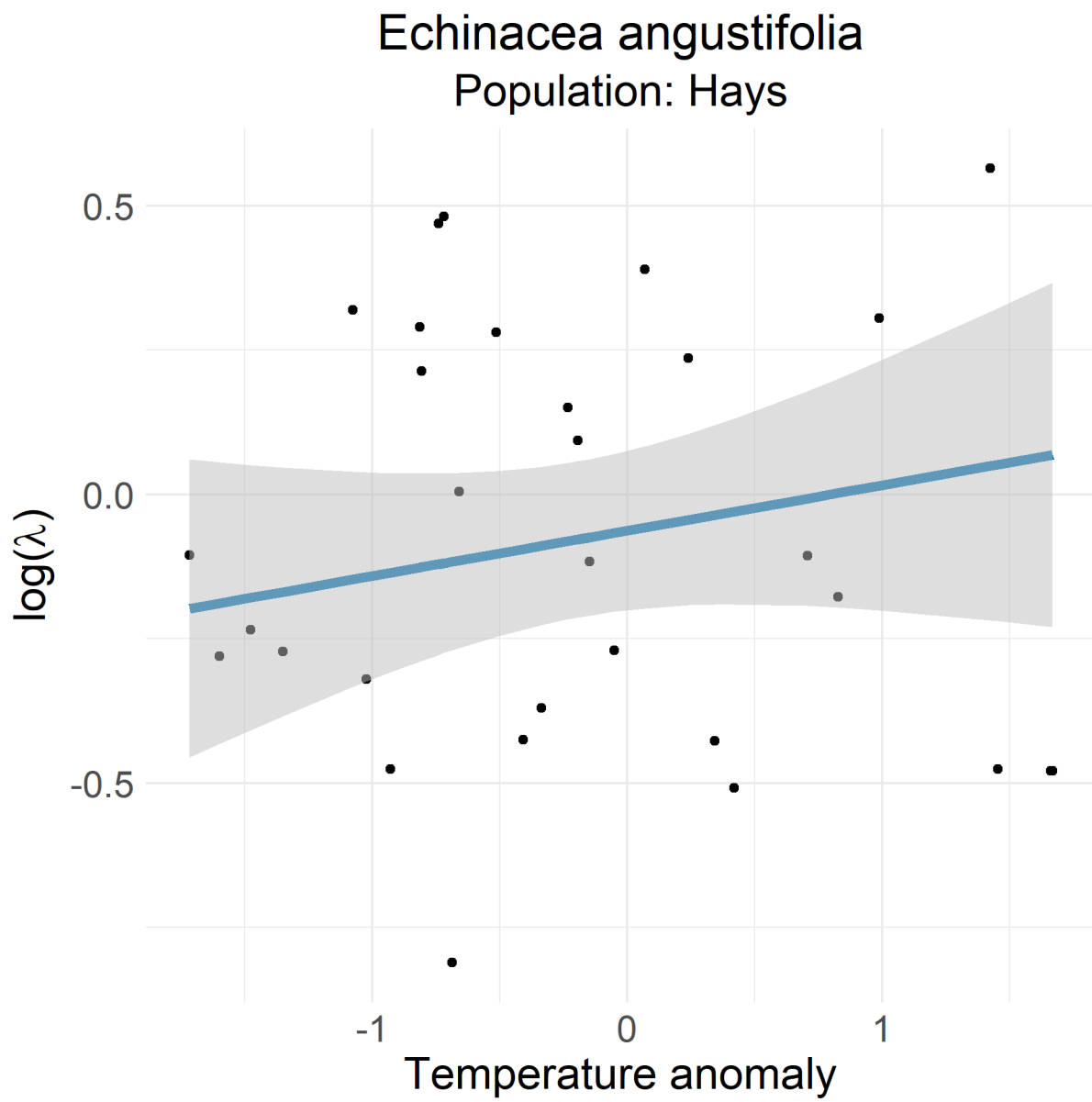


Figure 75: Echinacea angustifolia Hays

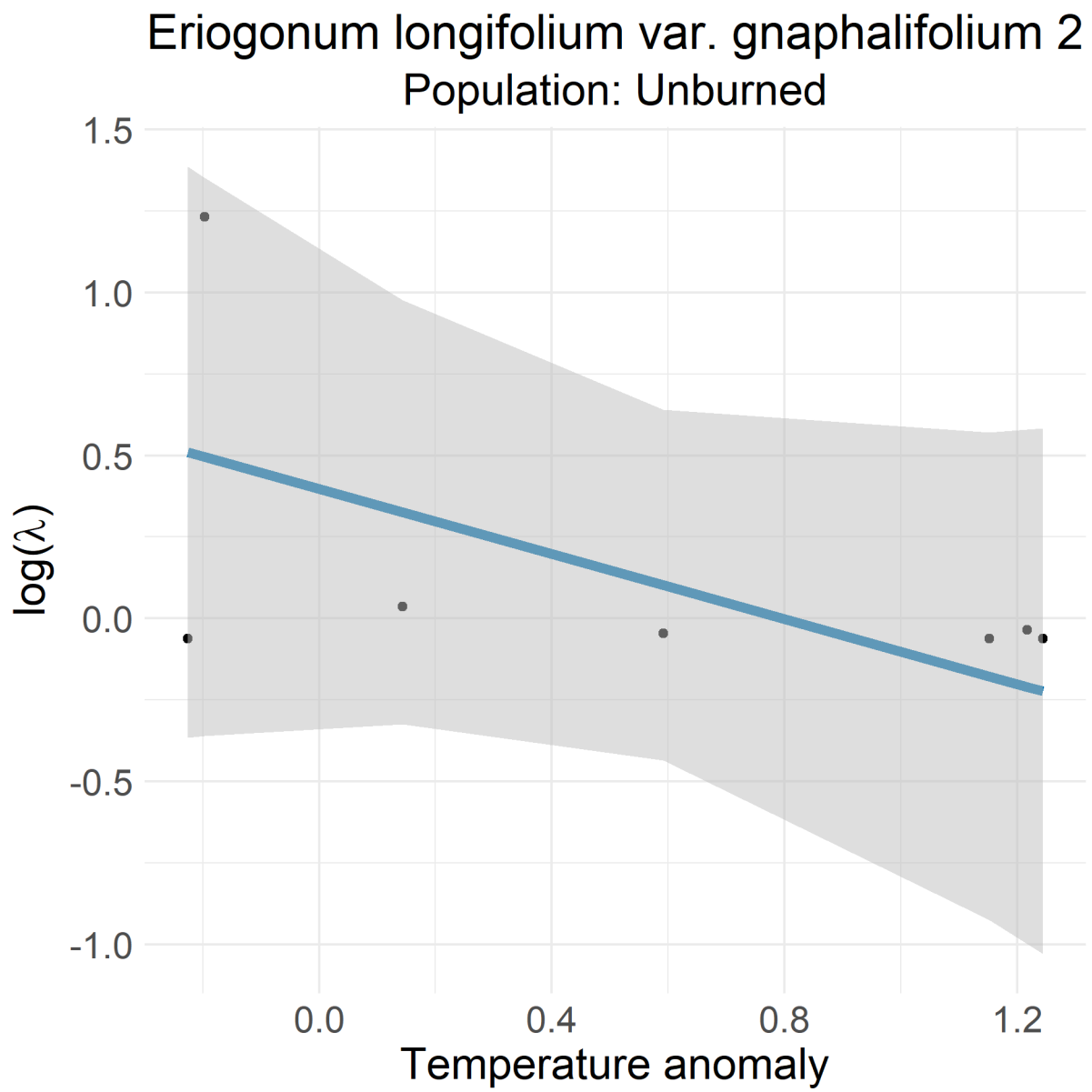


Figure 76: *Eriogonum longifolium* var. *gnaphalifolium* 2 Unburned

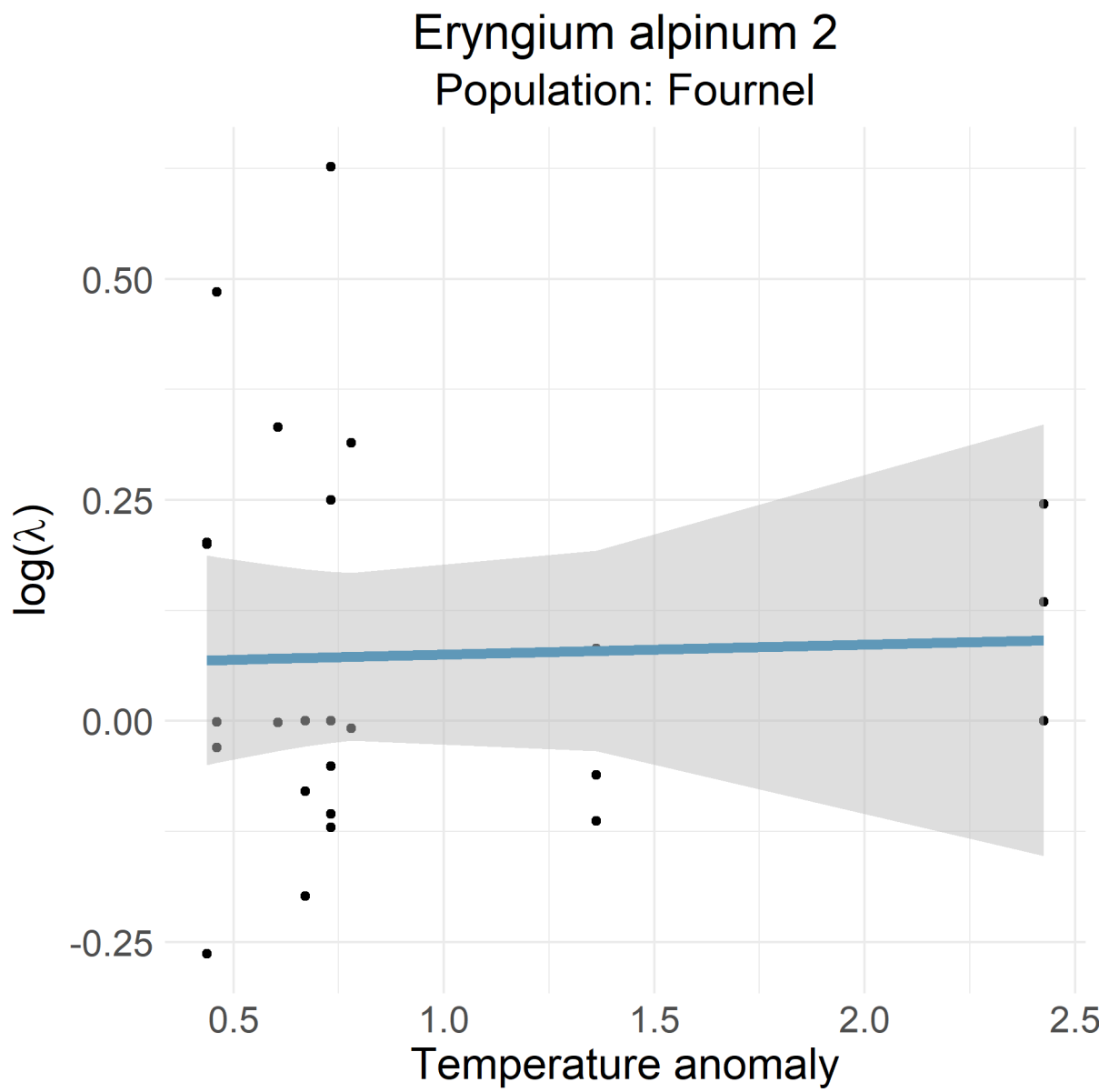


Figure 77: *Eryngium alpinum* 2 Fournel

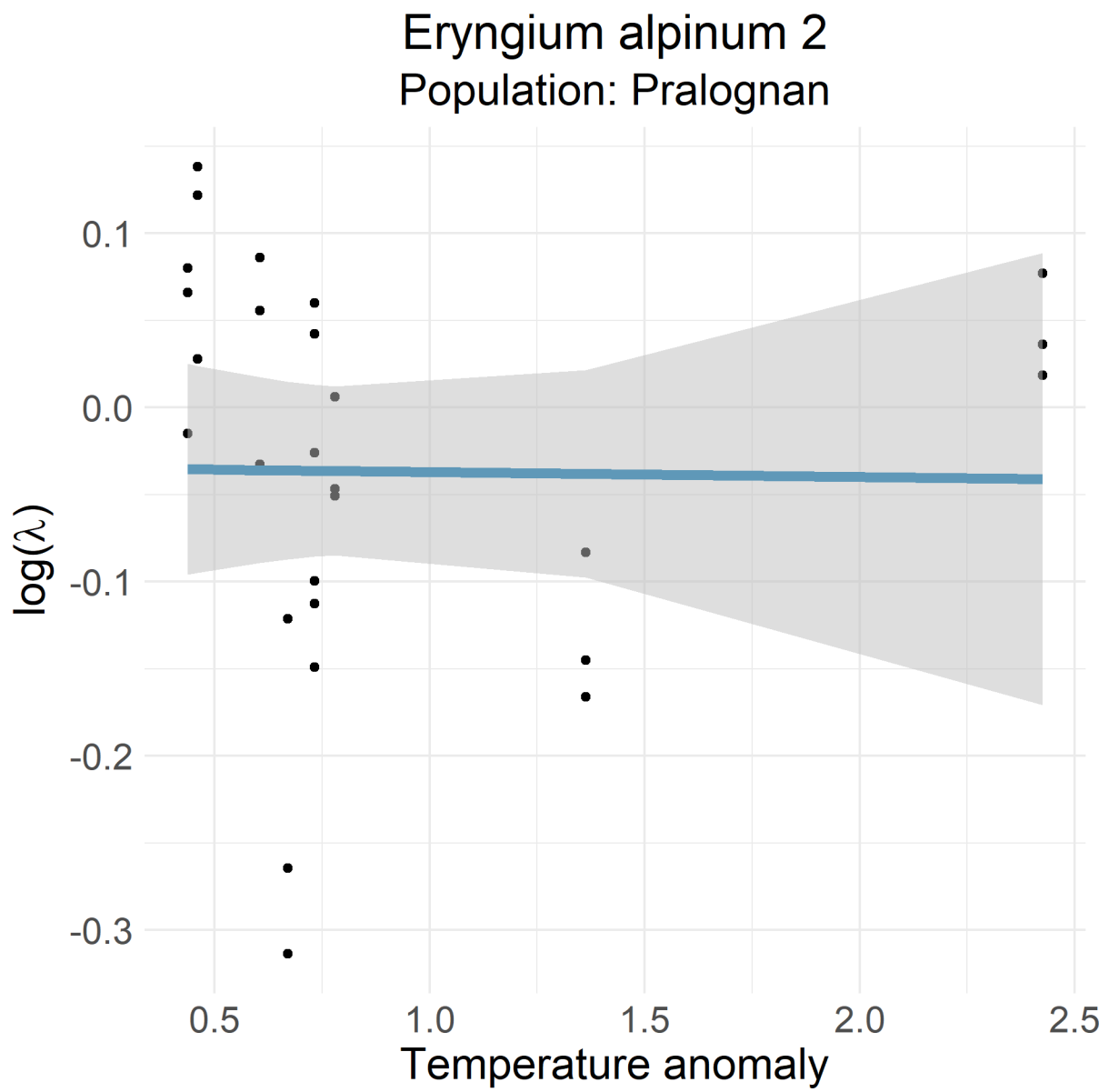


Figure 78: *Eryngium alpinum* 2 Pralognan

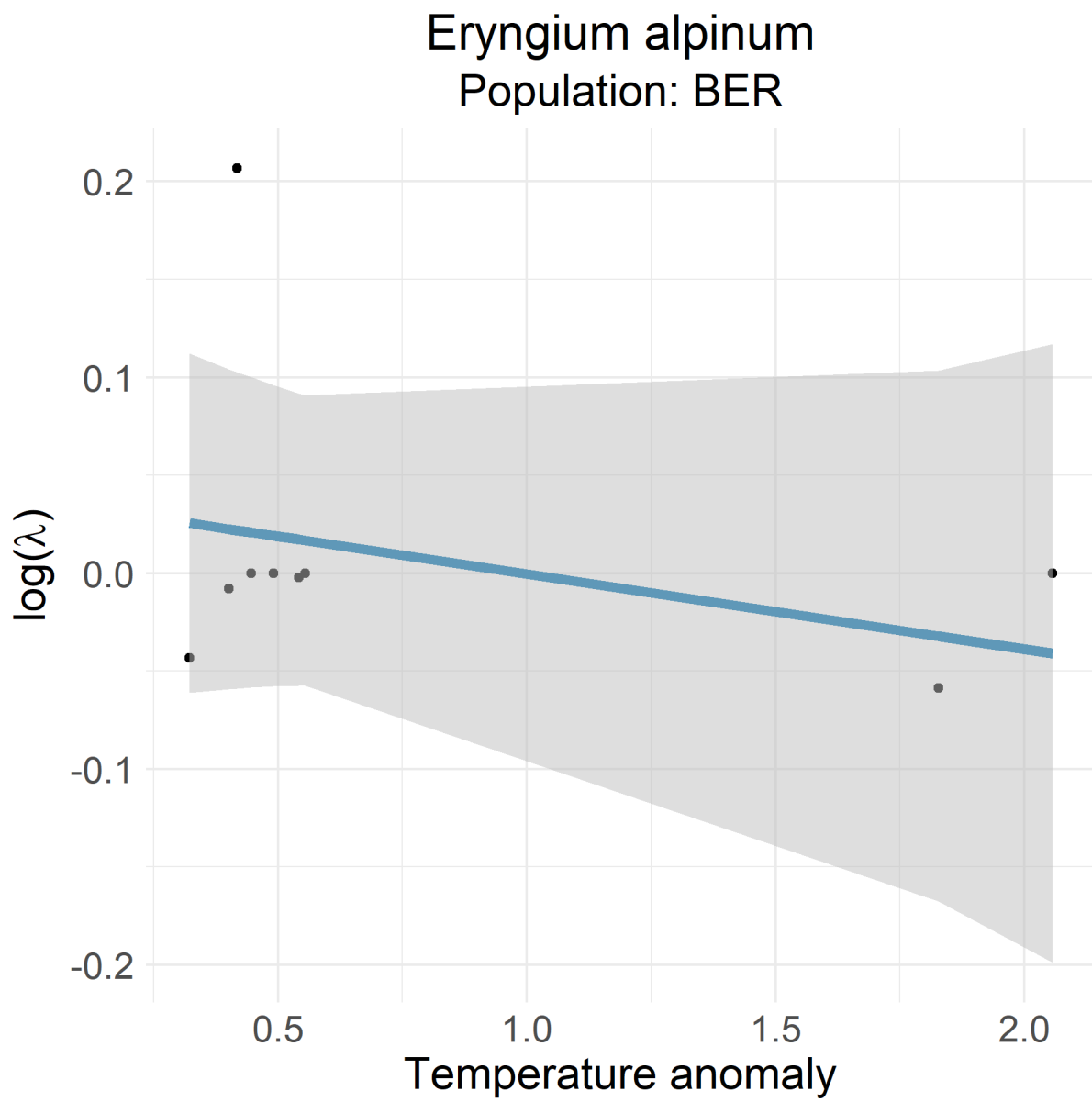


Figure 79: *Eryngium alpinum* BER

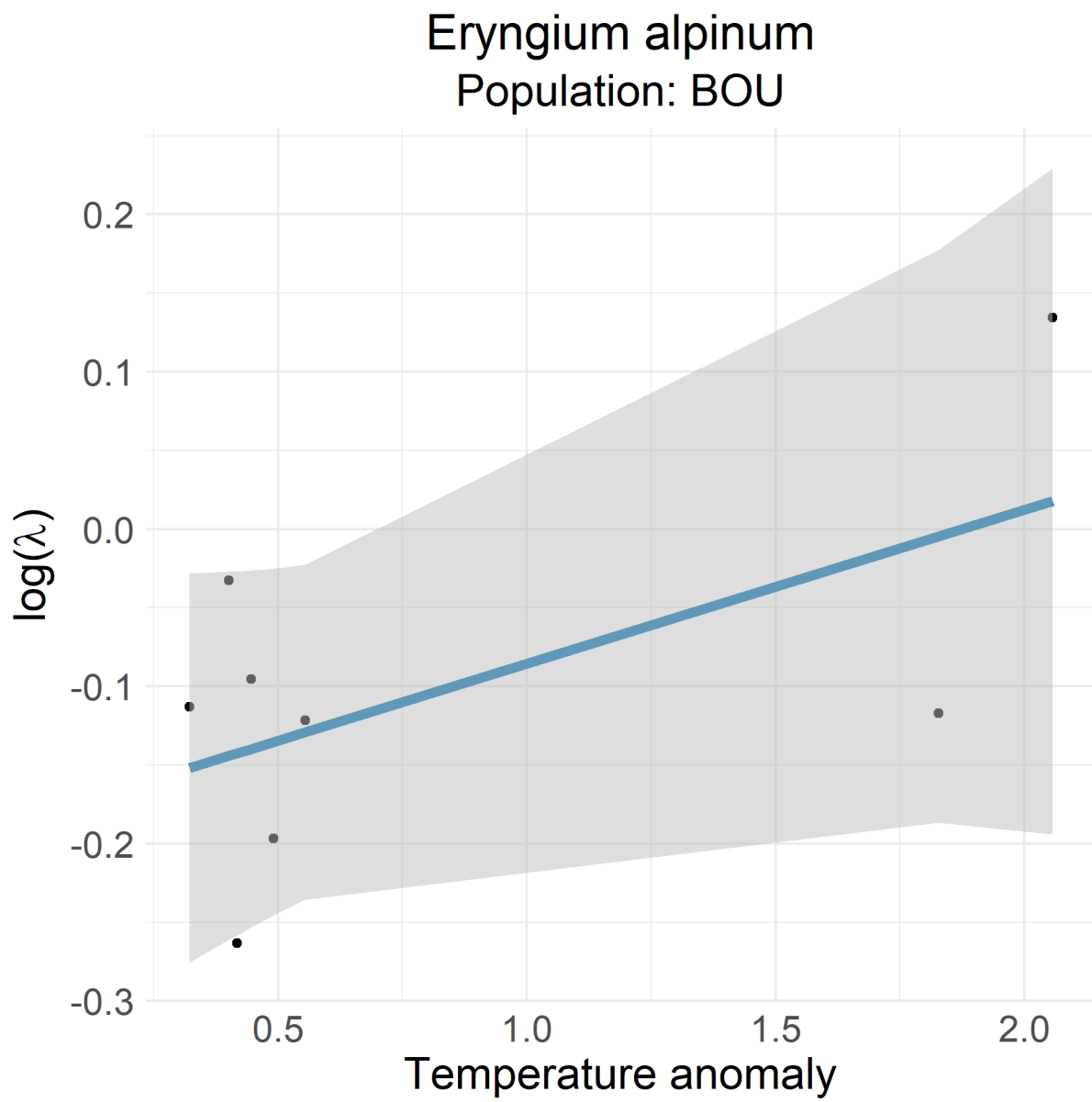


Figure 80: *Eryngium alpinum* BOU

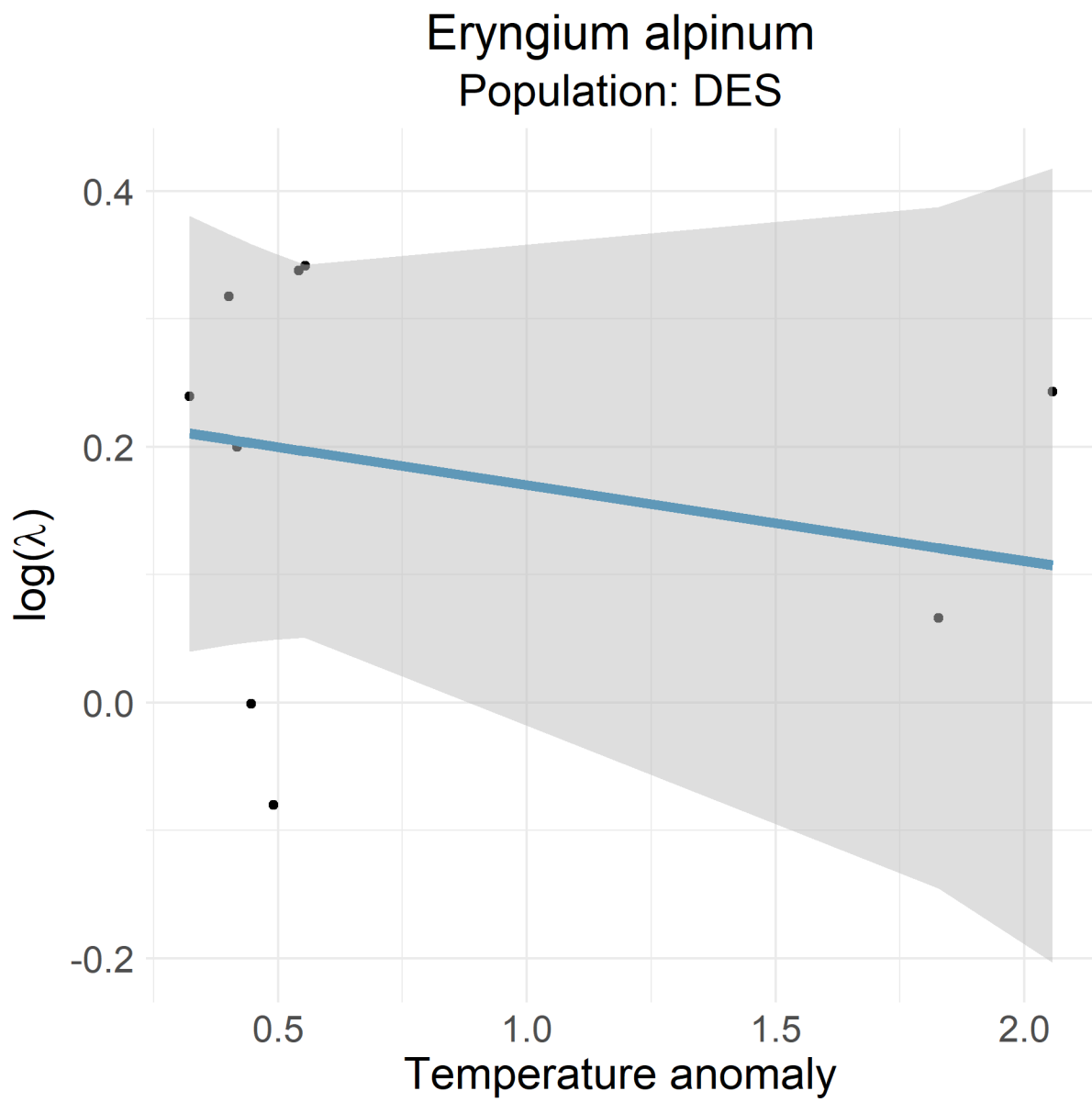


Figure 81: *Eryngium alpinum* DES

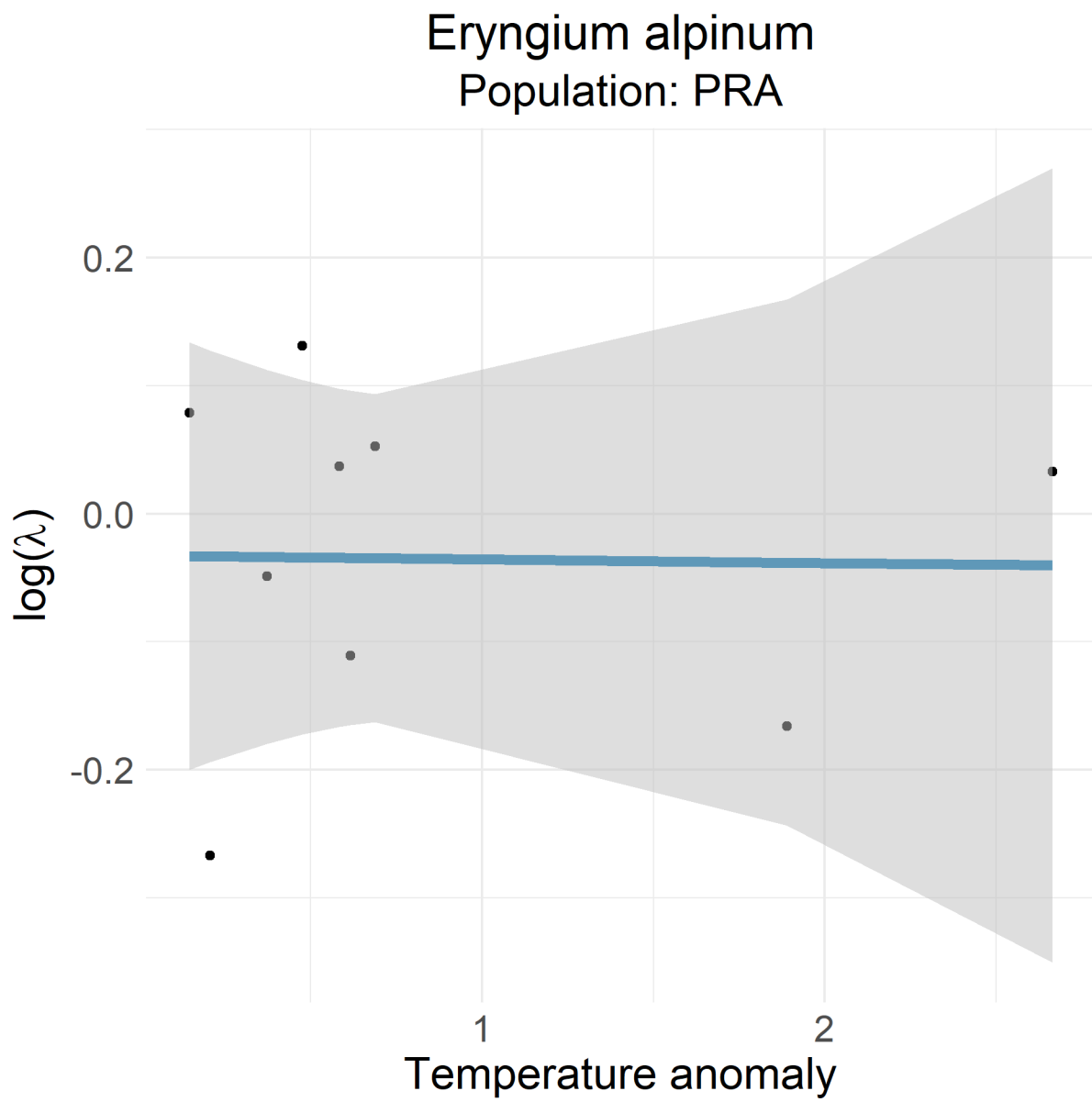


Figure 82: *Eryngium alpinum* PRA



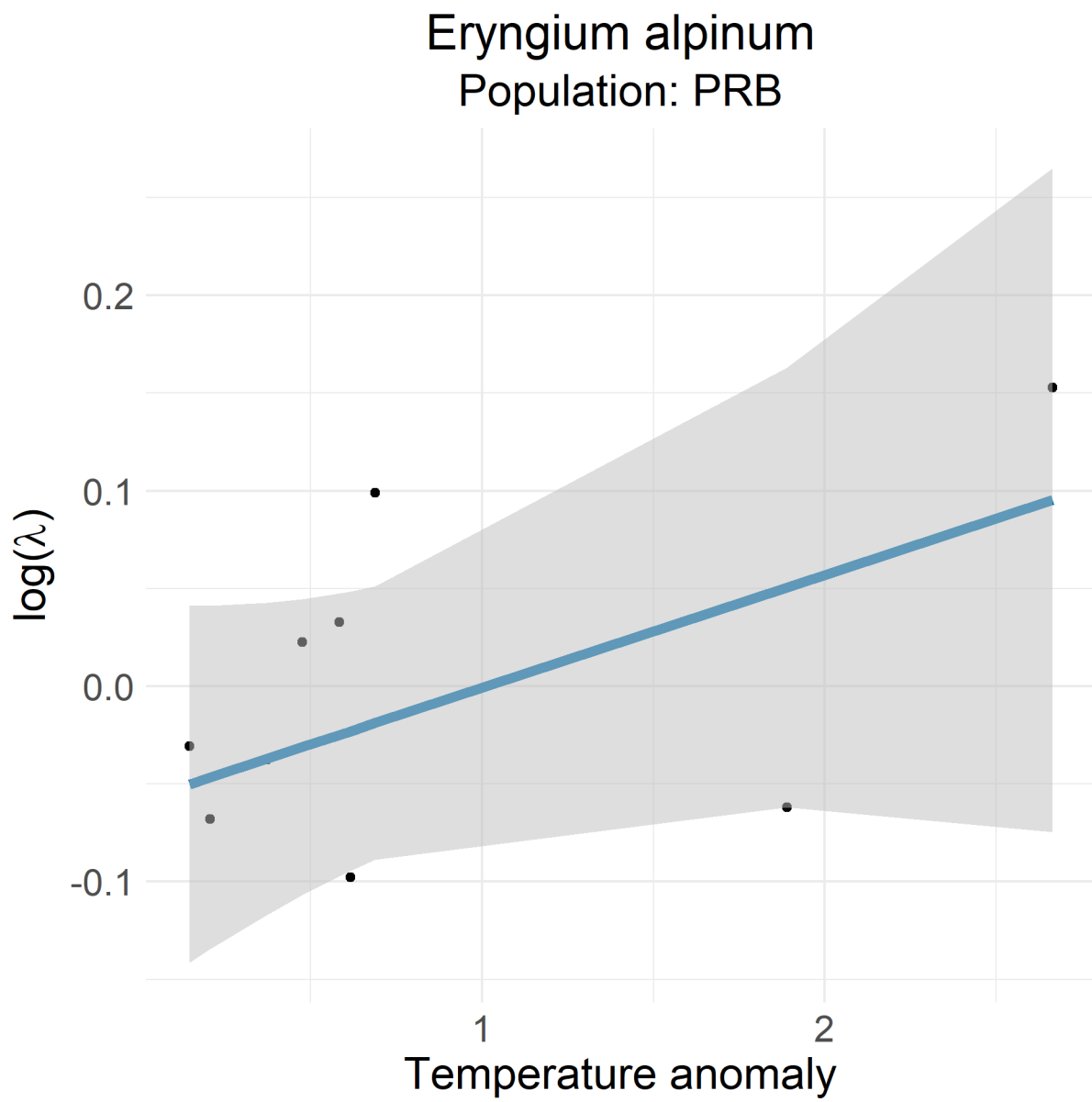


Figure 83: *Eryngium alpinum* PRB

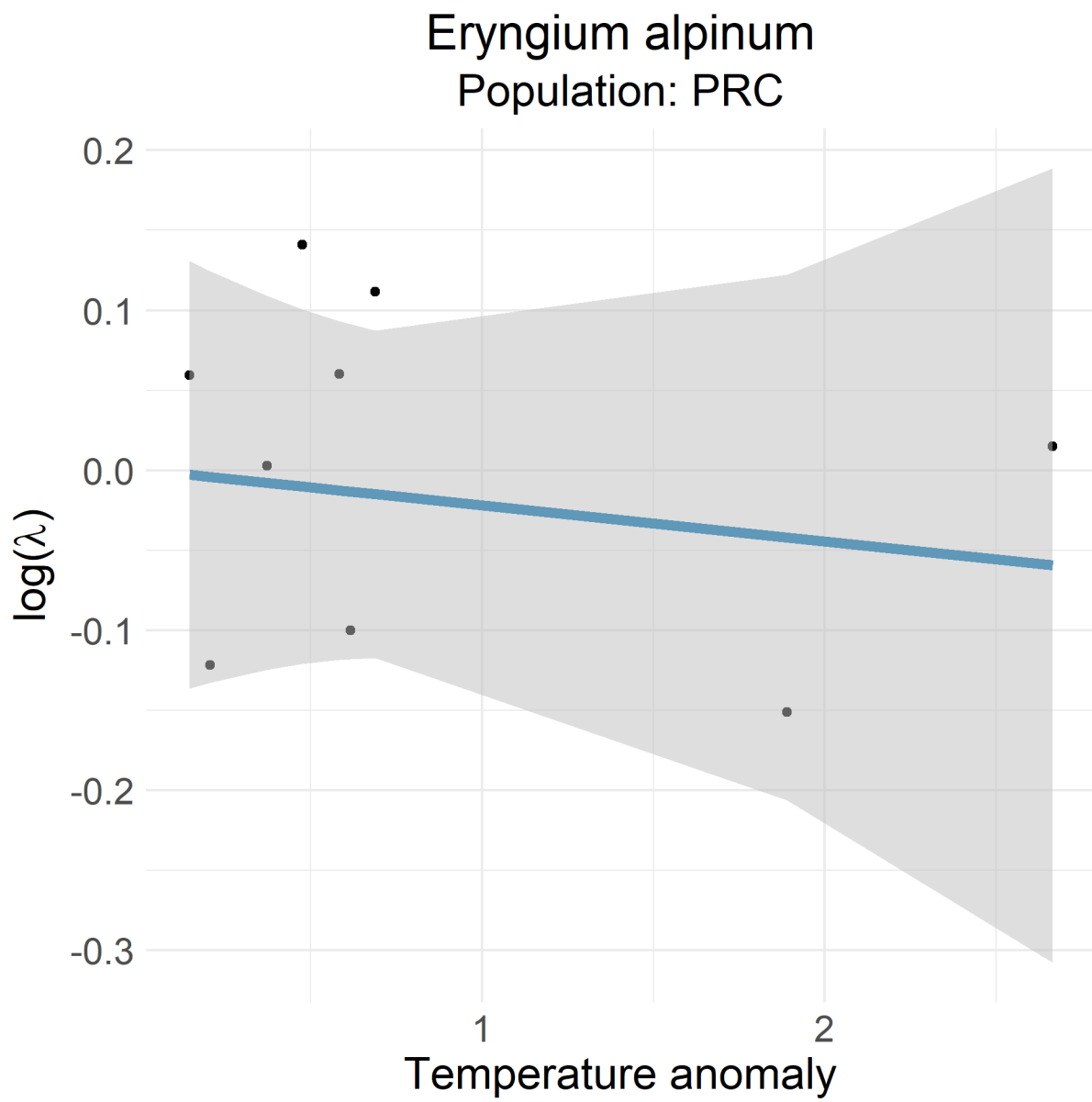


Figure 84: *Eryngium alpinum* PRC

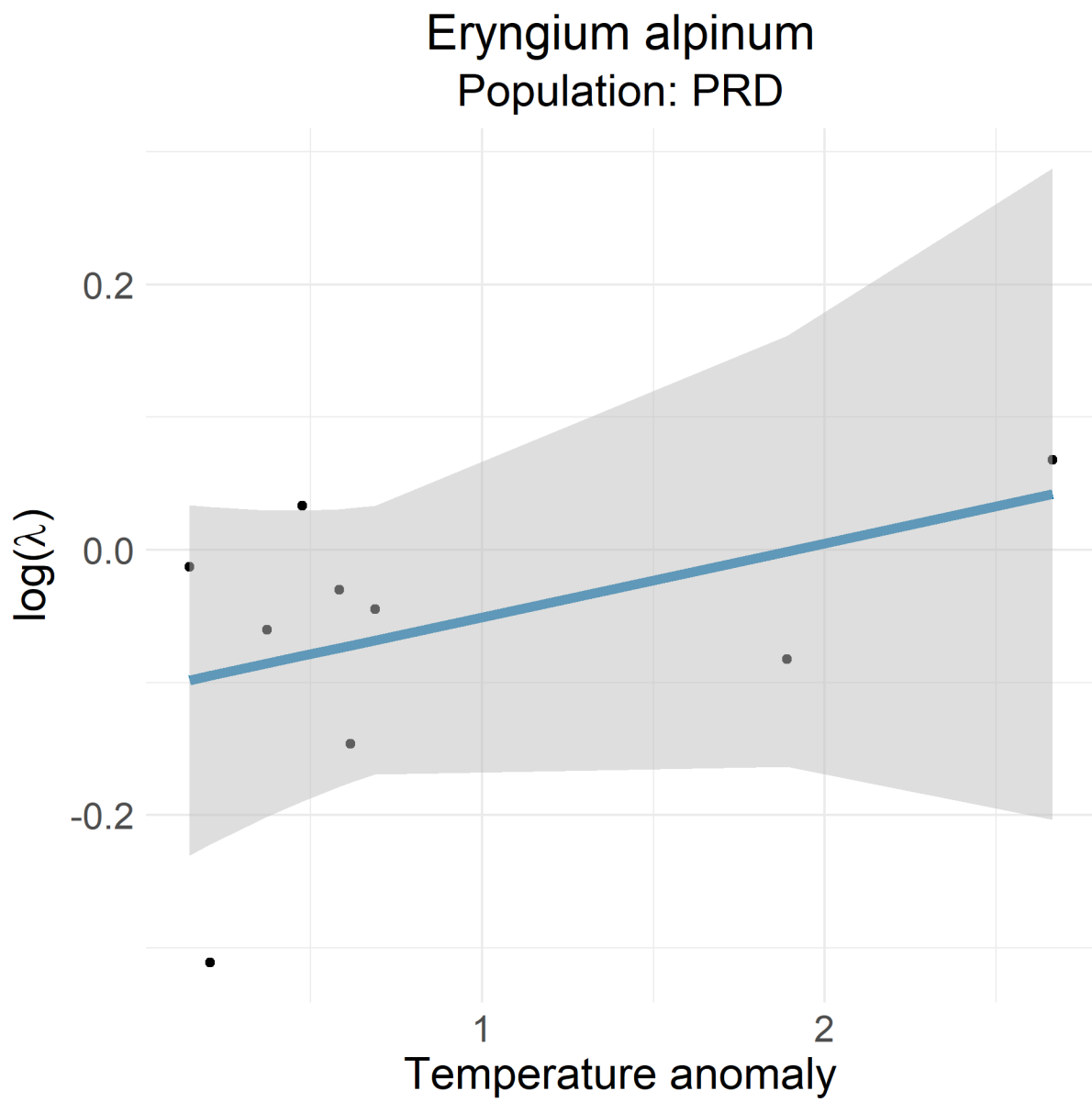


Figure 85: *Eryngium alpinum* PRD

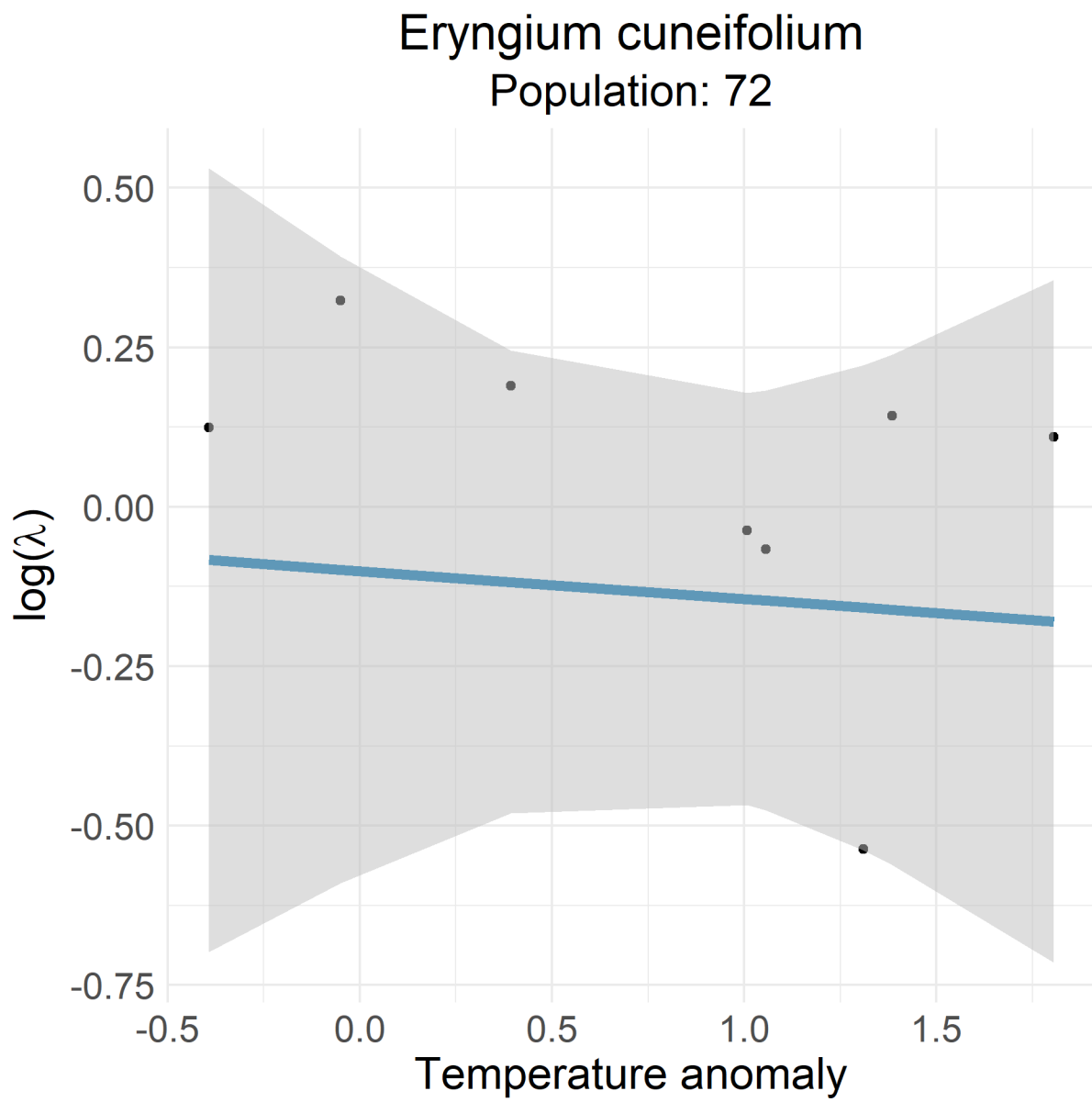


Figure 86: *Eryngium cuneifolium* 72

Eryngium cuneifolium  
Population: 85

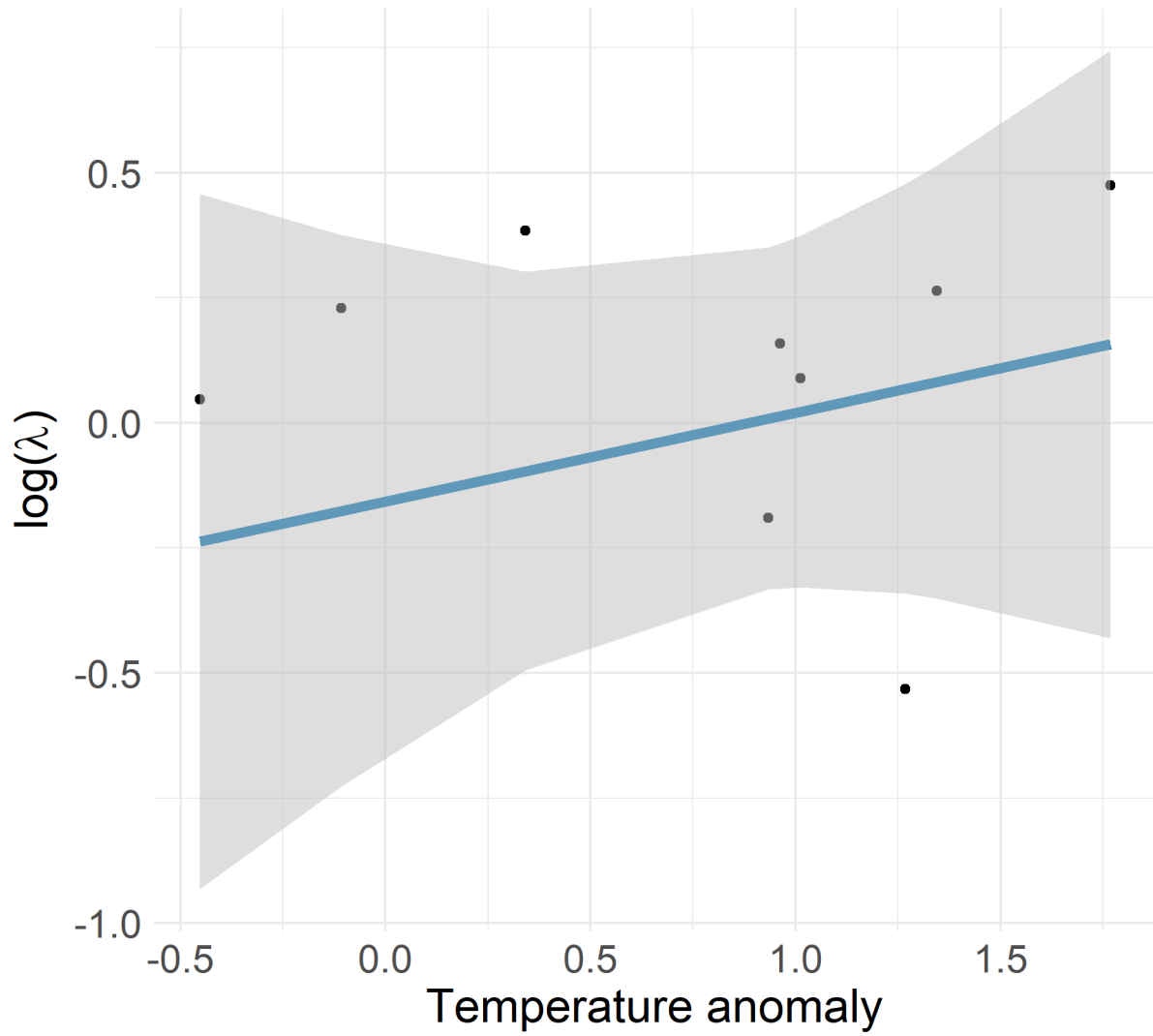


Figure 87: Eryngium cuneifolium 85

Eryngium cuneifolium  
Population: 91

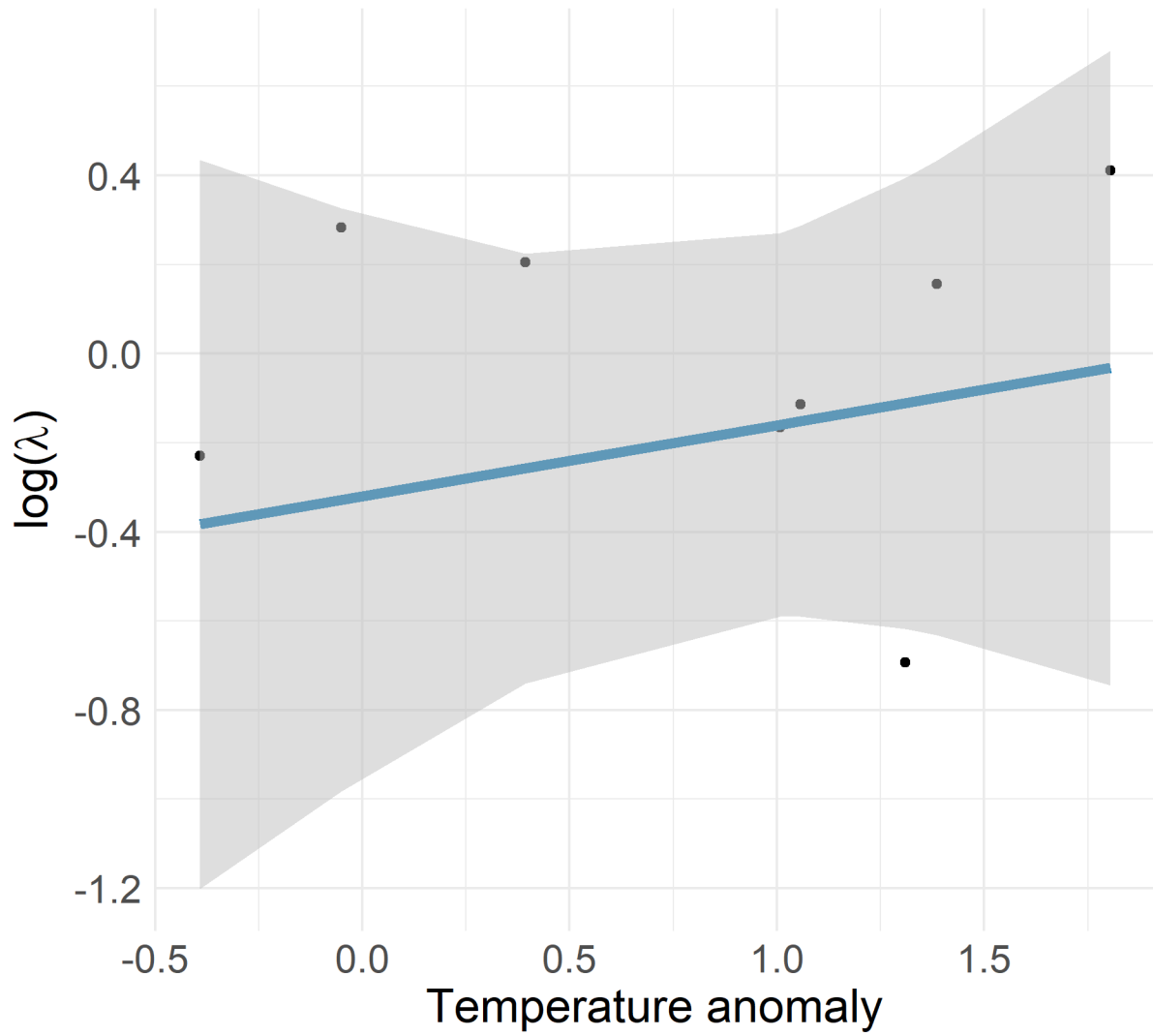


Figure 88: Eryngium cuneifolium 91

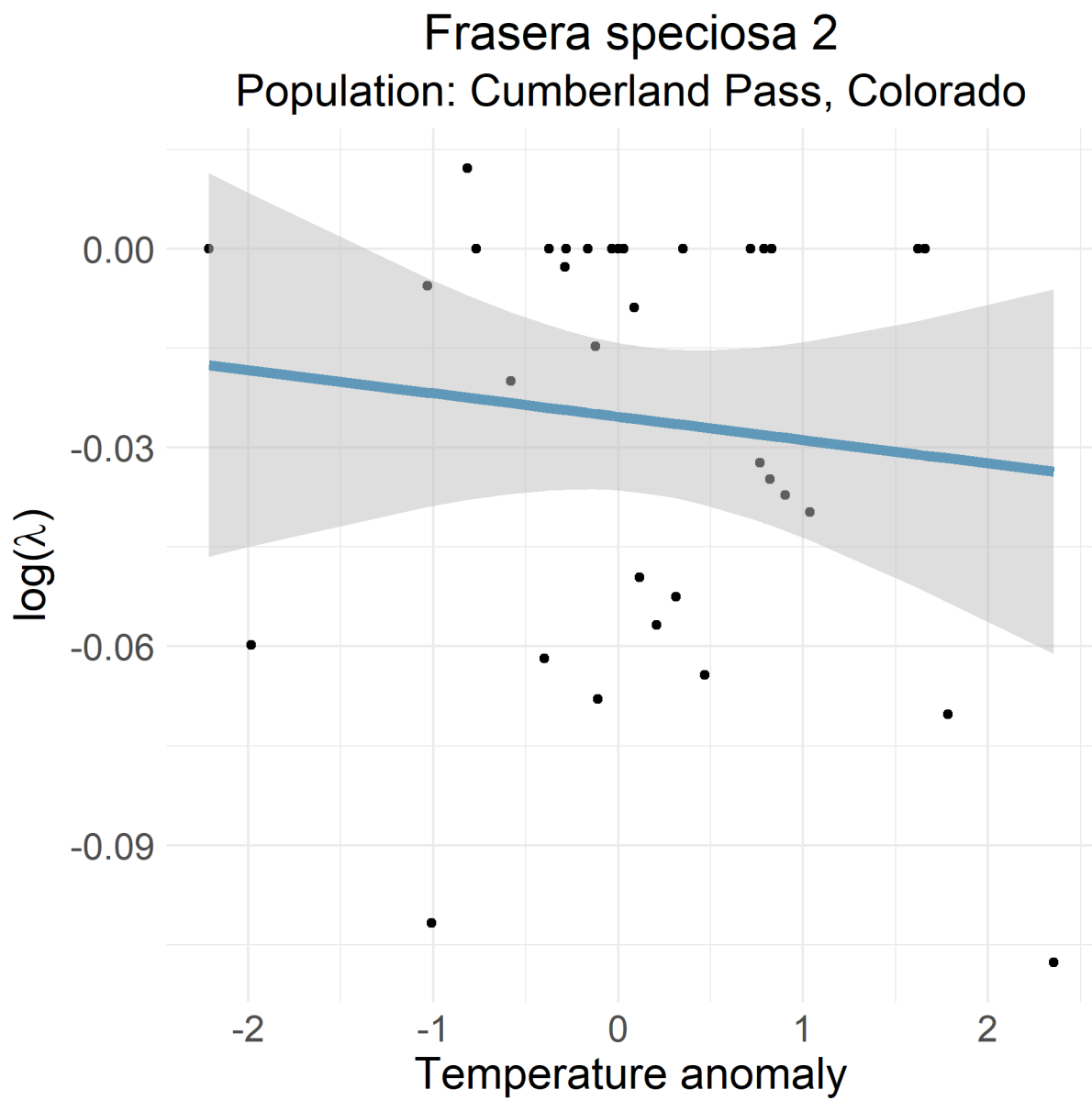


Figure 89: *Frasera speciosa* 2 Cumberland Pass, Colorado

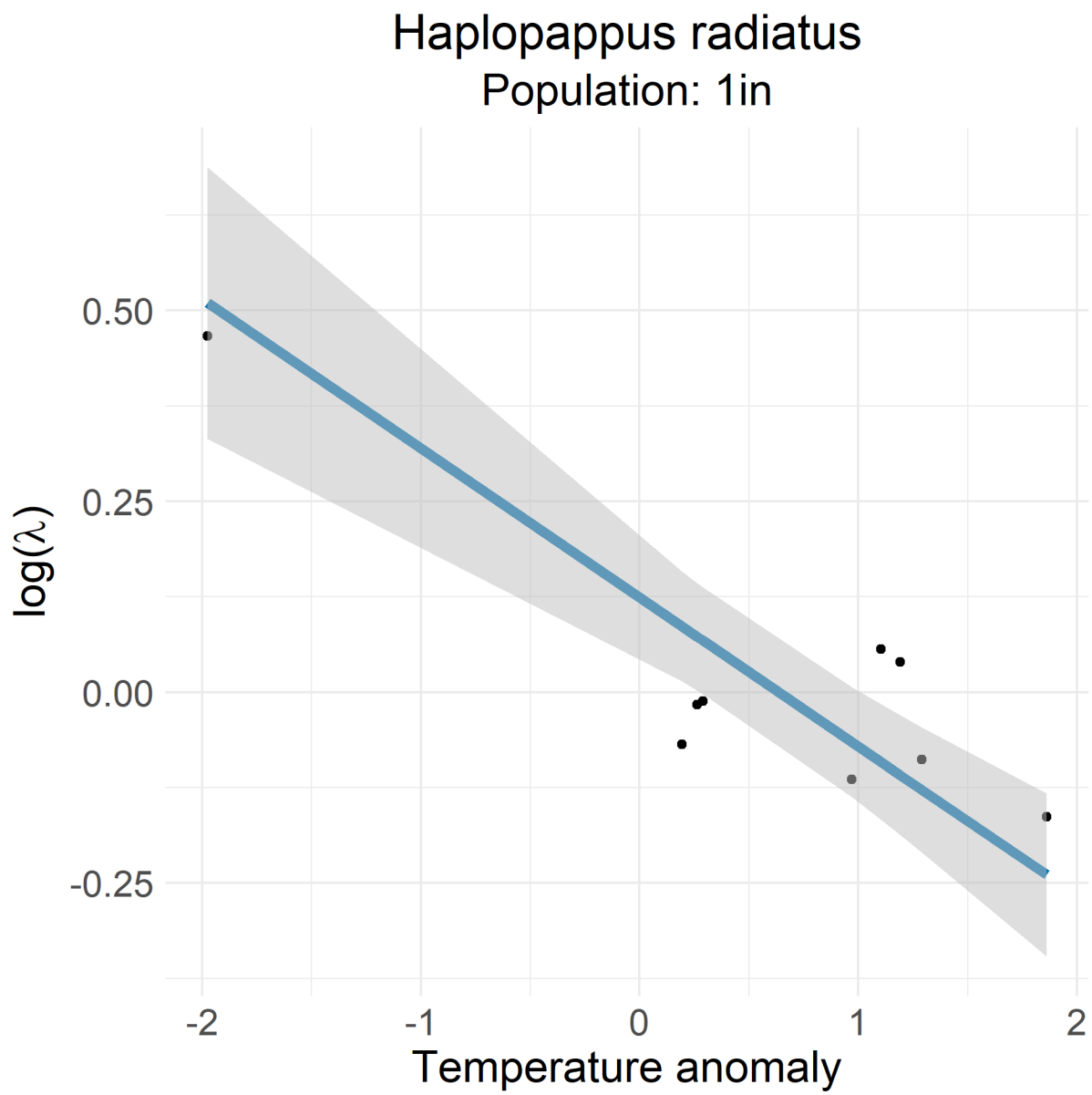


Figure 90: Haplopappus radiatus 1in



Haplopappus radiatus  
Population: 1out

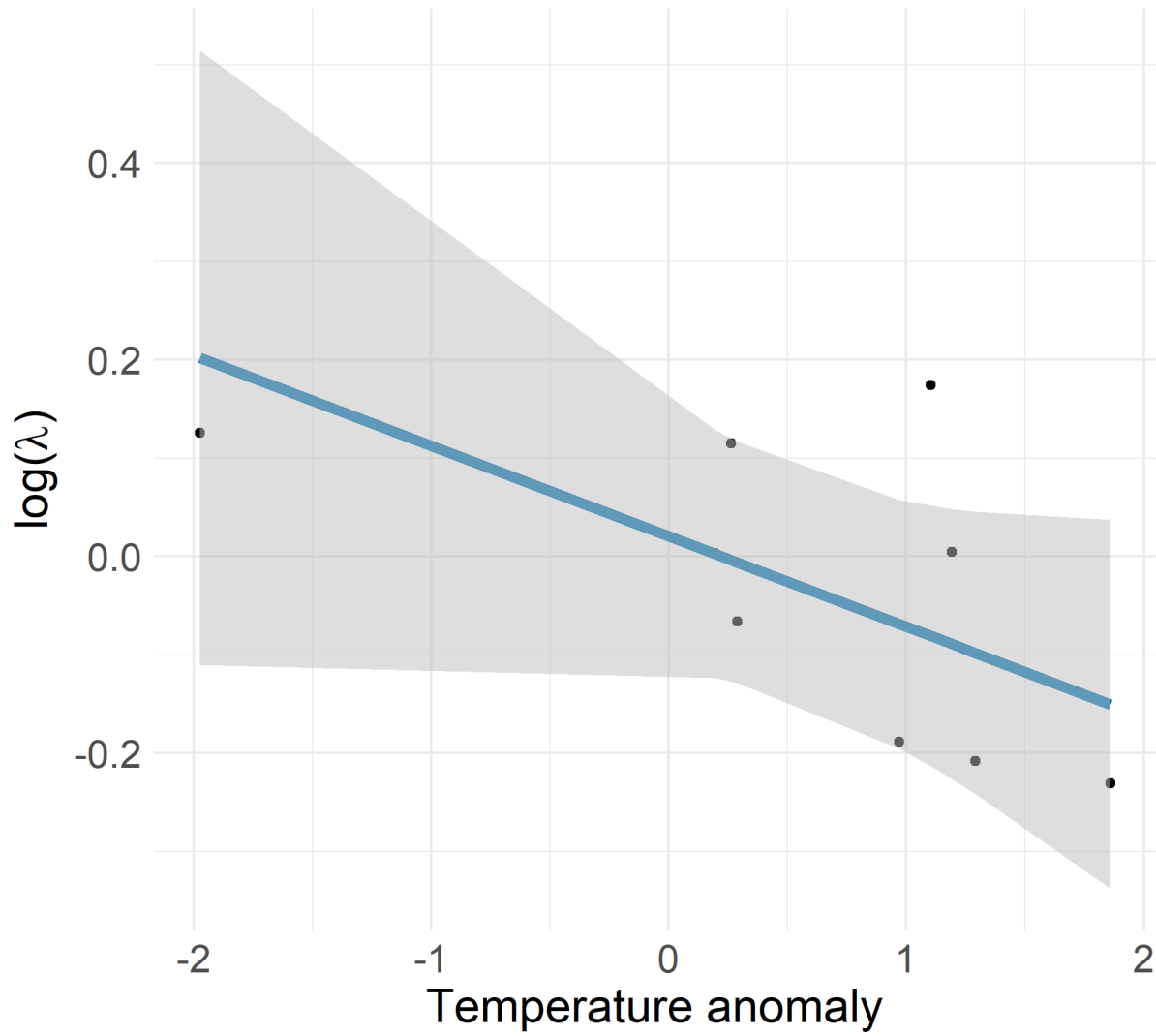


Figure 91: Haplopappus radiatus 1out

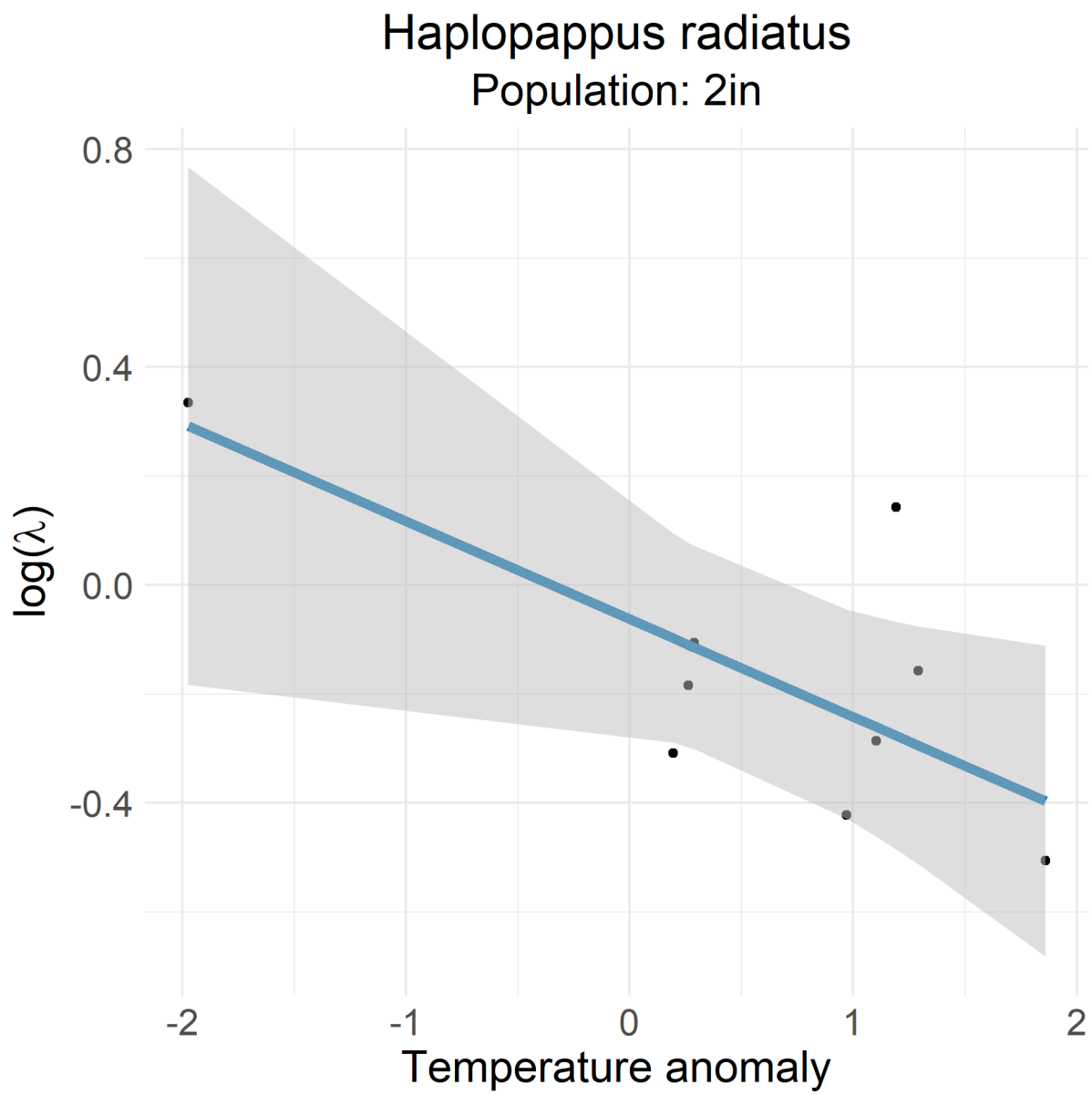


Figure 92: Haplopappus radiatus 2in

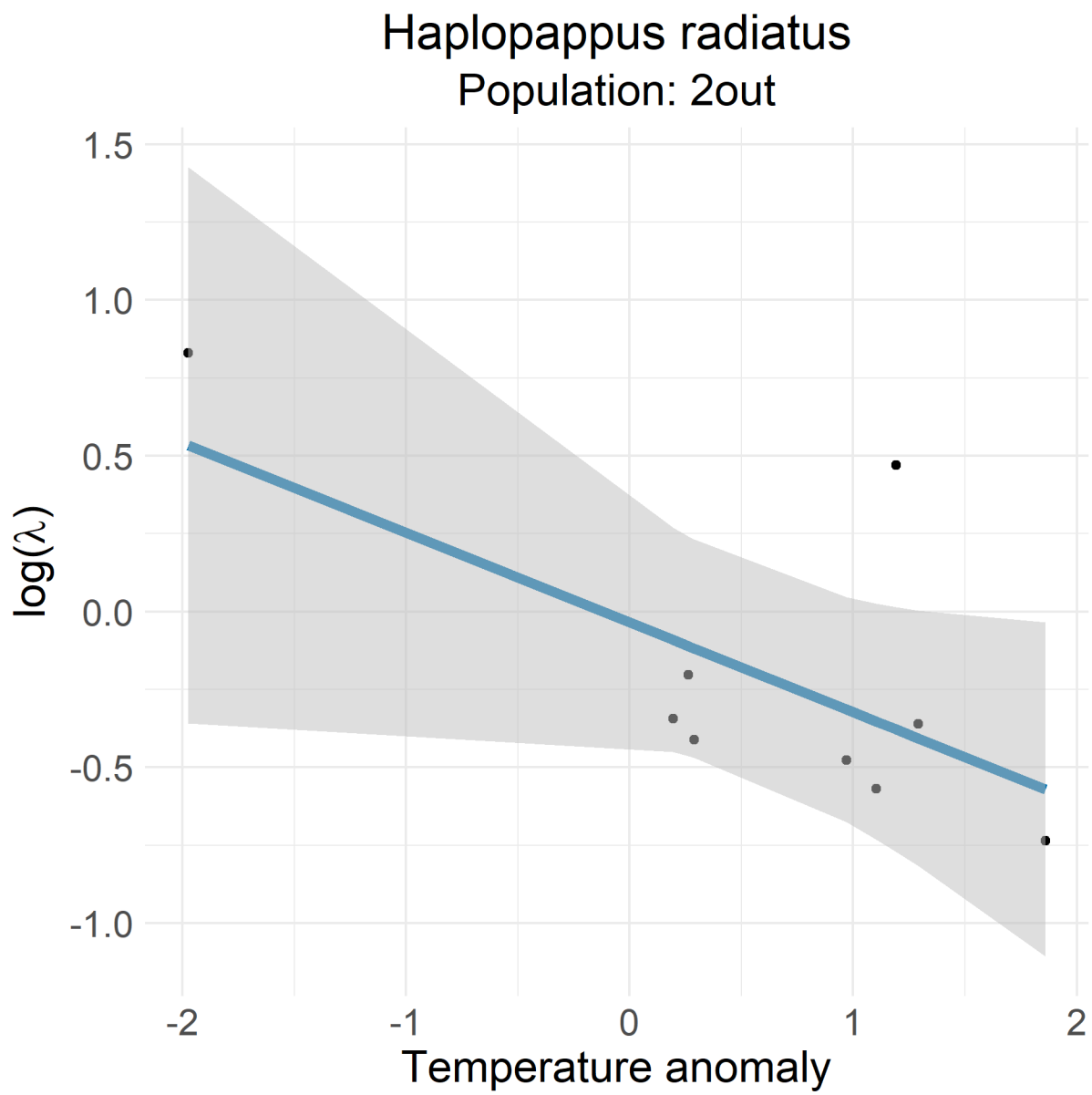


Figure 93: Haplopappus radiatus 2out

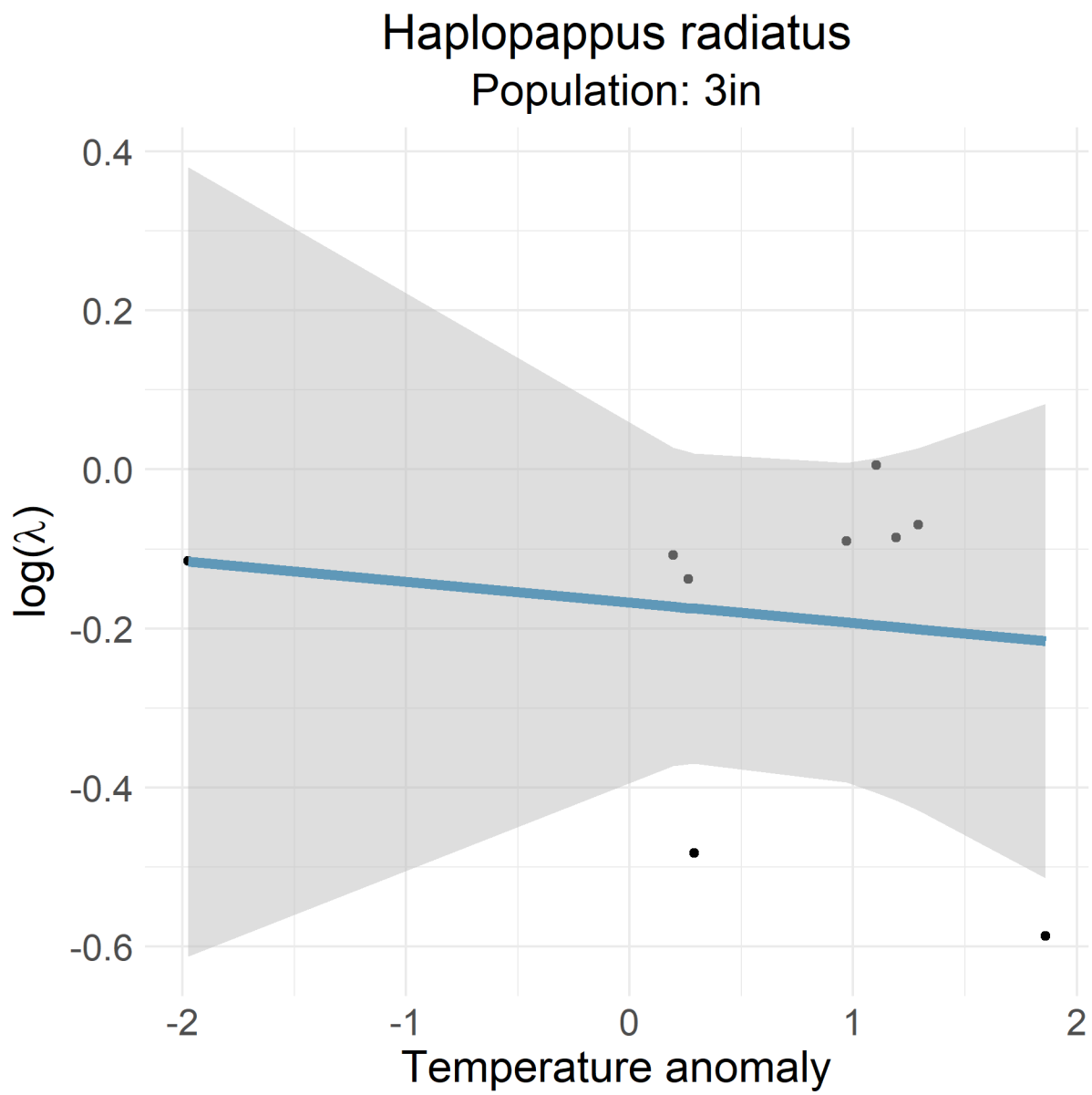


Figure 94: Haplopappus radiatus 3in

Haplopappus radiatus  
Population: 3out

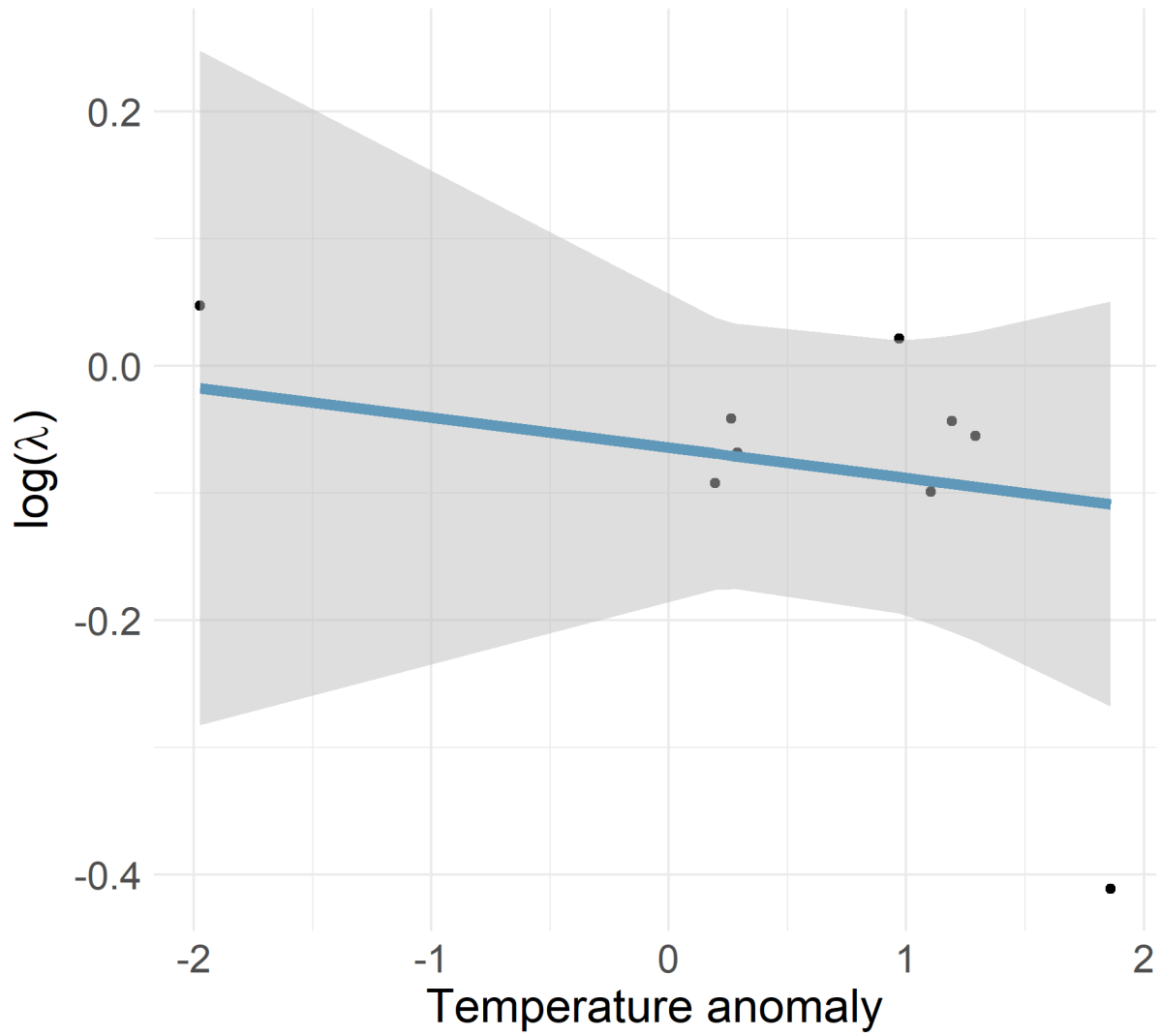


Figure 95: Haplopappus radiatus 3out

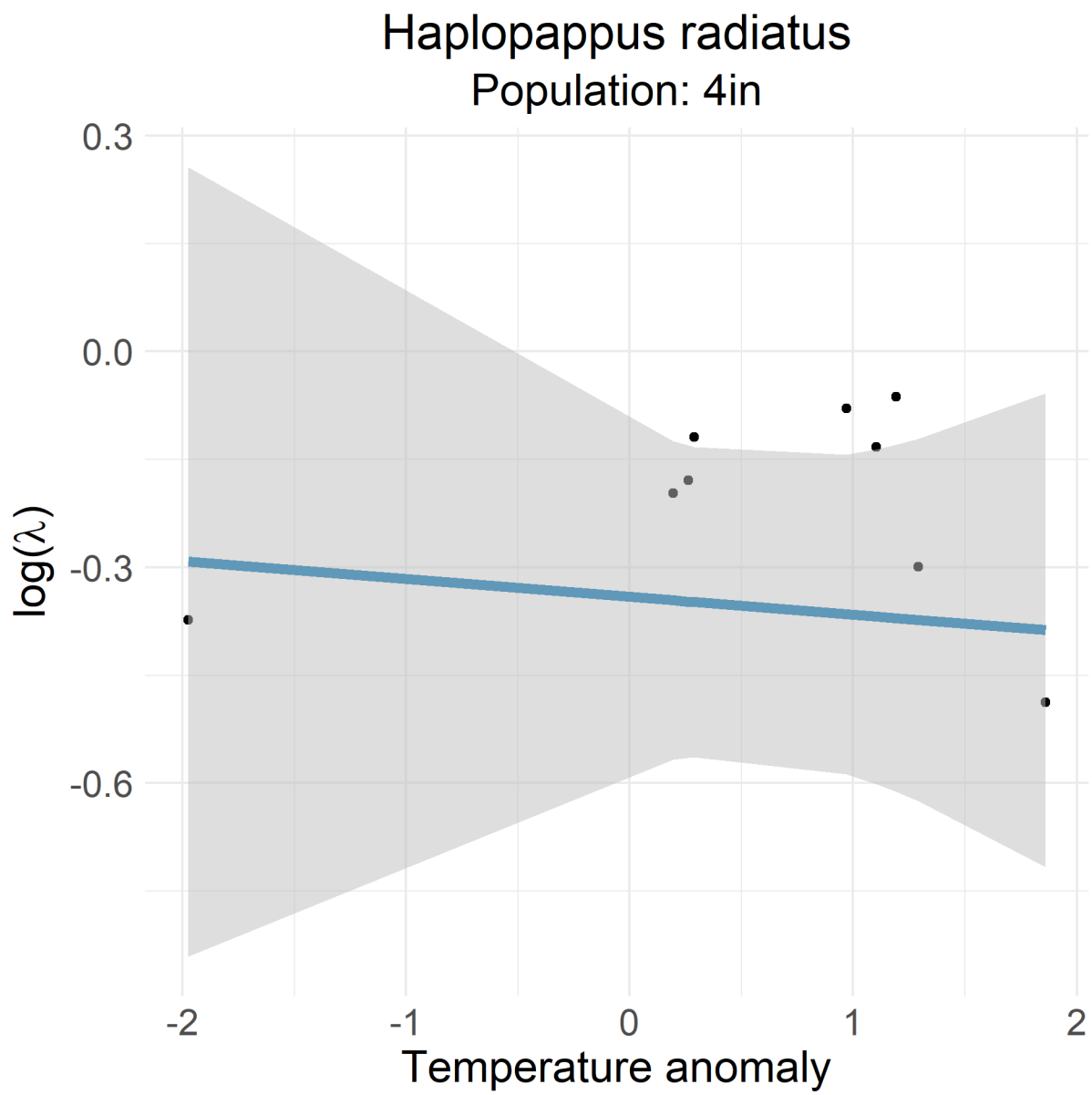


Figure 96: Haplopappus radiatus 4in

Haplopappus radiatus  
Population: 4out

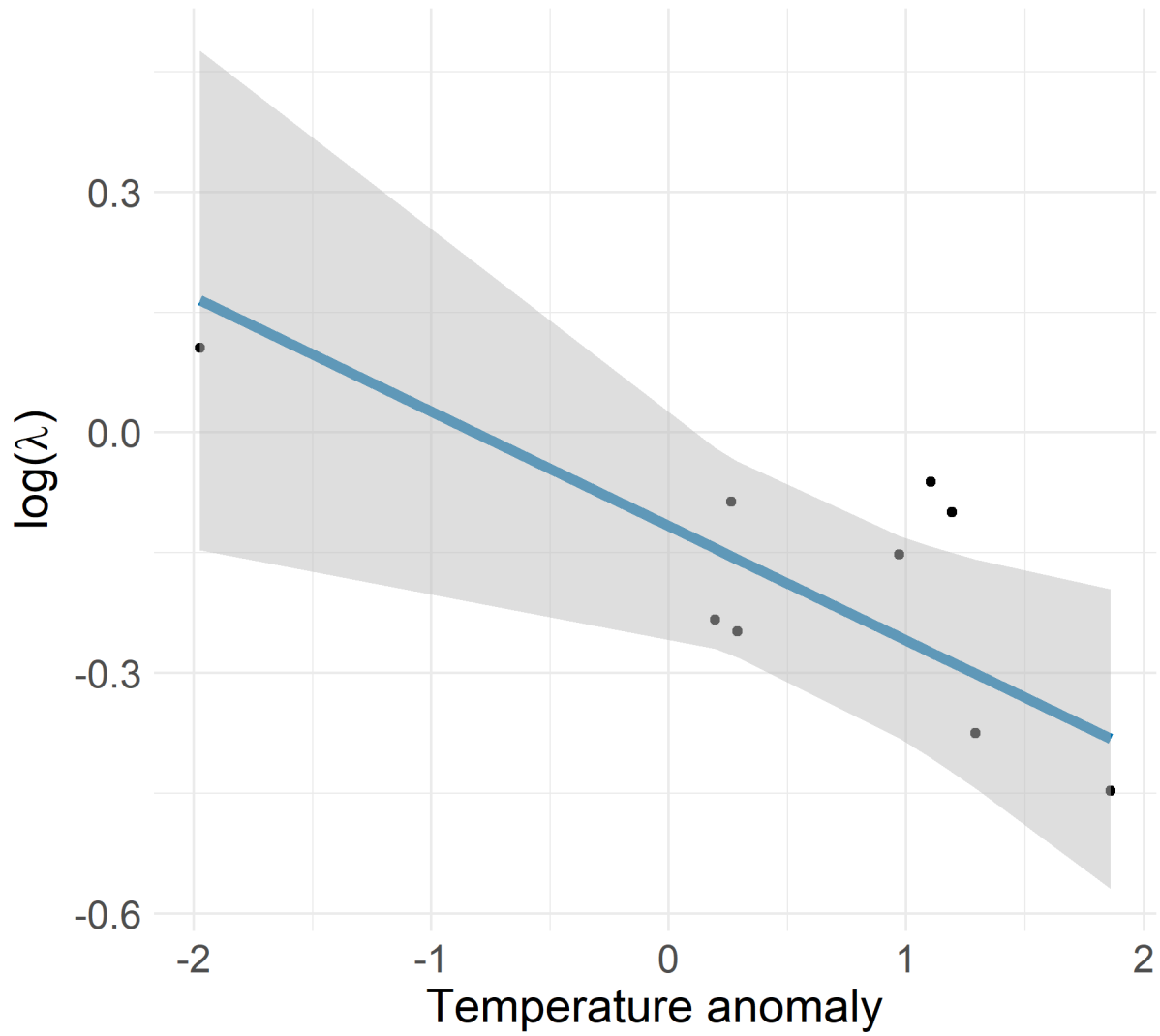


Figure 97: Haplopappus radiatus 4out

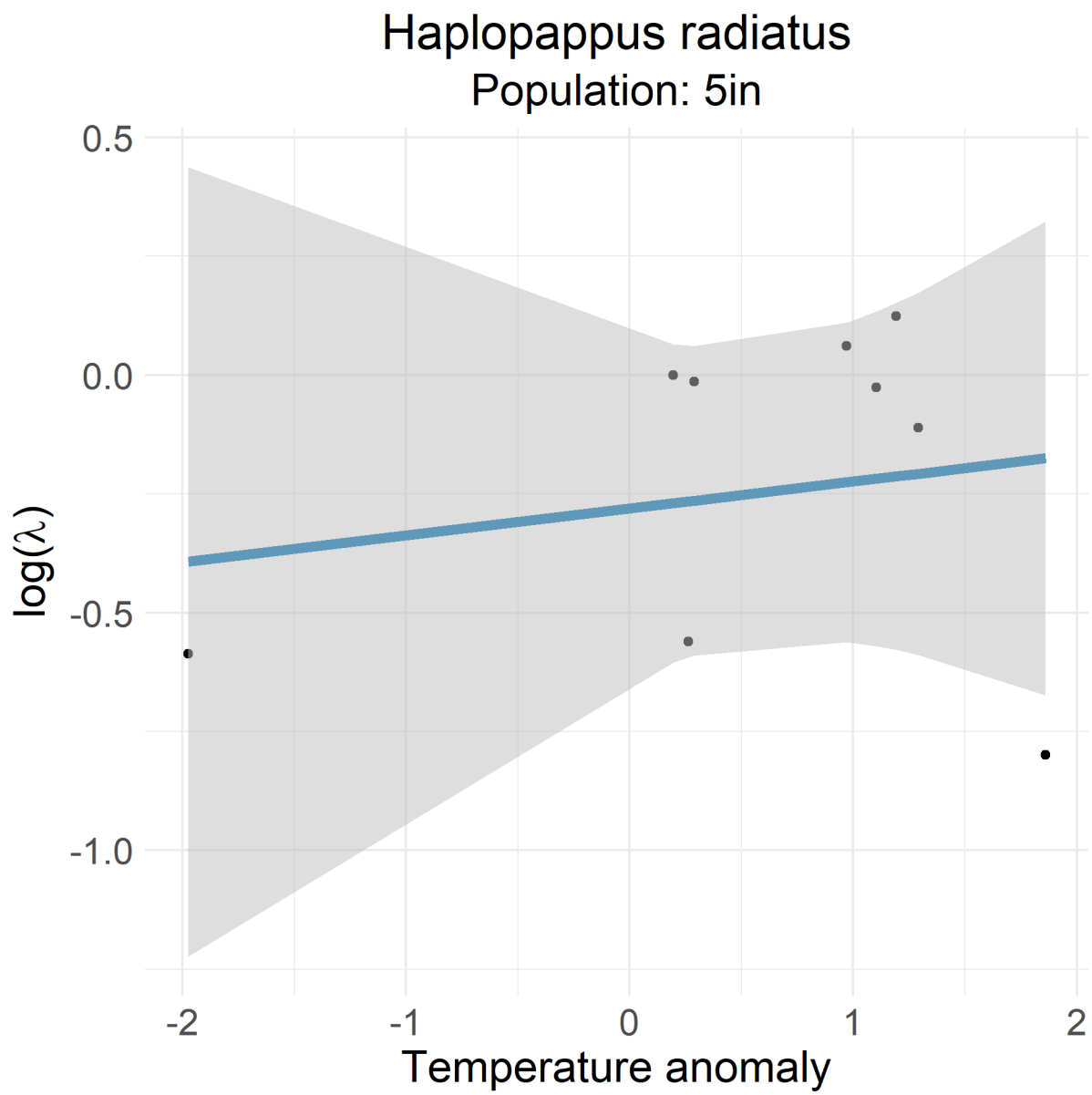


Figure 98: Haplopappus radiatus 5in



Haplopappus radiatus  
Population: 5out

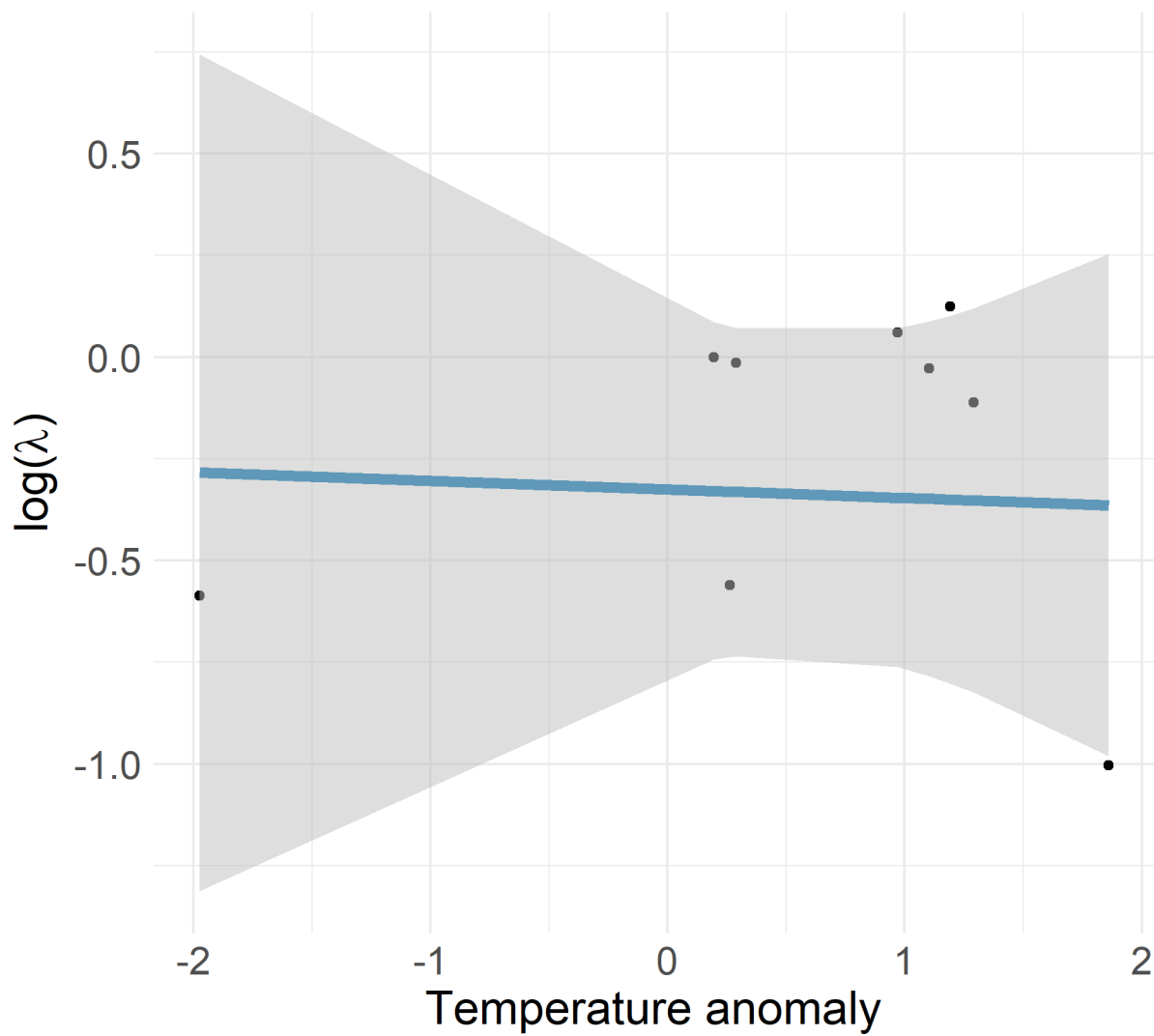


Figure 99: Haplopappus radiatus 5out

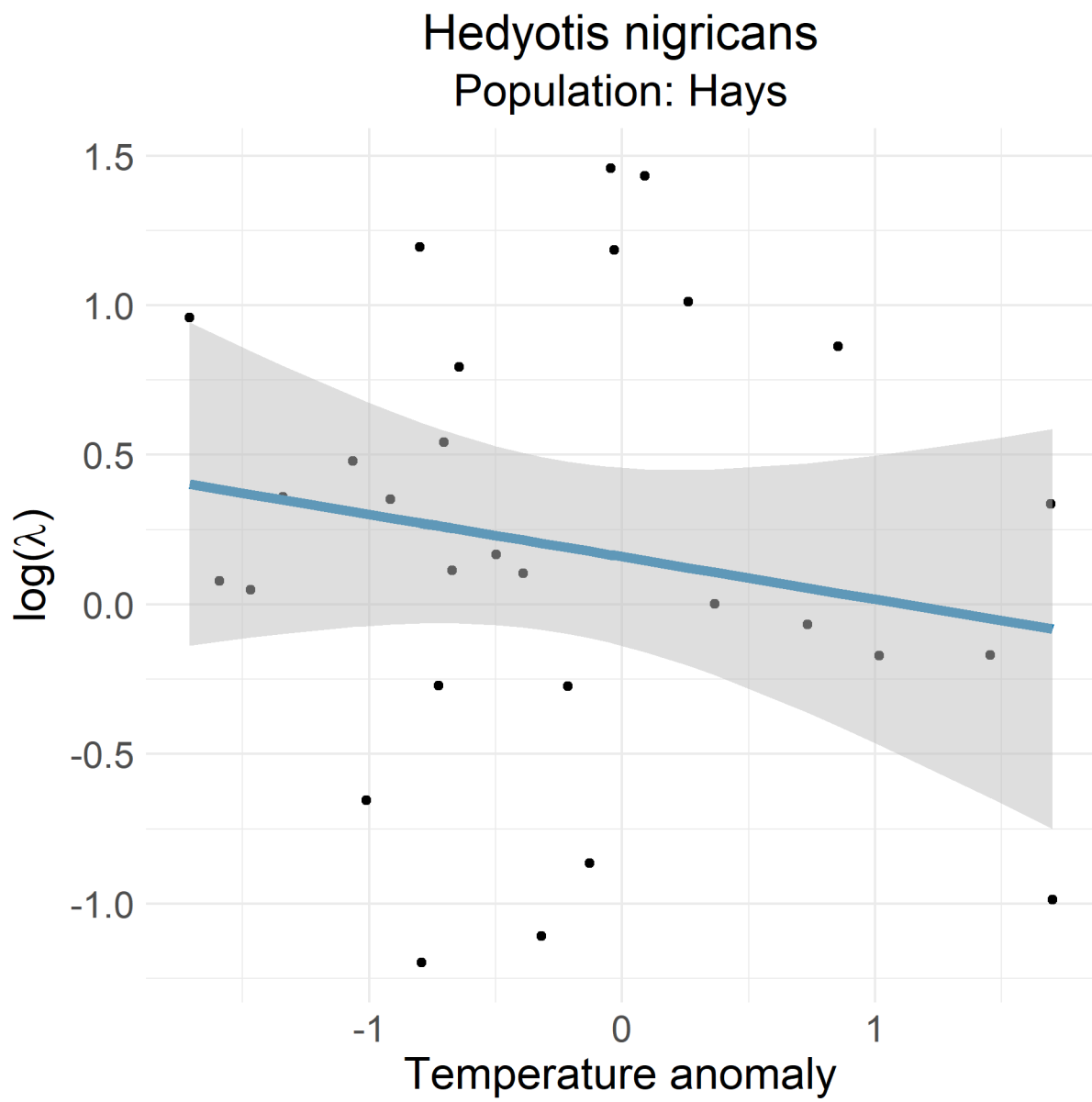


Figure 100: *Hedyotis nigricans* Hays

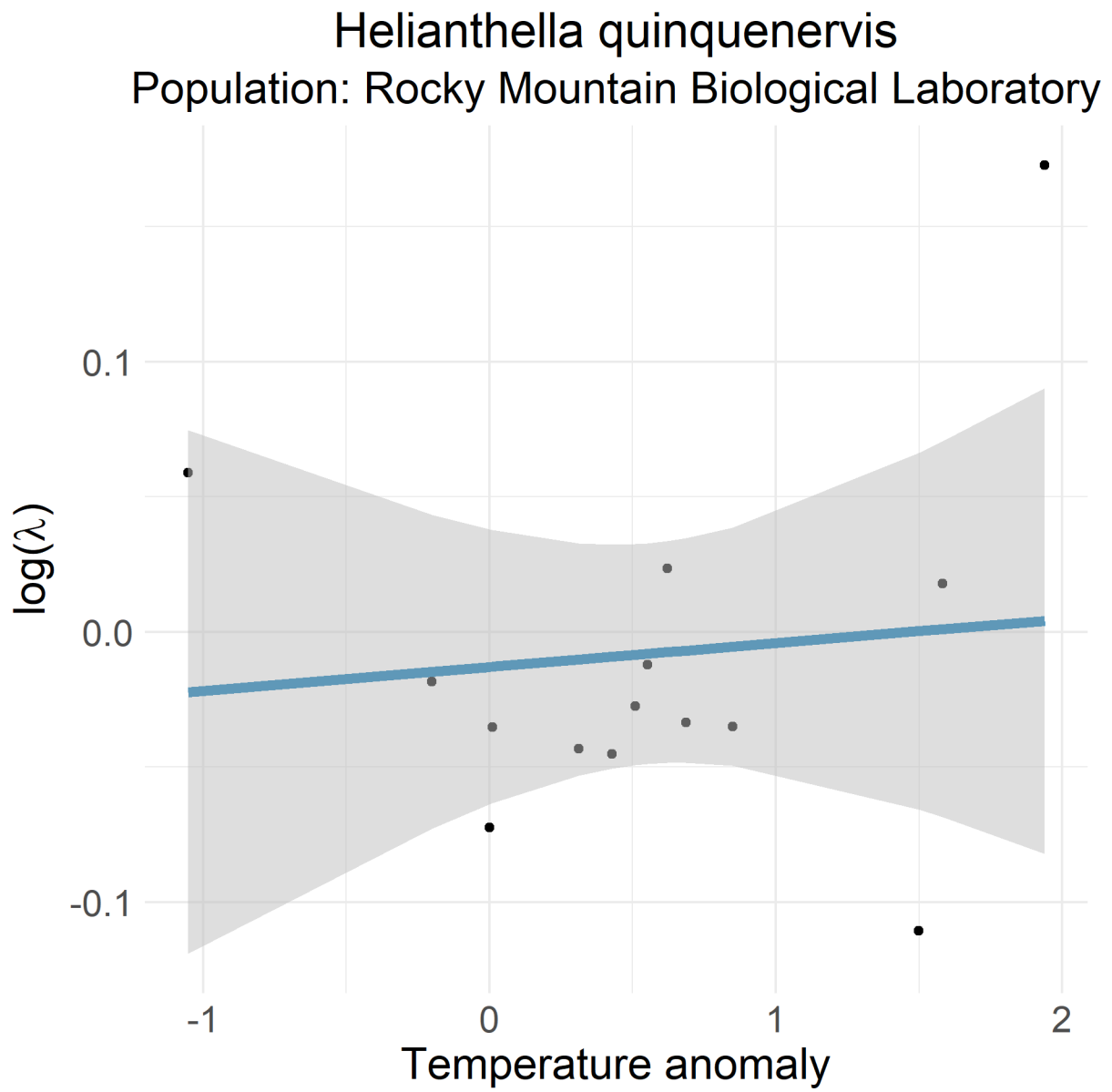


Figure 101: *Helianthella quinquenervis* Rocky Mountain Biological Laboratory

Helianthemum juliae  
Population: Teide National Park

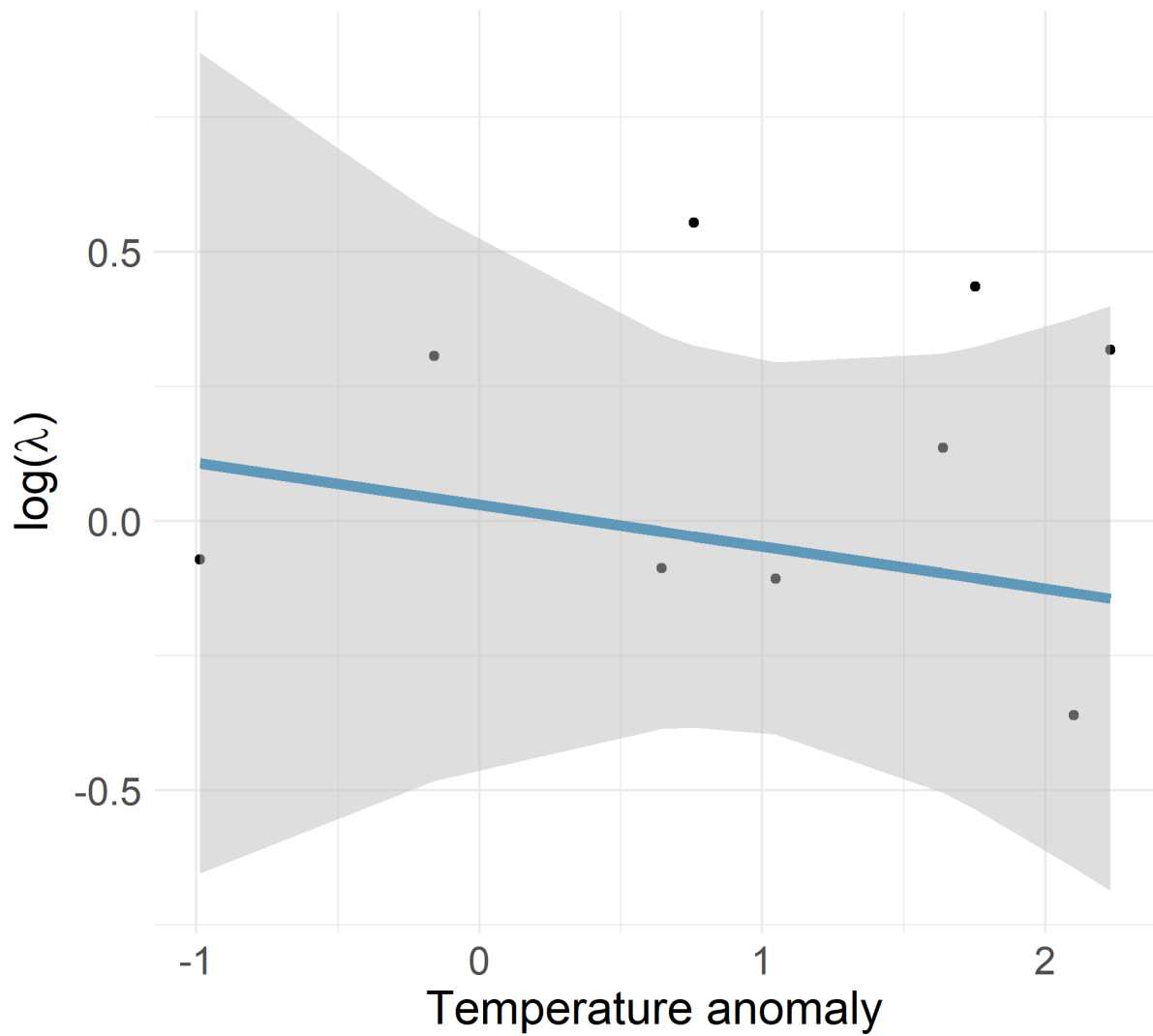


Figure 102: *Helianthemum juliae* Teide National Park

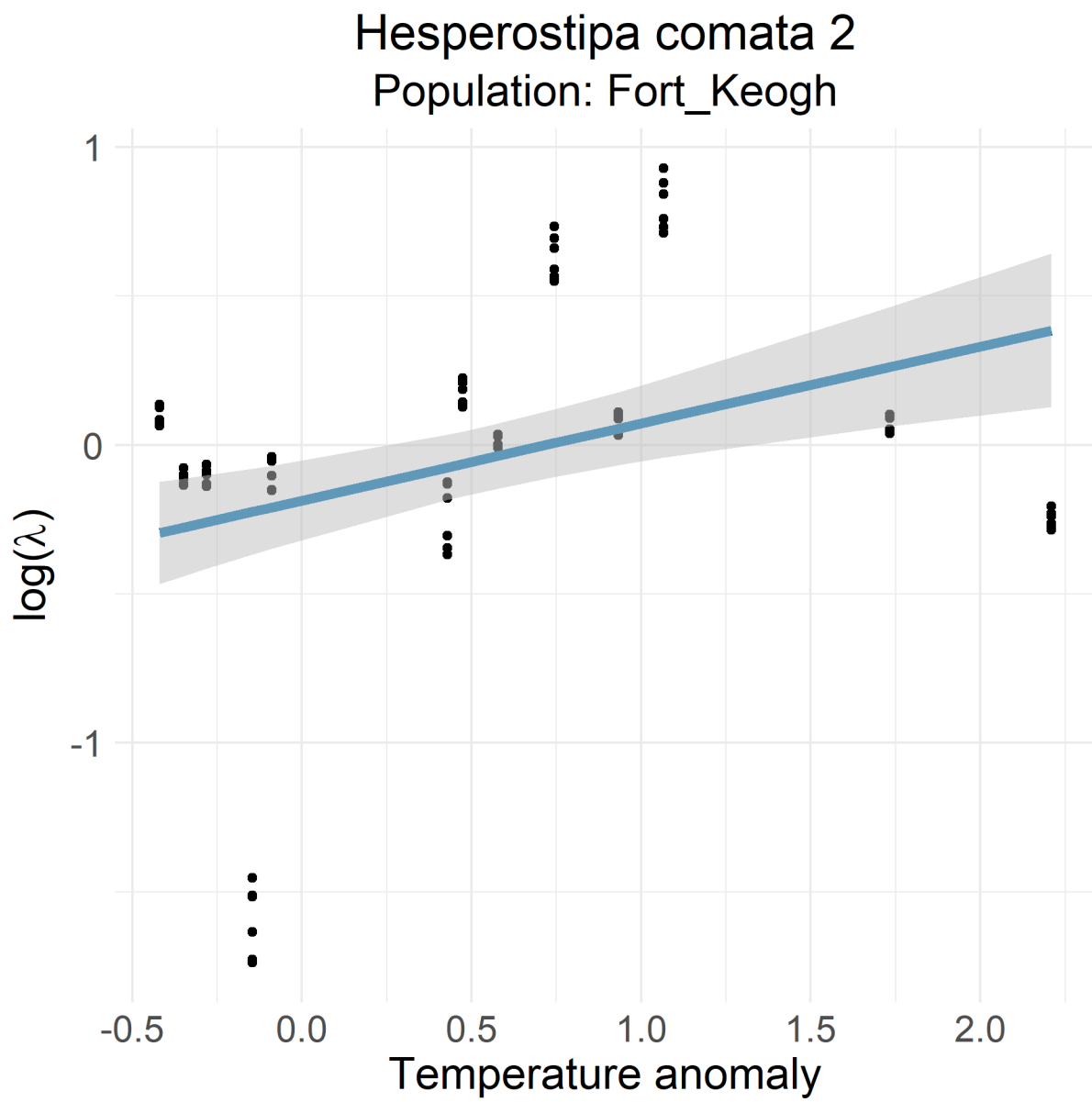


Figure 103: Hesperostipa comata 2 Fort Keogh

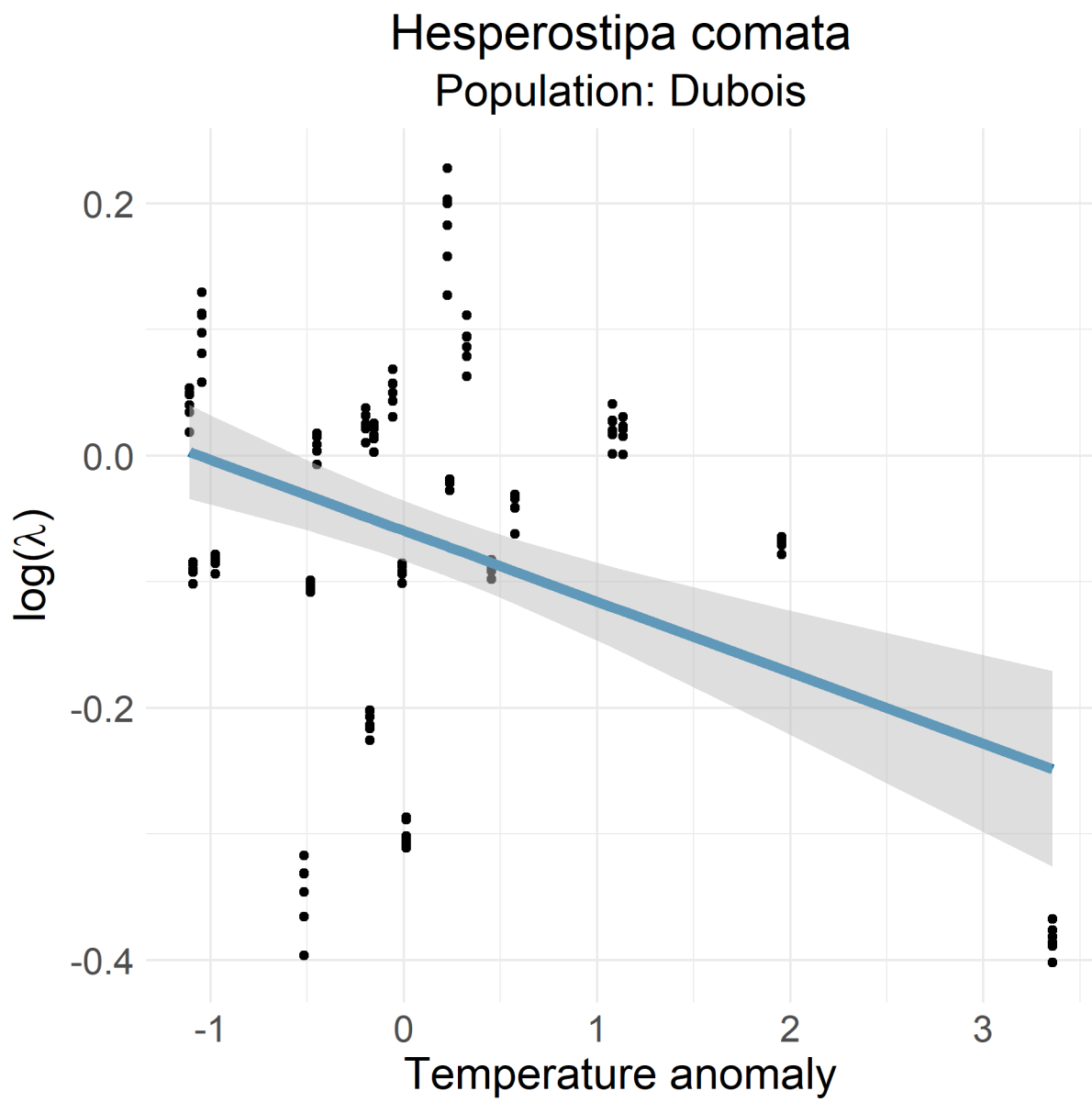


Figure 104: *Hesperostipa comata* Dubois

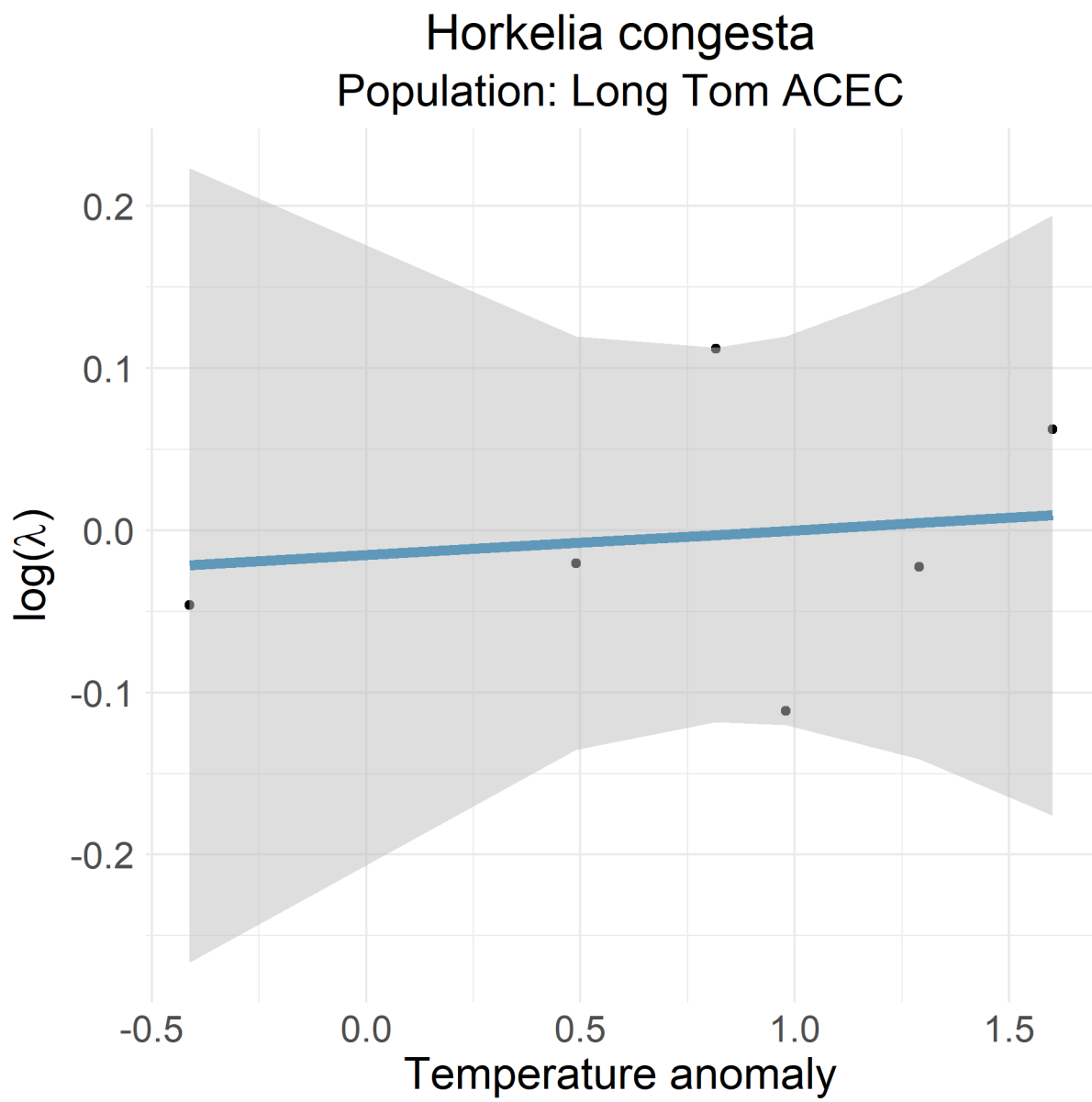


Figure 105: *Horkelia congesta* Long Tom ACEC

Kosteletzkya pentacarpus  
Population: Ricarda lagoon

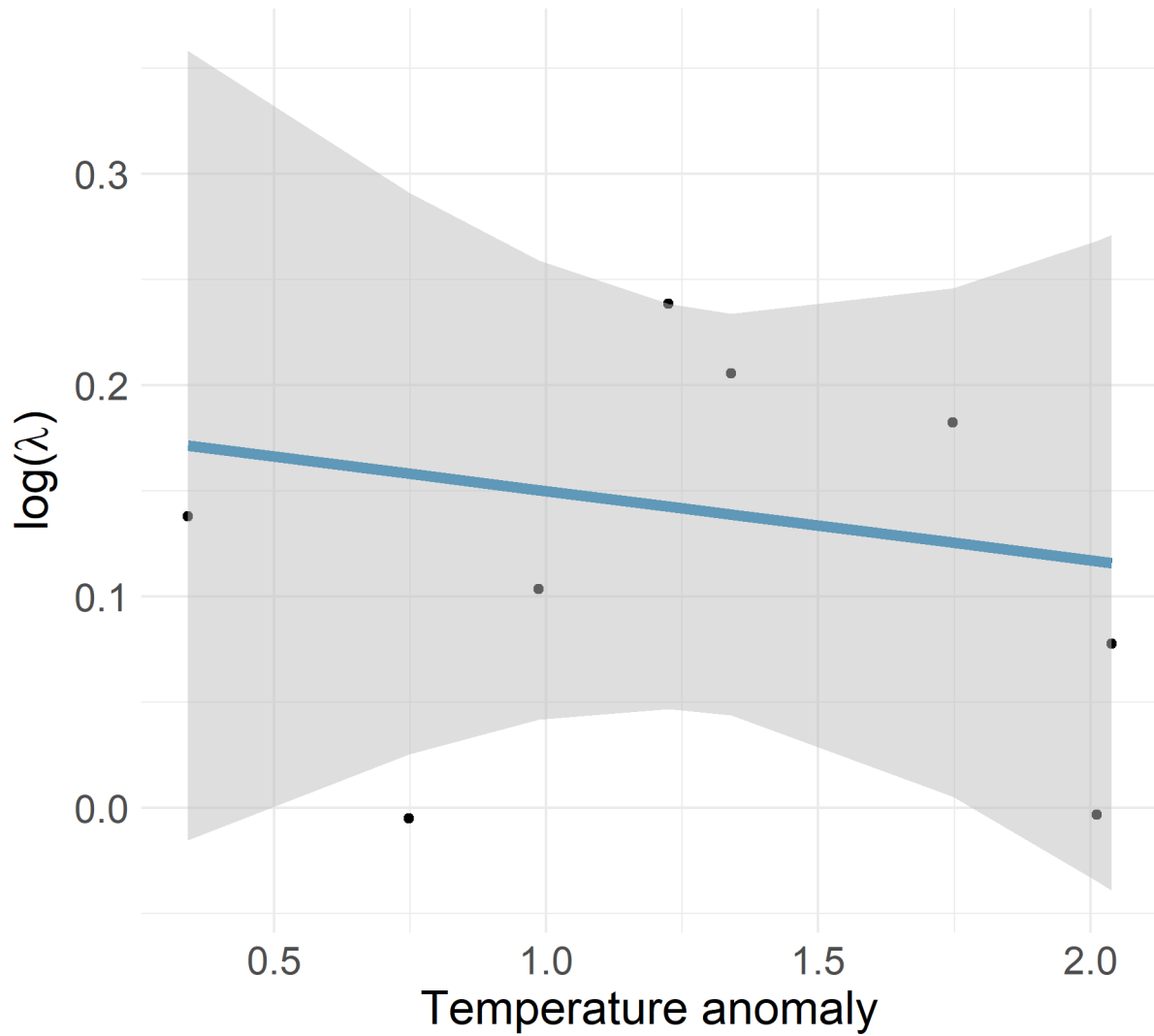


Figure 106: *Kosteletzkya pentacarpus* Ricarda lagoon



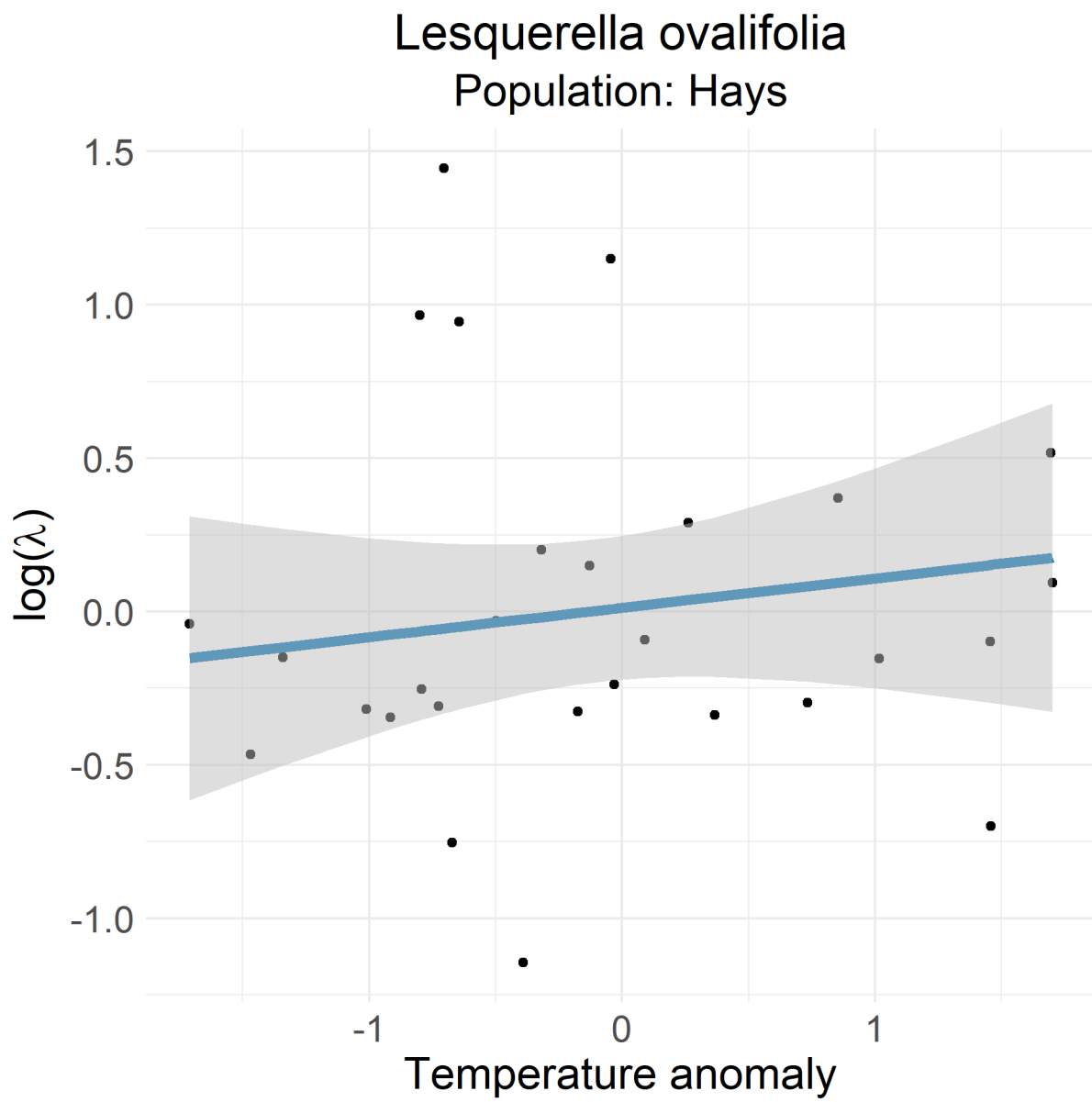


Figure 107: *Lesquerella ovalifolia* Hays

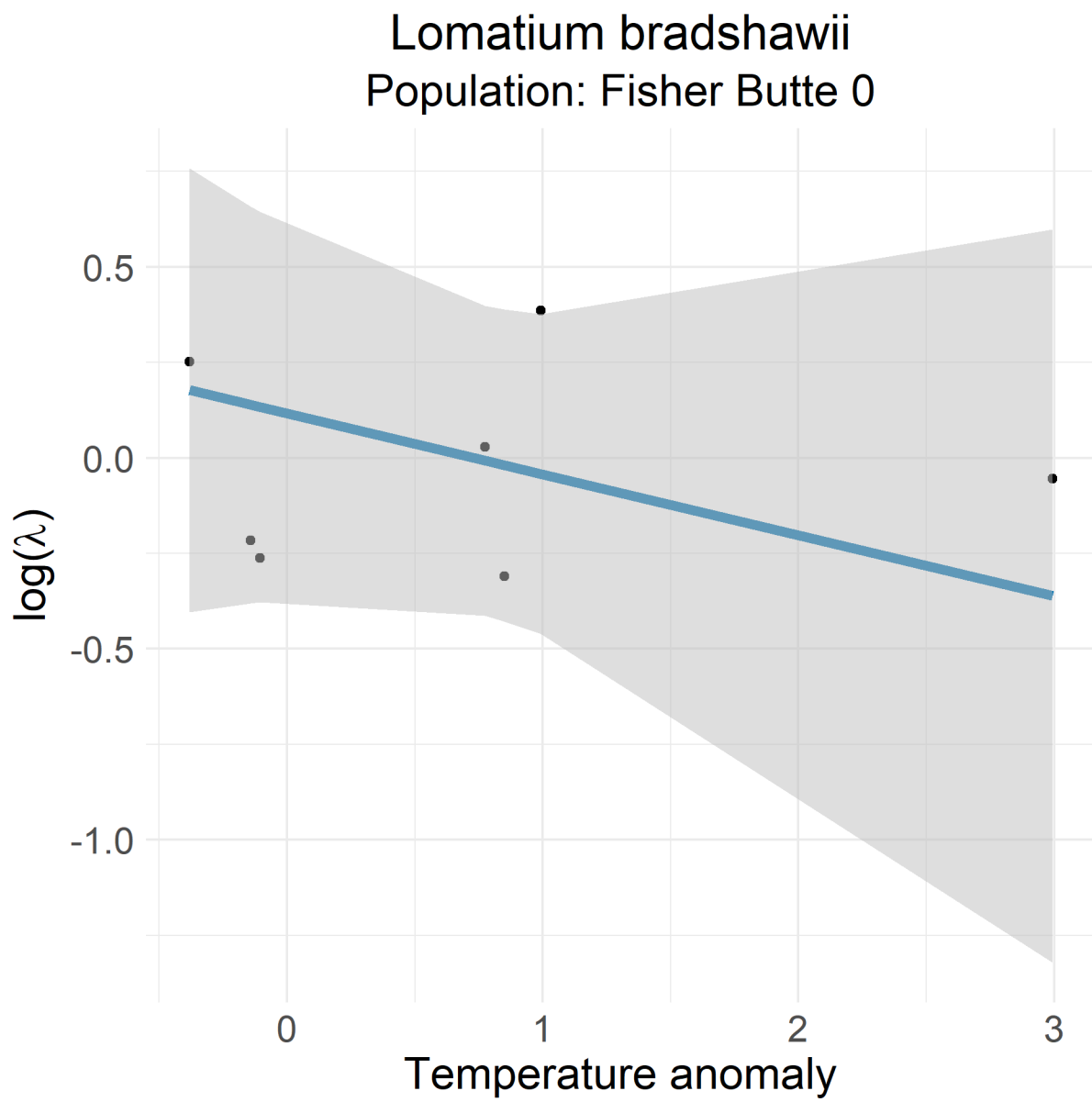


Figure 108: *Lomatium bradshawii* Fisher Butte 0

Lomatium bradshawii  
Population: Fisher Butte 1

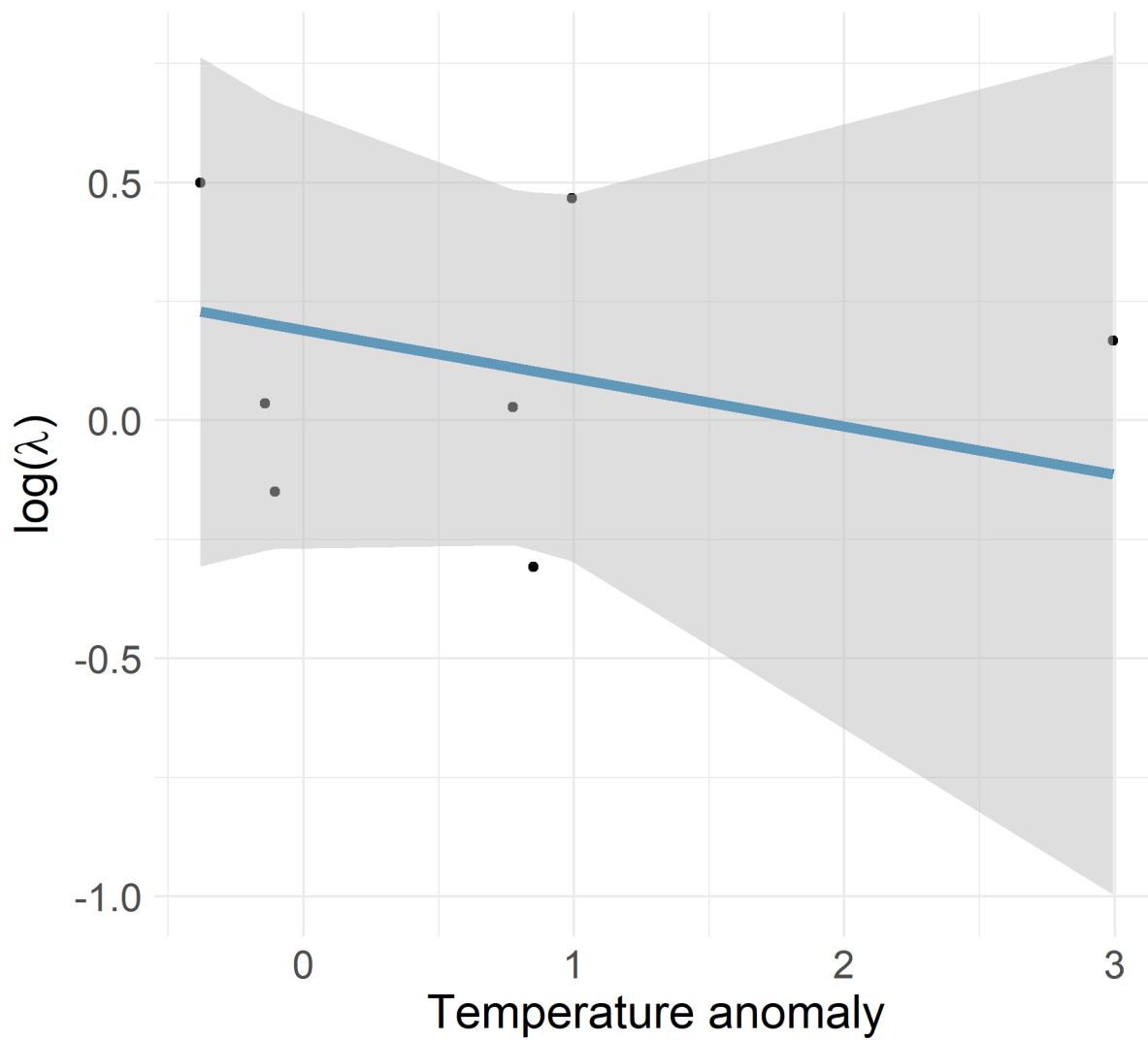


Figure 109: Lomatium bradshawii Fisher Butte 1

Lomatium bradshawii  
Population: Fisher Butte 2

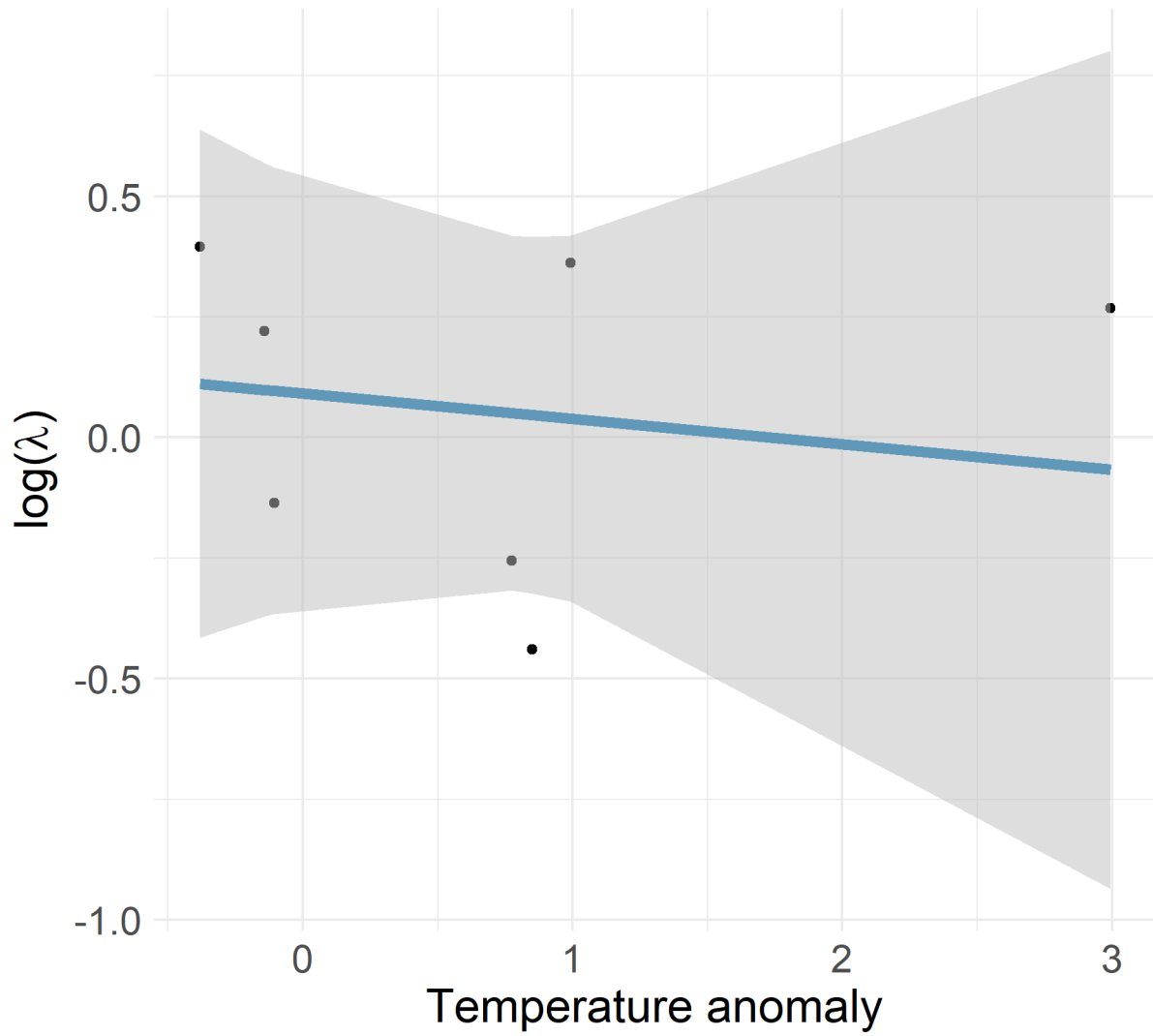


Figure 110: Lomatium bradshawii Fisher Butte 2

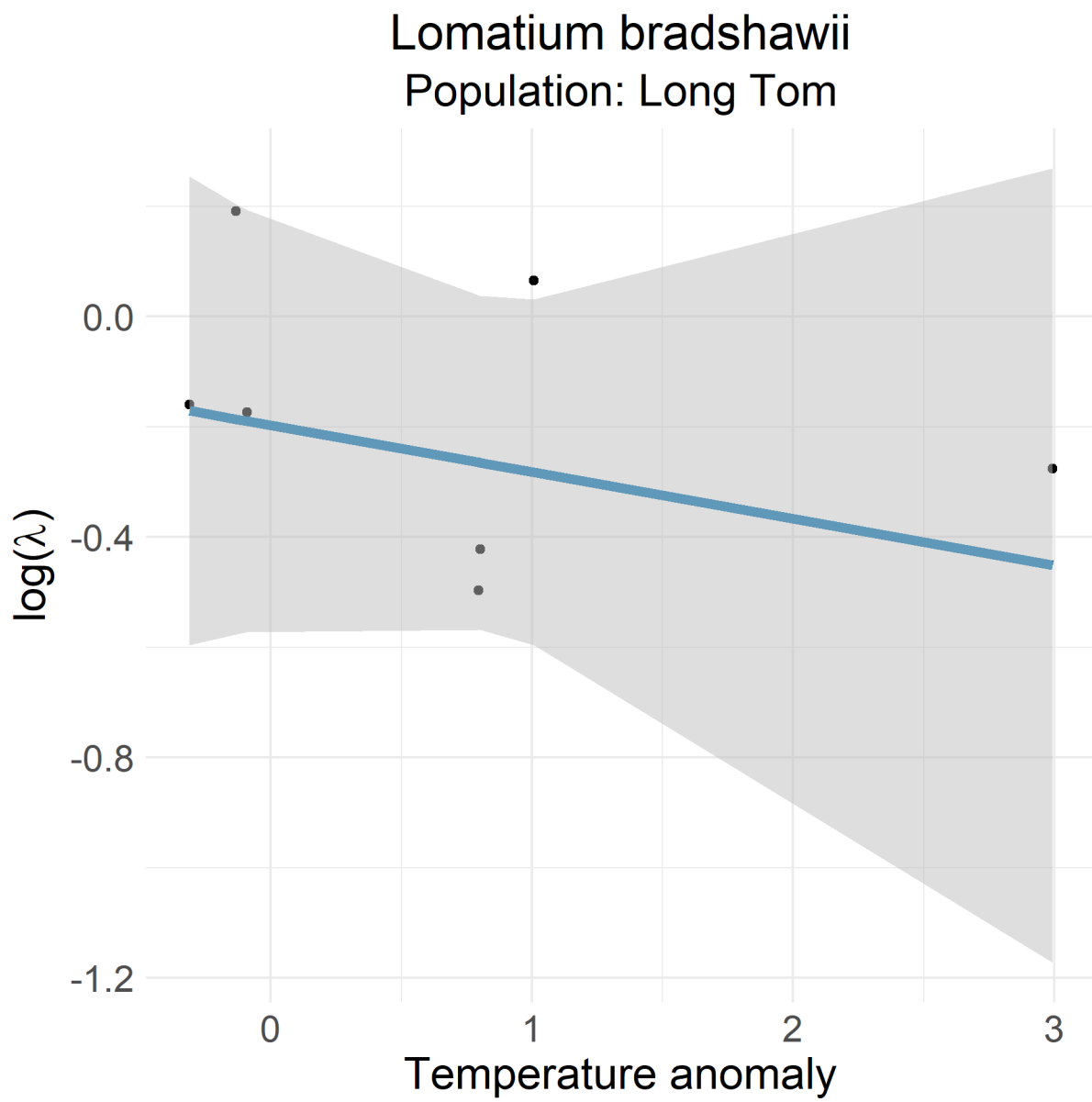


Figure 111: *Lomatium bradshawii* Long Tom

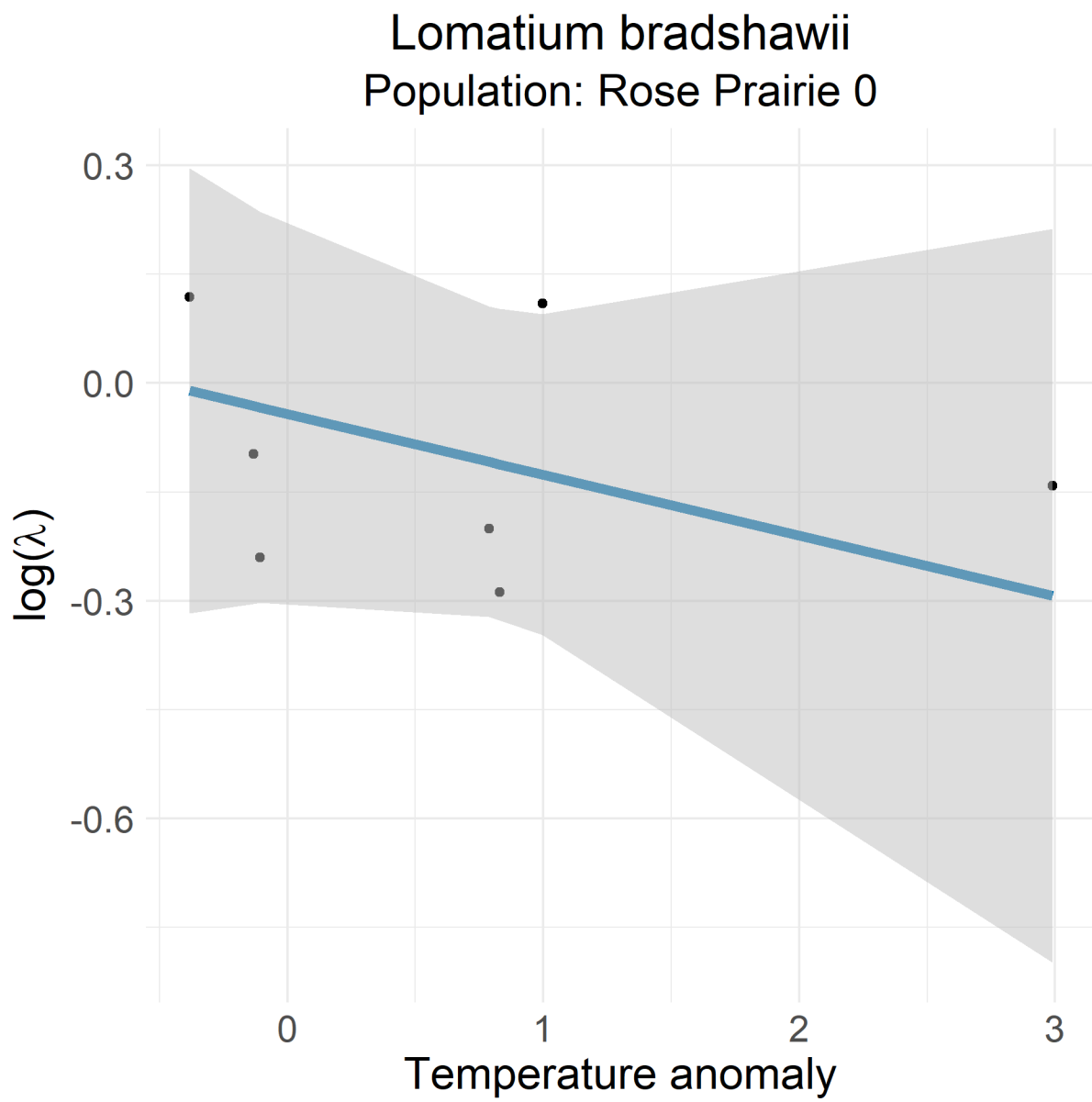


Figure 112: *Lomatium bradshawii* Rose Prairie 0

*Lomatium bradshawii*  
Population: Rose Prairie 1

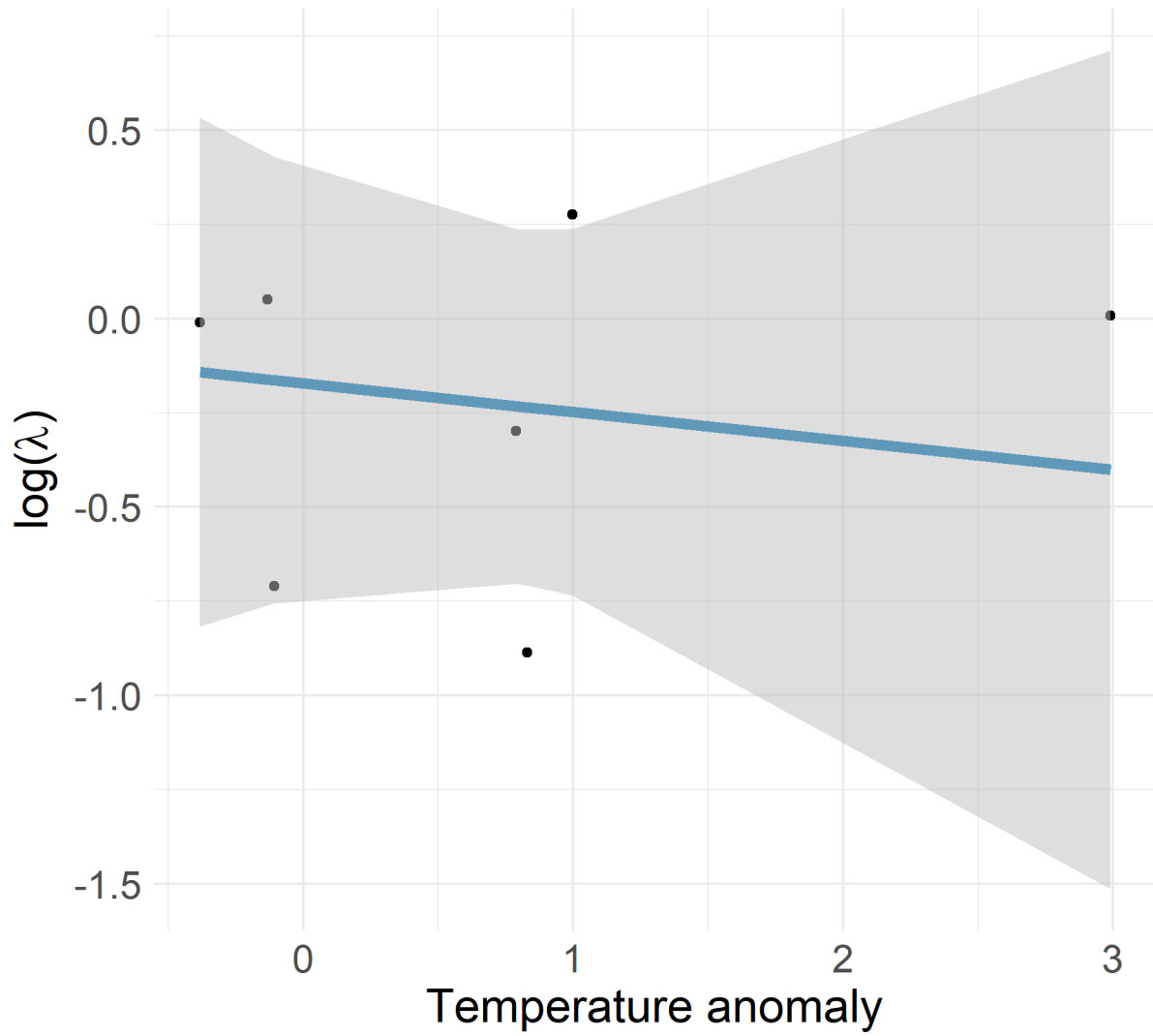


Figure 113: *Lomatium bradshawii* Rose Prairie 1

*Lomatium bradshawii*  
Population: Rose Prairie 2

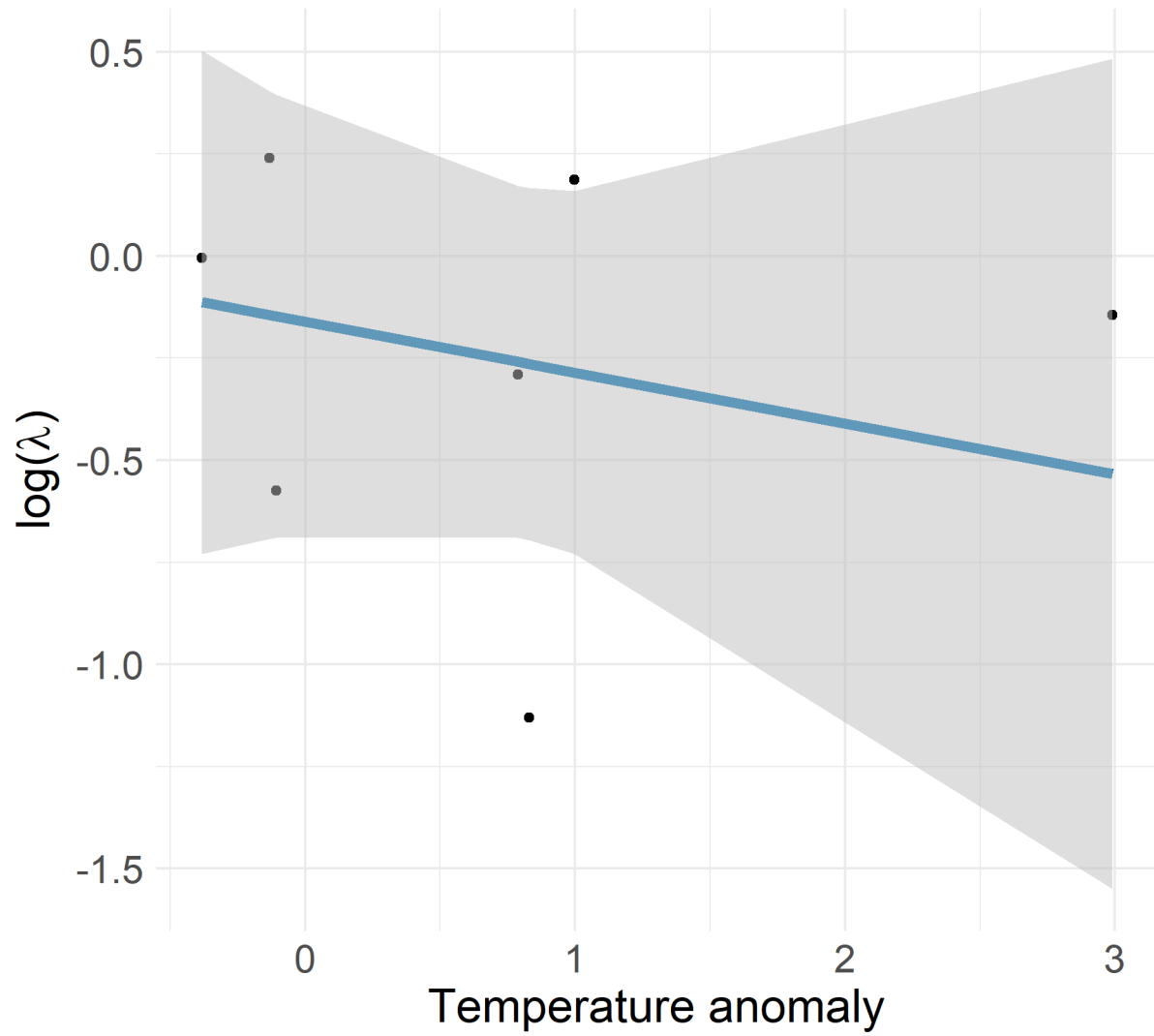


Figure 114: *Lomatium bradshawii* Rose Prairie 2



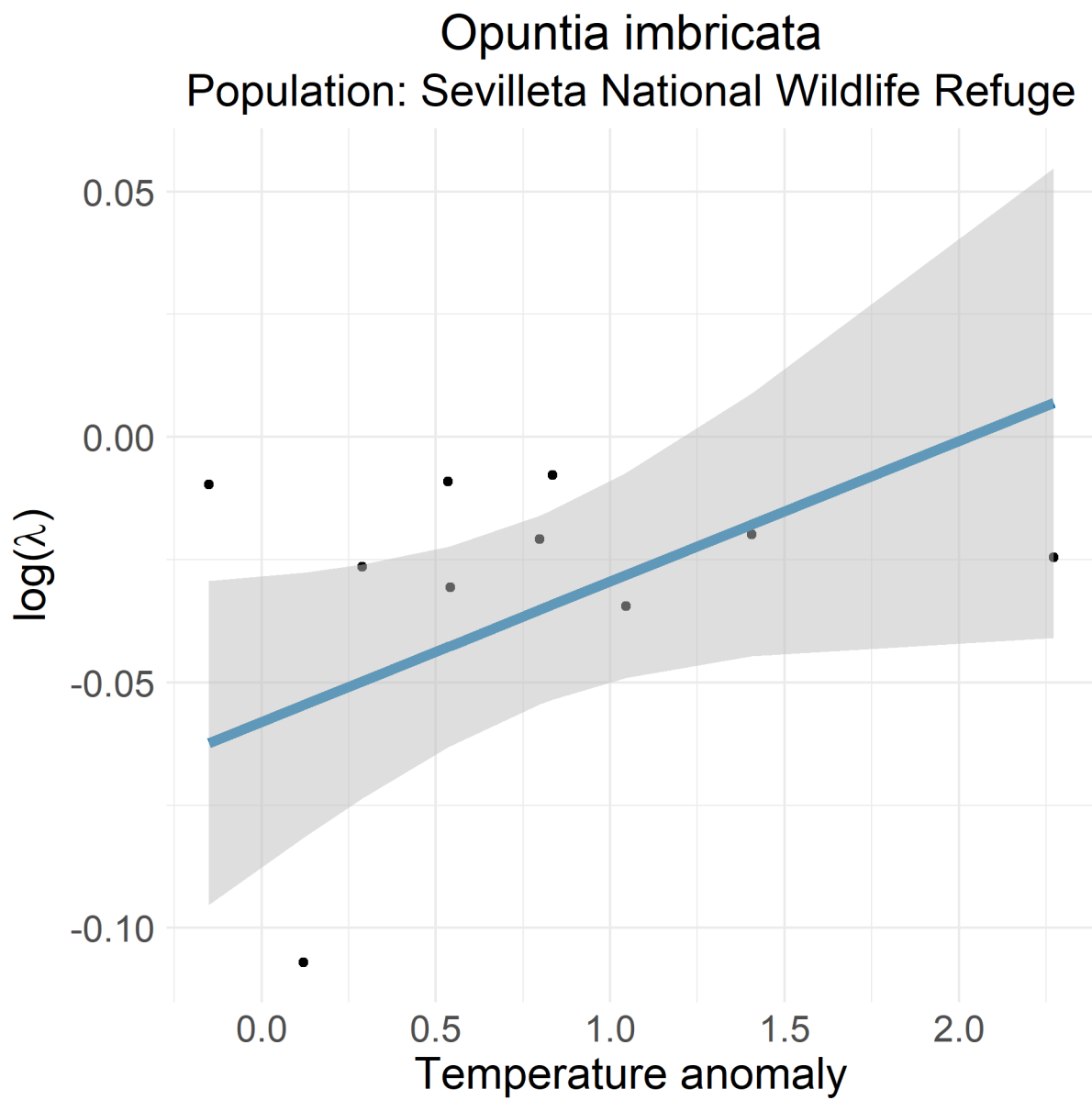


Figure 115: *Opuntia imbricata* Sevilleta National Wildlife Refuge

Opuntia macrorhiza 2  
Population: Plot 52

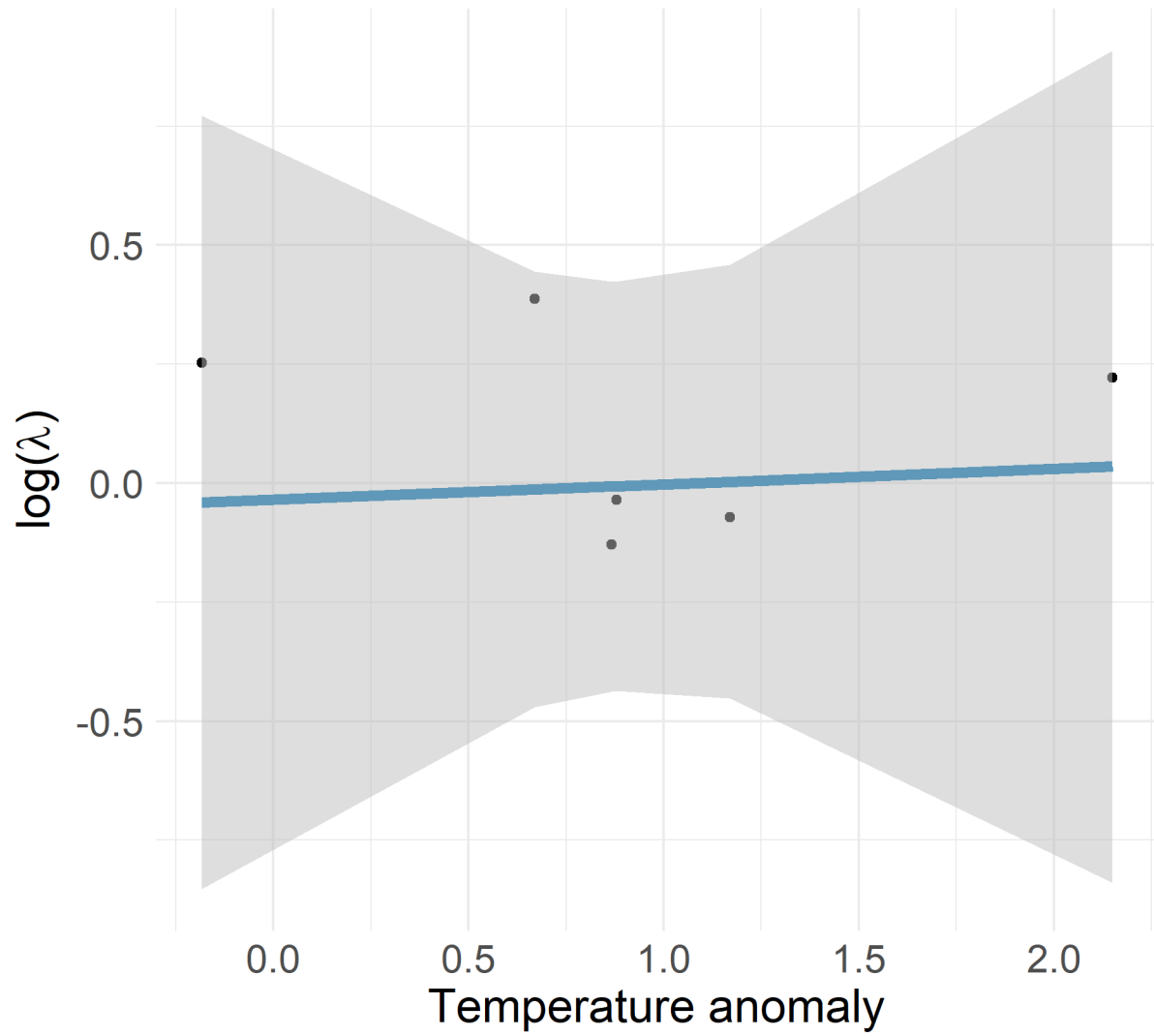


Figure 116: Opuntia macrorhiza 2 Plot 52

Opuntia macrorhiza 2  
Population: Plot 57

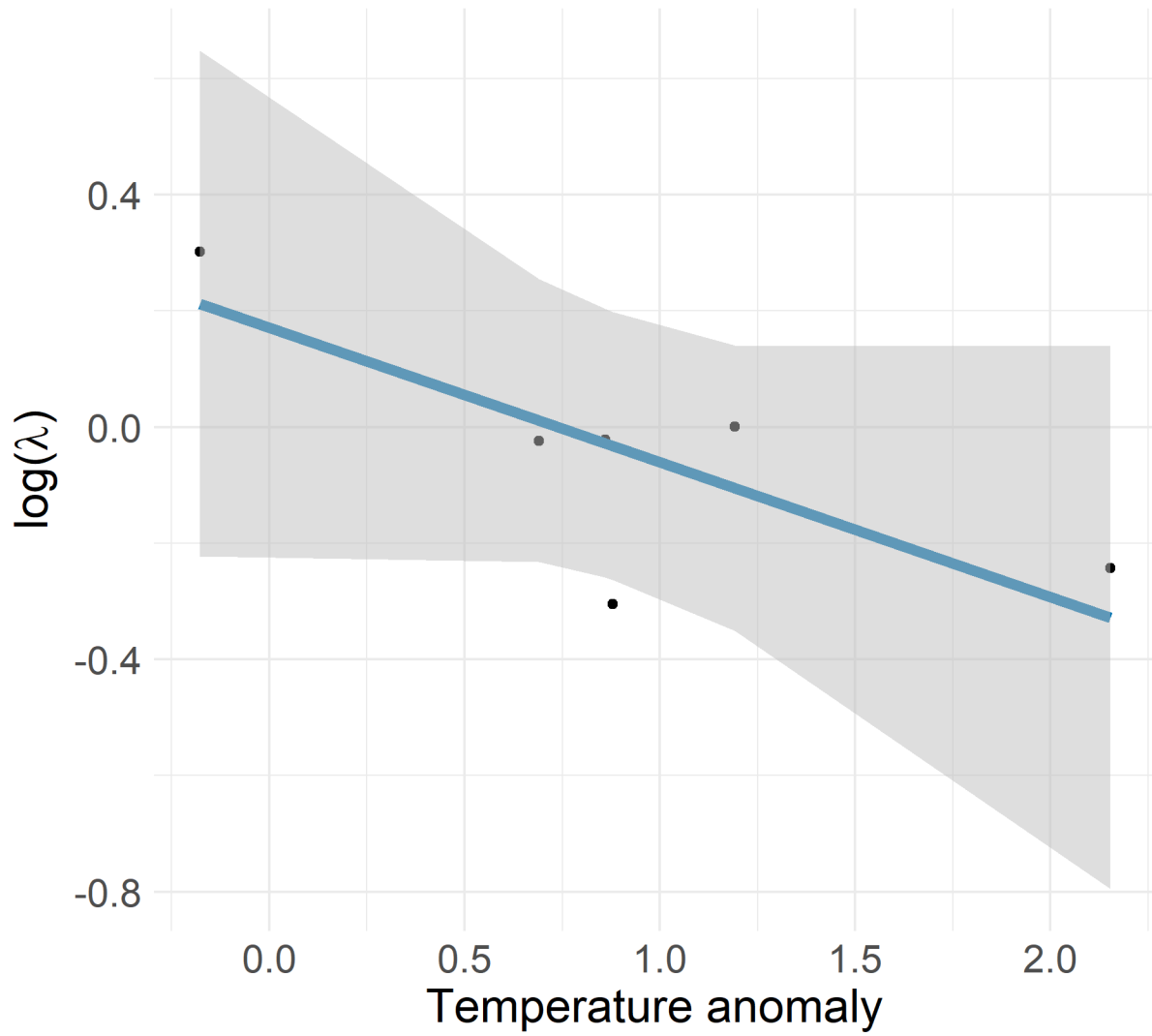


Figure 117: Opuntia macrorhiza 2 Plot 57

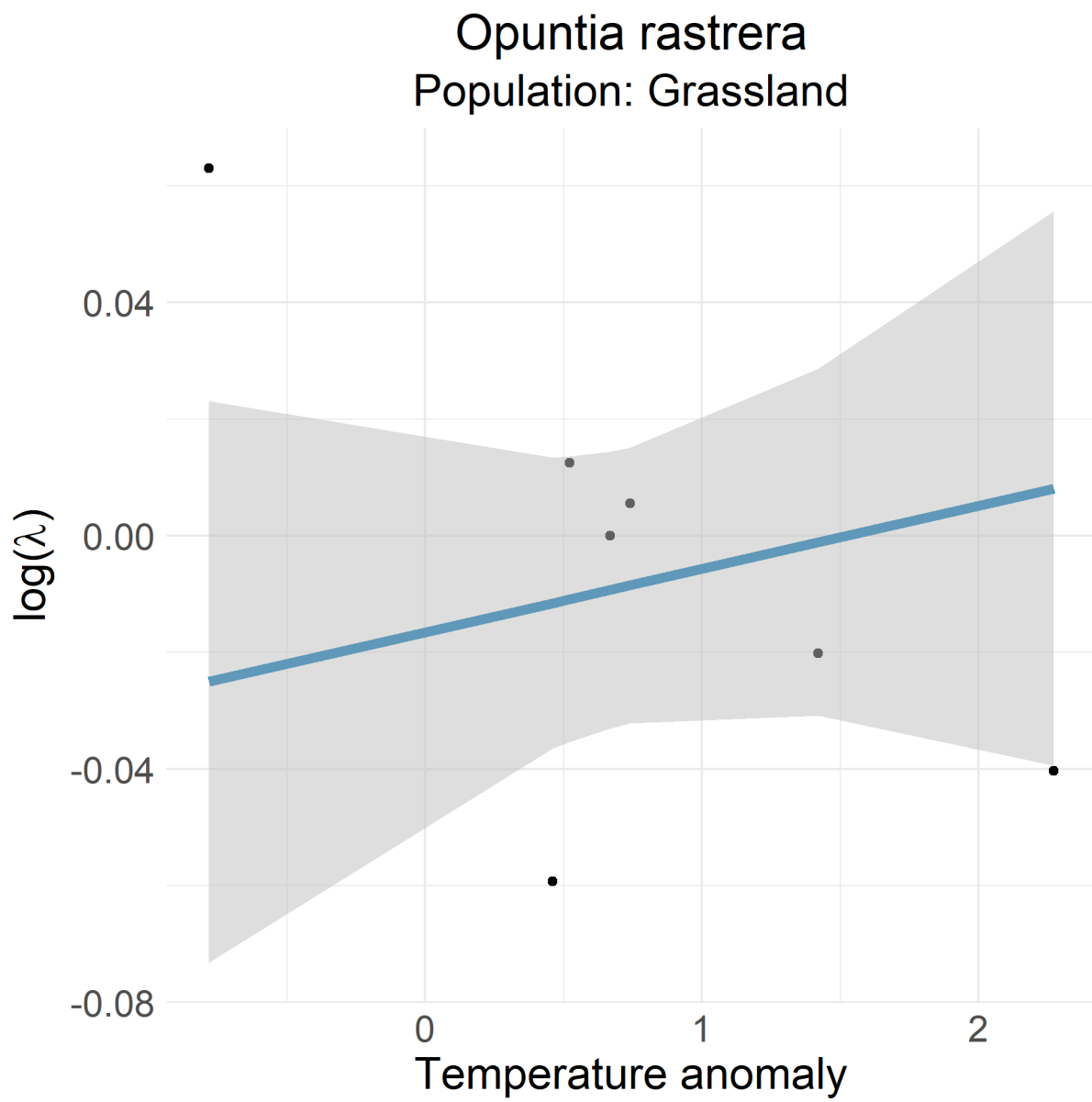


Figure 118: *Opuntia rastrera* Grassland

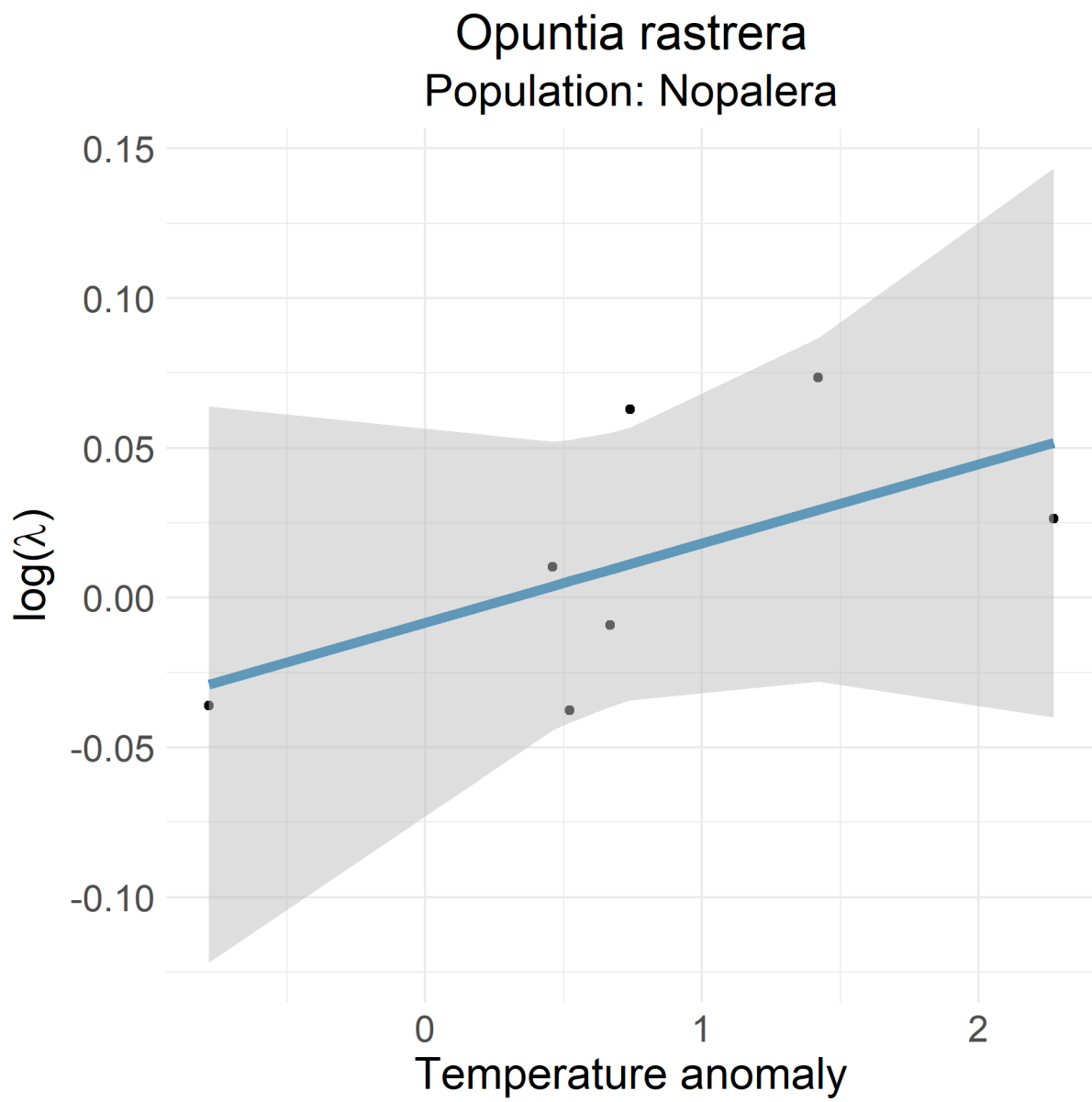


Figure 119: *Opuntia rastrera* Nopalera

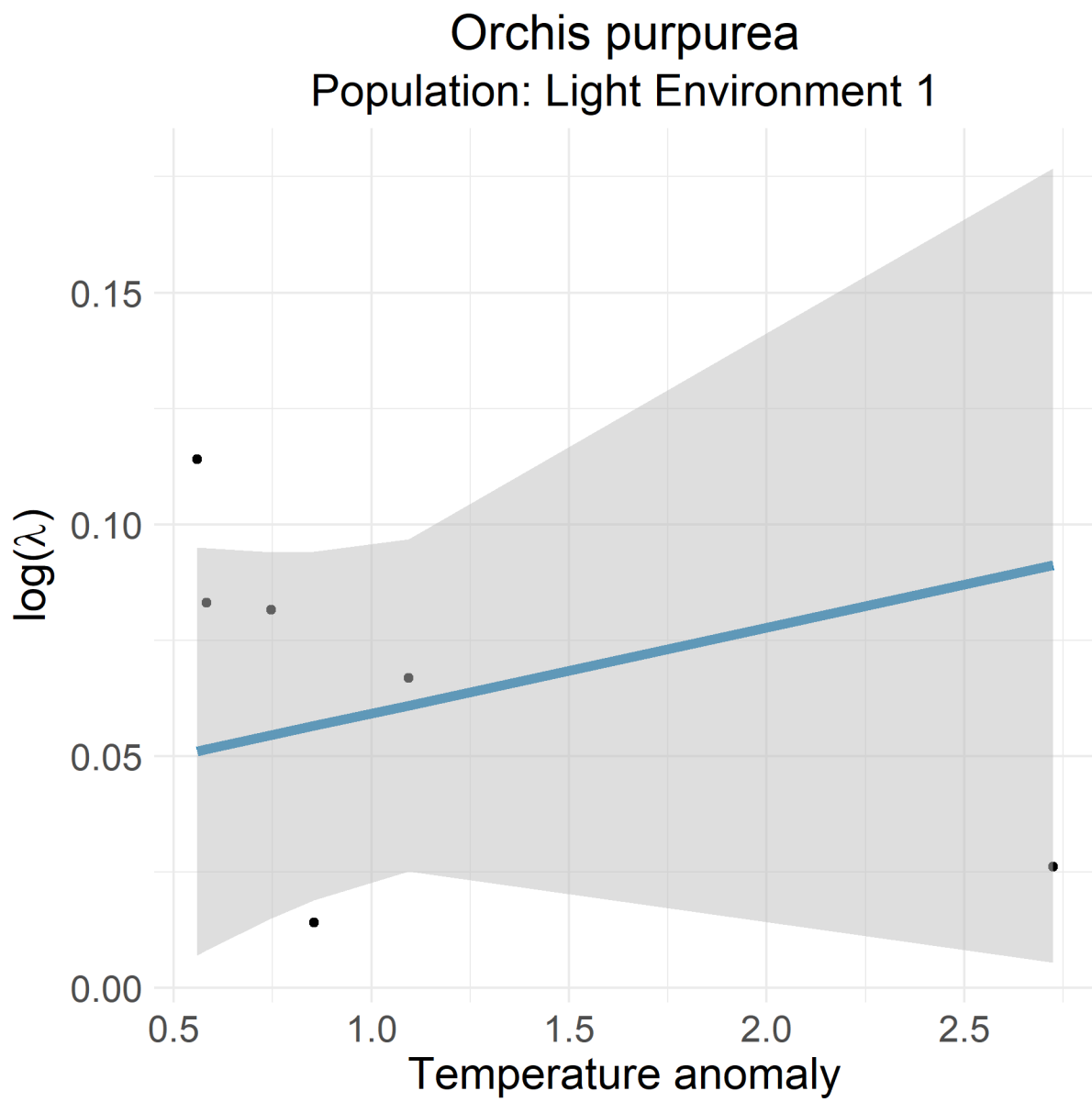


Figure 120: *Orchis purpurea* Light Environment 1

Orchis purpurea  
Population: Light Environment 2

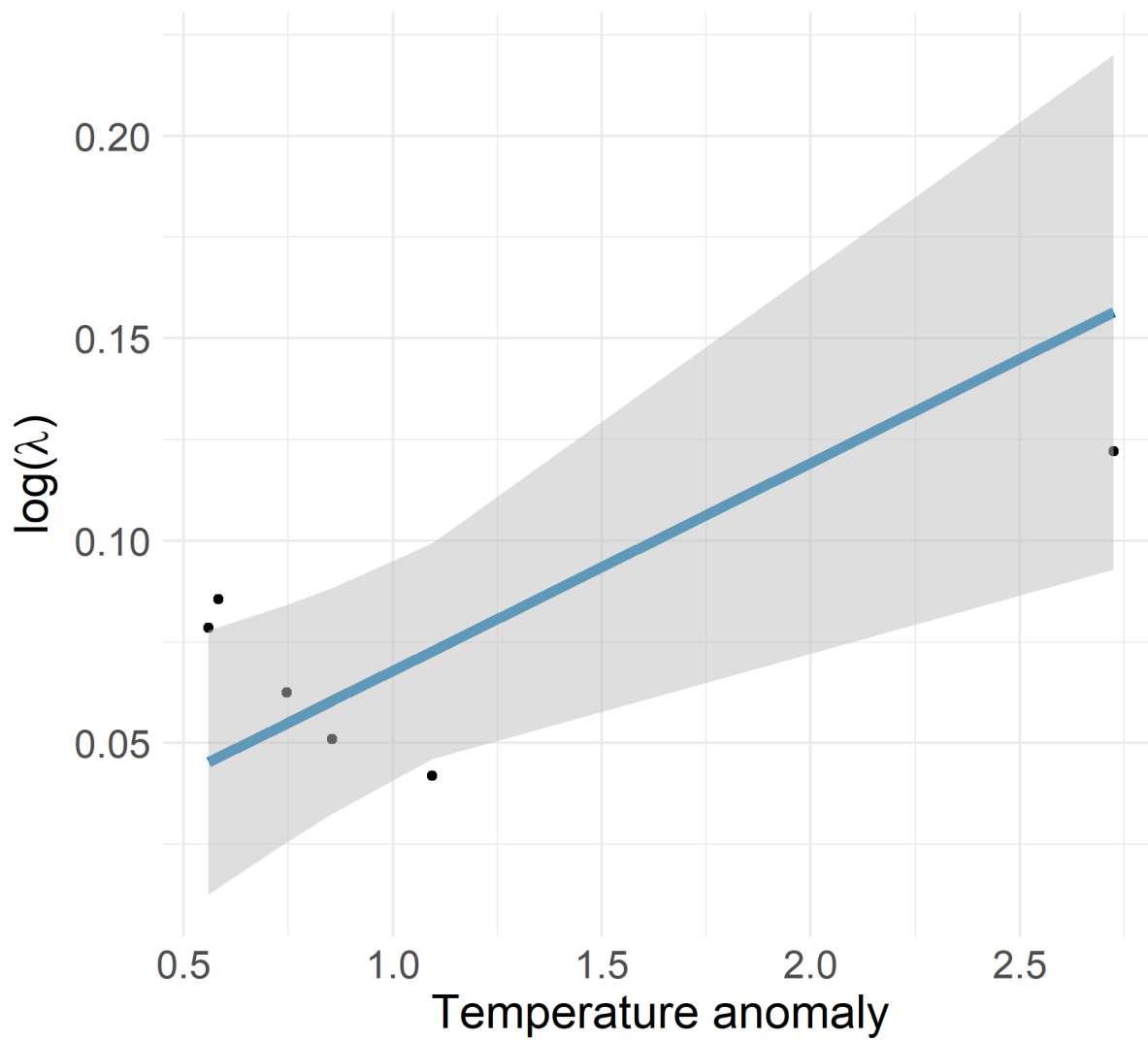


Figure 121: Orchis purpurea Light Environment 2

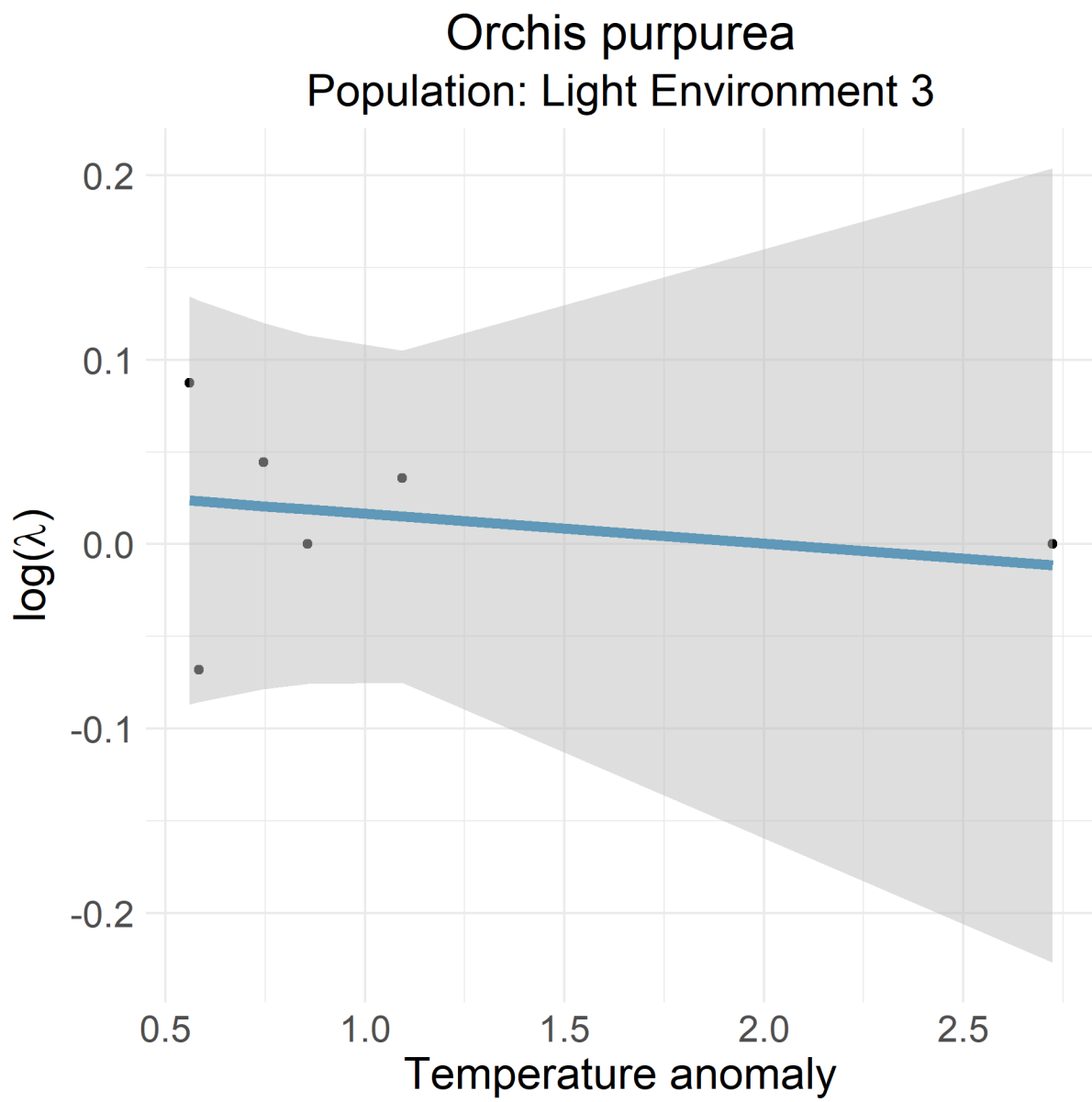


Figure 122: *Orchis purpurea* Light Environment 3



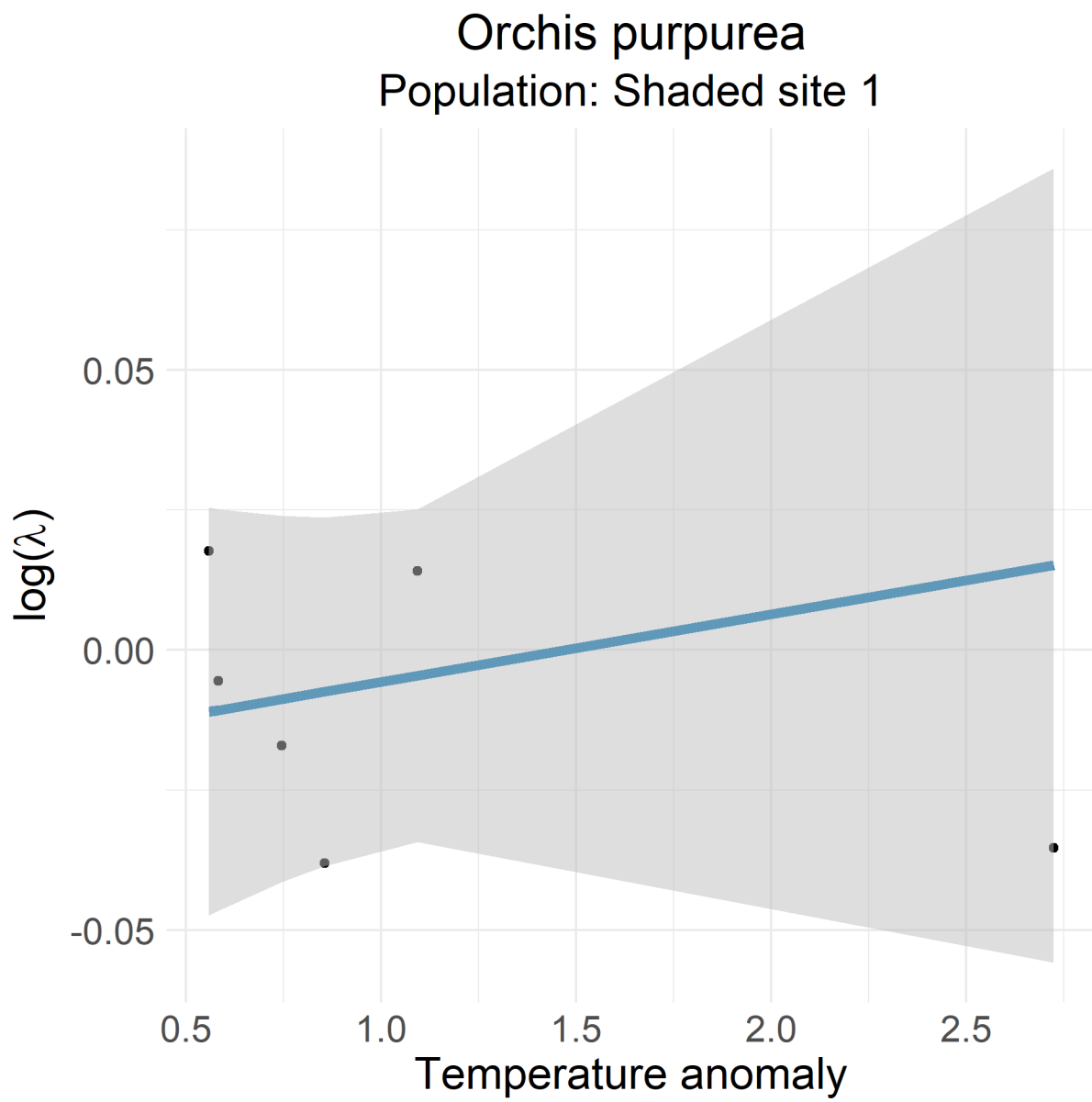


Figure 123: *Orchis purpurea* Shaded site 1

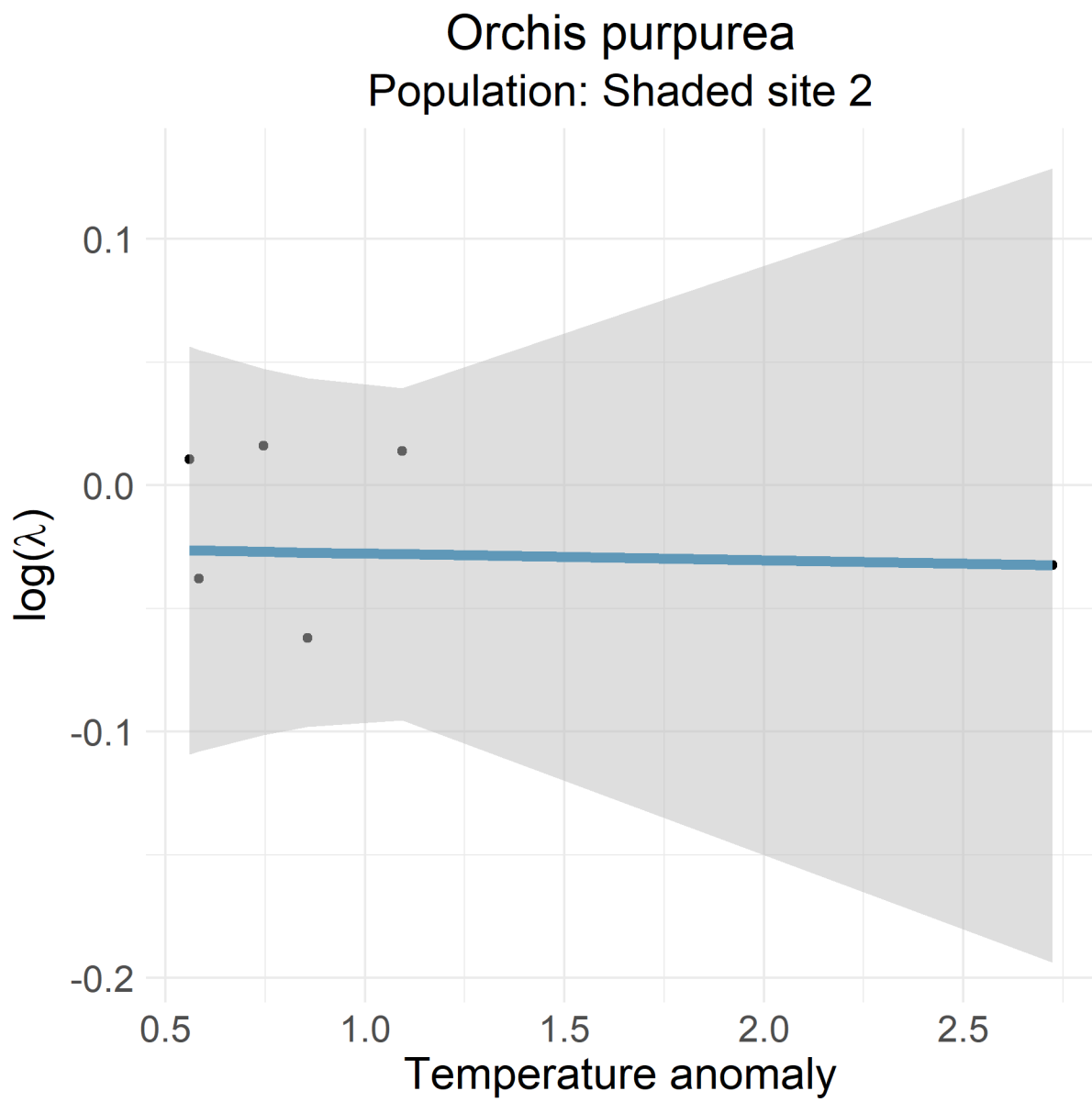


Figure 124: *Orchis purpurea* Shaded site 2

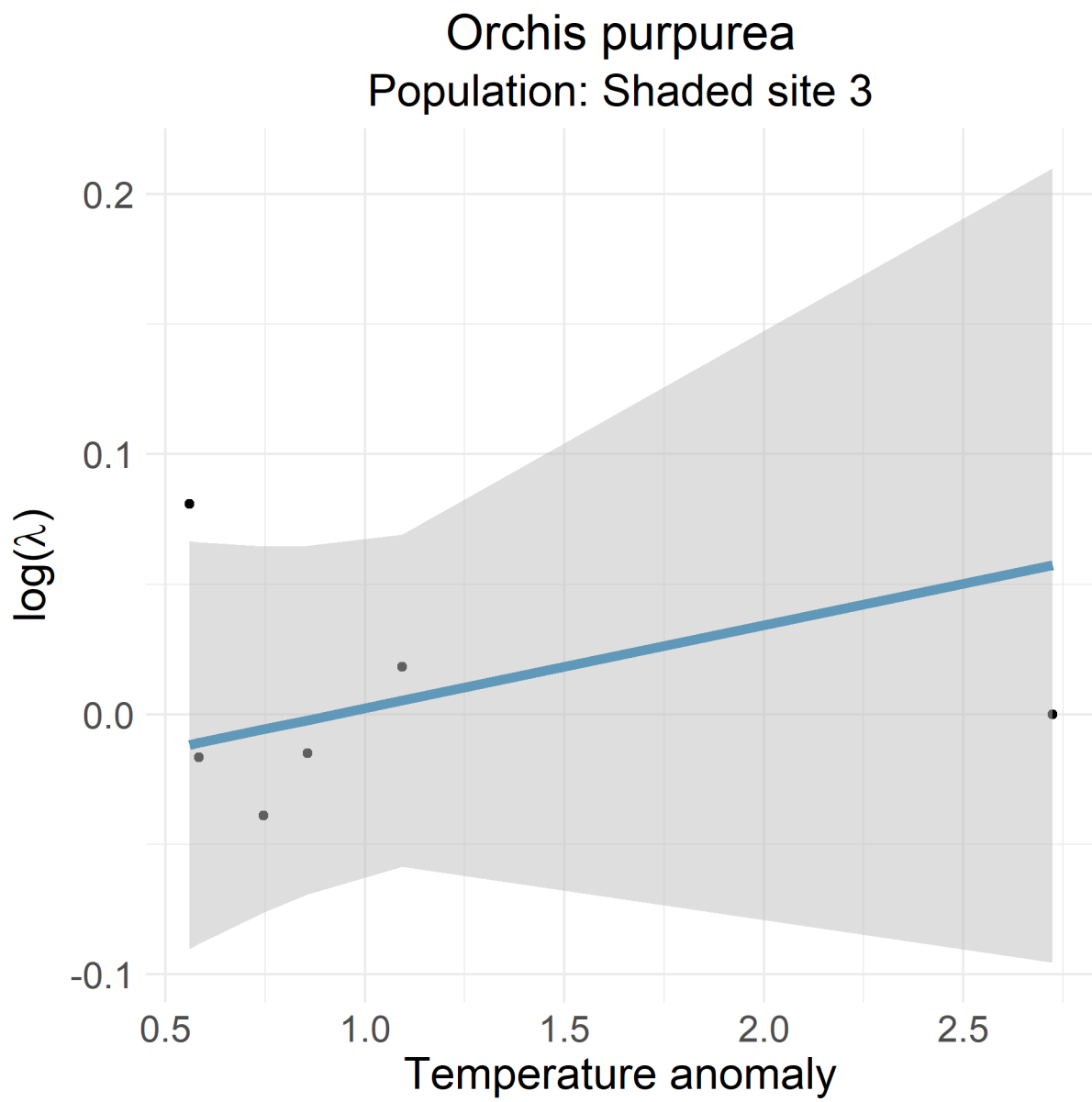


Figure 125: *Orchis purpurea* Shaded site 3

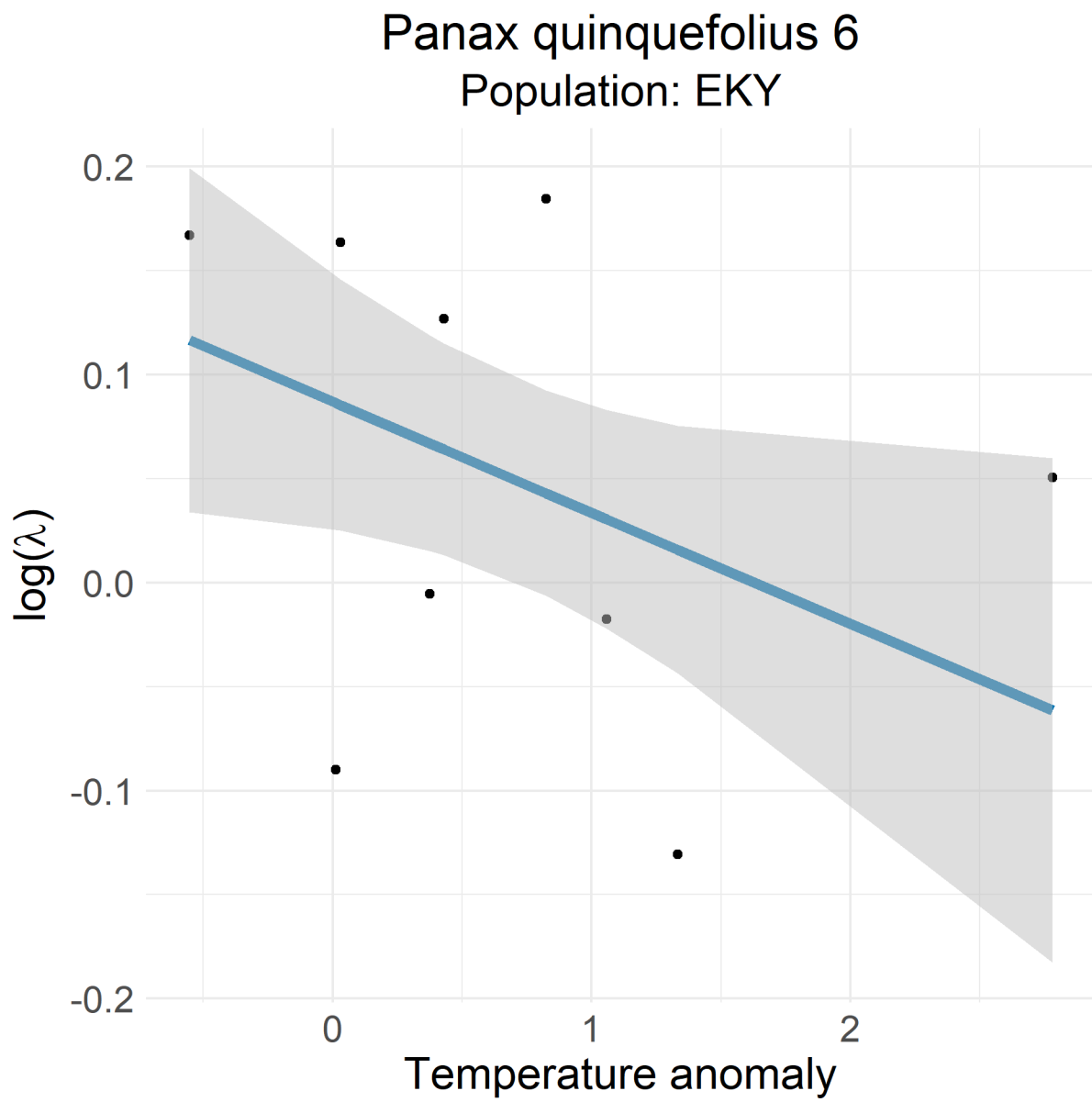


Figure 126: *Panax quinquefolius* 6 EKY

Panax quinquefolius 6  
Population: NY

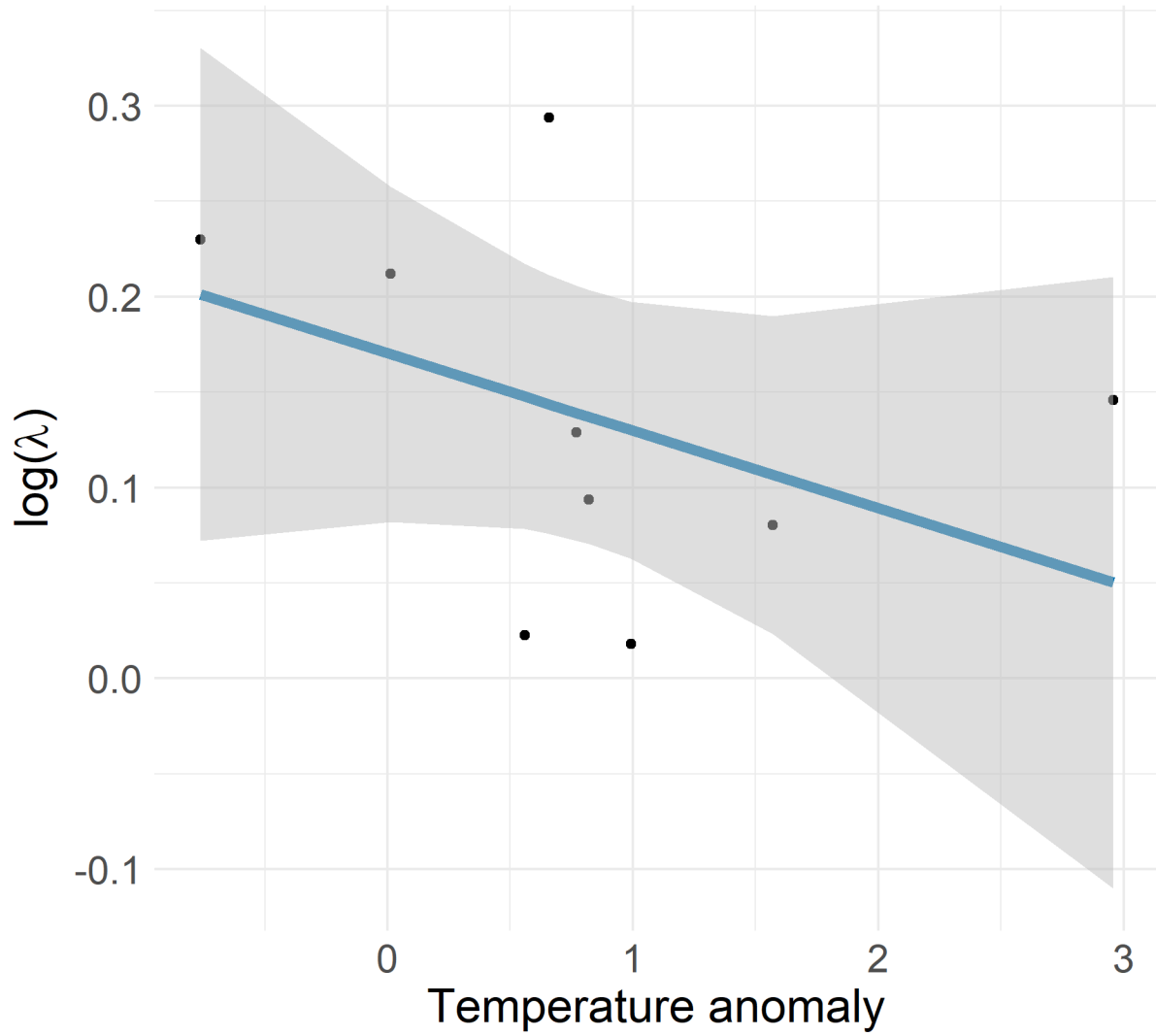


Figure 127: Panax quinquefolius 6 NY

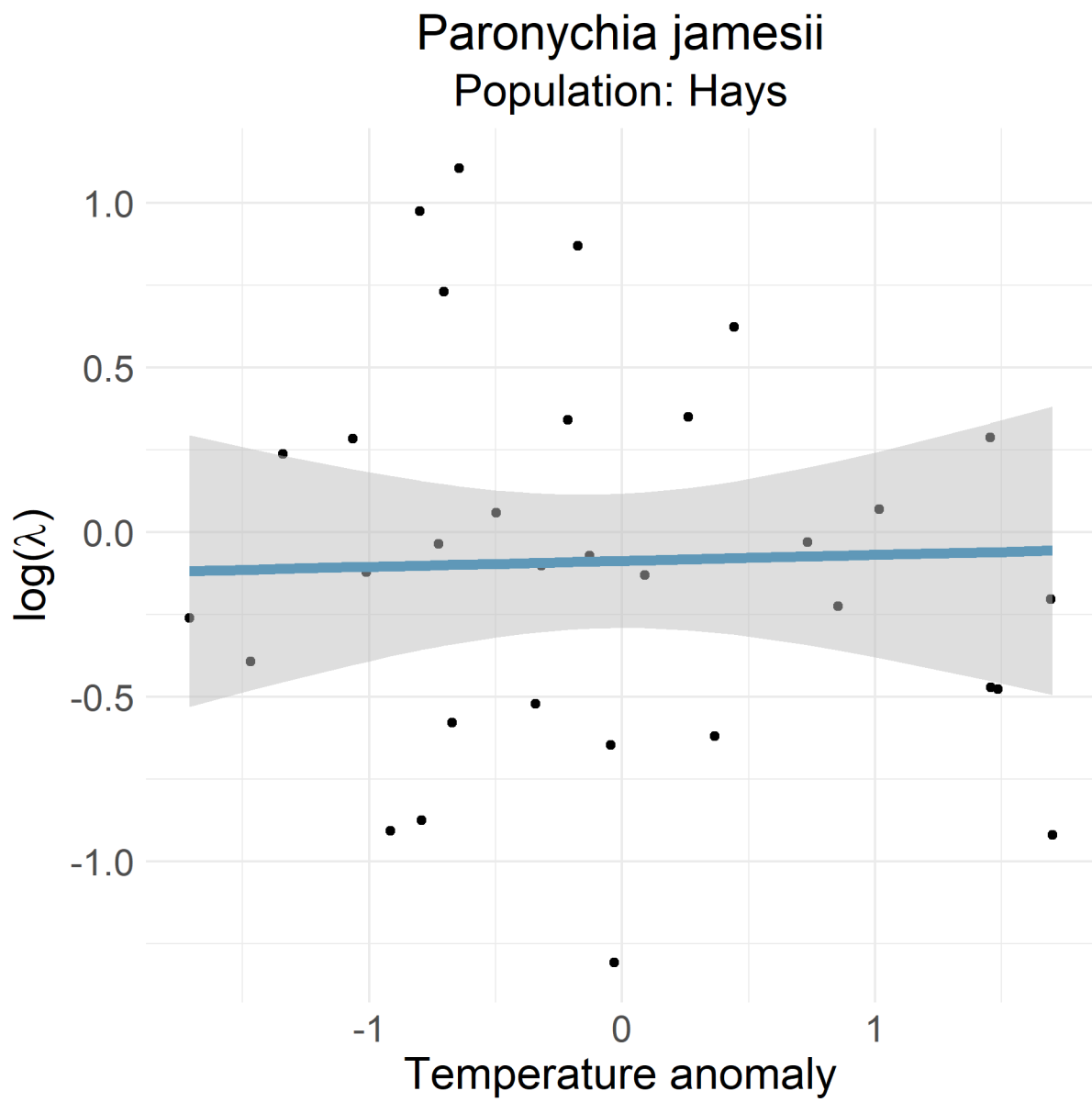


Figure 128: *Paronychia jamesii* Hays

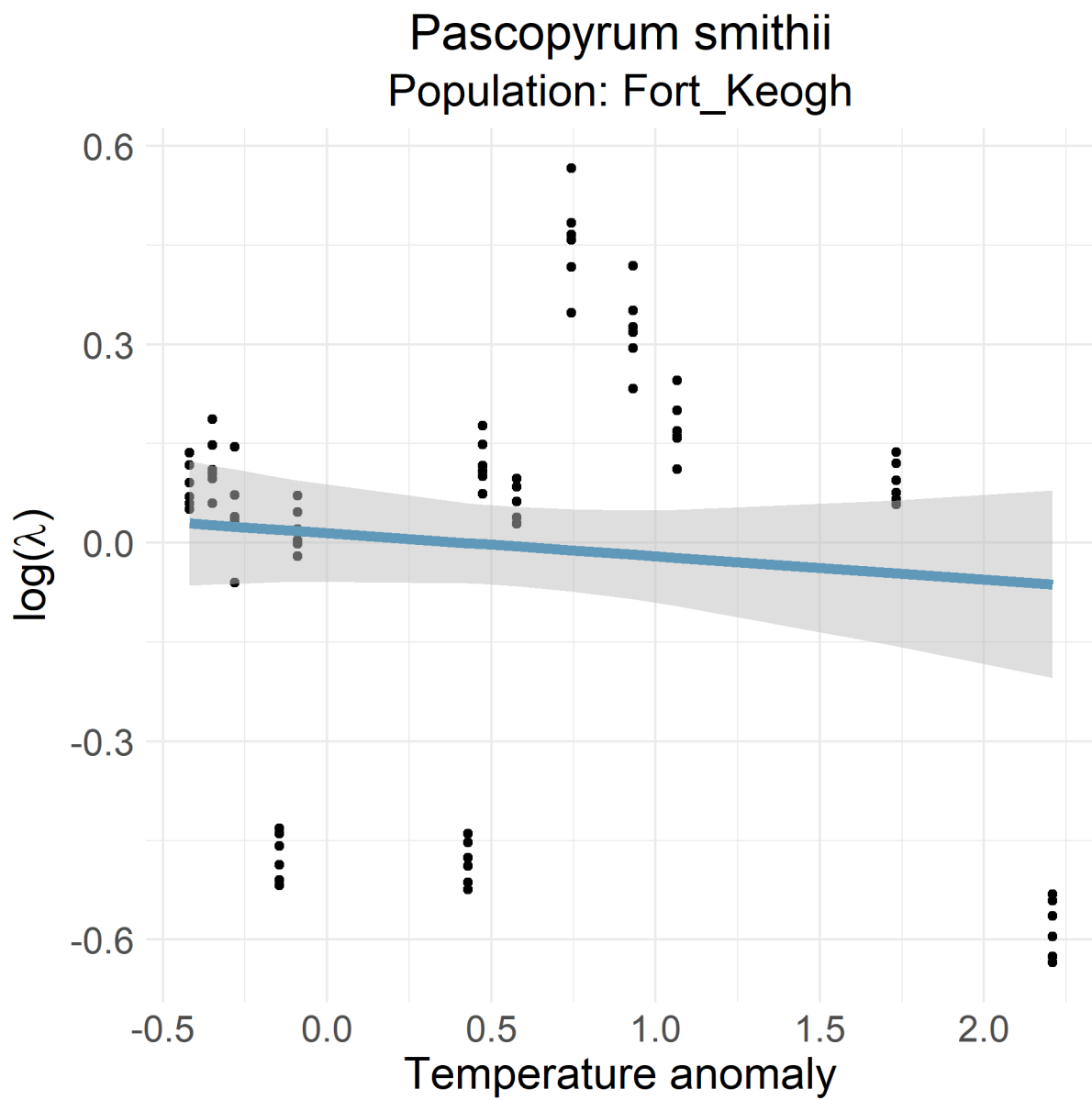


Figure 129: *Pascopyrum smithii* Fort Keogh

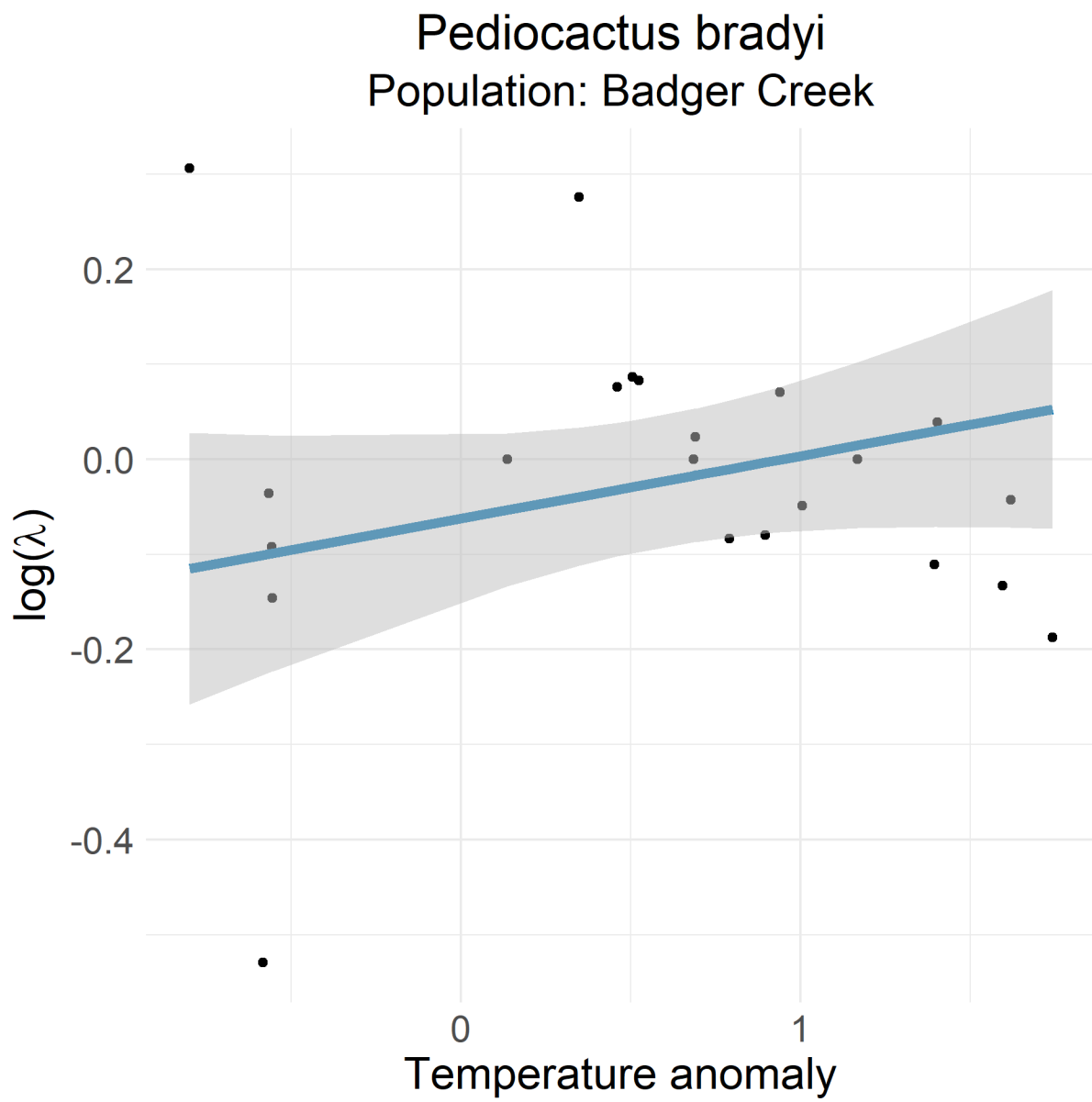


Figure 130: *Pediocactus bradyi* Badger Creek



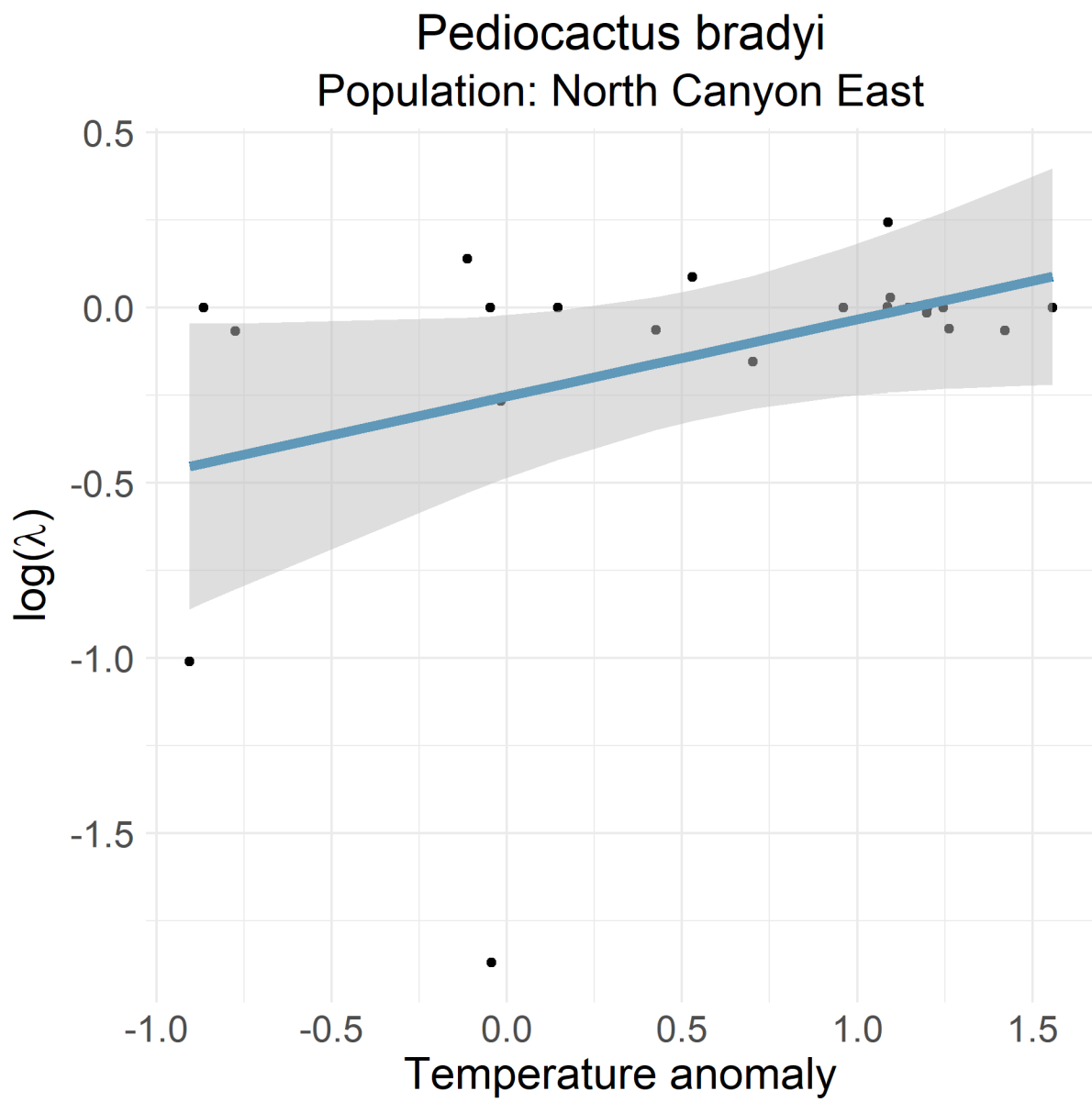


Figure 131: *Pediocactus bradyi* North Canyon East

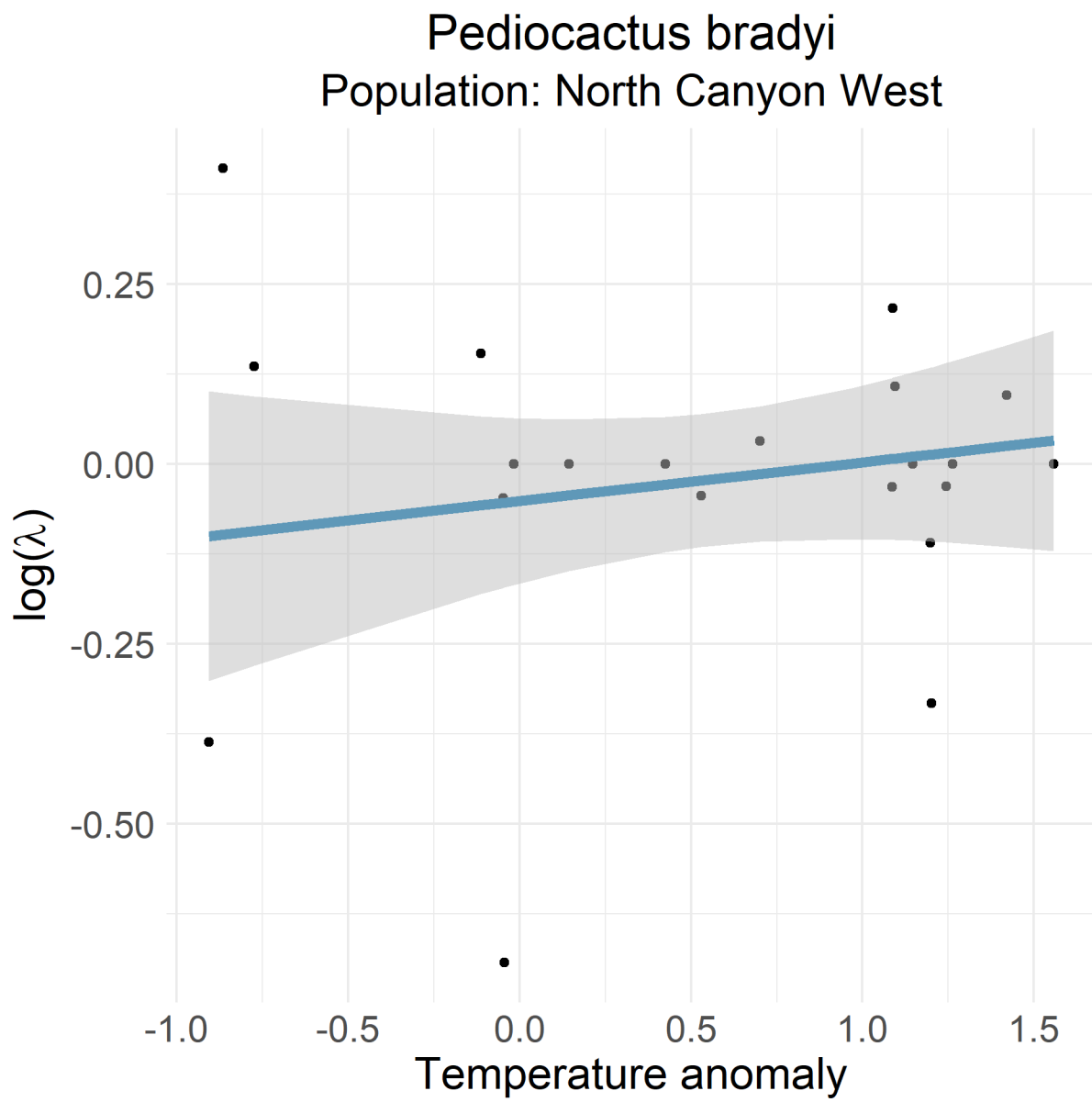


Figure 132: *Pediocactus bradyi* North Canyon West

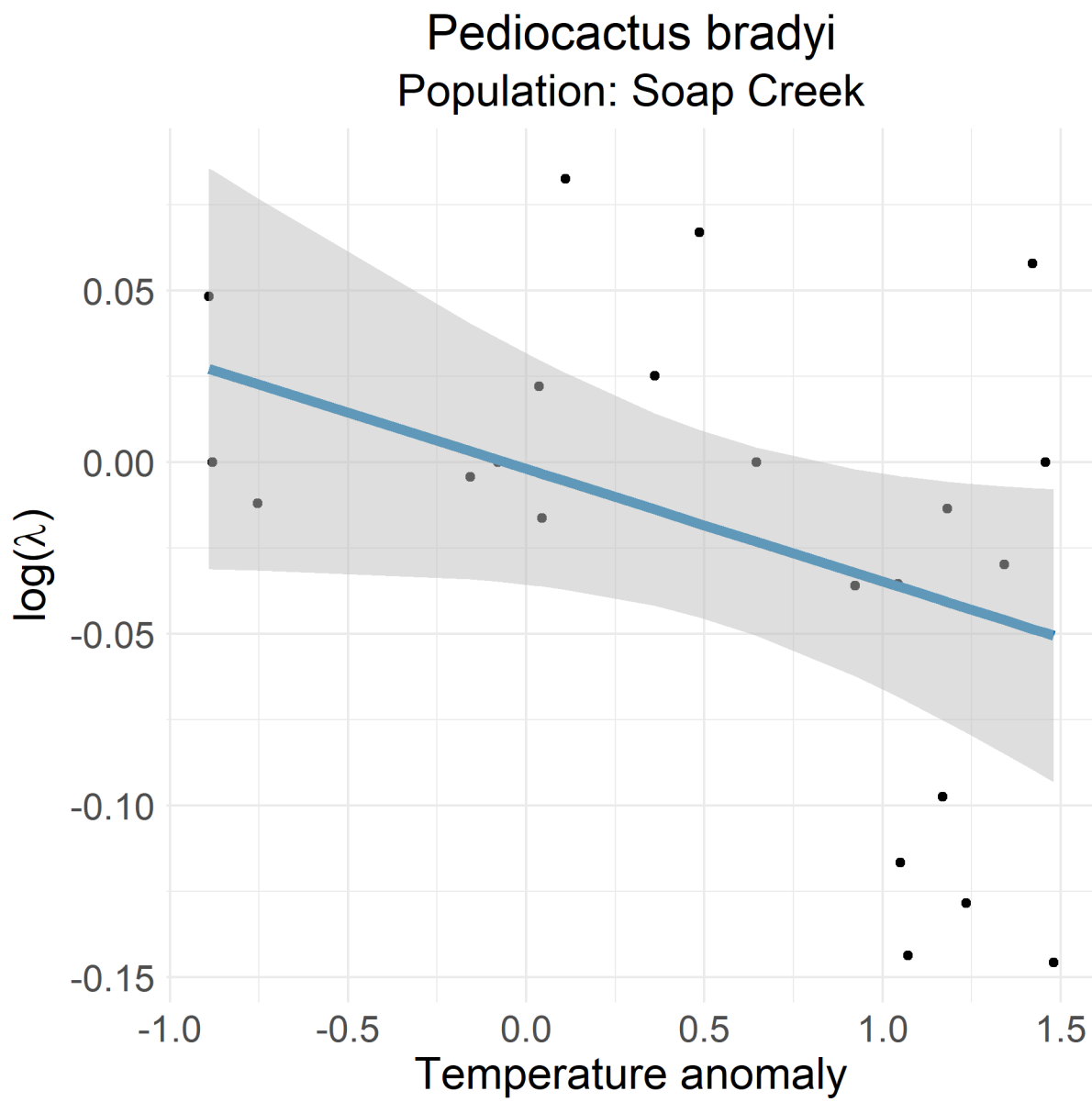
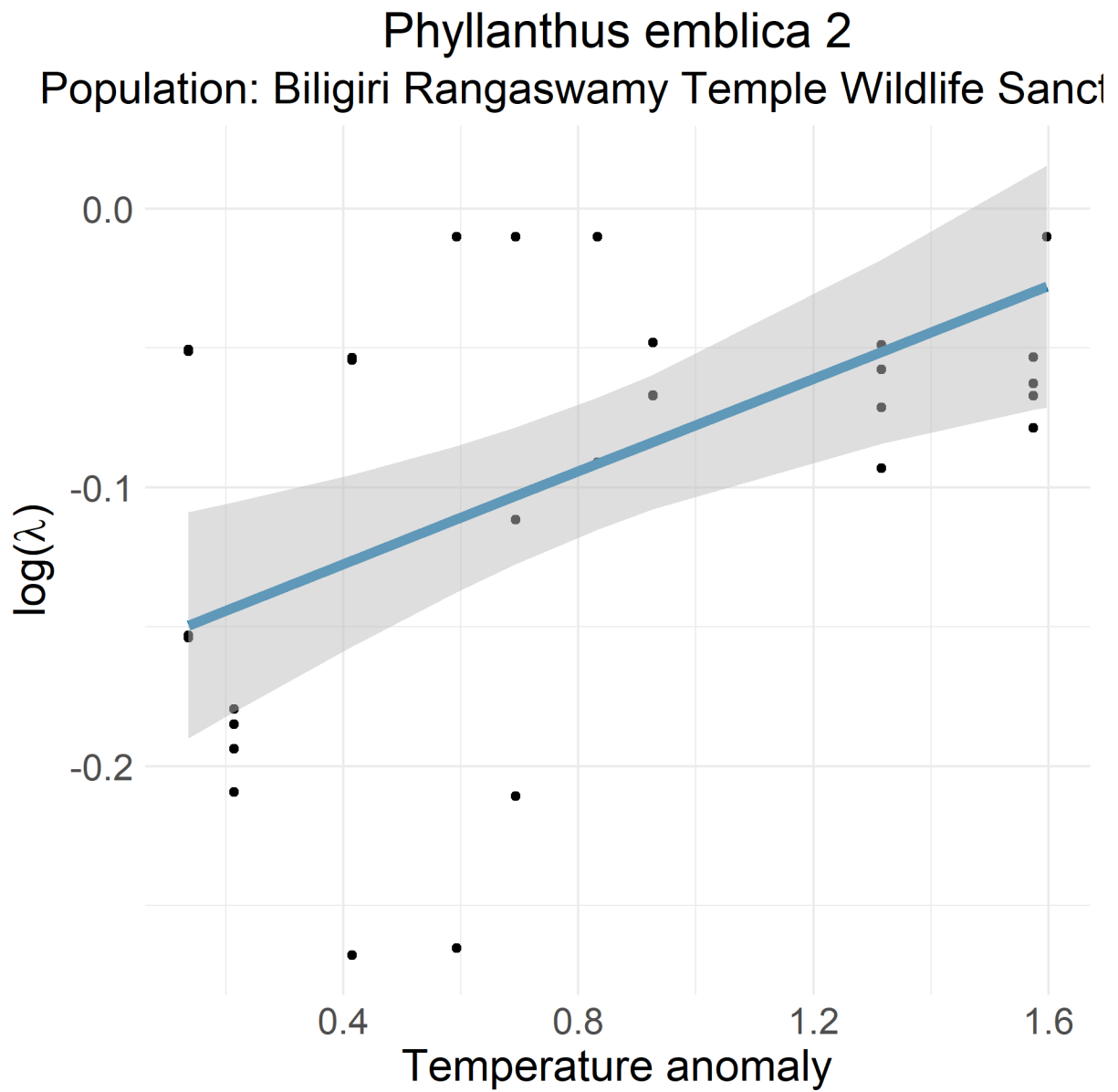


Figure 133: *Pediocactus bradyi* Soap Creek



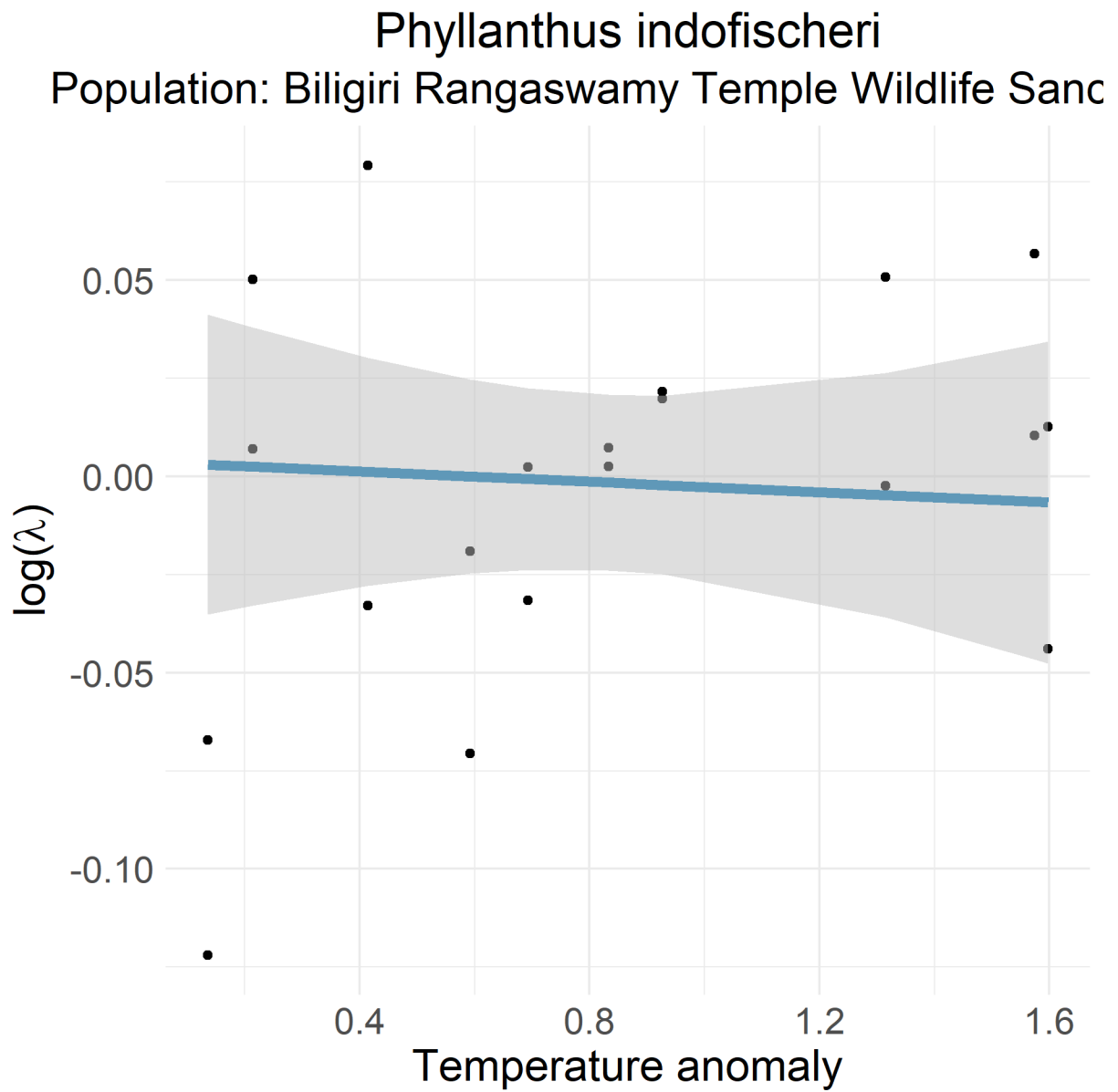
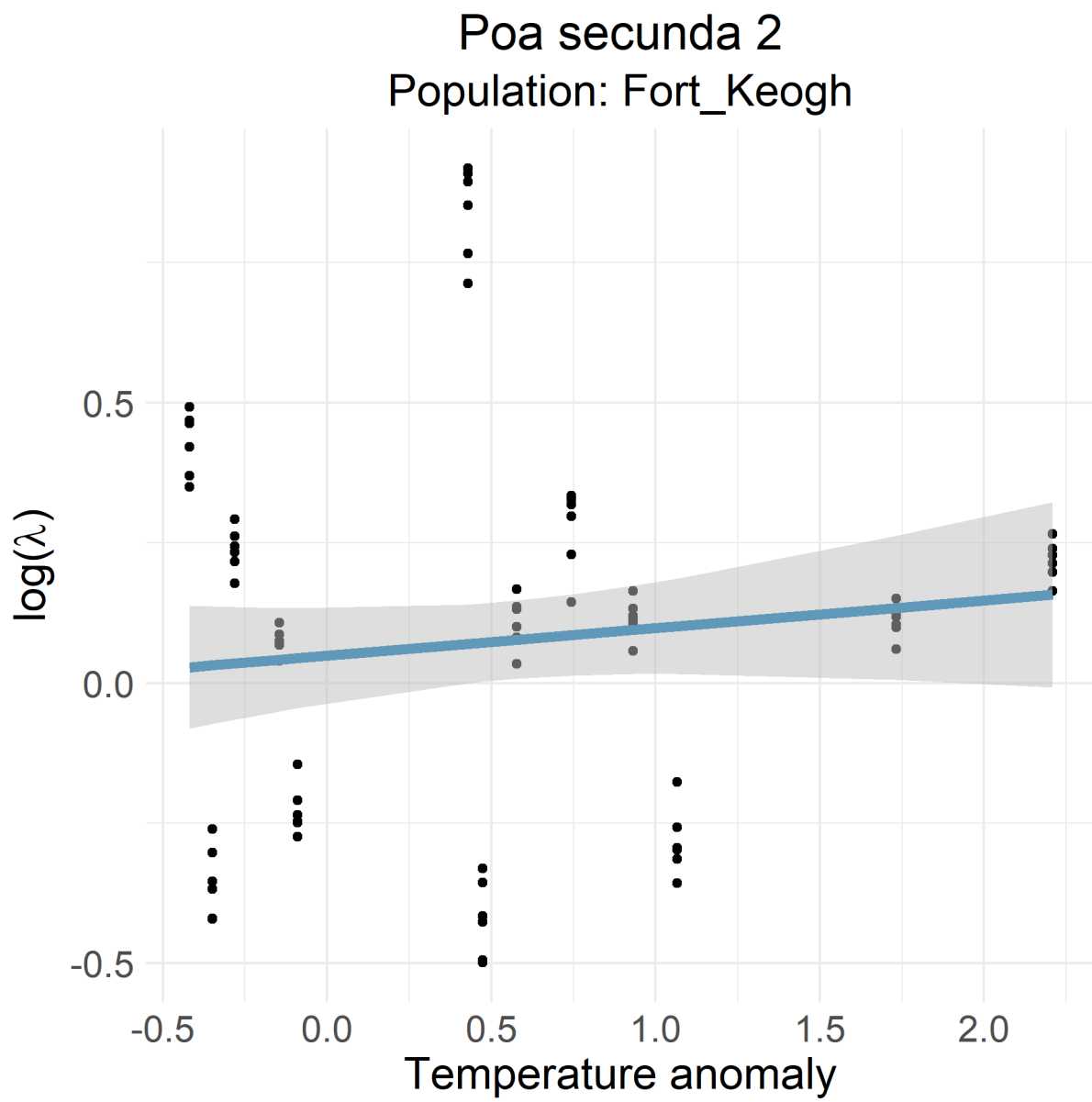


Figure 135: *Phyllanthus indofischeri* Biligiri Rangaswamy Temple Wildlife Sanctuary



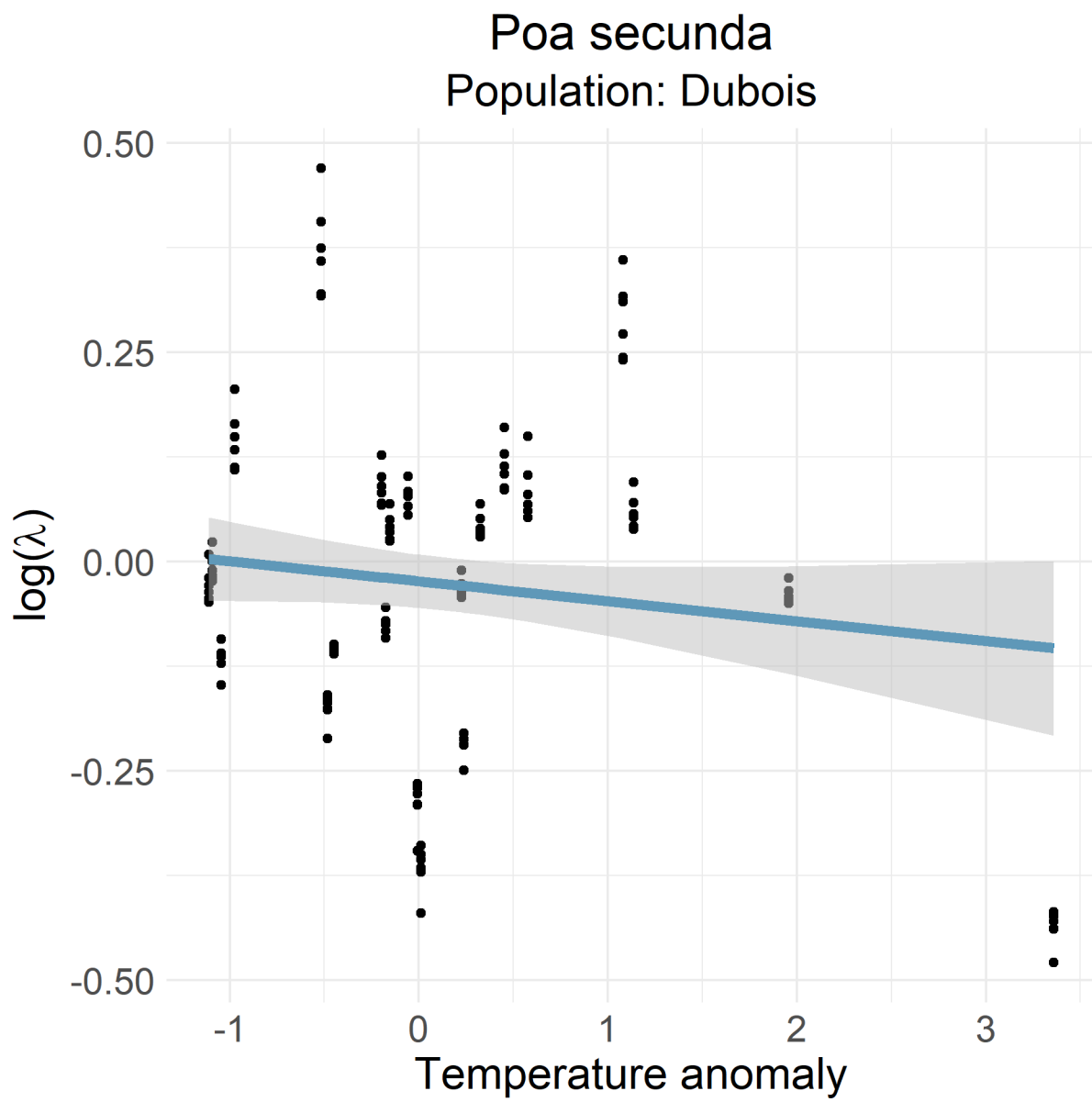


Figure 137: *Poa secunda* Dubois

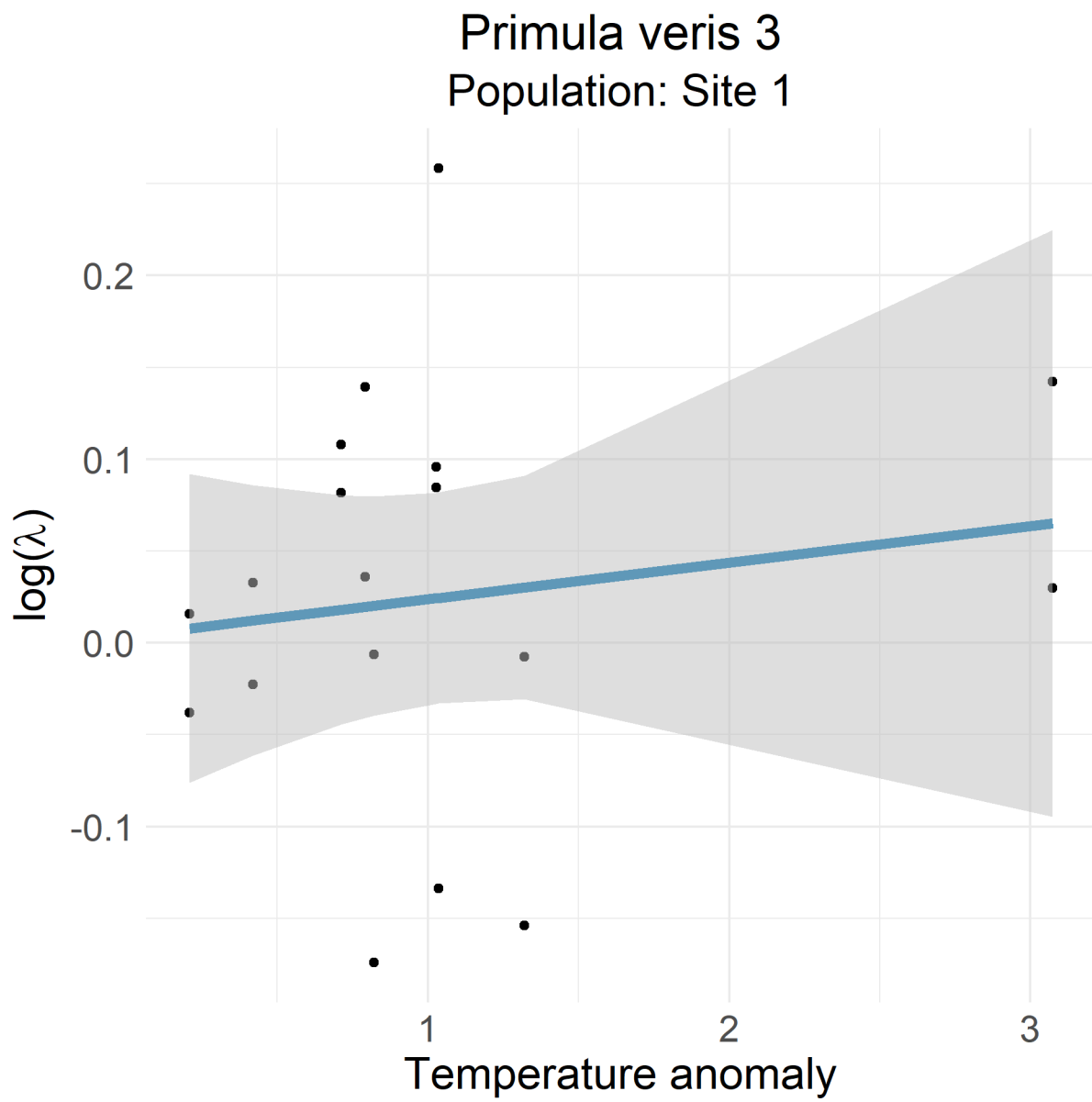


Figure 138: Primula veris 3 Site 1



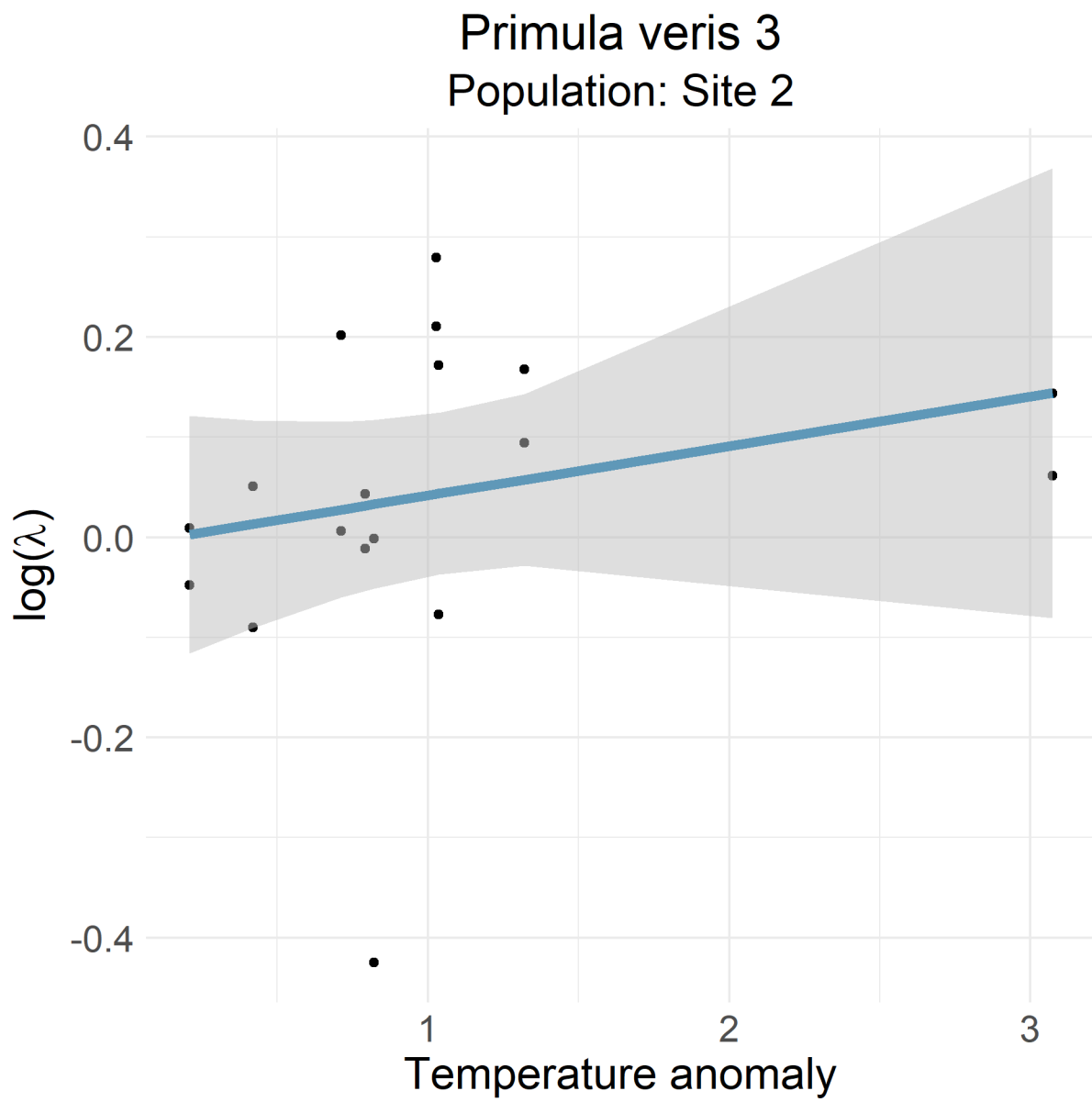


Figure 139: Primula veris 3 Site 2

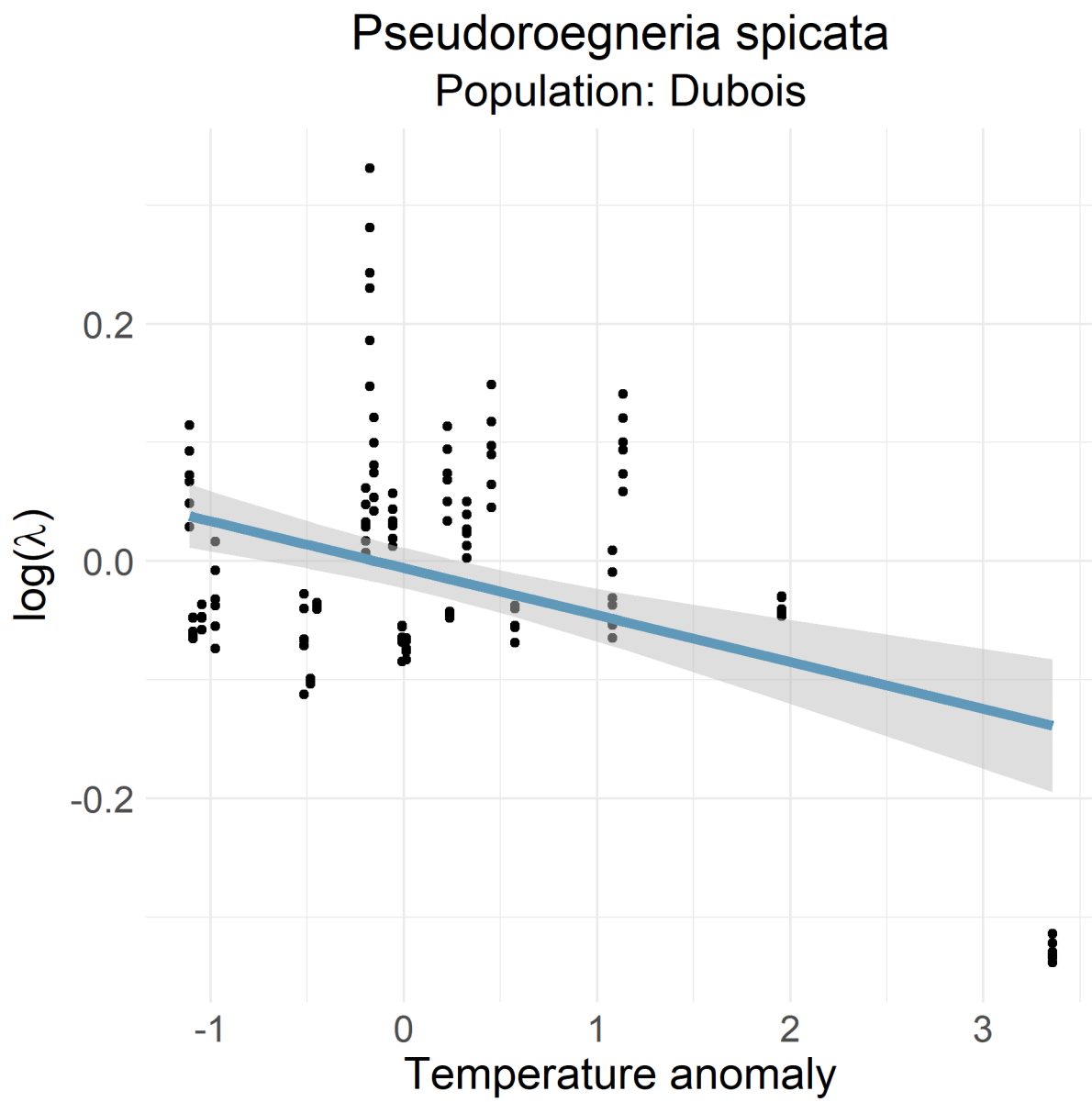


Figure 140: *Pseudoroegneria spicata* Dubois

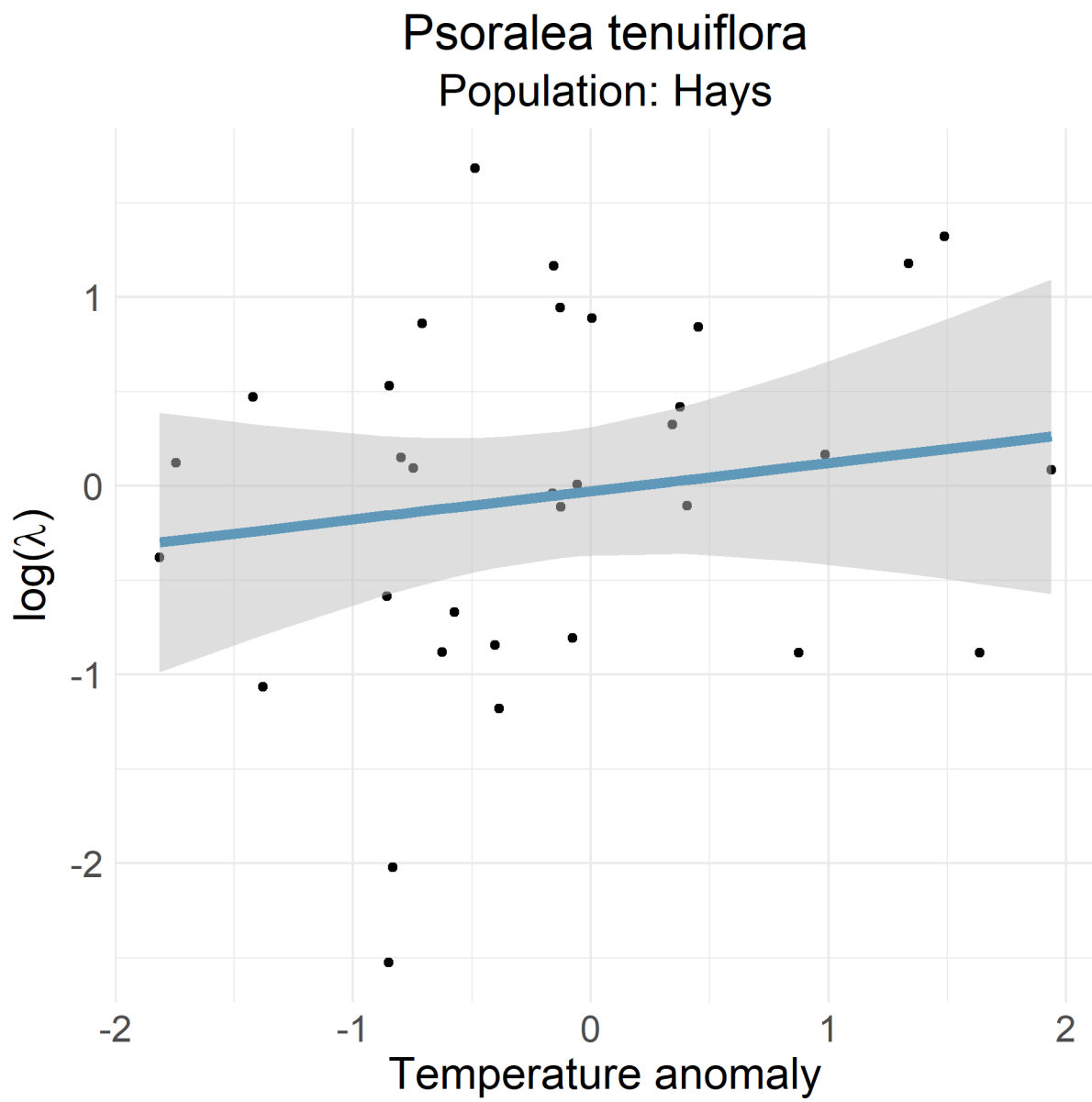


Figure 141: *Psoralea tenuiflora* Hays

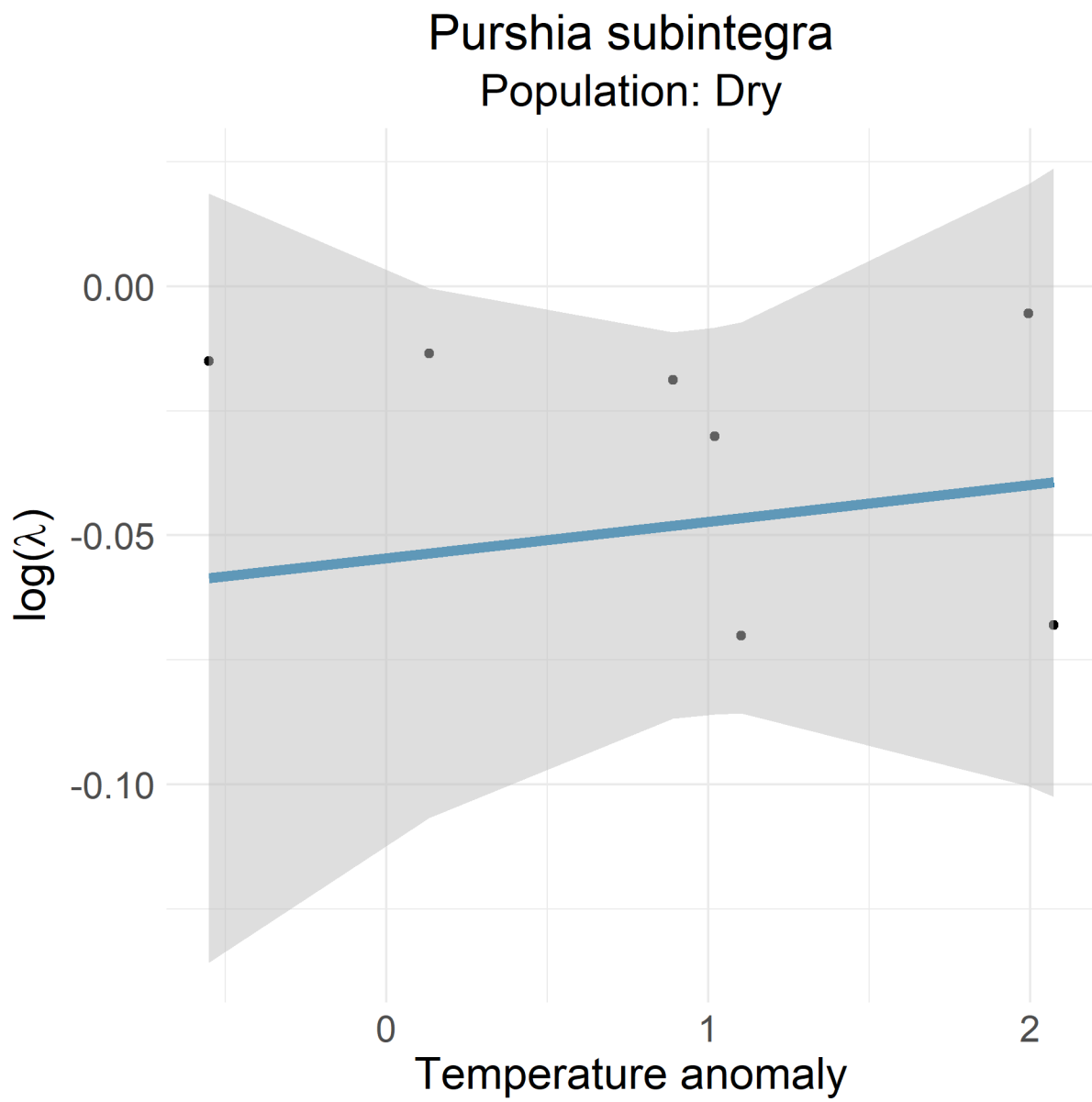


Figure 142: *Purshia subintegra* Dry

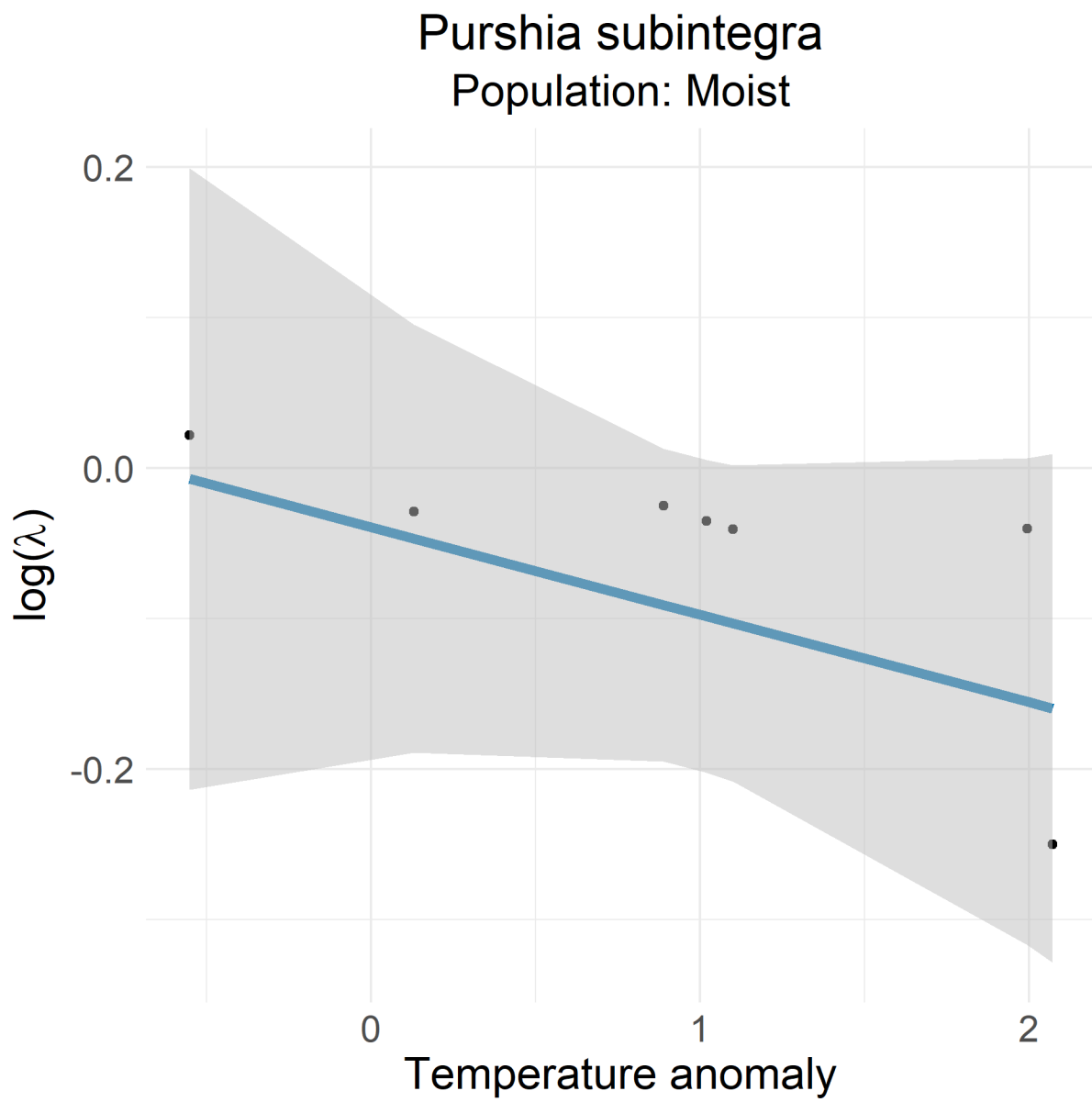


Figure 143: Purshia subintegra Moist

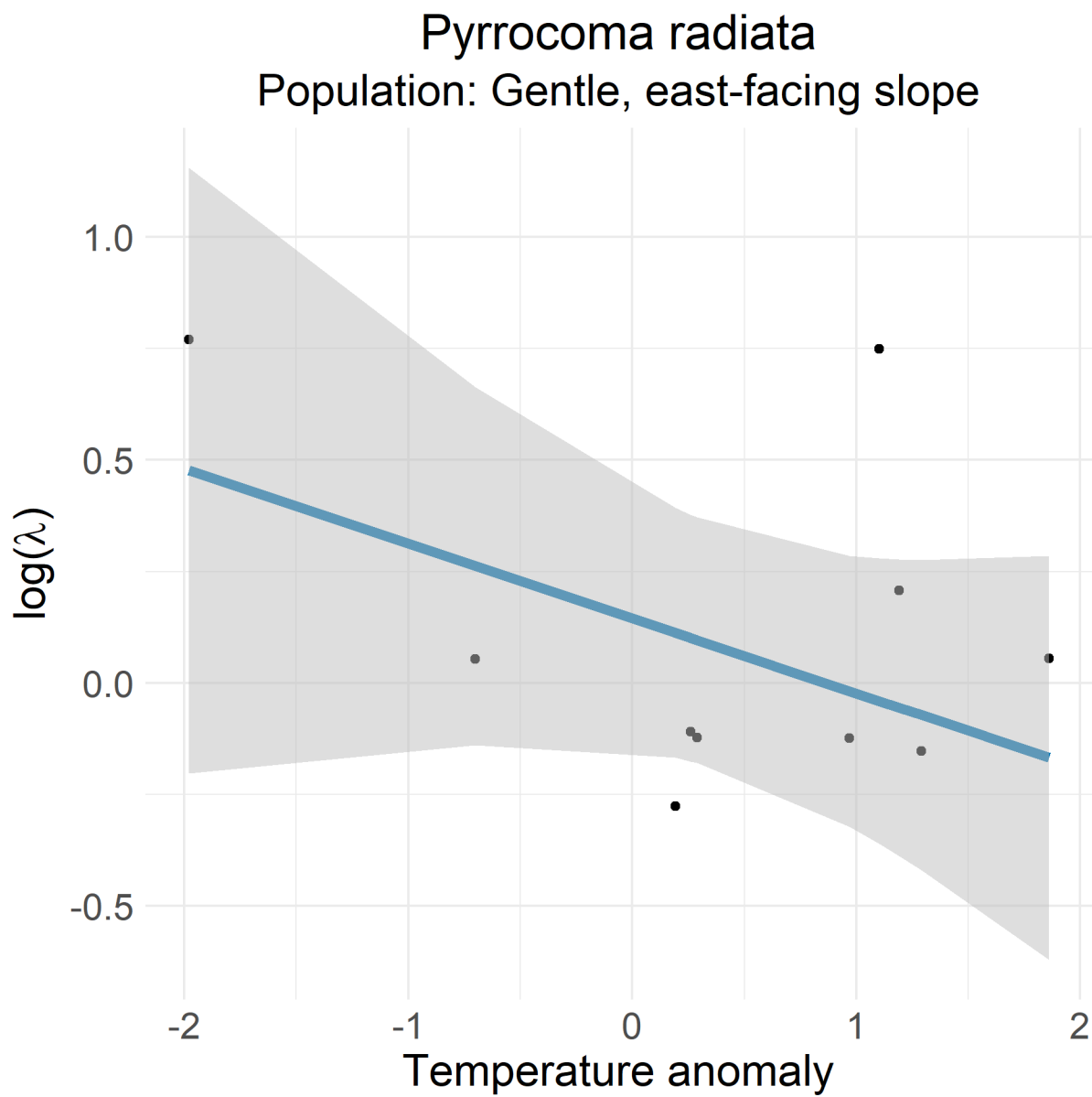


Figure 144: *Pyrrocoma radiata* Gentle, east-facing slope

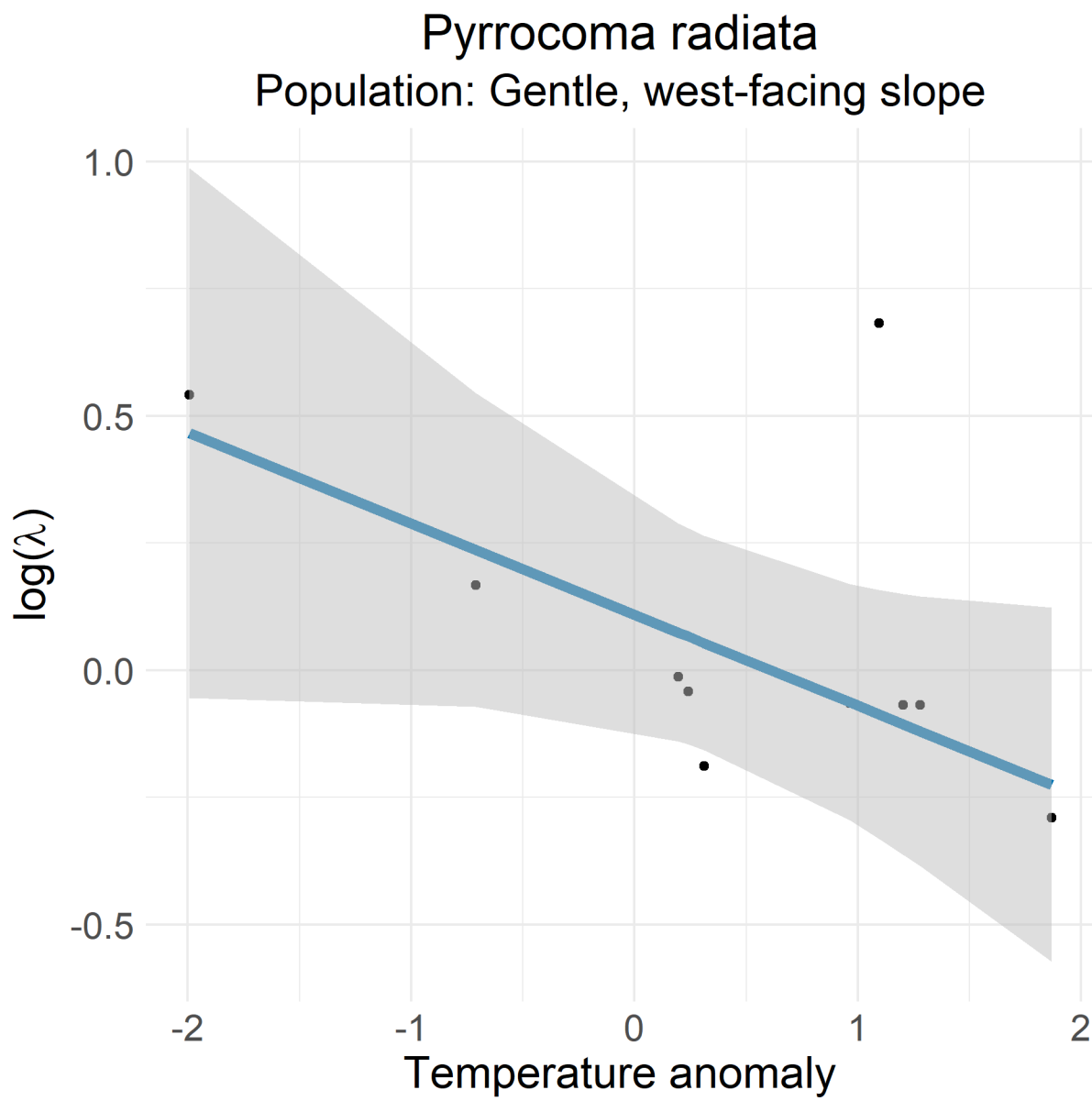


Figure 145: *Pyrrocoma radiata* Gentle, west-facing slope

*Pyrrocoma radiata*  
Population: South-facing slope

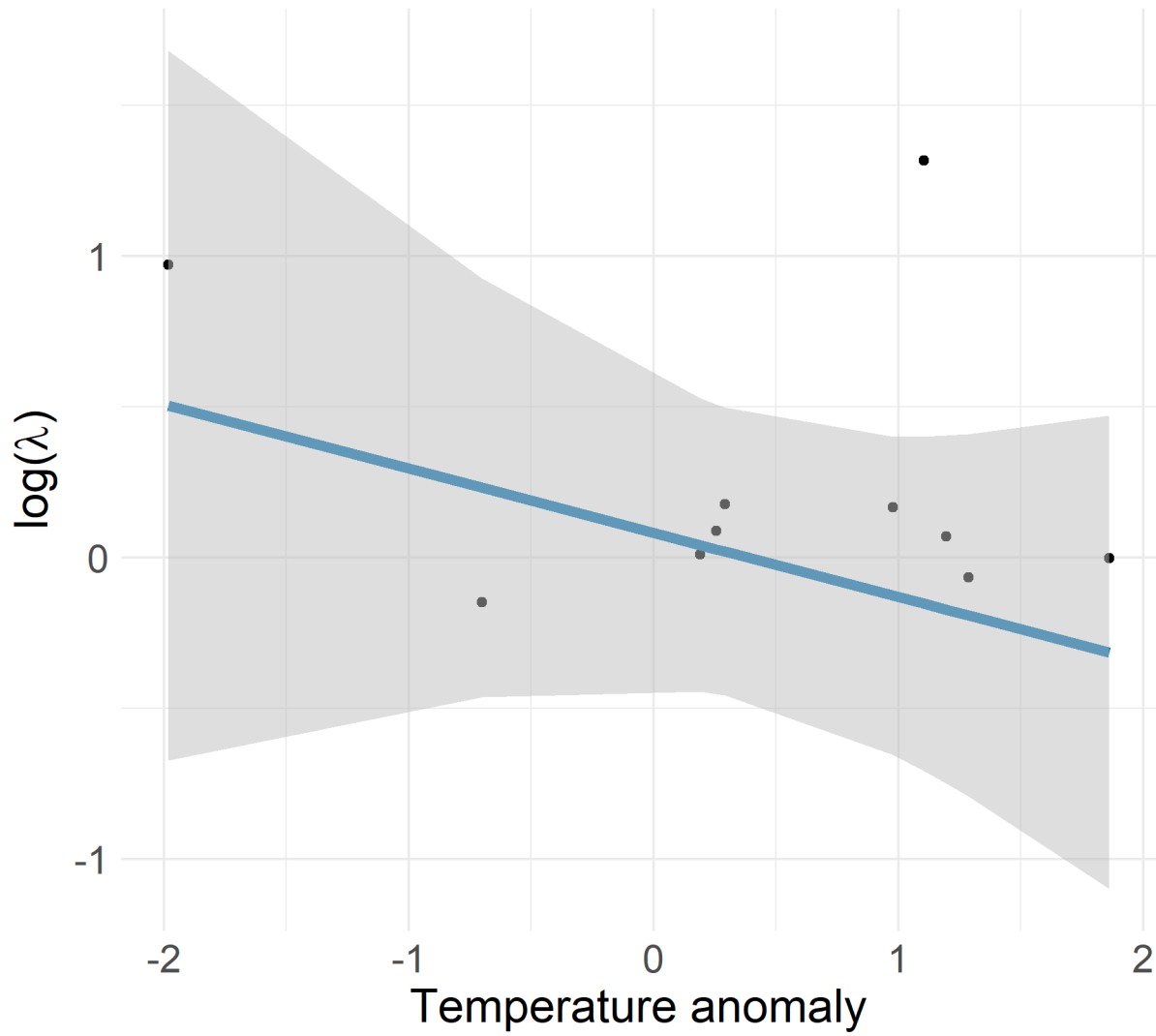


Figure 146: *Pyrrocoma radiata* South-facing slope



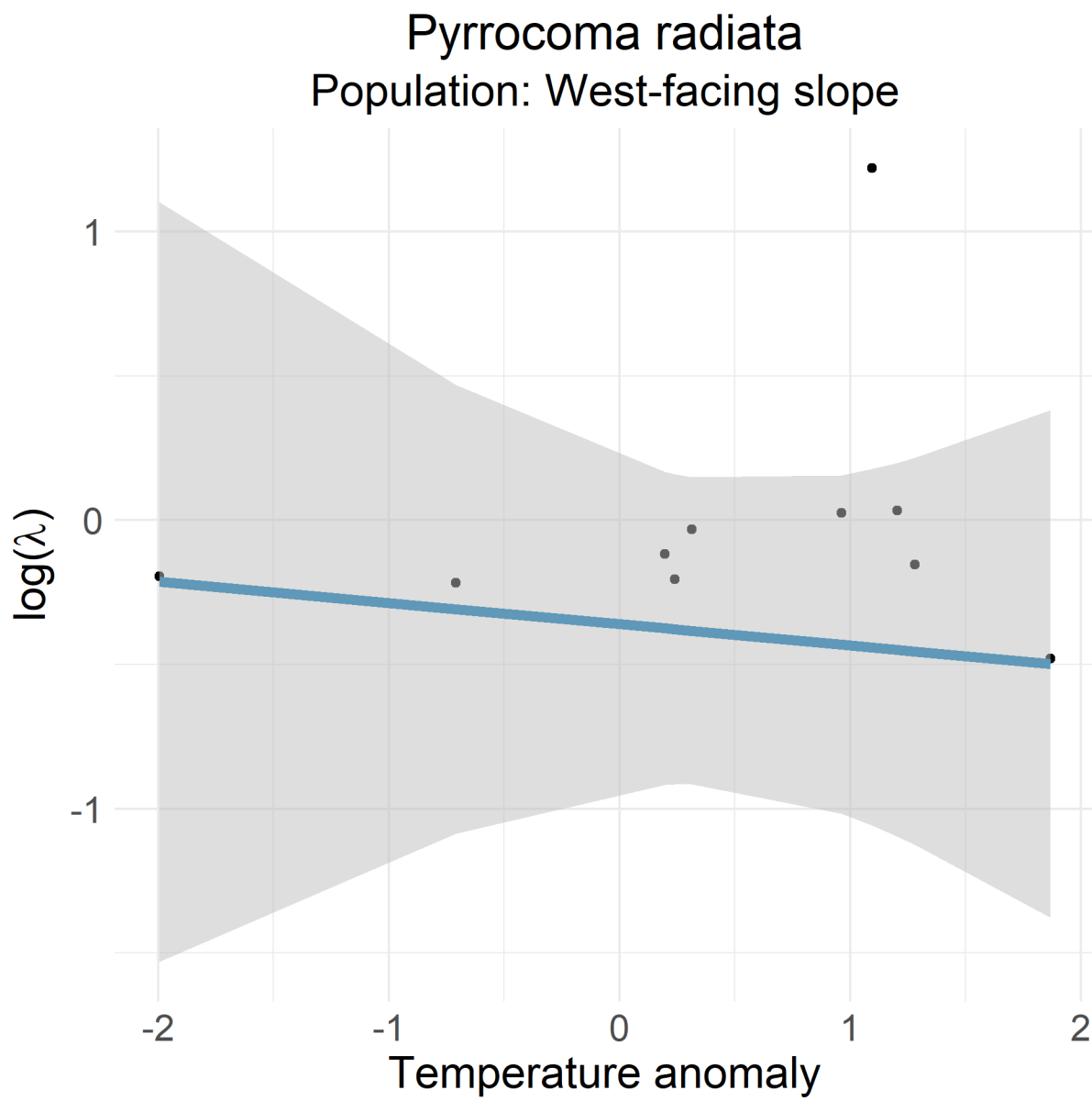


Figure 147: *Pyrrocoma radiata* West-facing slope

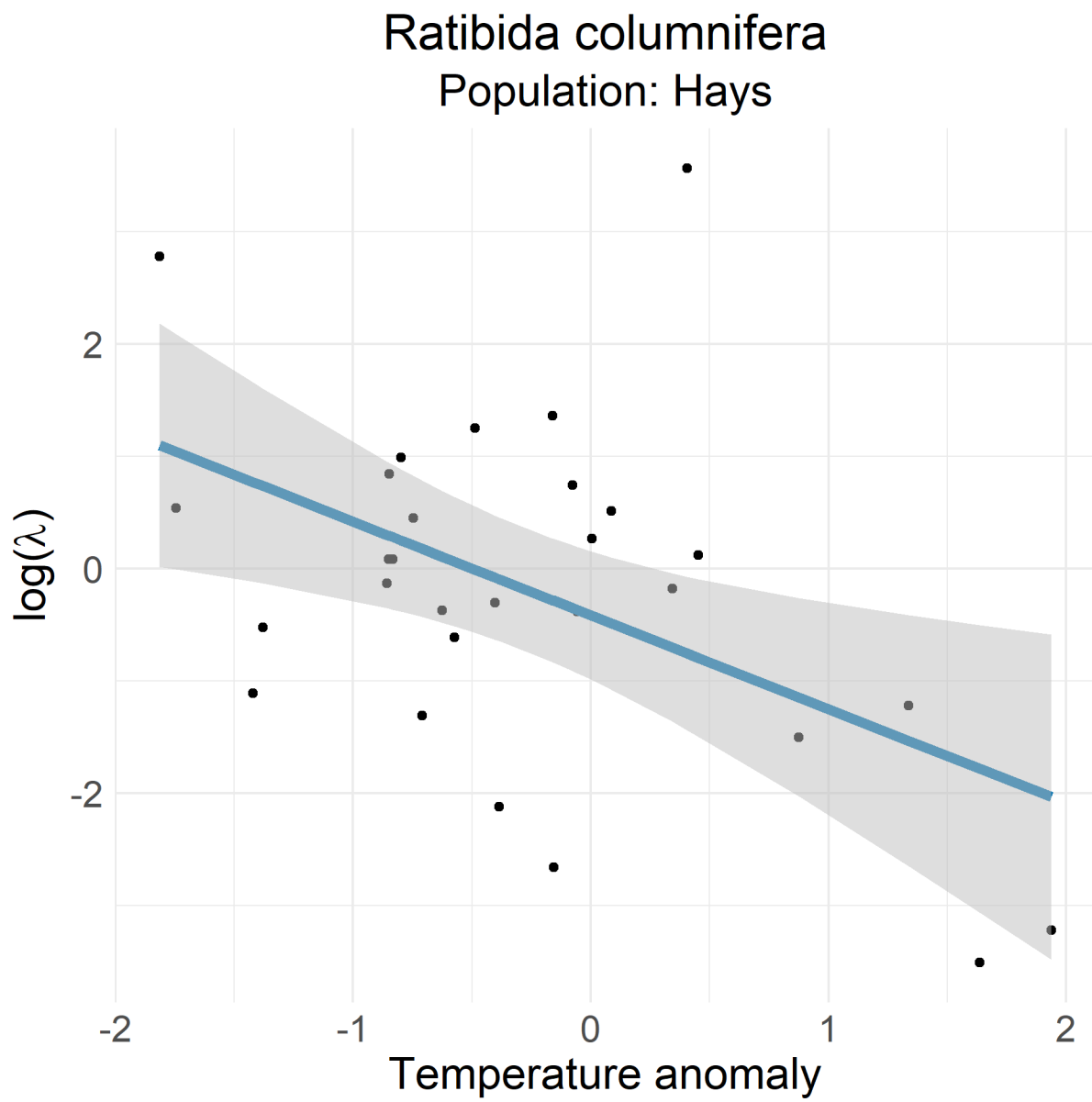


Figure 148: *Ratibida columnifera* Hays

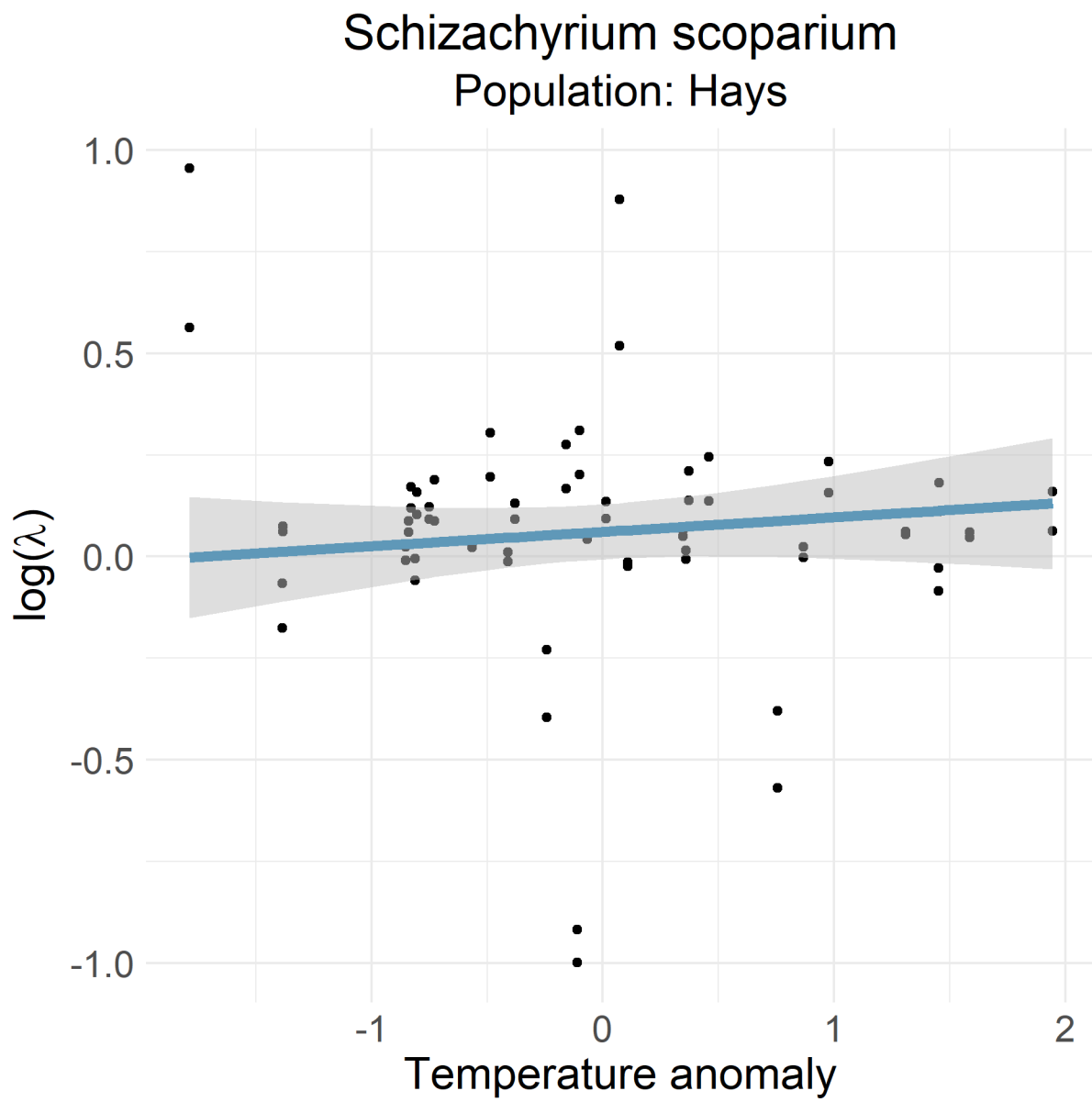


Figure 149: *Schizachyrium scoparium* Hays

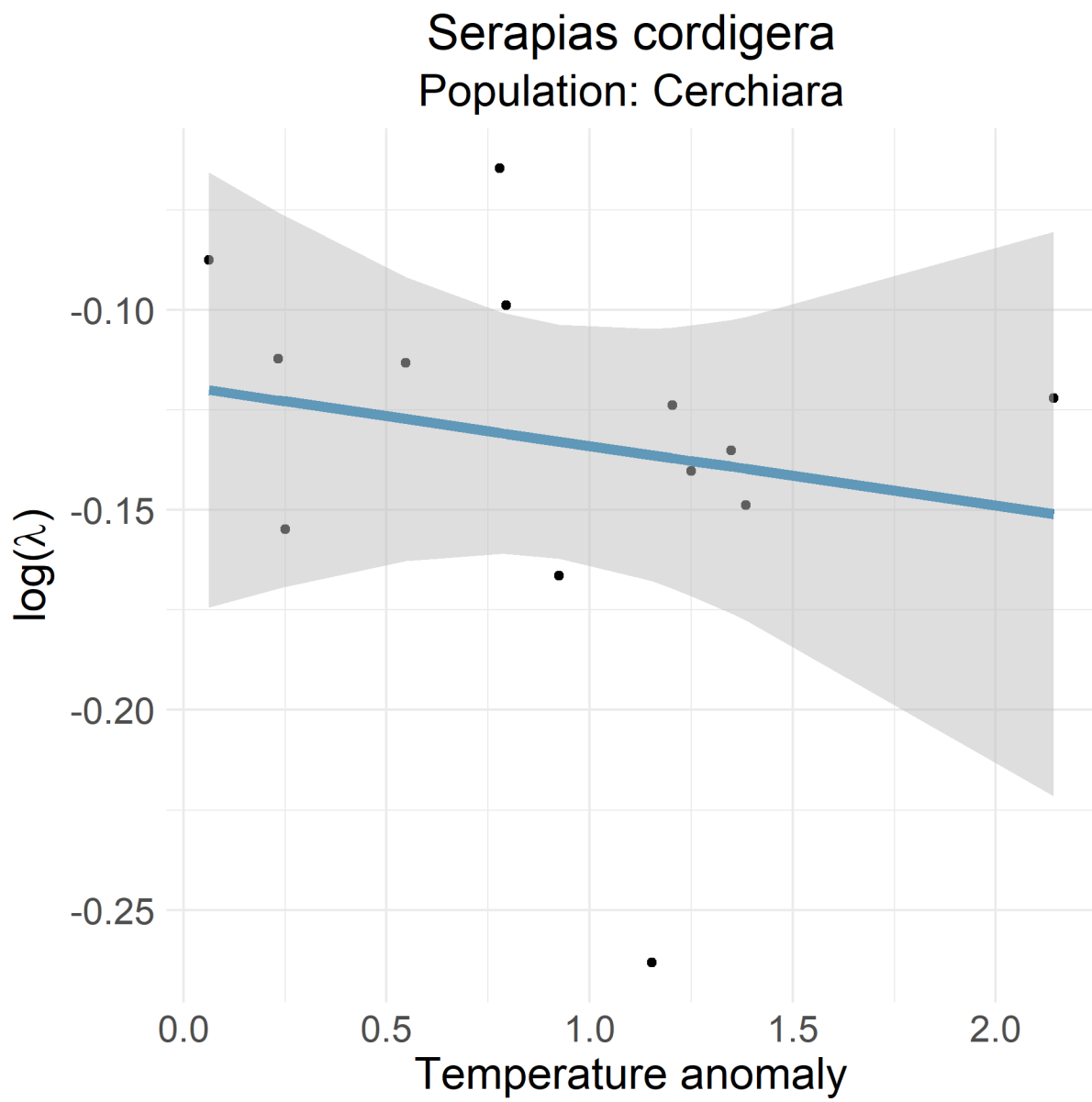


Figure 150: *Serapias cordigera* Cerchiara

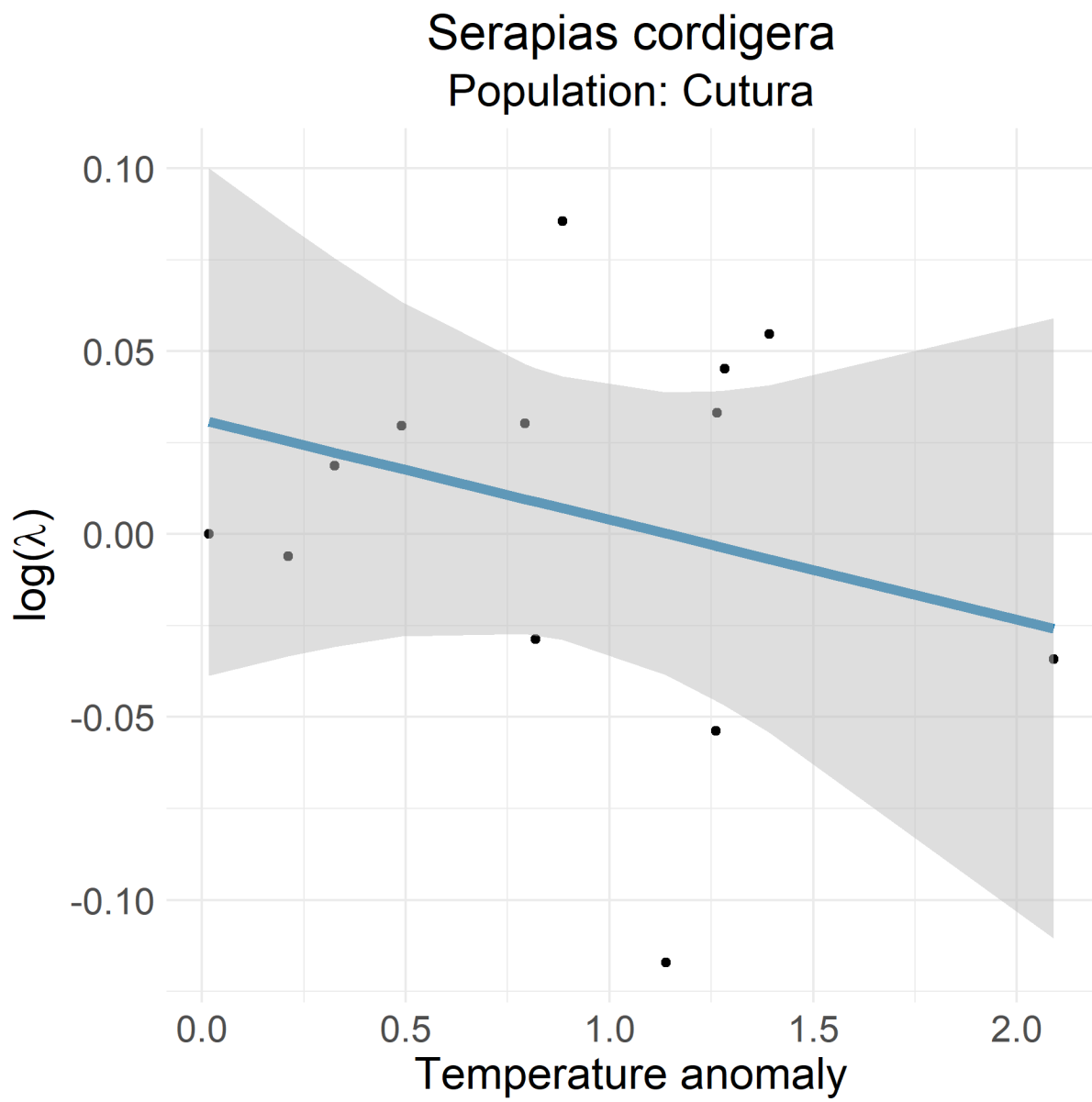


Figure 151: *Serapias cordigera* Cutura

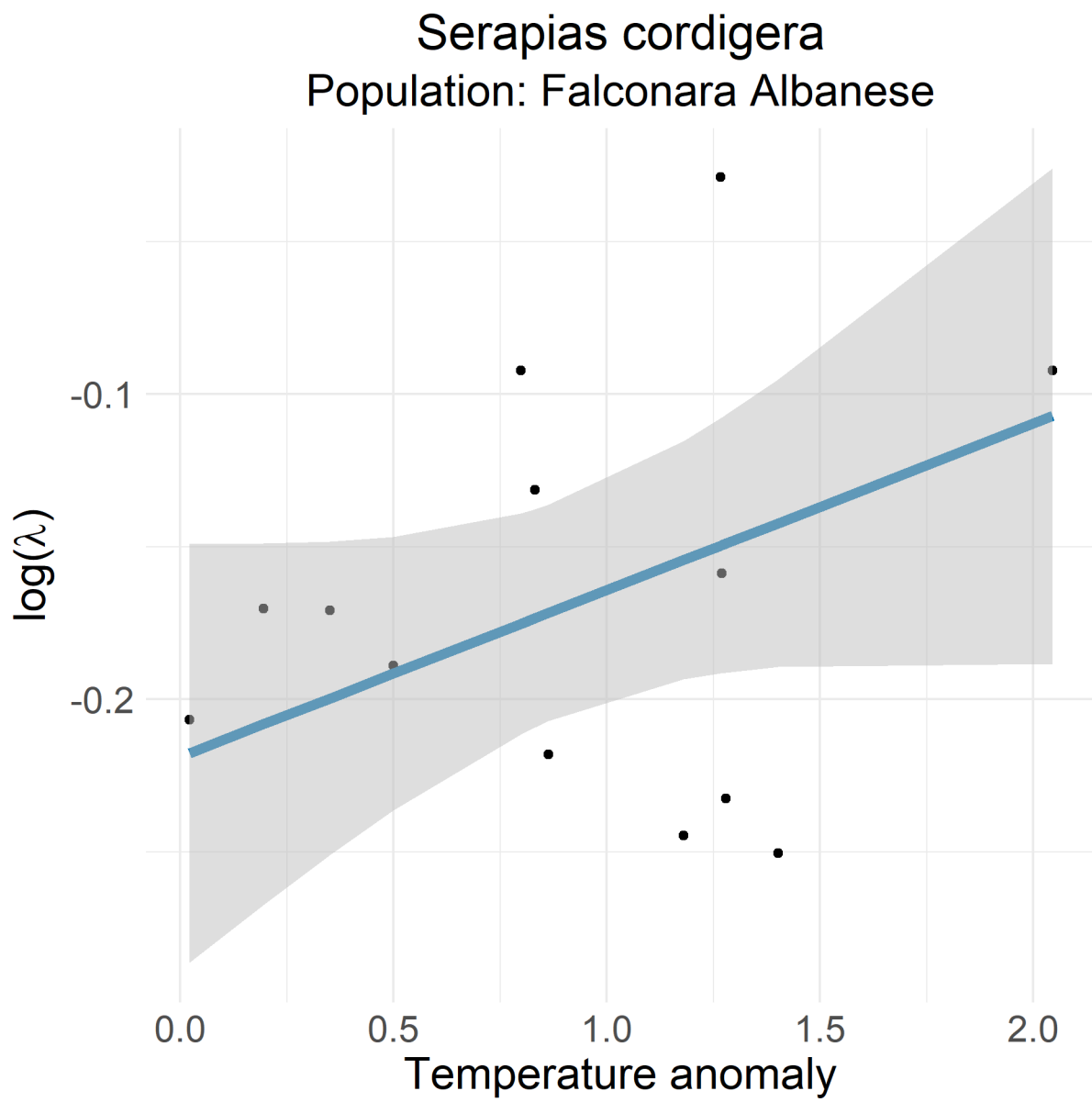


Figure 152: *Serapias cordigera* Falconara Albanese

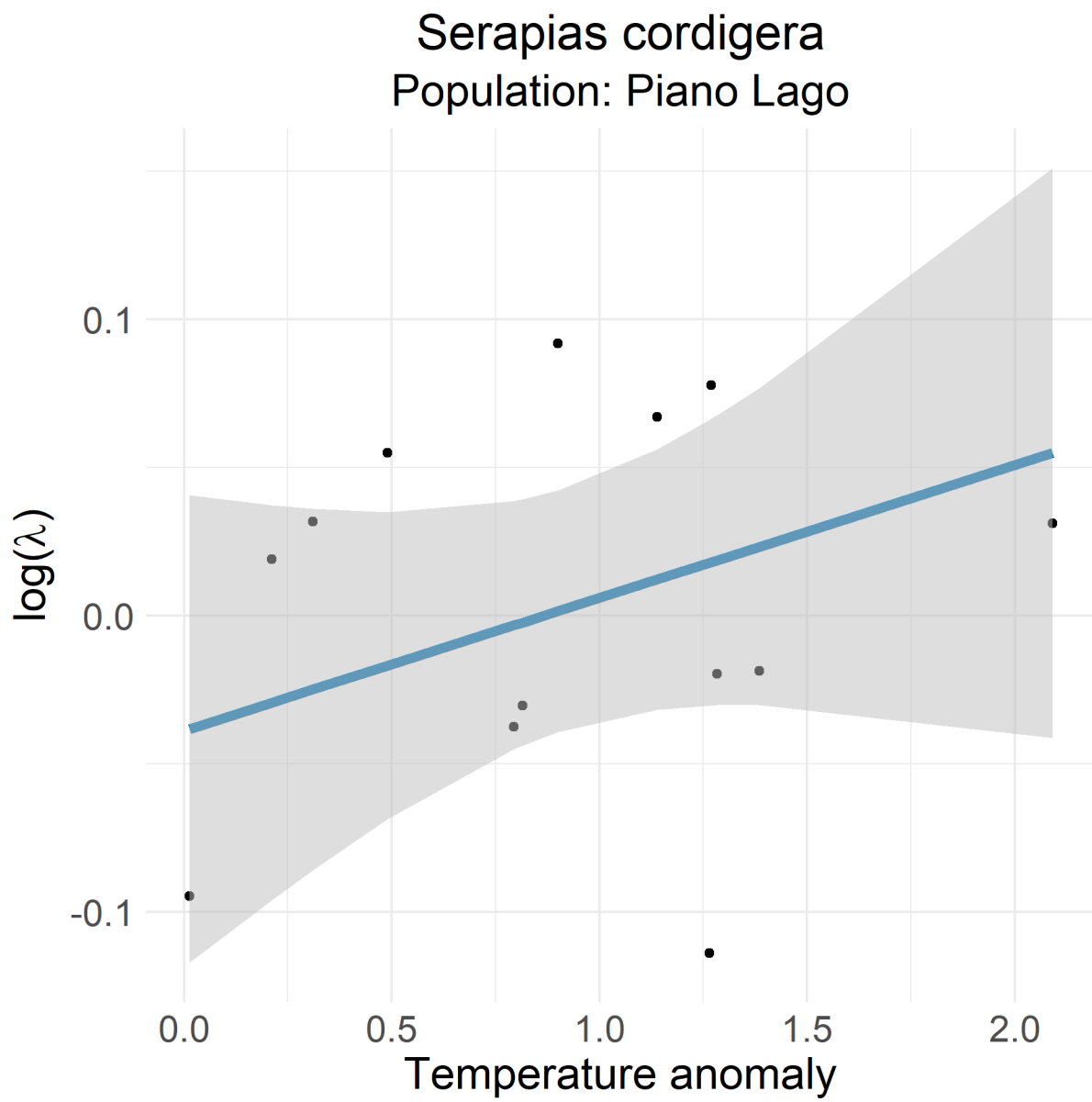


Figure 153: *Serapias cordigera* Piano Lago

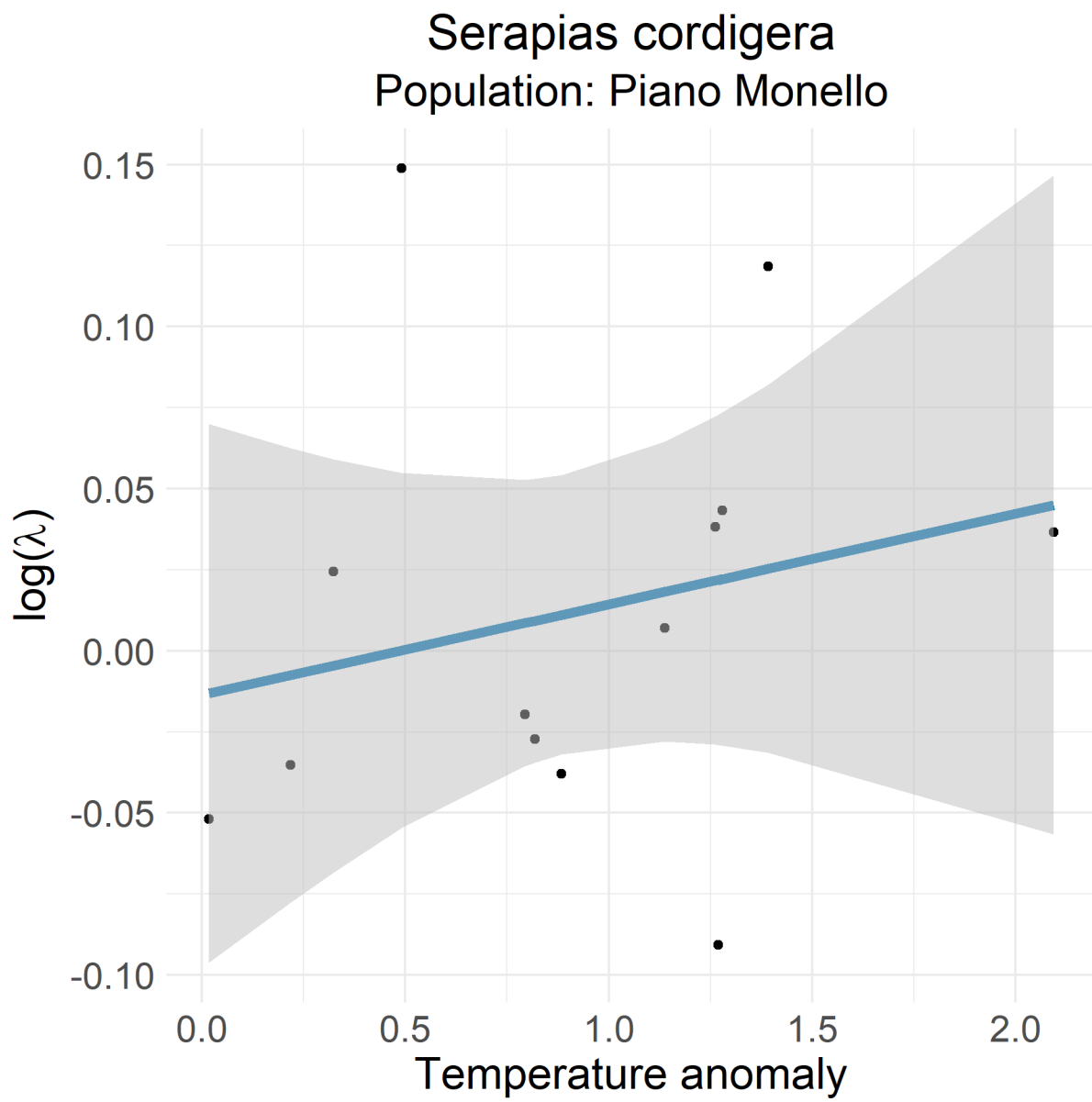


Figure 154: *Serapias cordigera* Piano Monello



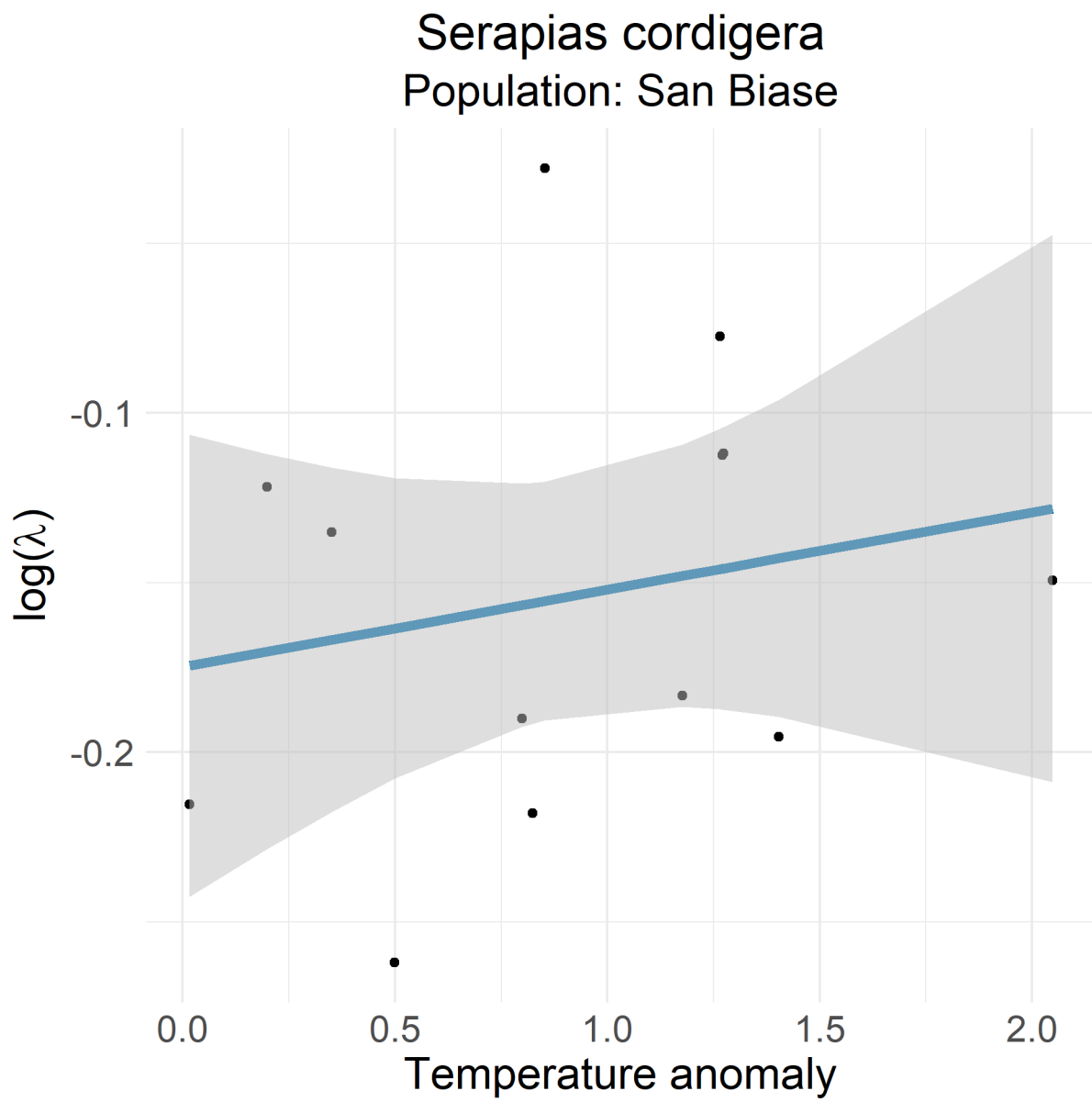


Figure 155: *Serapias cordigera* San Biase

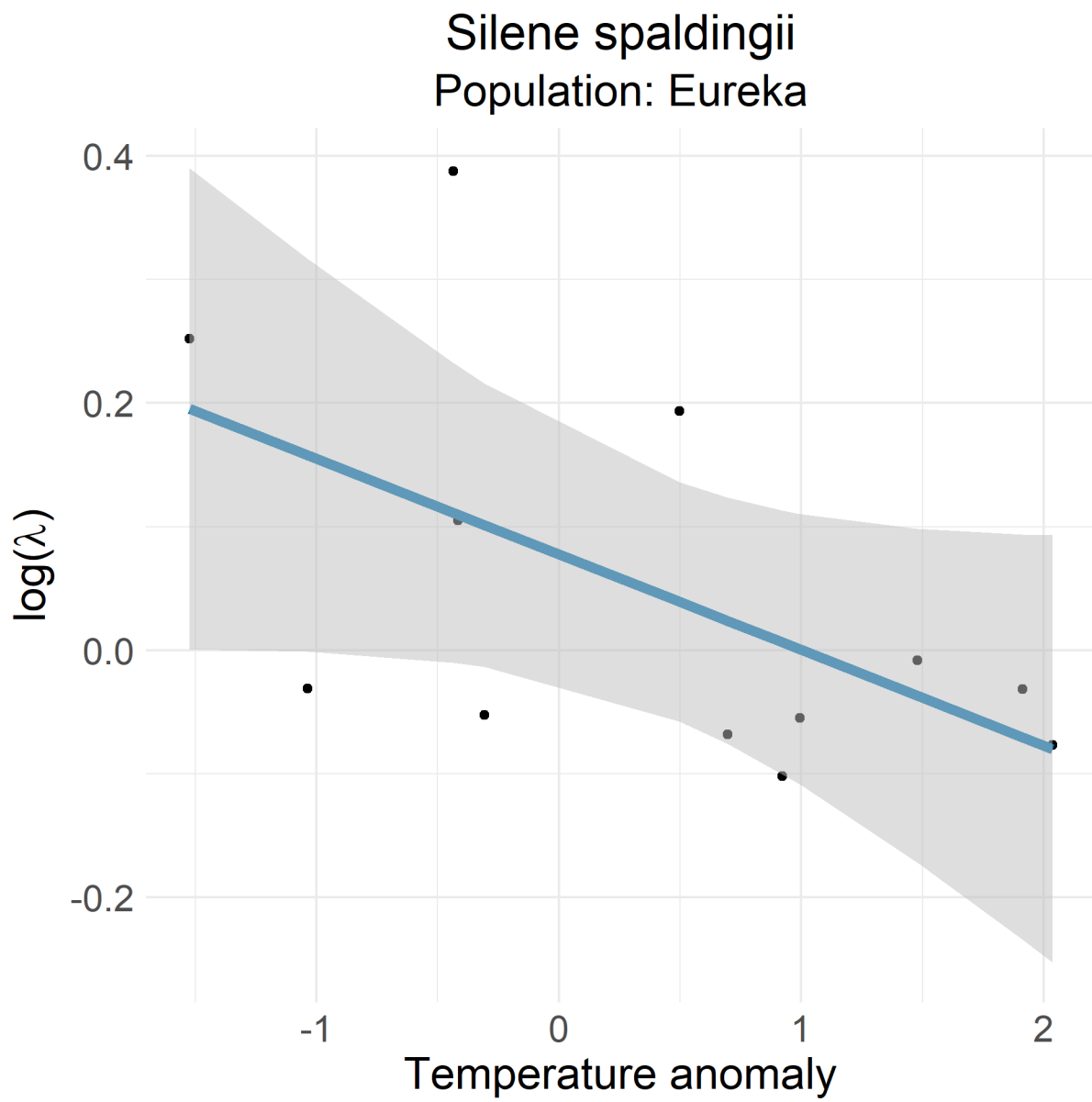


Figure 156: *Silene spaldingii* Eureka

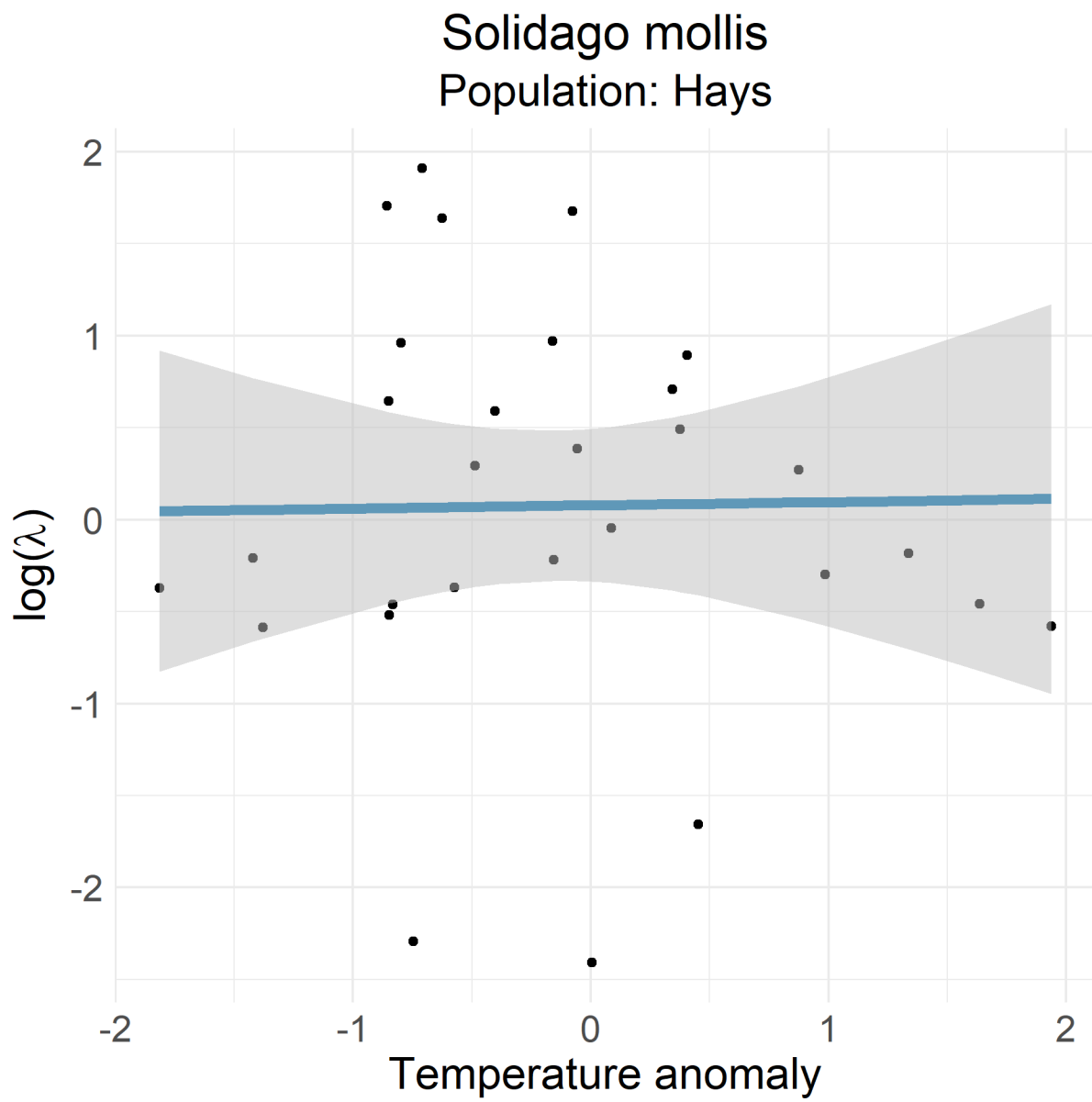


Figure 157: *Solidago mollis* Hays

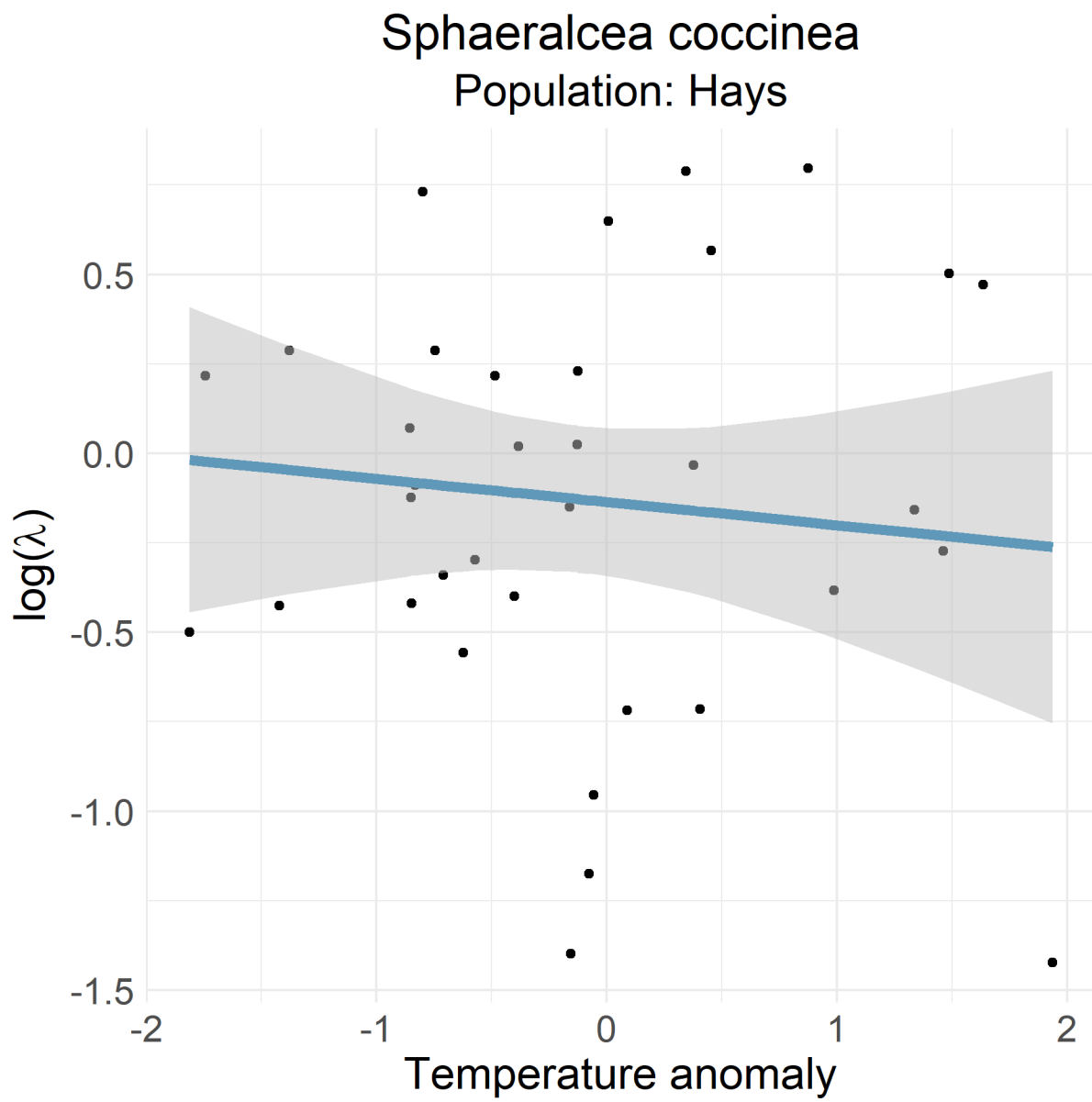


Figure 158: *Sphaeralcea coccinea* Hays

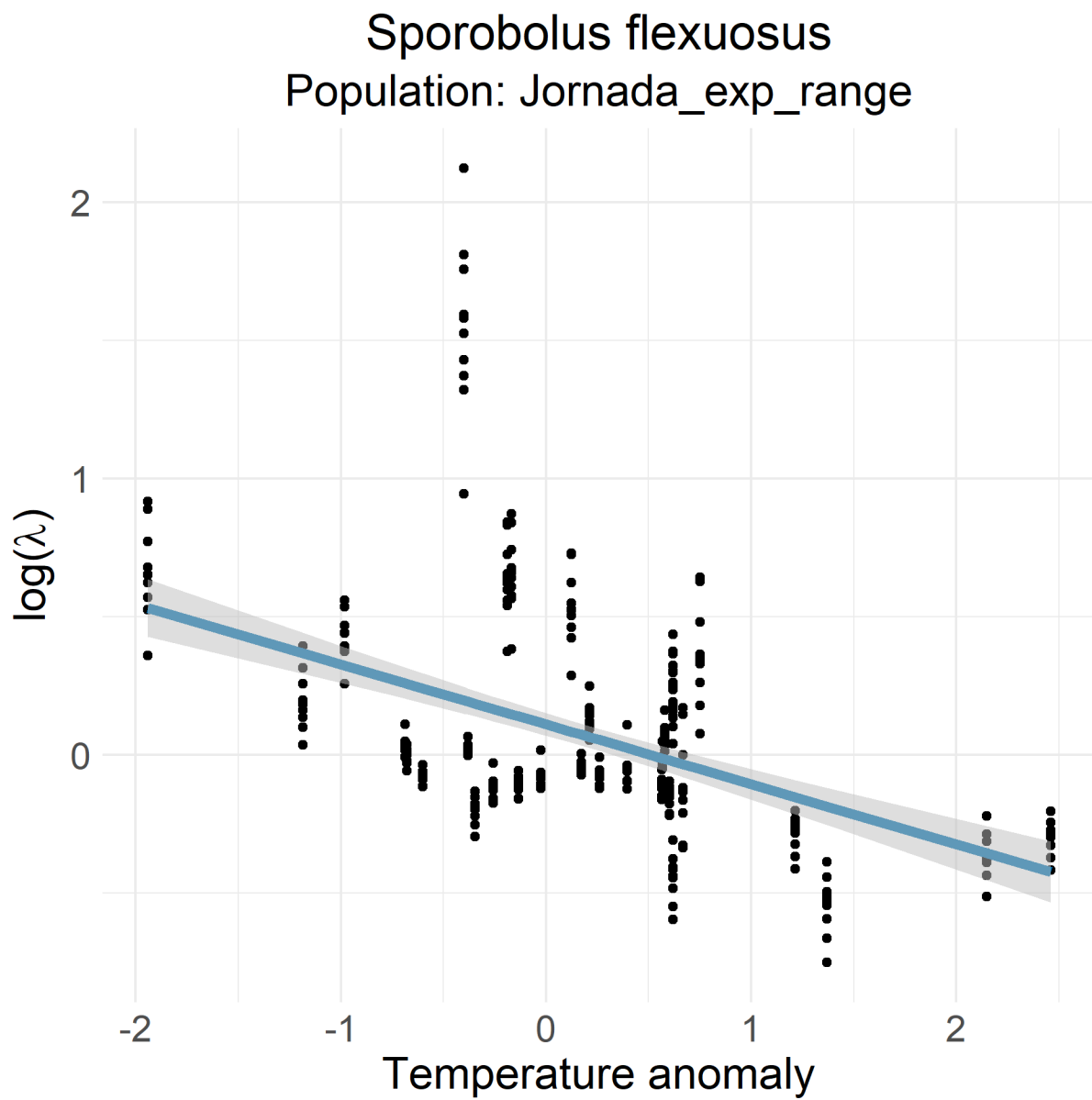


Figure 159: *Sporobolus flexuosus* Jornada exp range

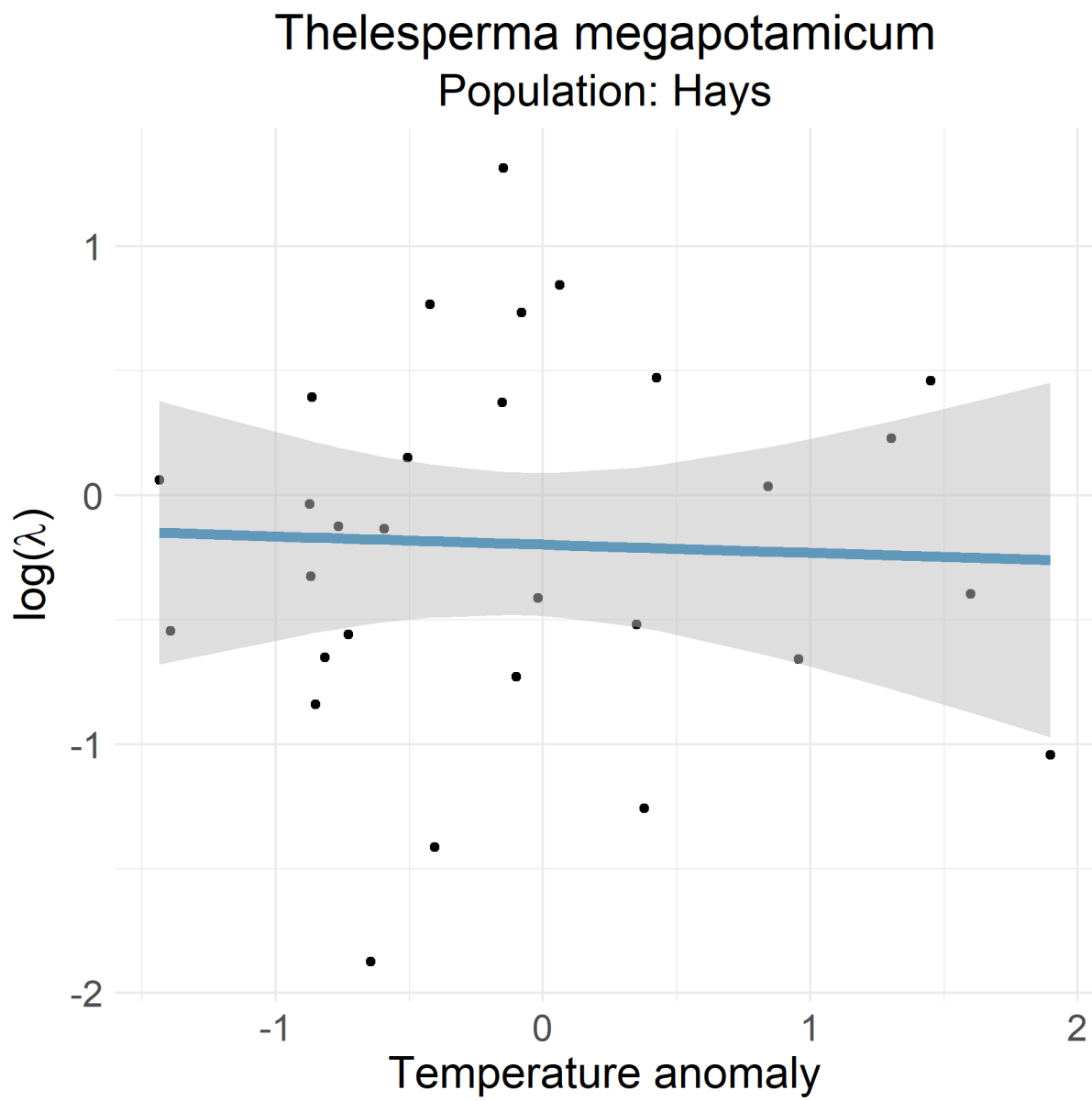


Figure 160: *Thelesperma megapotamicum* Hays

Trillium ovatum  
Population: Big Creek, Bitterroot Valley (Bitterroot National Forest)

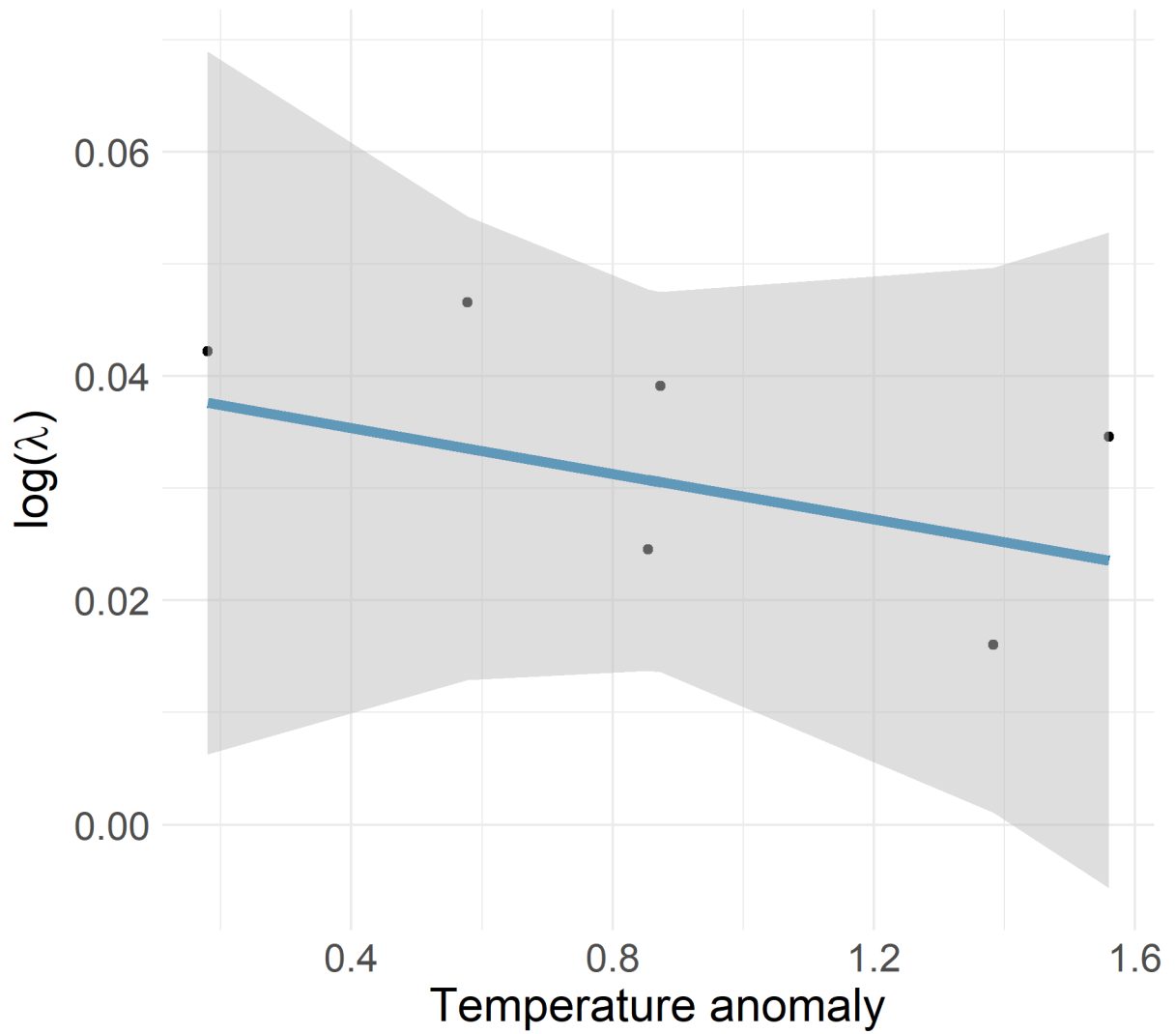


Figure 161: Trillium ovatum Big Creek, Bitterroot Valley (Bitterroot National Forest)

Trillium ovatum  
Population: Grant Creek, Missoula Valley (Lolo National

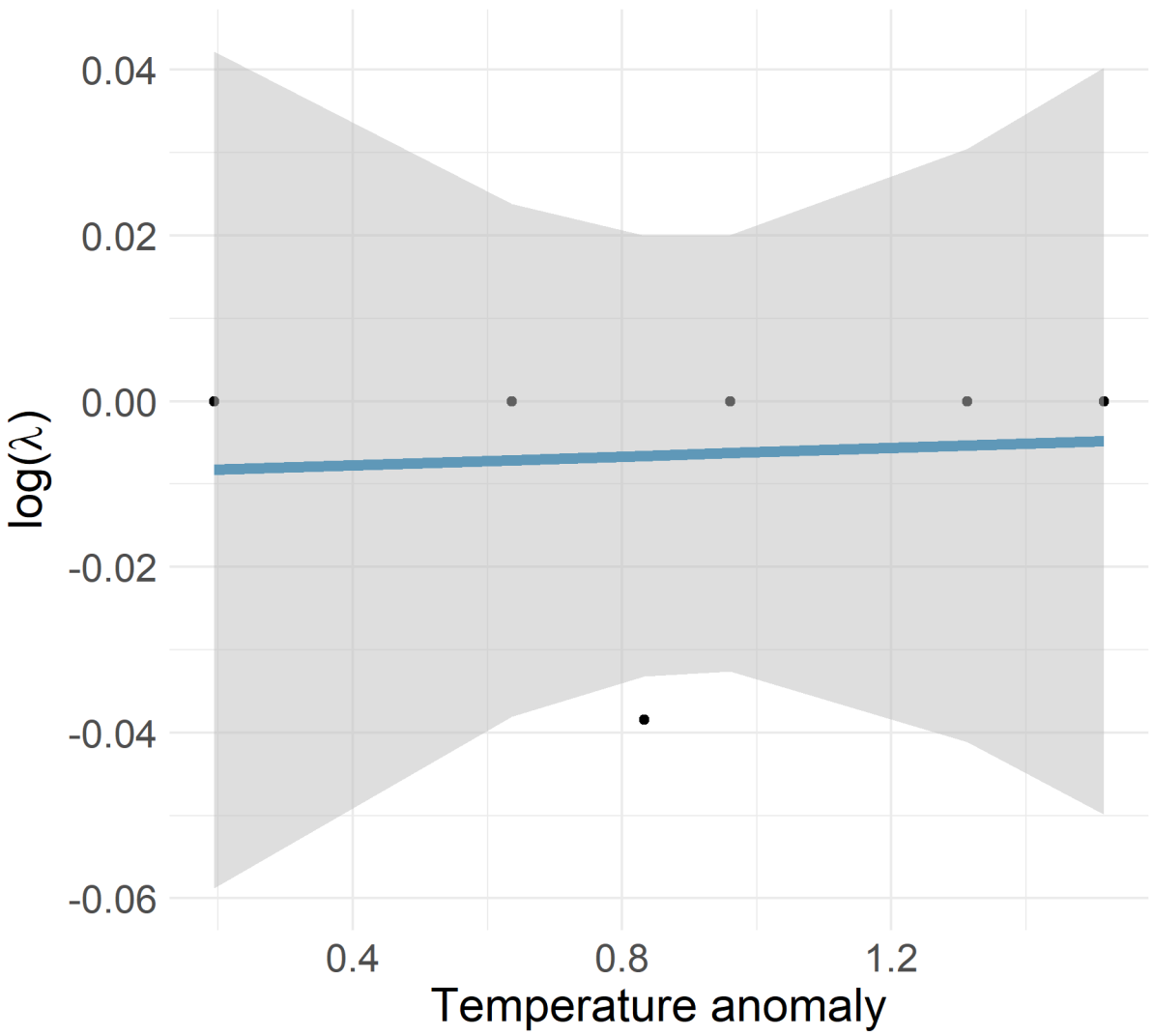


Figure 162: *Trillium ovatum* Grant Creek, Missoula Valley (Lolo National Forest)