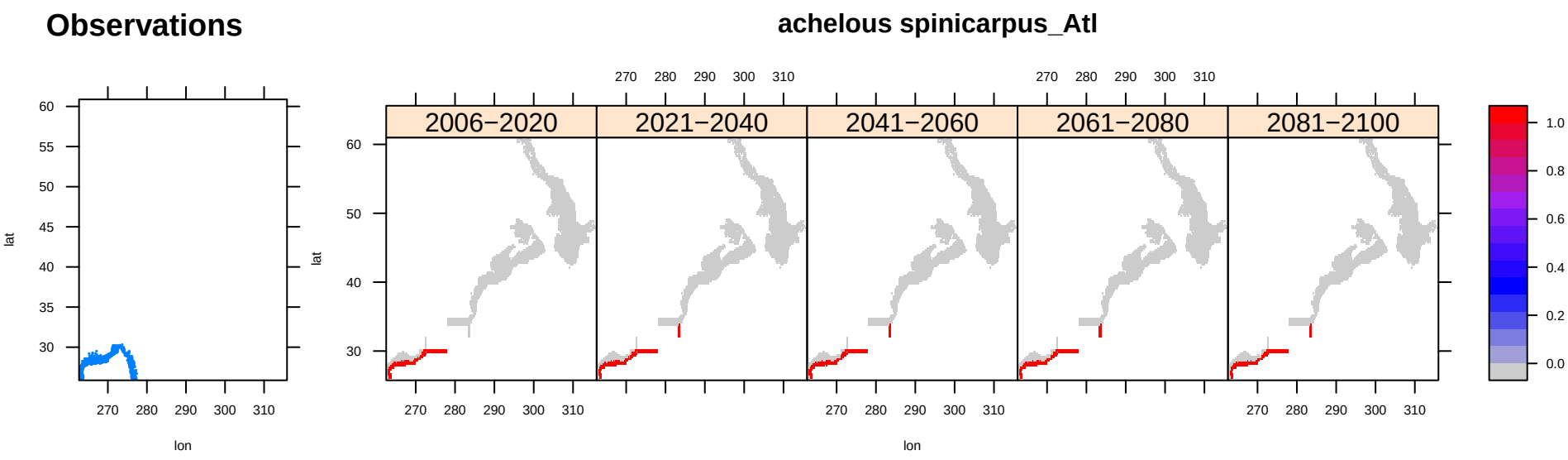
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achelous spinicarpus_Atl
2006−2020
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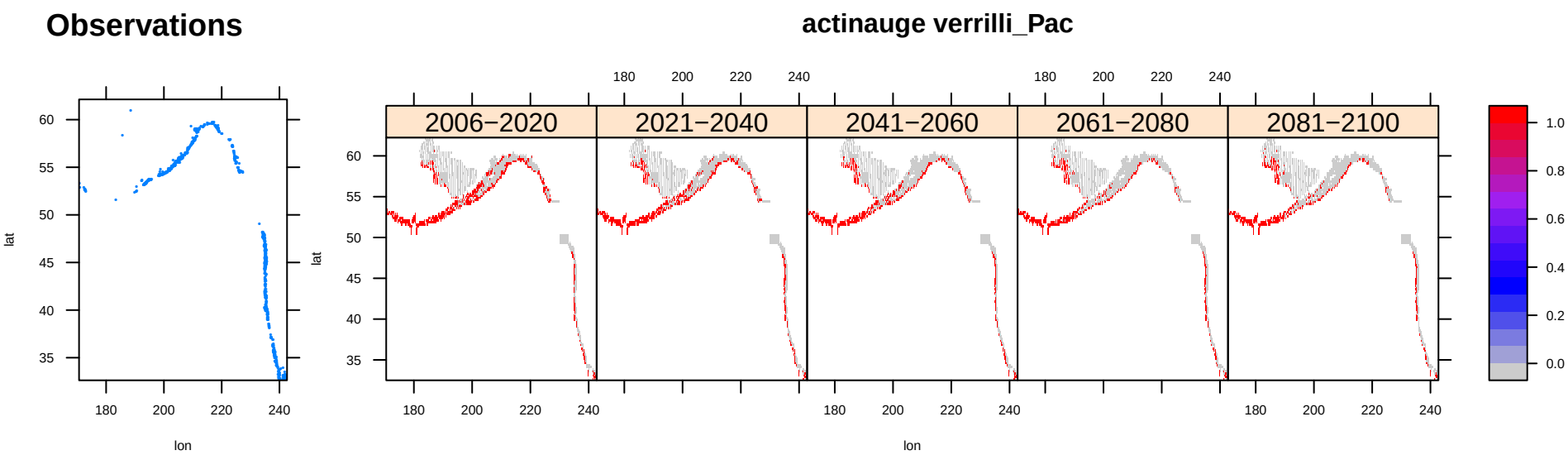
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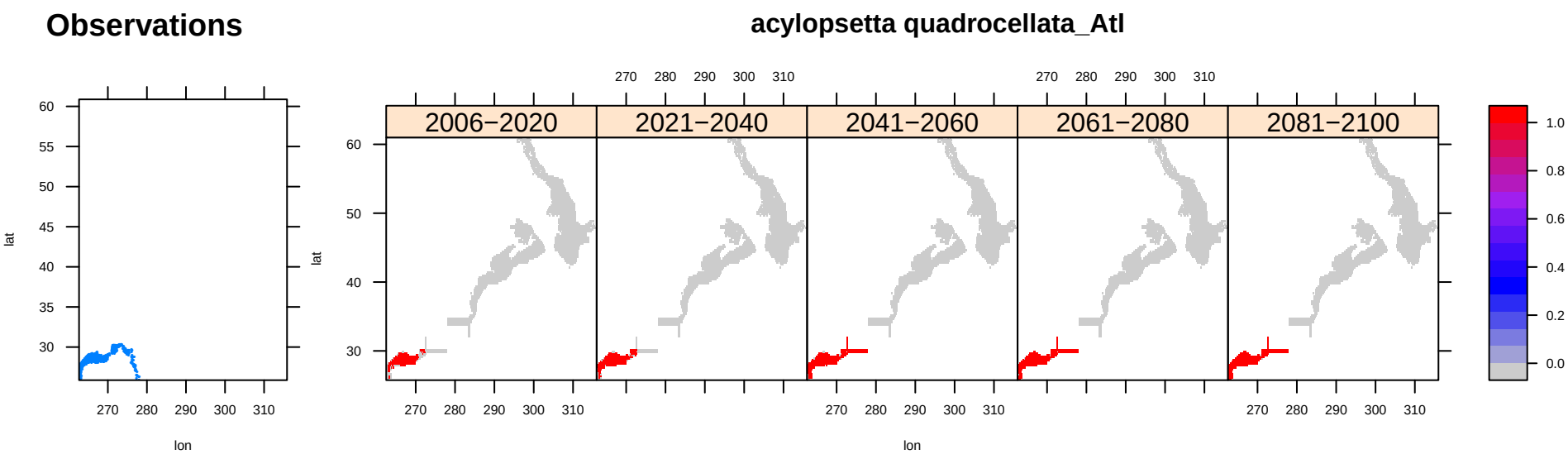
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acylopsetta quadrocellata_Atl
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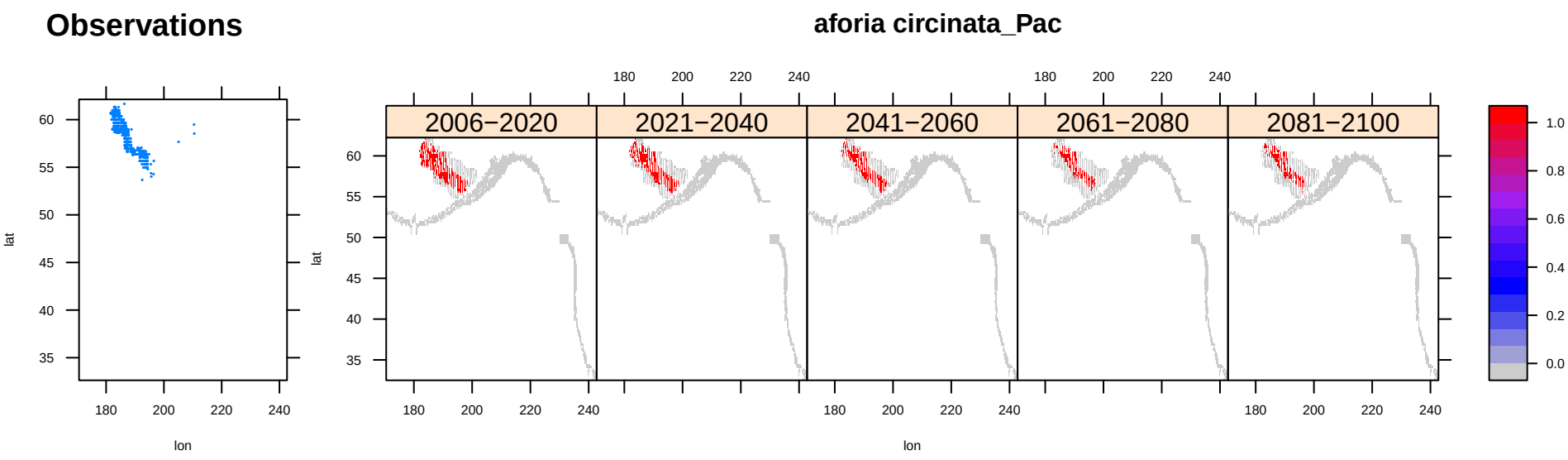
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aforia circinata_Pac
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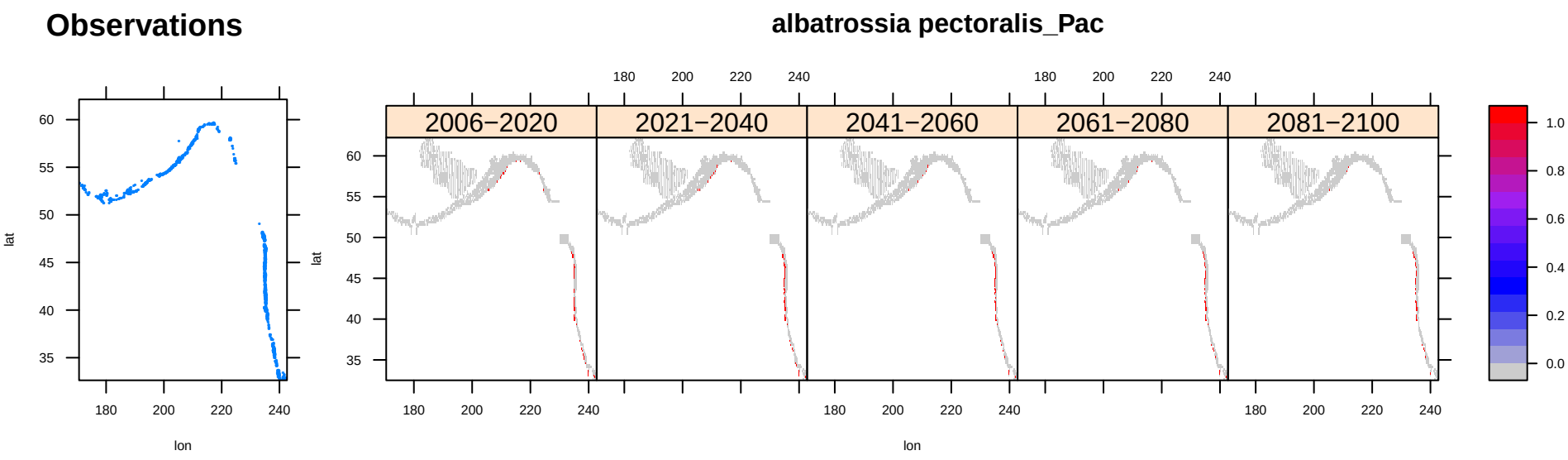
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albatrossia pectoralis_Pac
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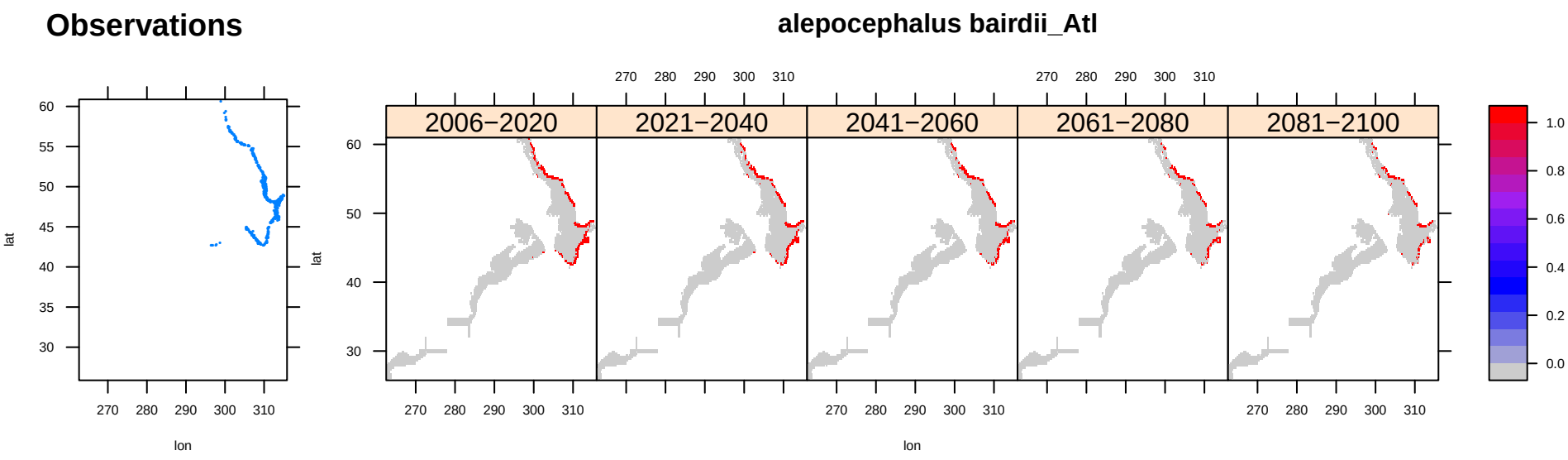
Observations
alepocephalus bairdii_Atl
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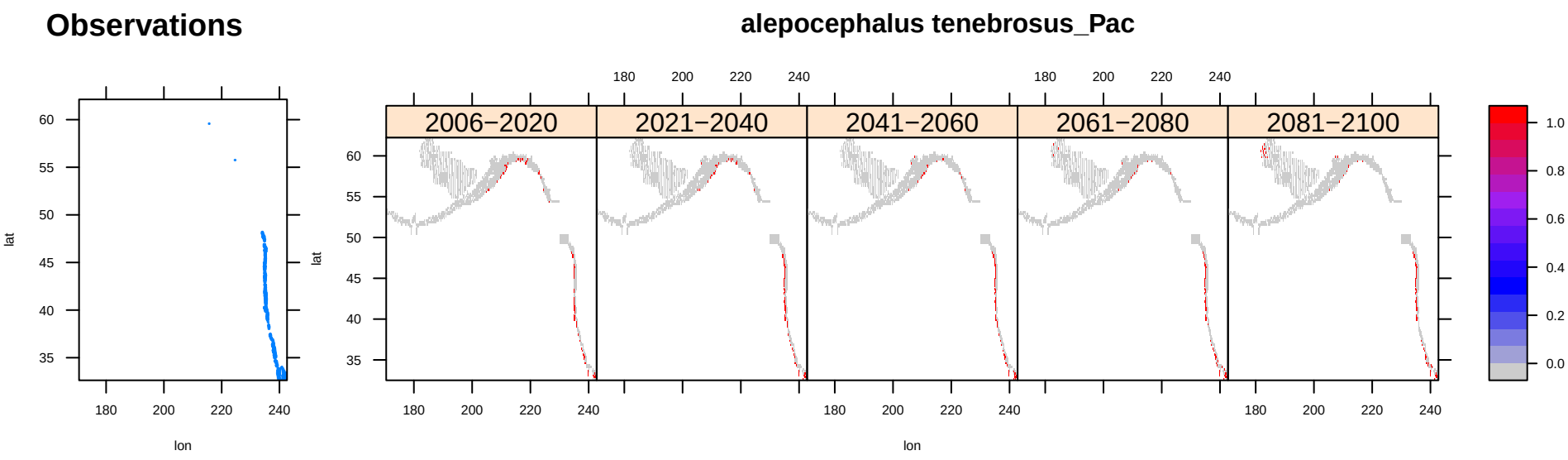
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alepocephalus tenebrosus_Pac
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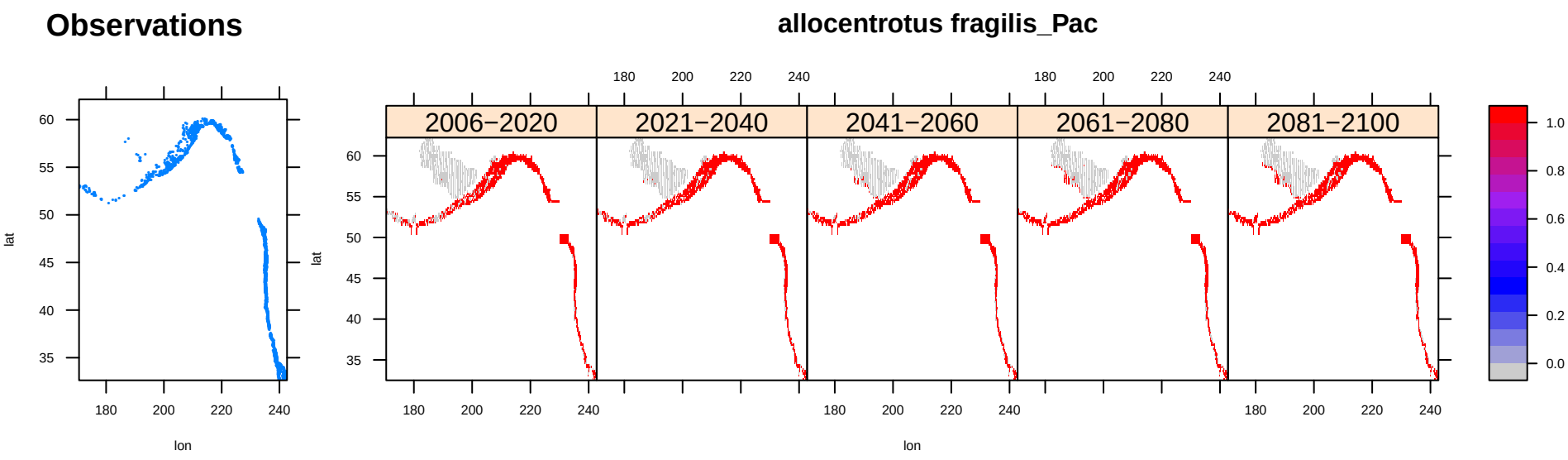
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allocentrotus fragilis_Pac
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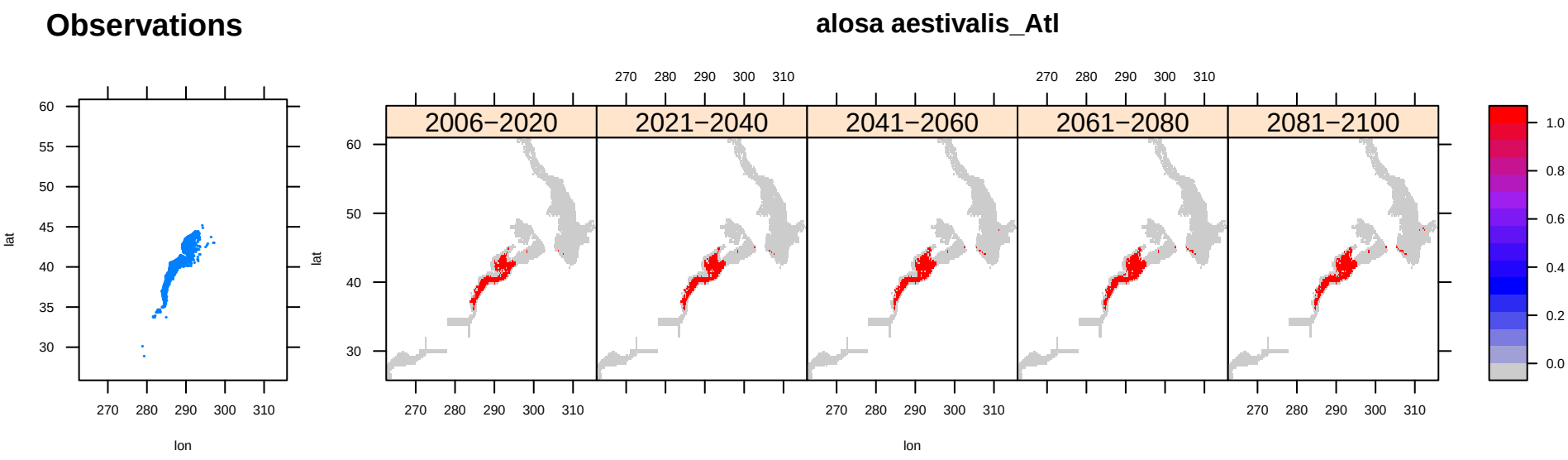
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alosa aestivalis_Atl
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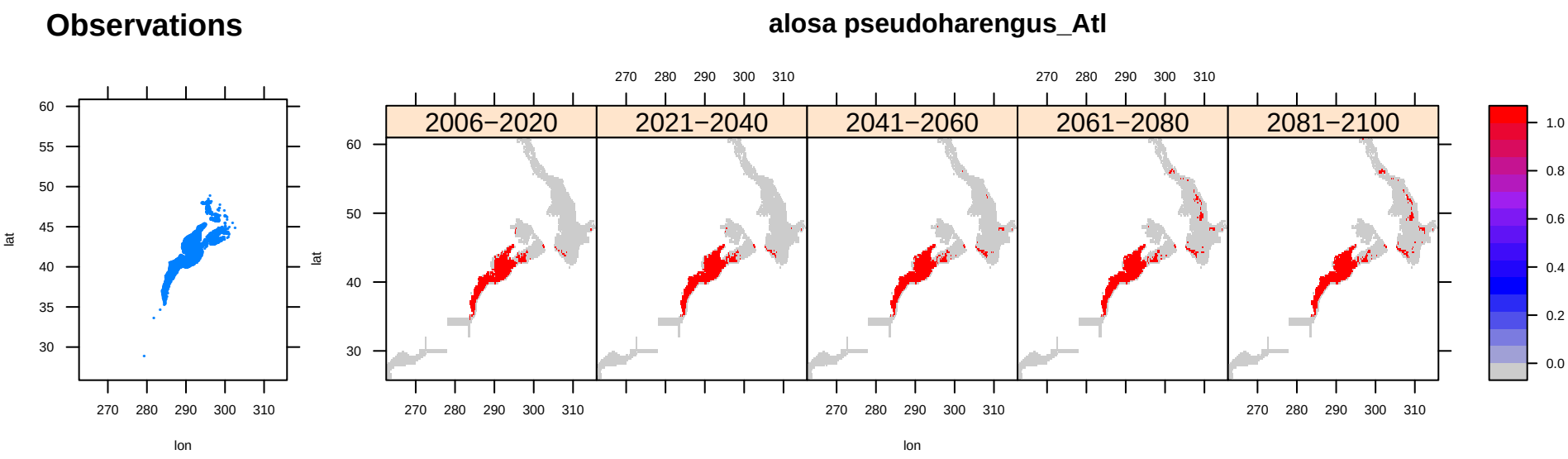
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alosa pseudoharengus_Atl
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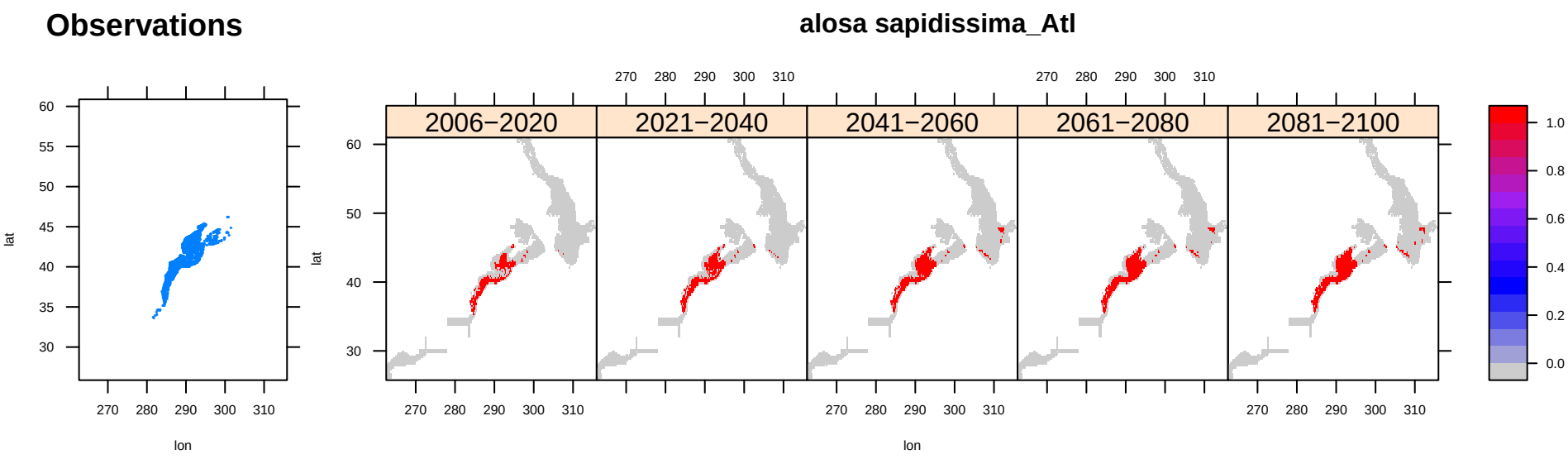
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alosa sapidissima_Atl
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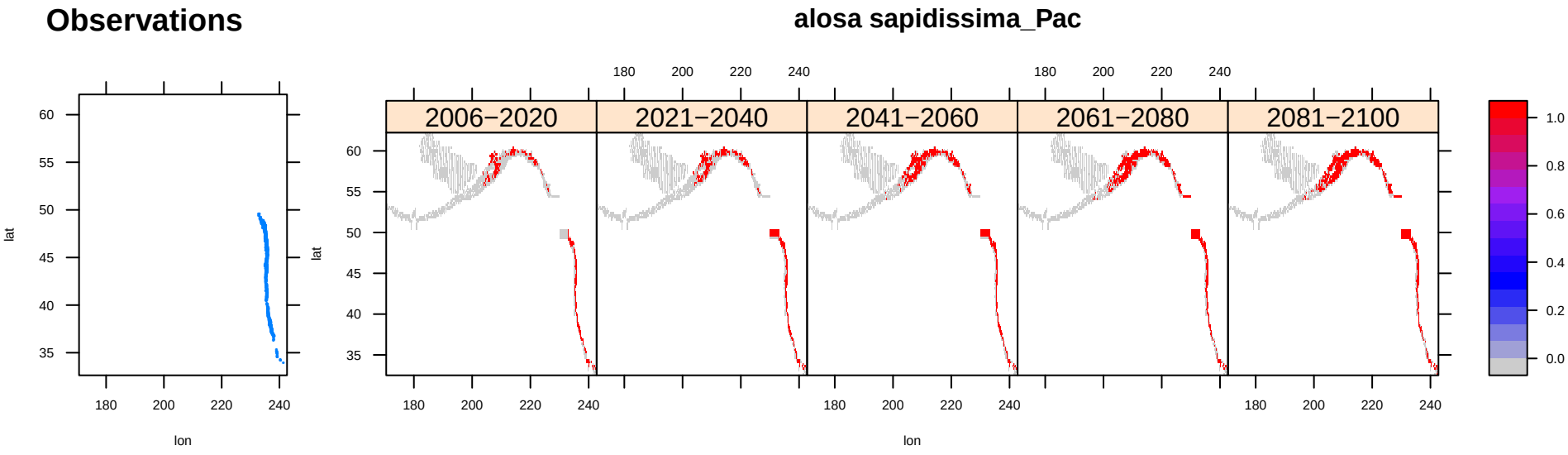
Observations
alosa sapidissima_Pac
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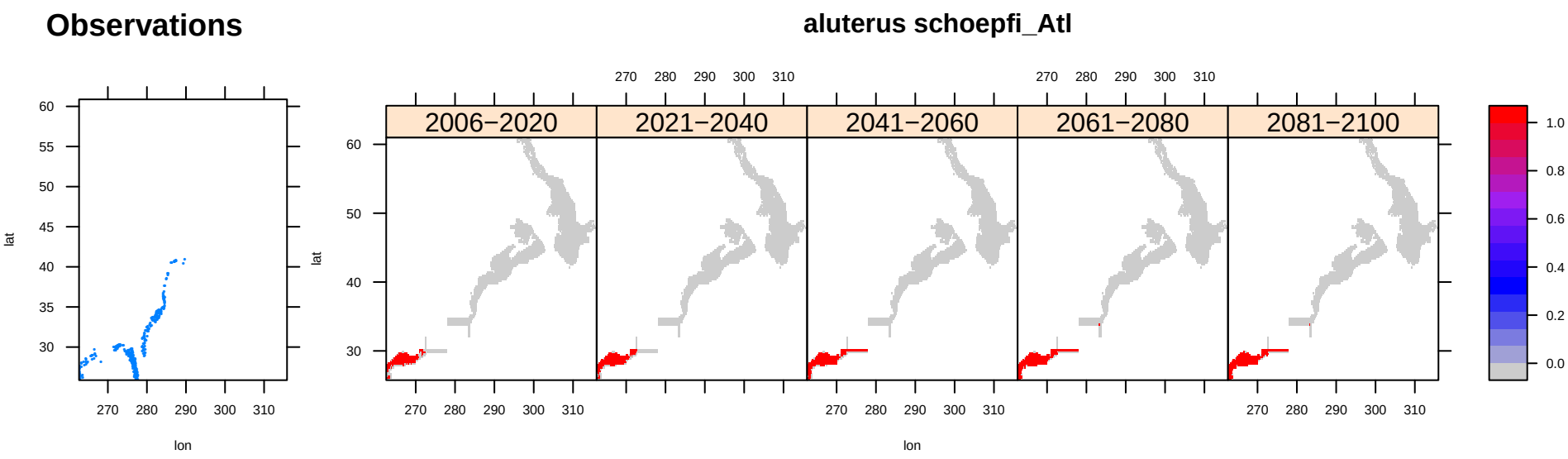
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aluterus schoepfi_Atl
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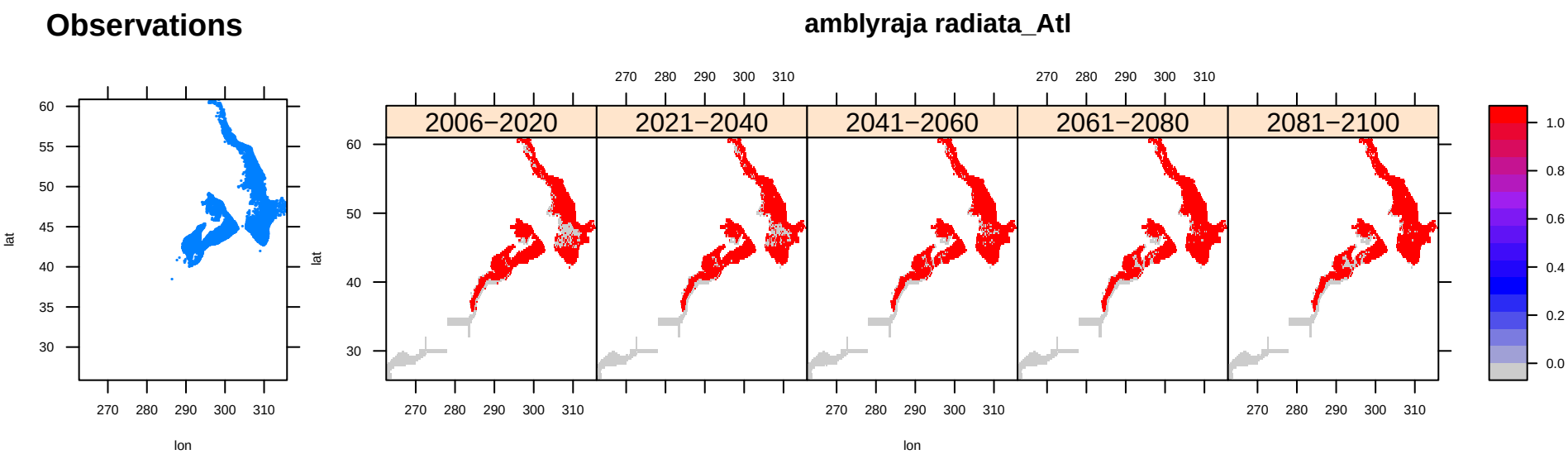
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amblyraja radiata_Atl
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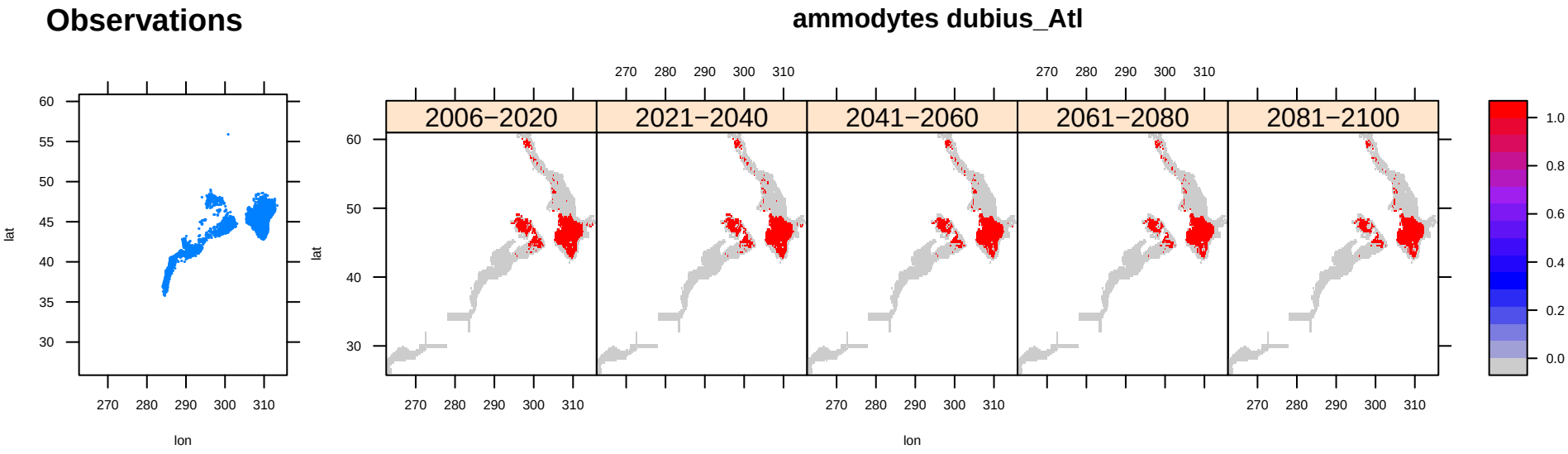
Observations
ammodytes dubius_Atl
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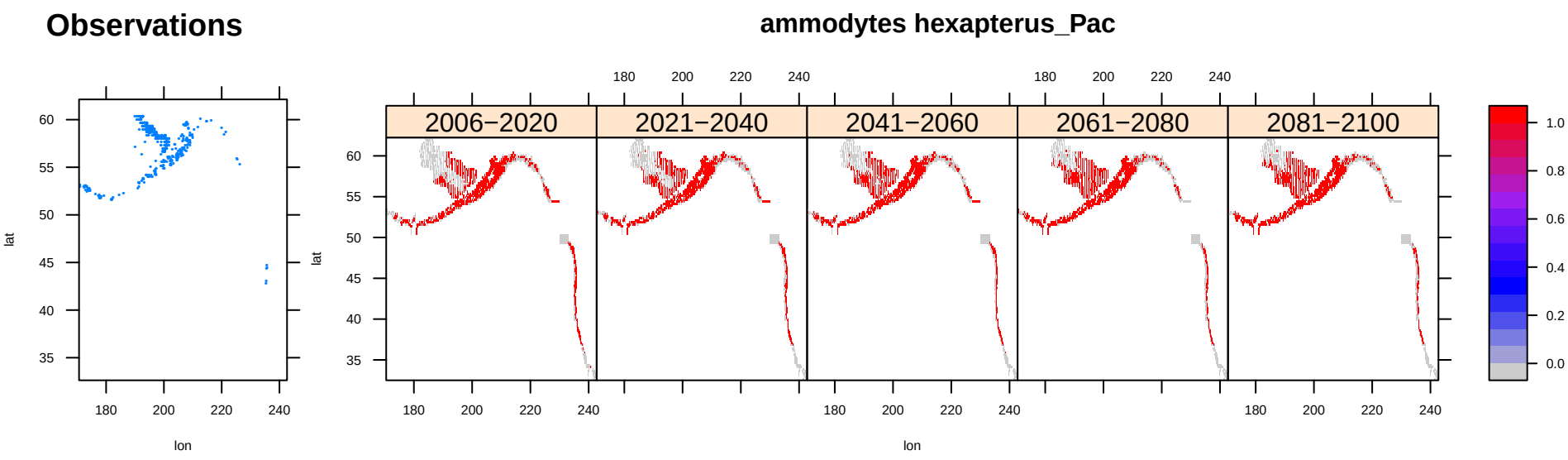
Observations
ammodytes hexapterus_Pac
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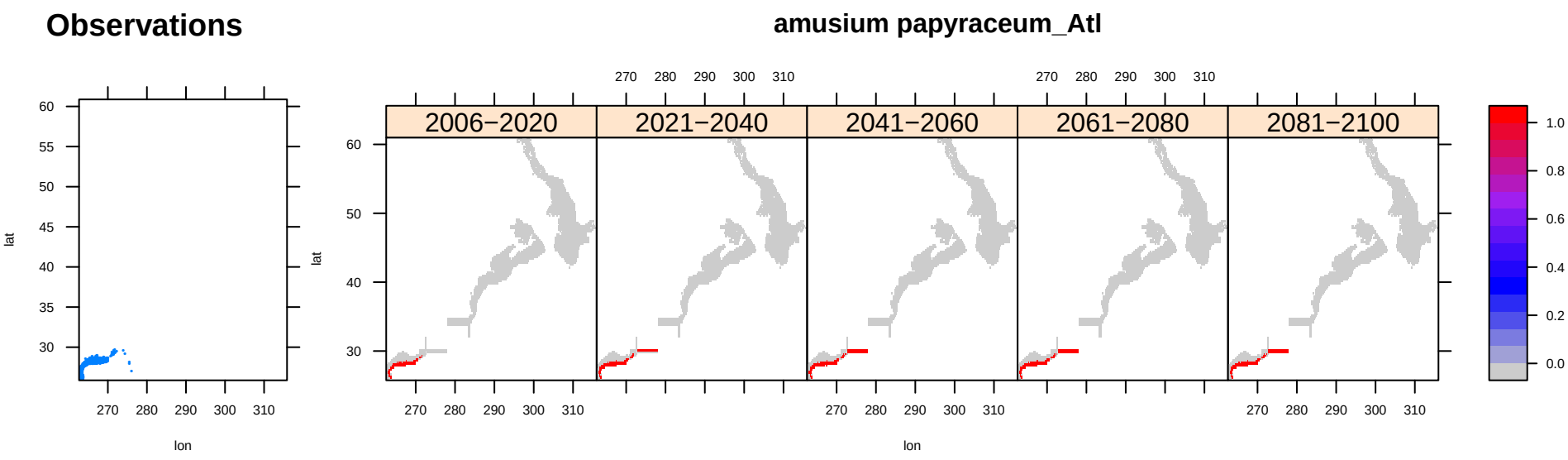
Observations
amusium papyraceum_Atl
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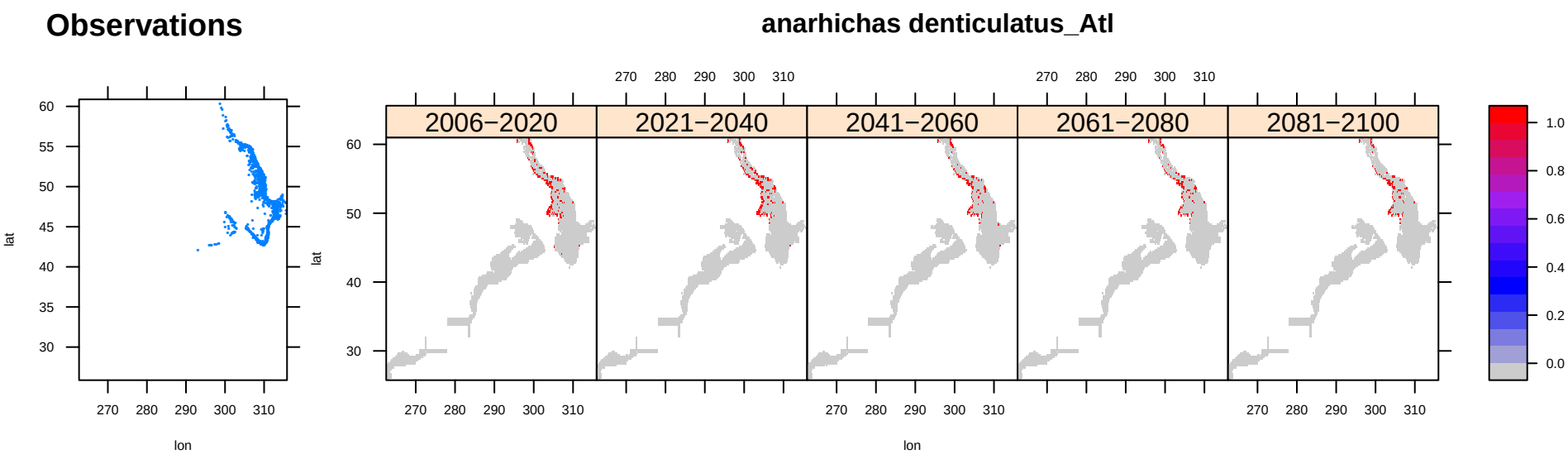
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anarhichas denticulatus_Atl
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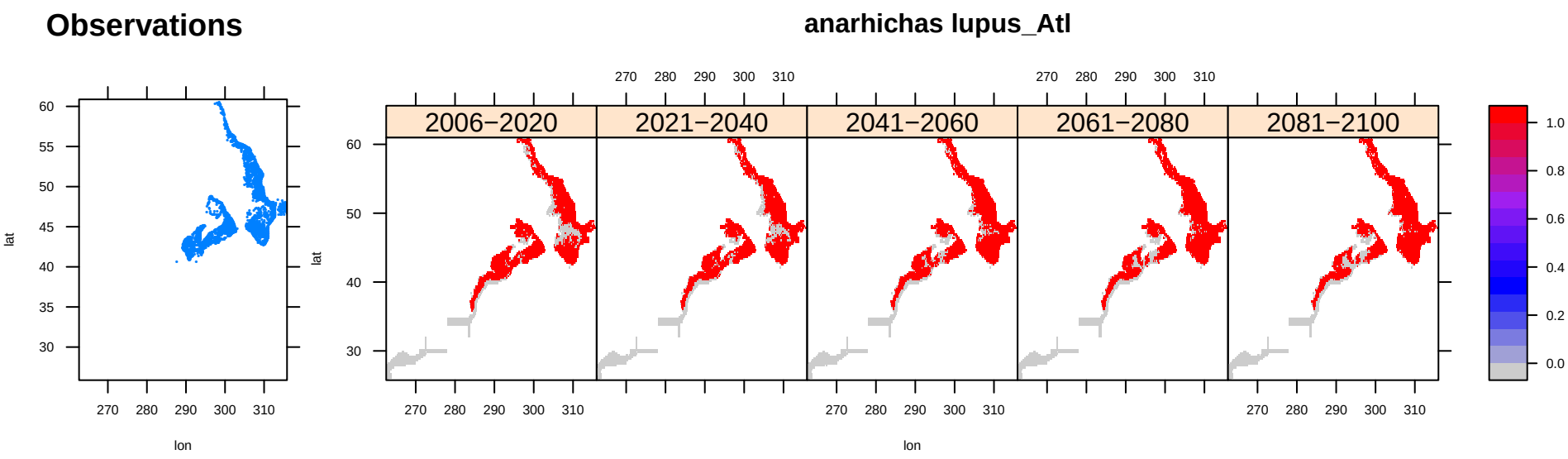
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anarhichas lupus_Atl
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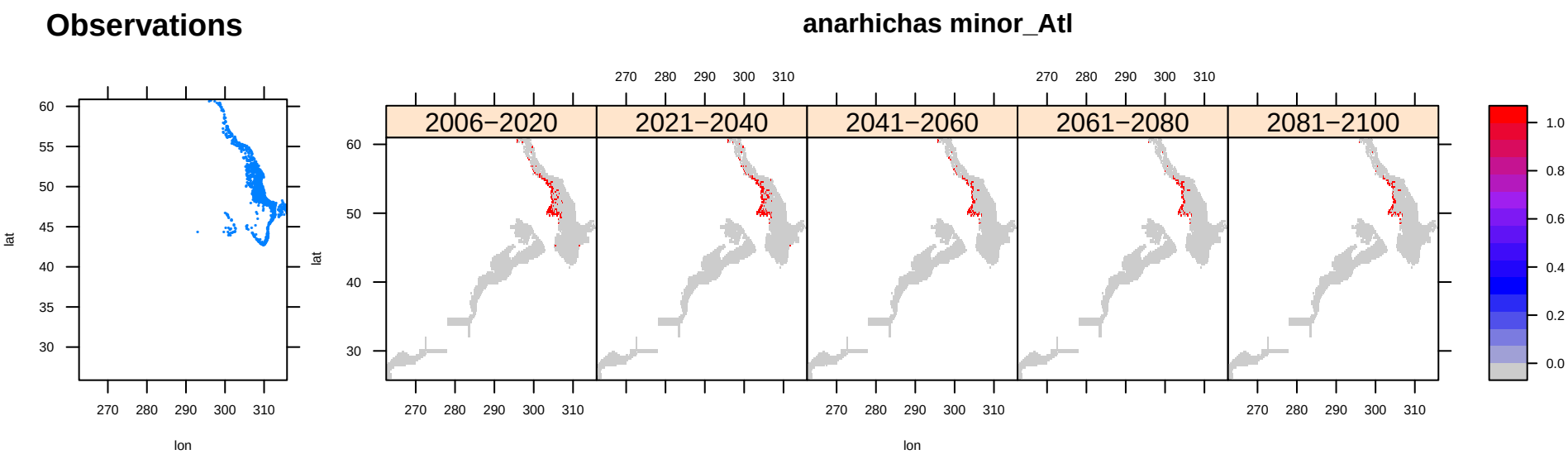
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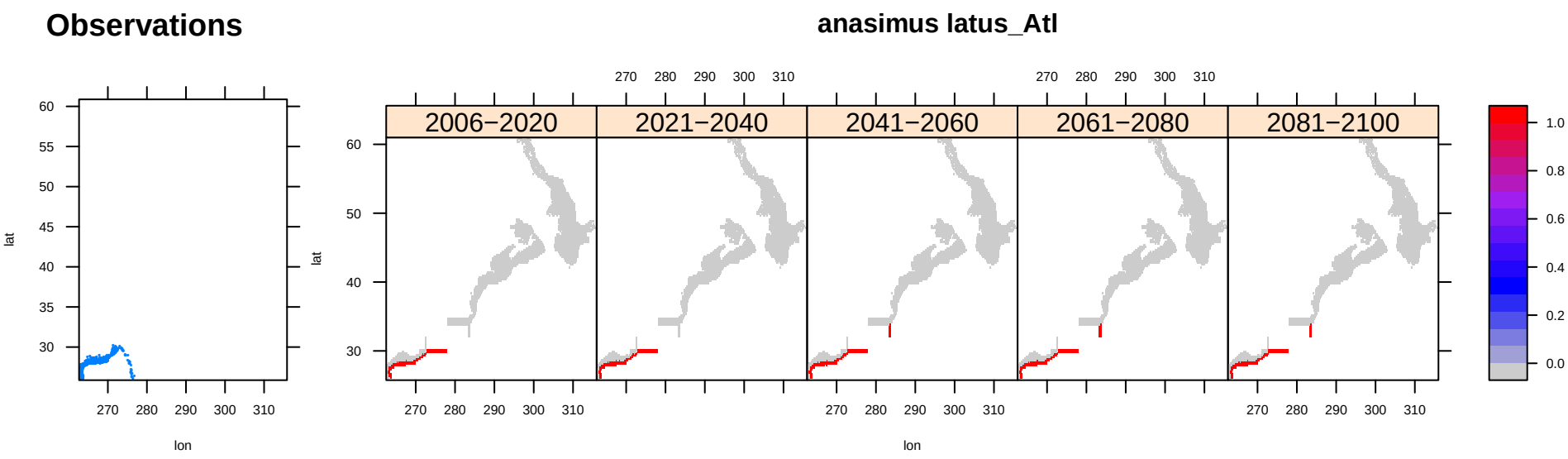
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anasimus latus_Atl
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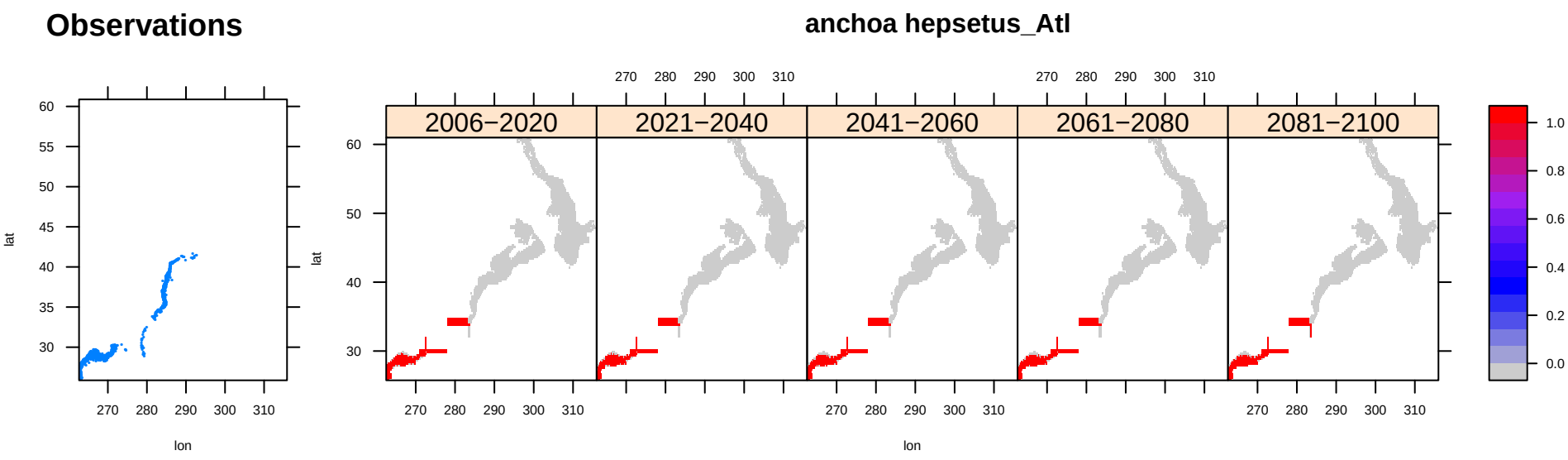
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anchoa hepsetus_Atl
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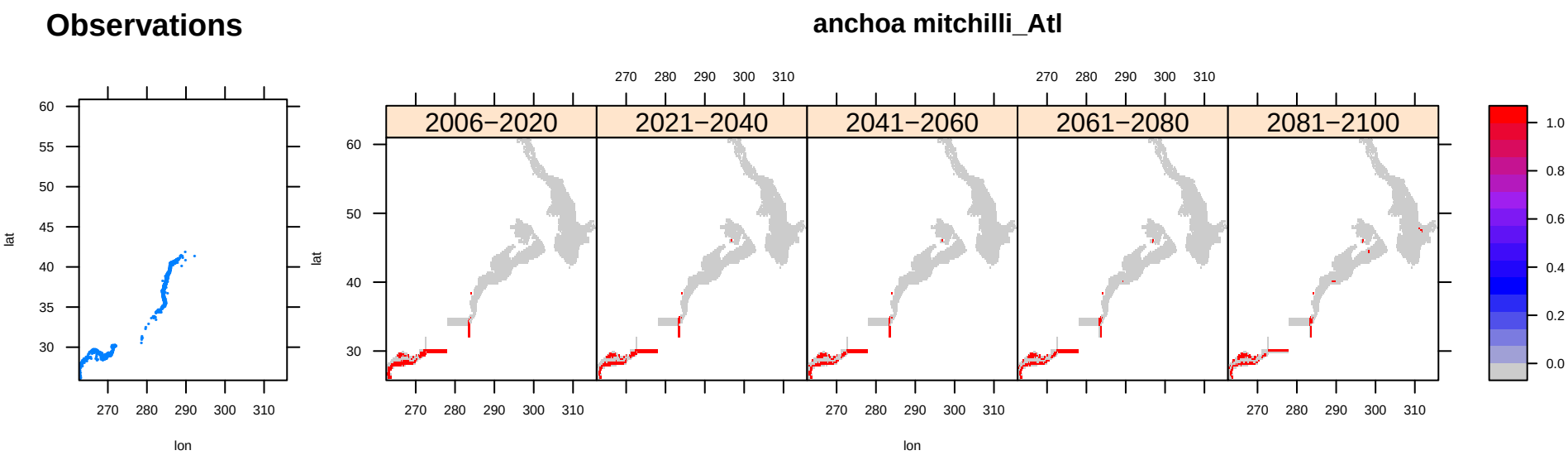
Observations
anchoa mitchilli_Atl
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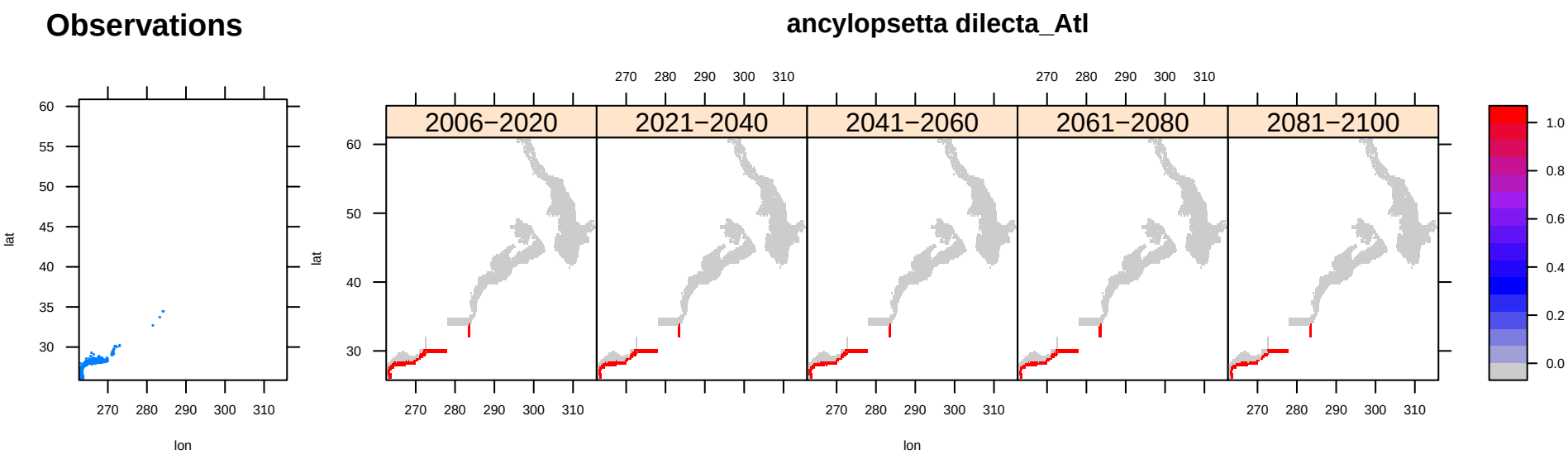
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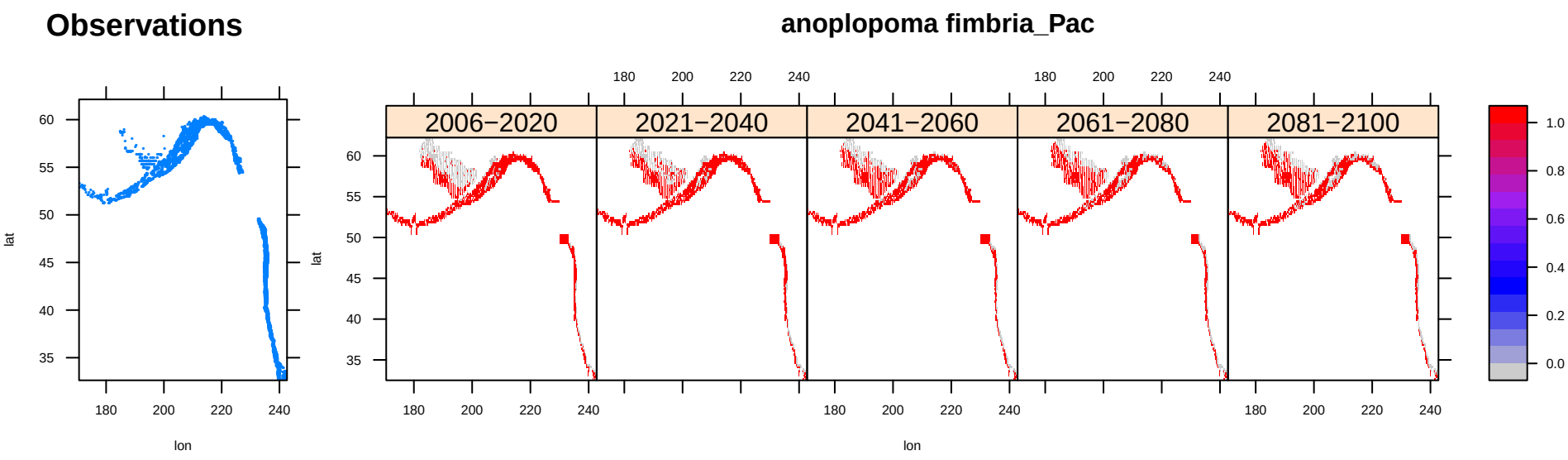
Observations
anoplopoma fimbria_Pac
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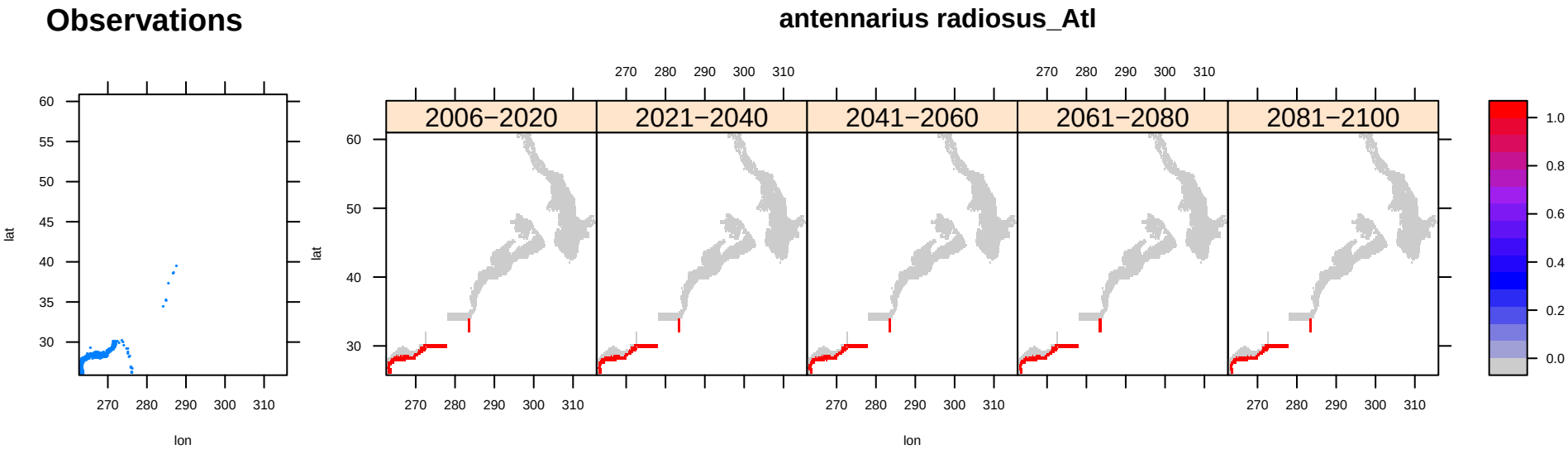
Observations
antennarius radiosus_Atl
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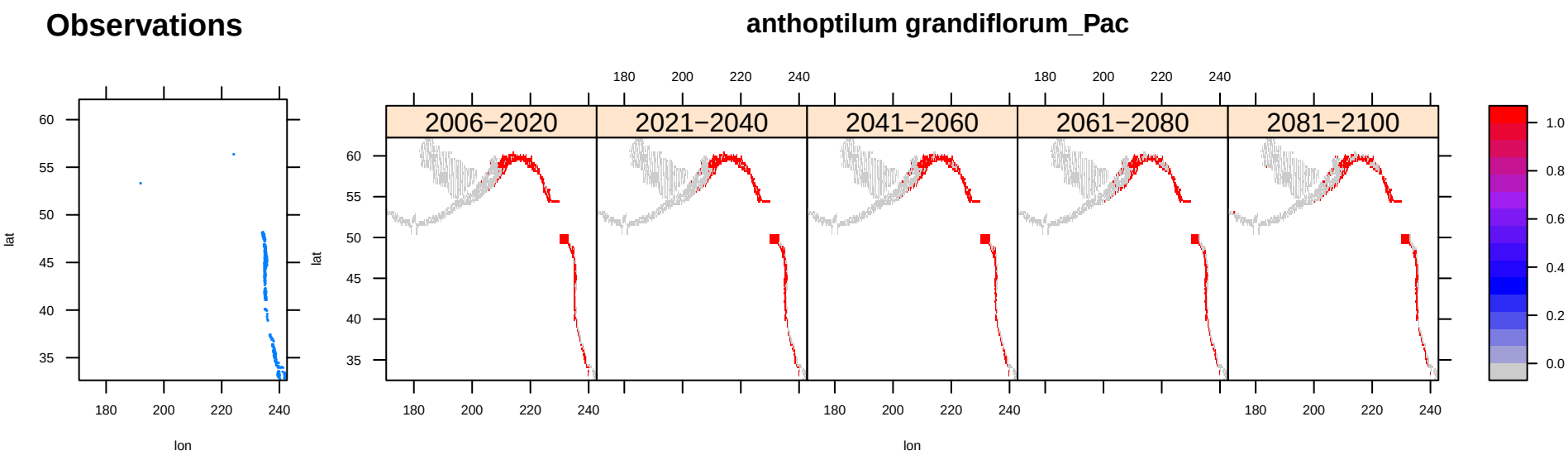
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anthoptilum grandiflorum_Pac
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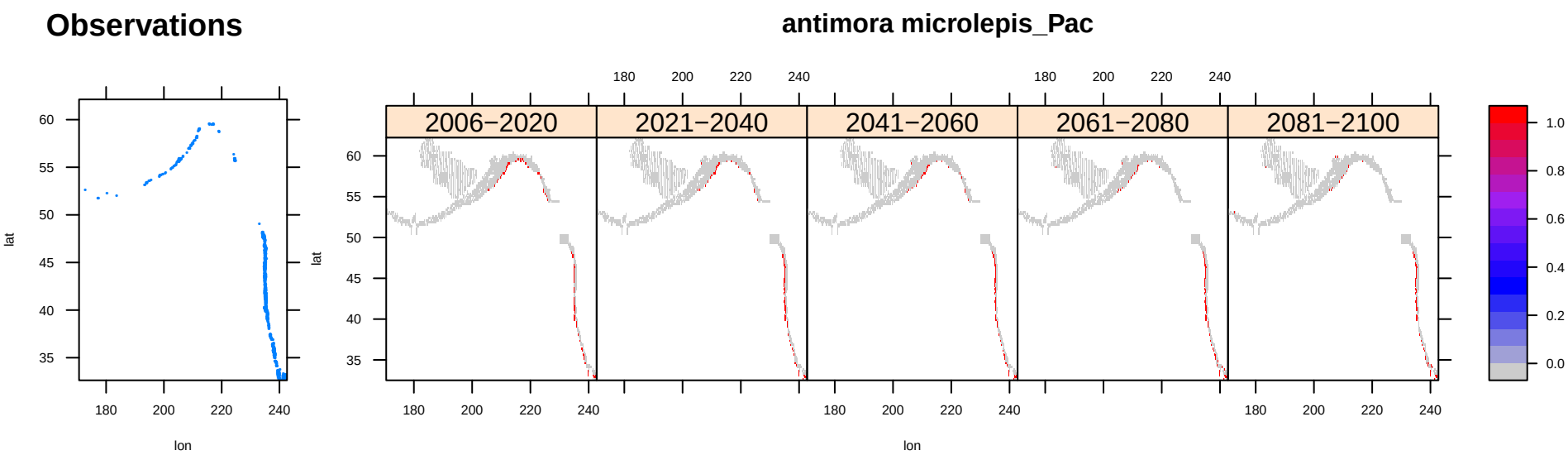
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antimora microlepis_Pac
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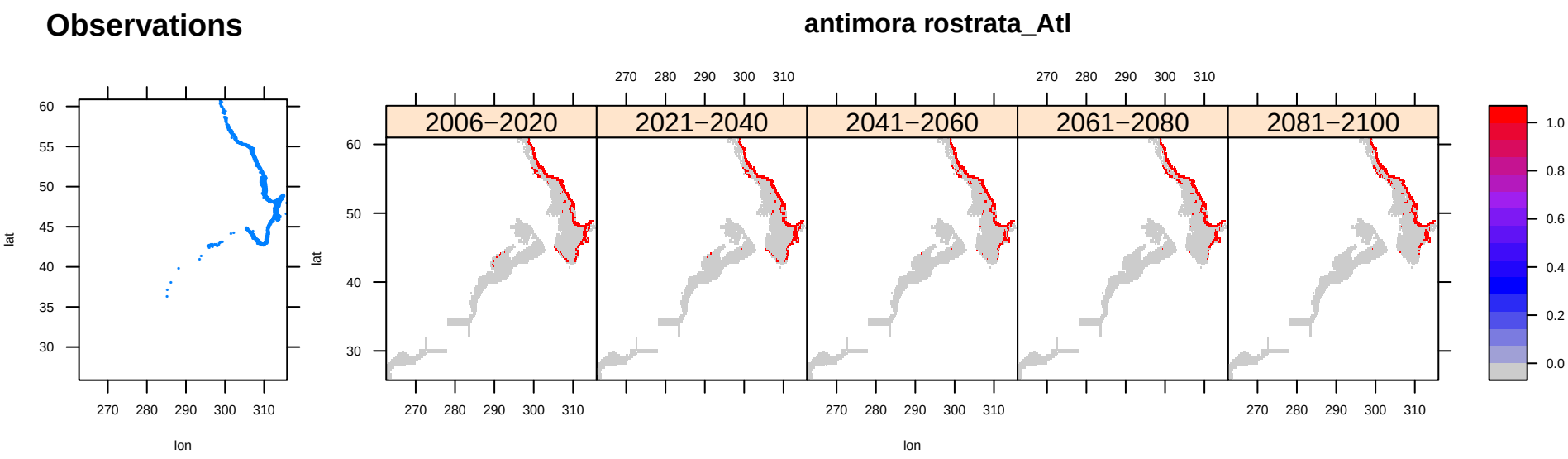
Observations
antimora rostrata_Atl
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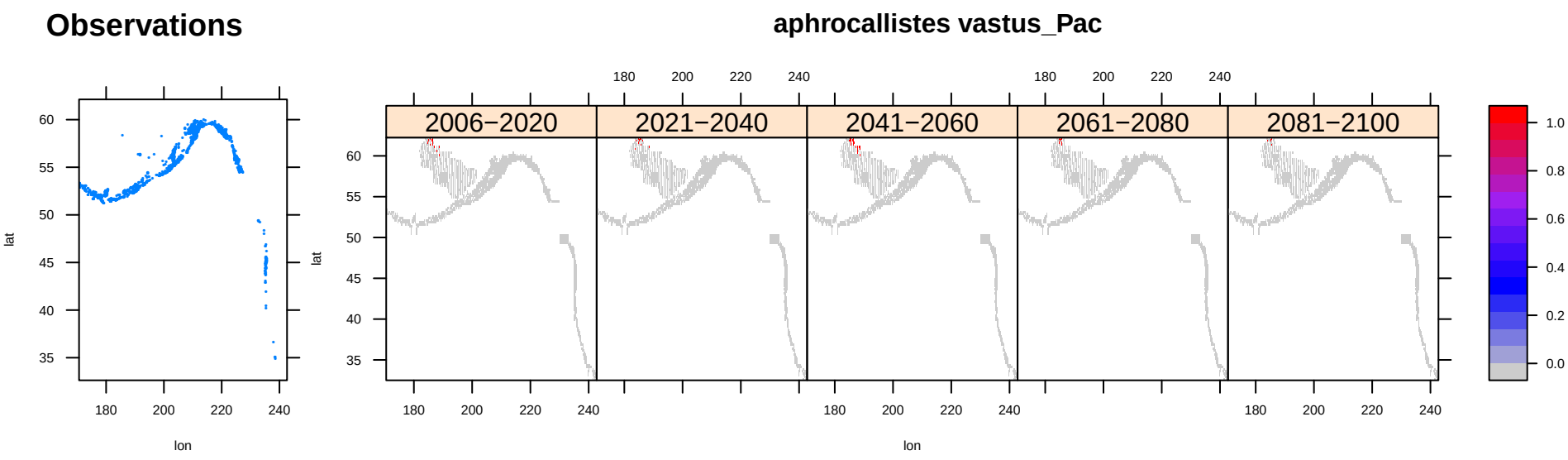
Observations
aphrocallistes vastus_Pac
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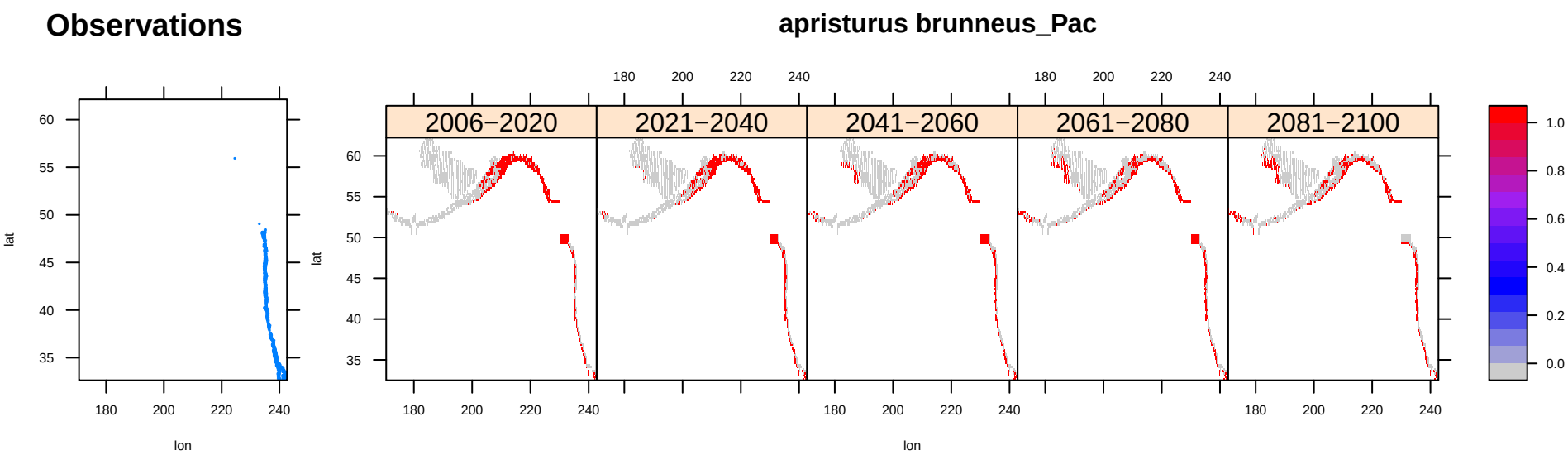
Observations
apristurus brunneus_Pac
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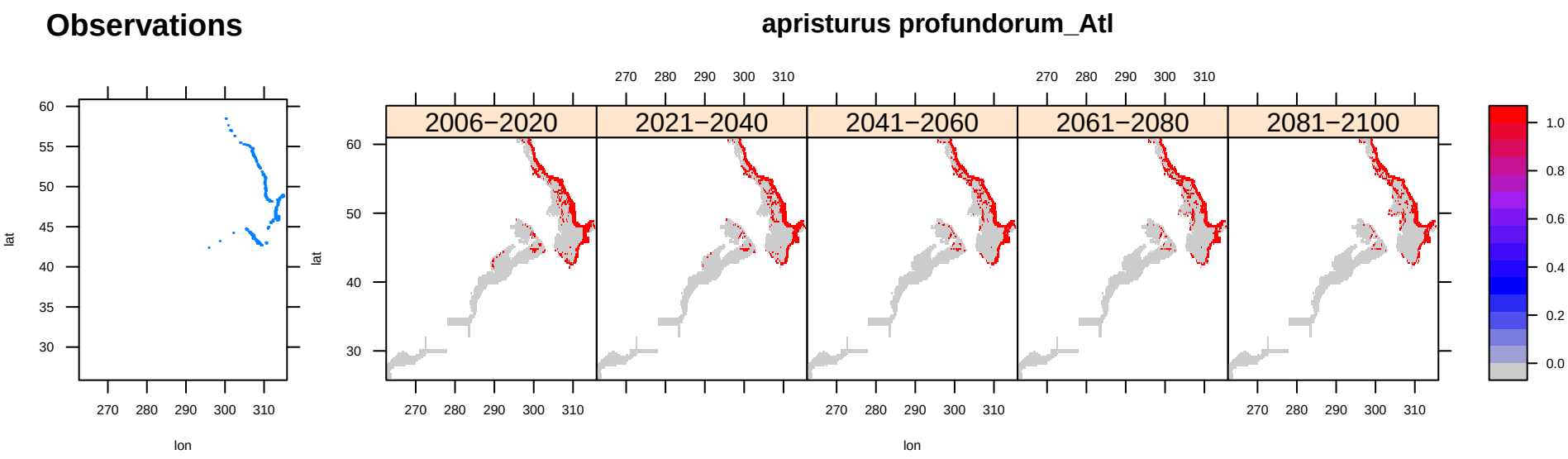
Observations
apristurus profundorum_Atl
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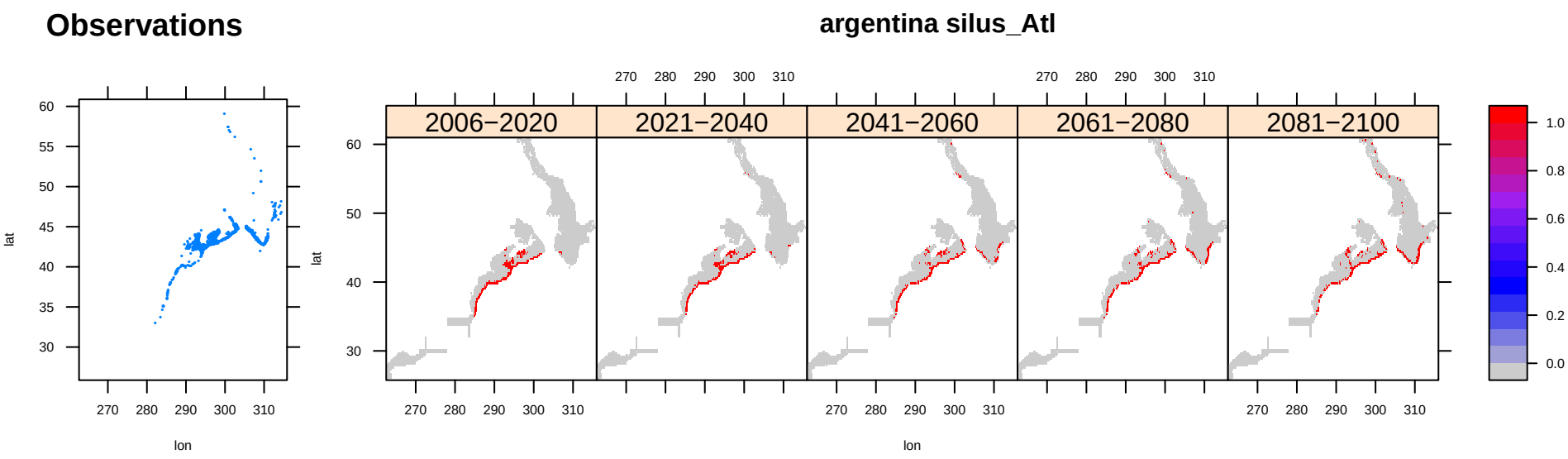
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argentina silus_Atl
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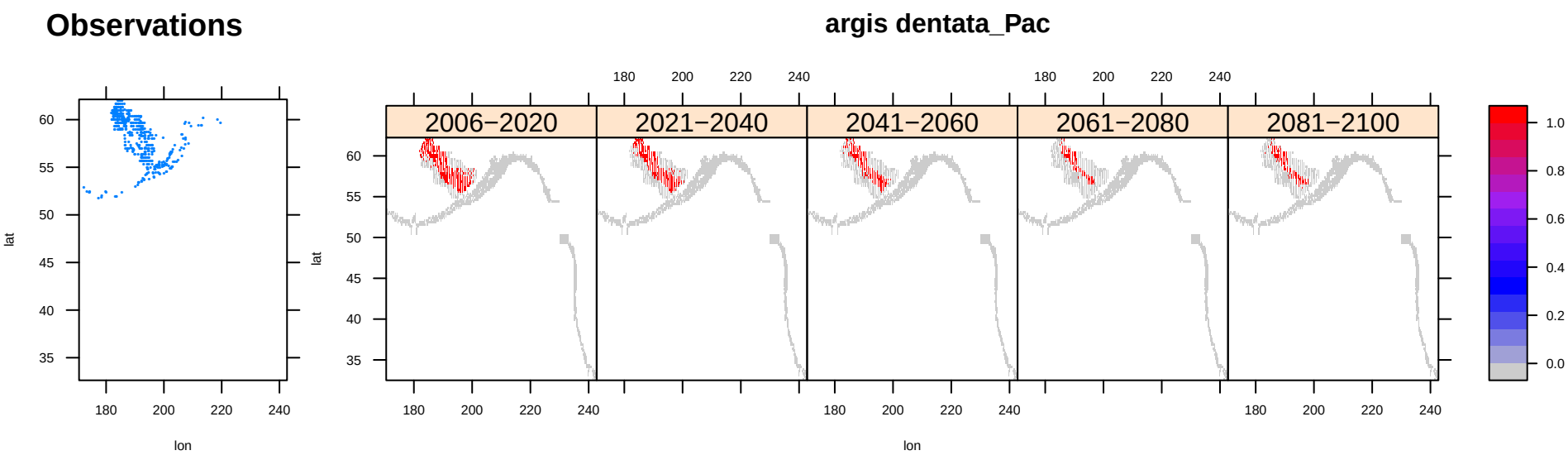
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argis dentata_Pac
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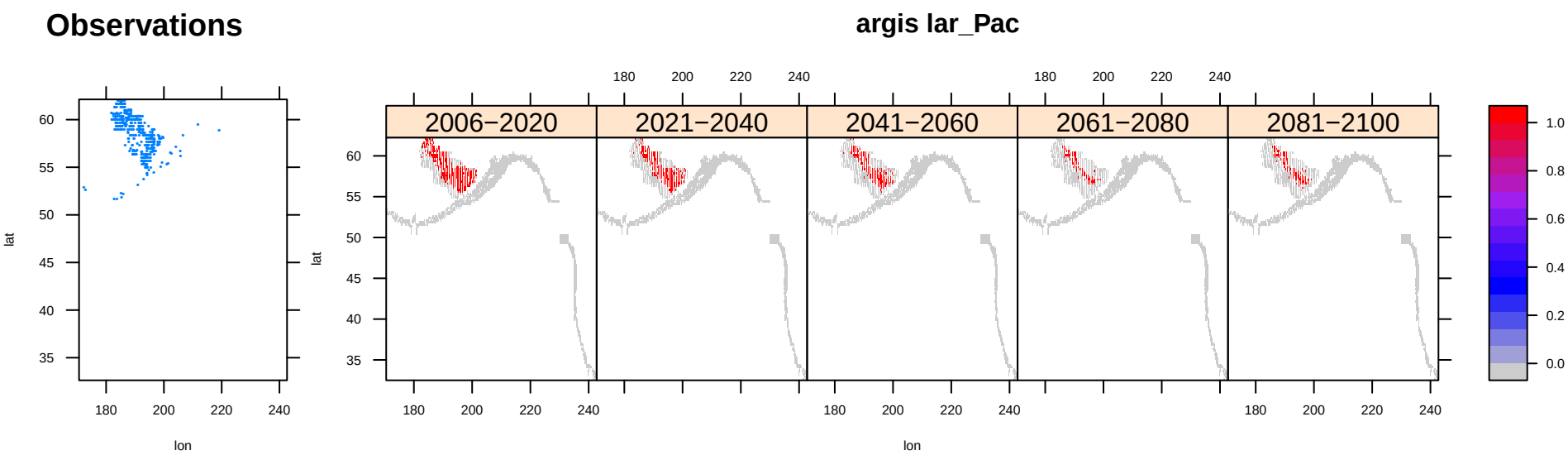
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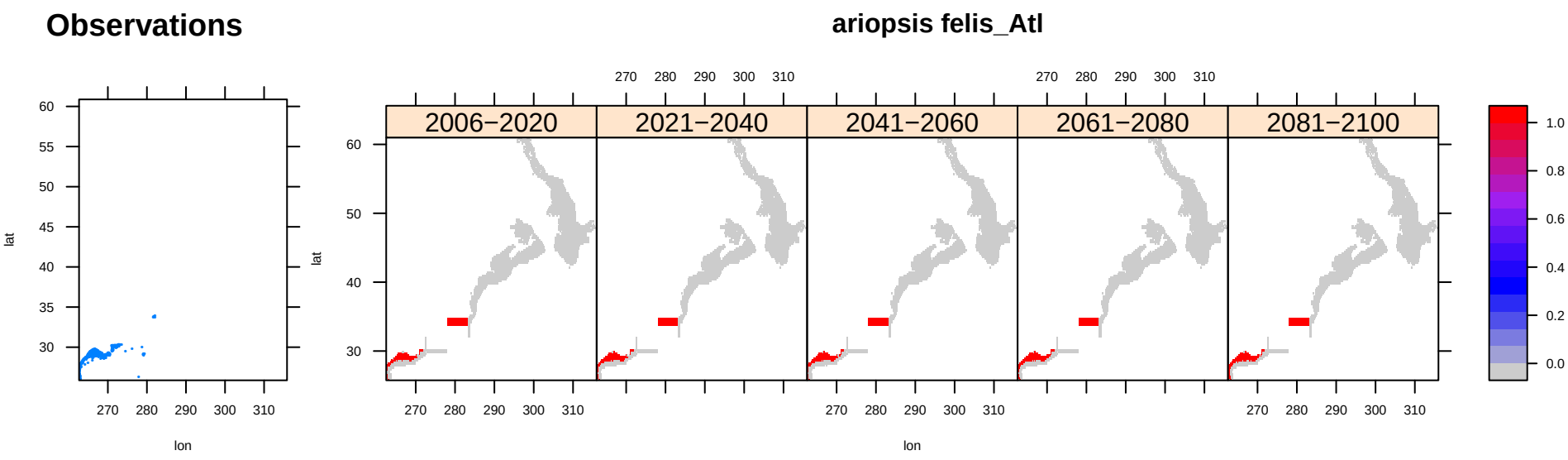
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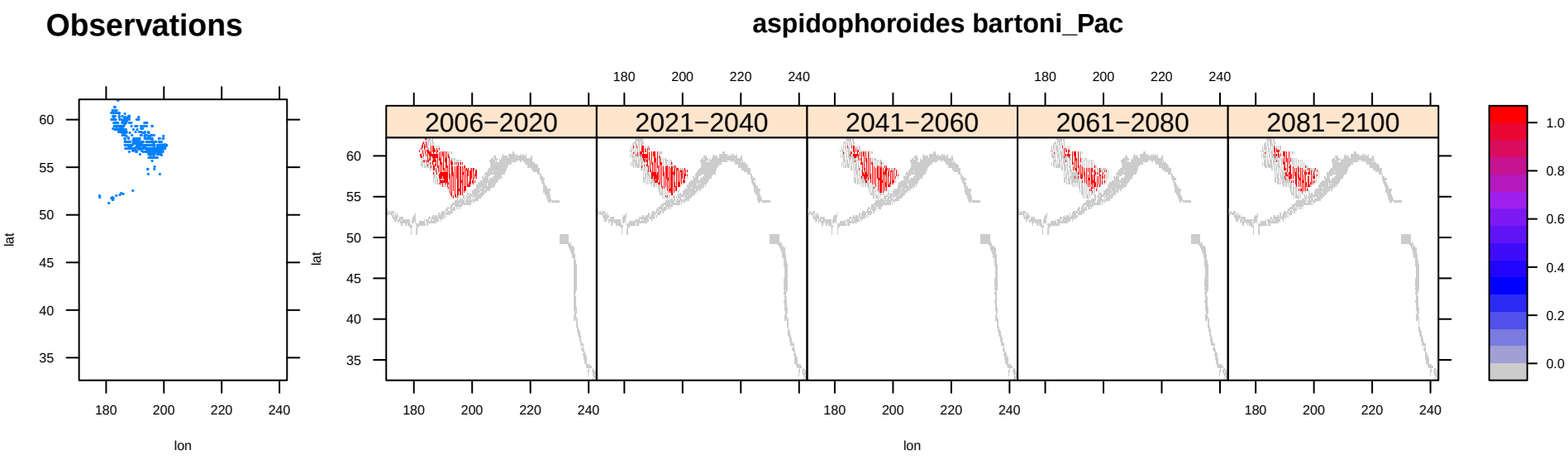
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aspidophoroides bartoni_Pac
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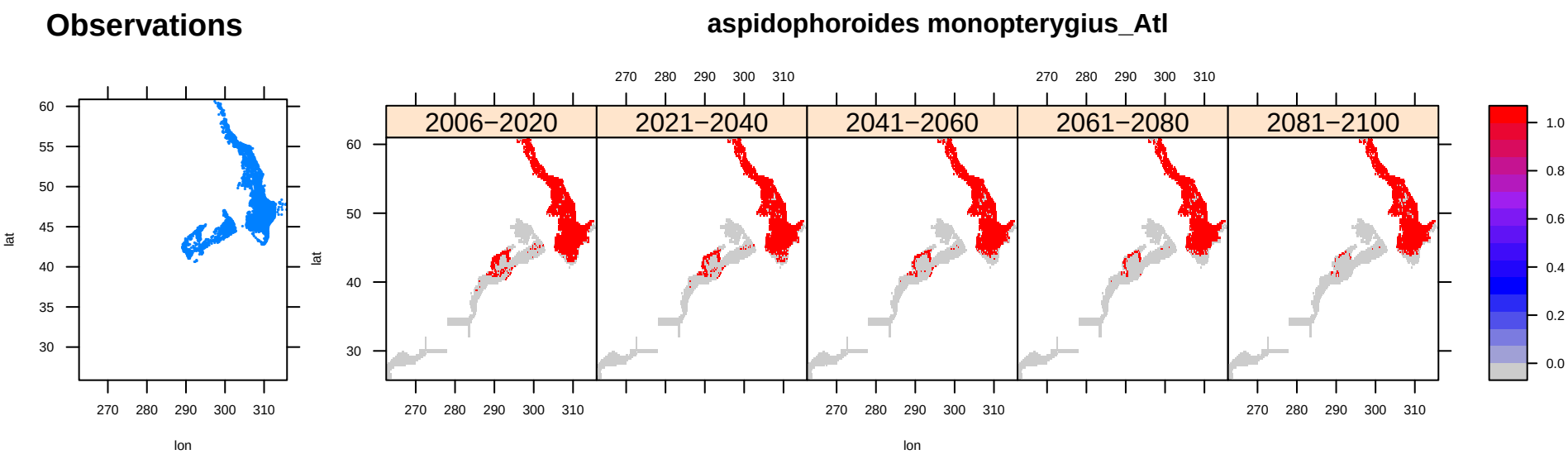
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aspidophoroides monopterygius_Atl
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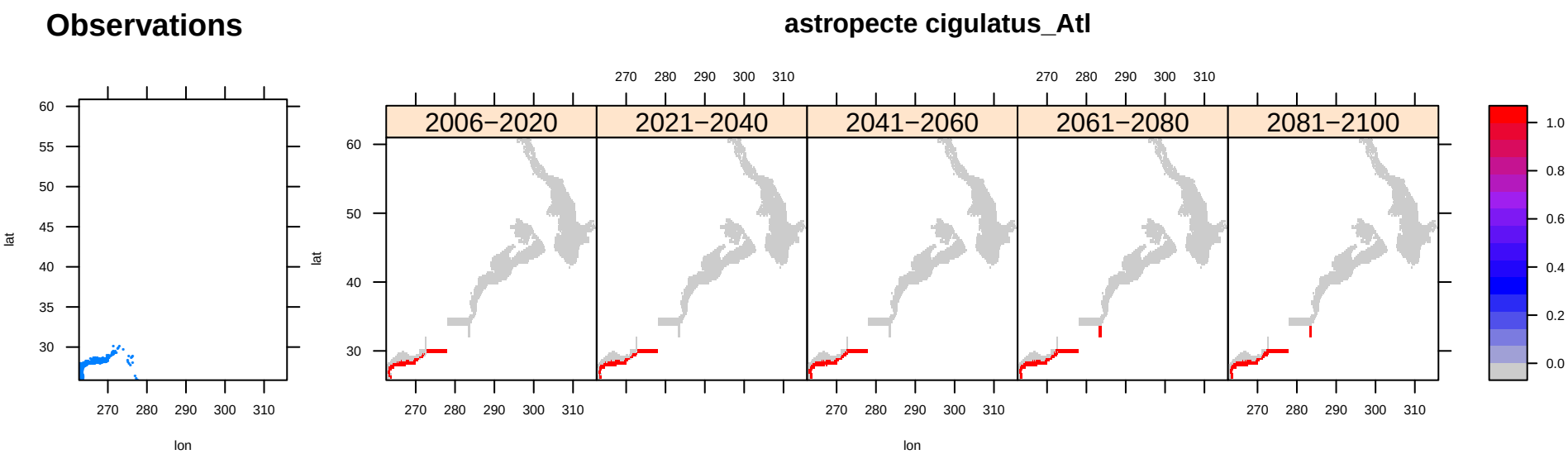
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astropecte cigulatus_Atl
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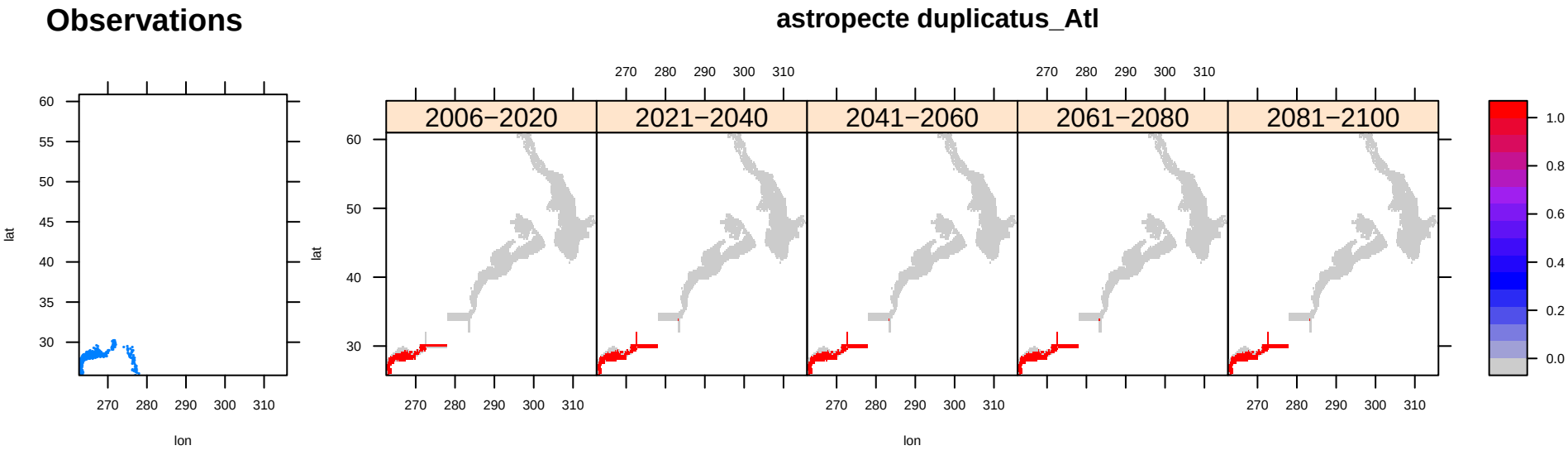
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astropecte duplicatus_Atl
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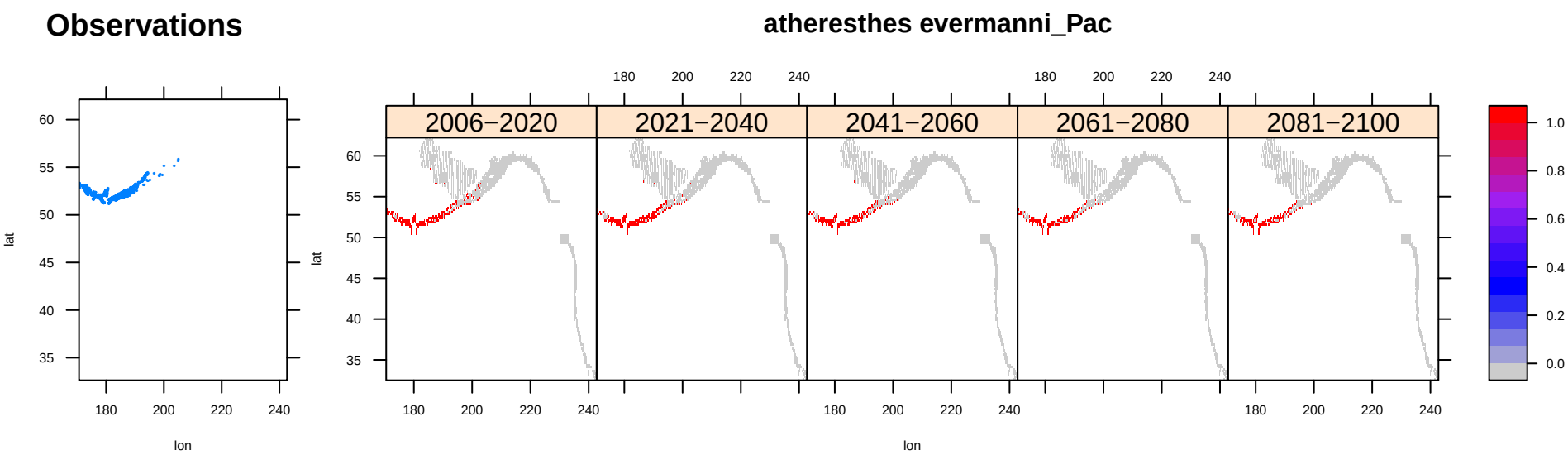
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atheresthes evermanni_Pac
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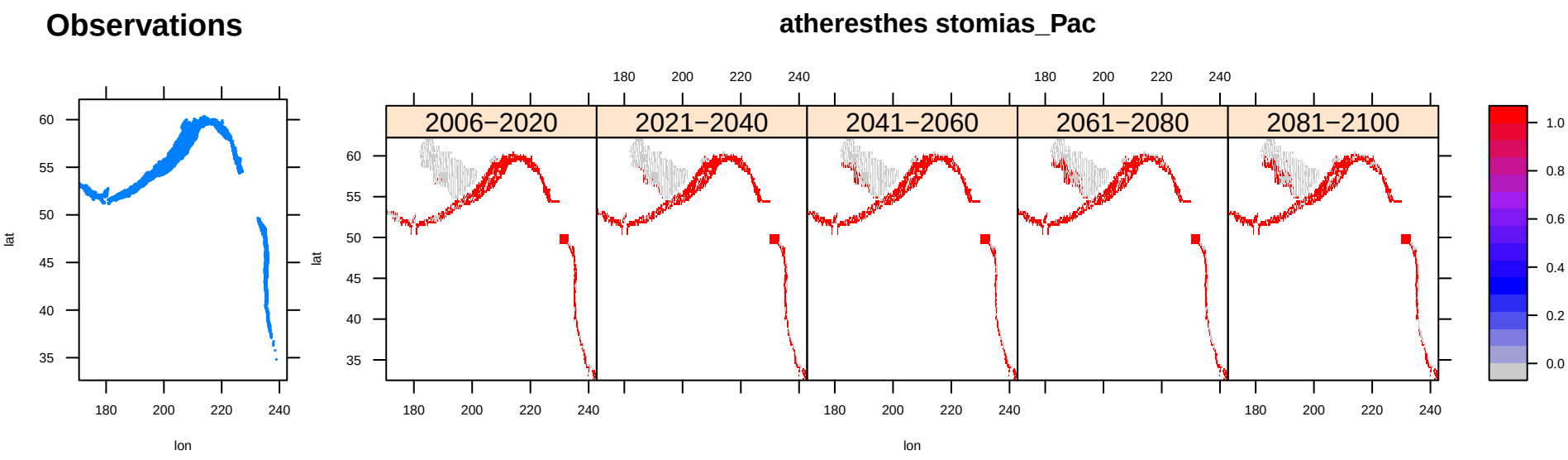
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atheresthes stomias_Pac
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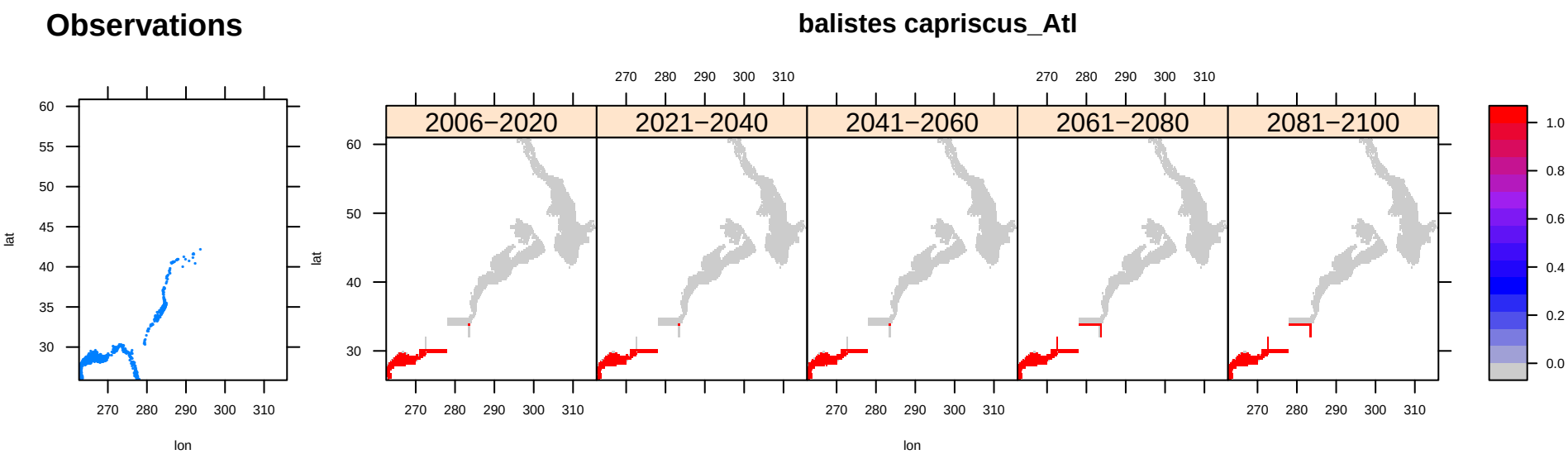
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balistes capriscus_Atl
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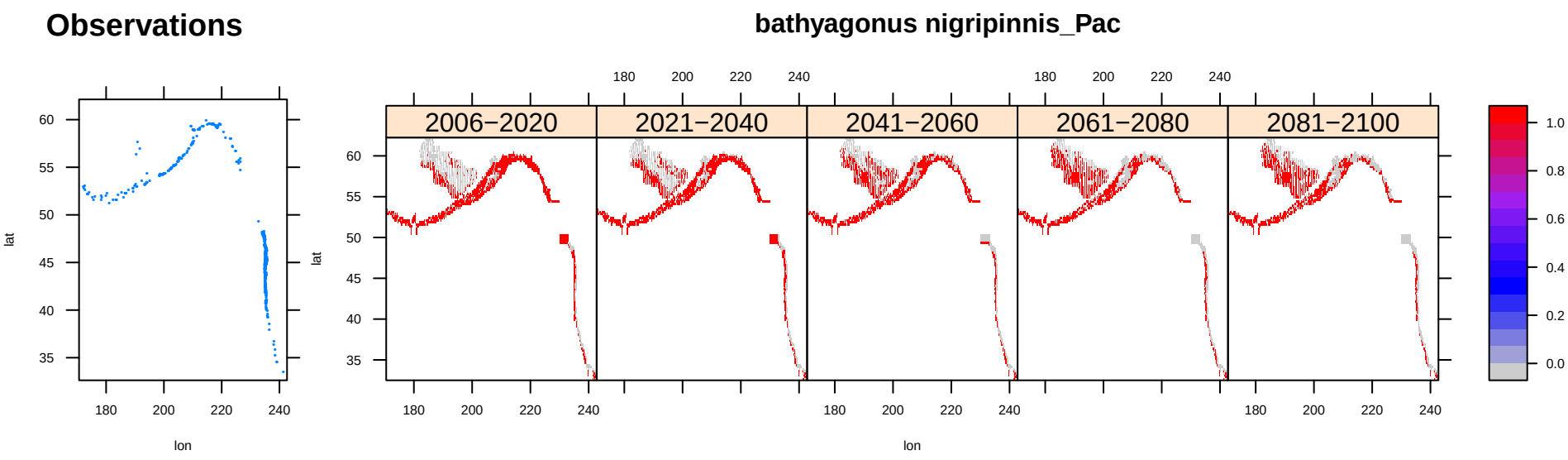
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bathyagonus nigripinnis_Pac
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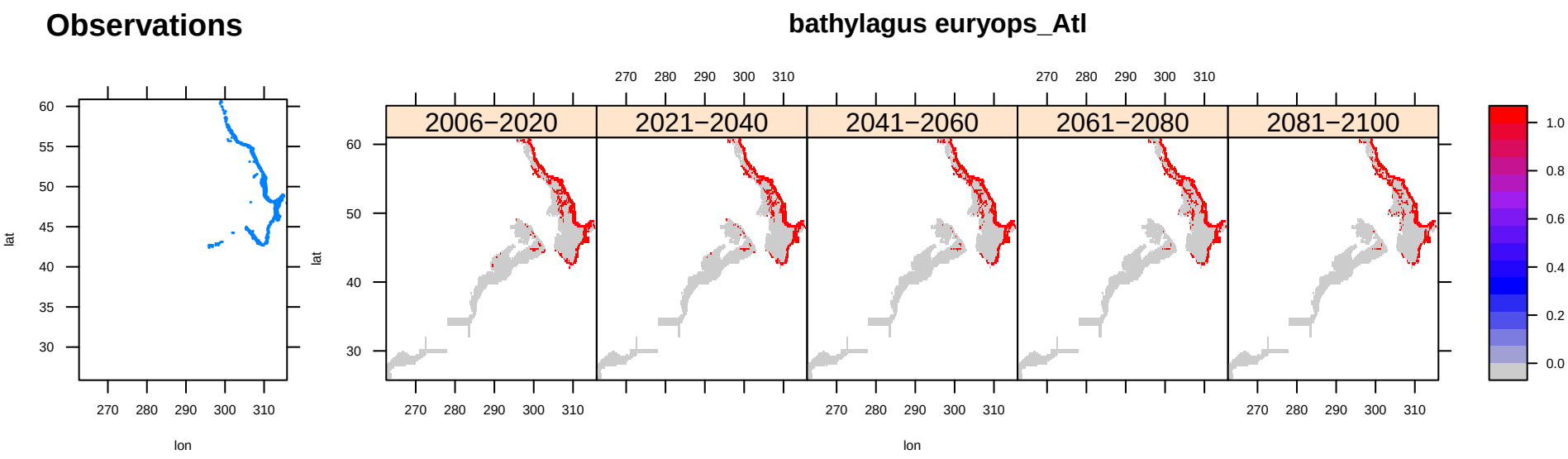
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bathylagus euryops_Atl
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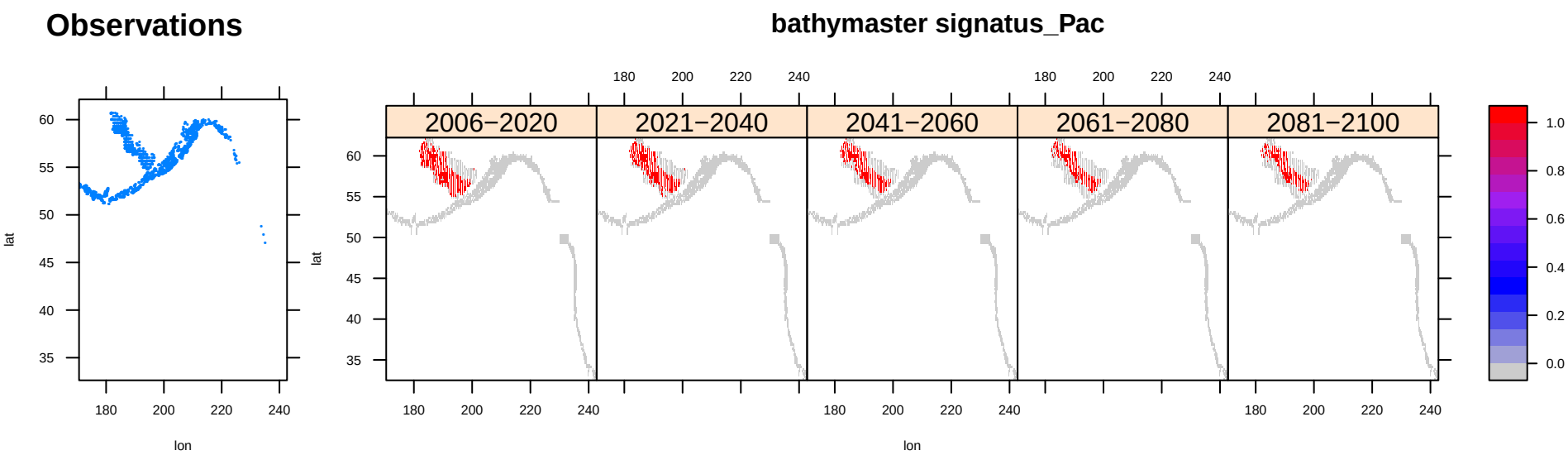
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bathymaster signatus_Pac
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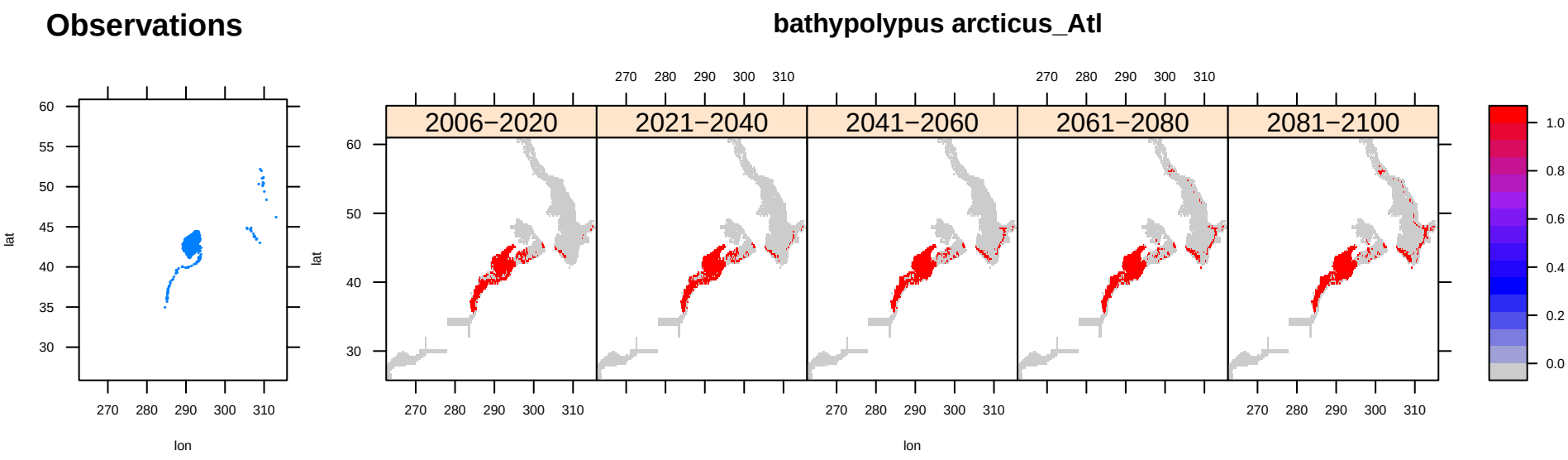
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bathypolypus arcticus_Atl
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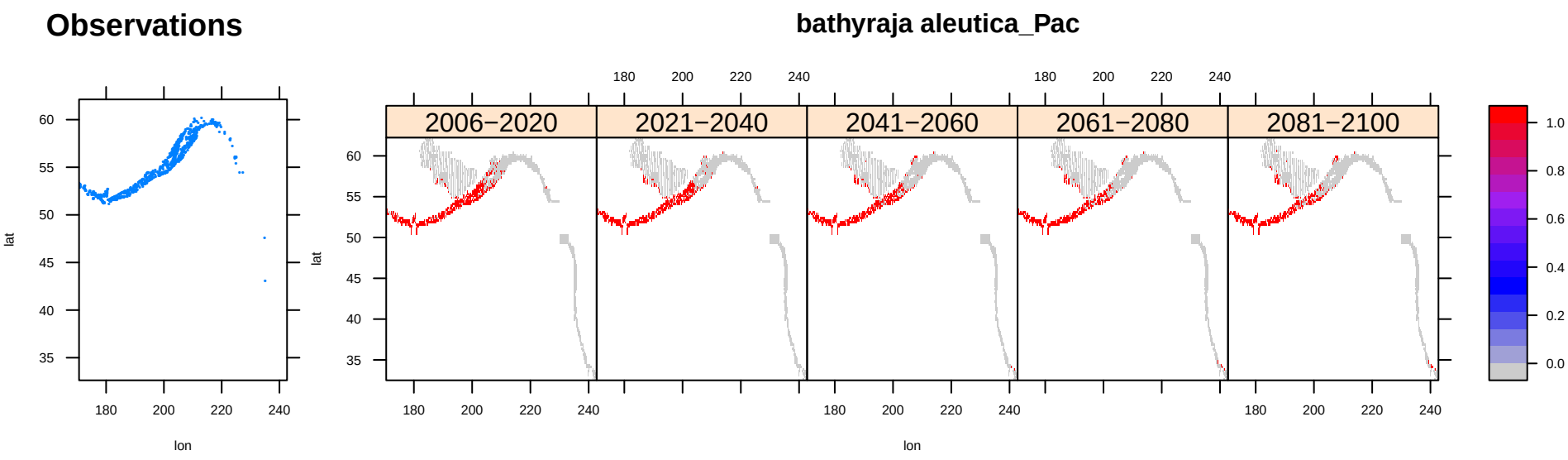
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bathyraja aleutica_Pac
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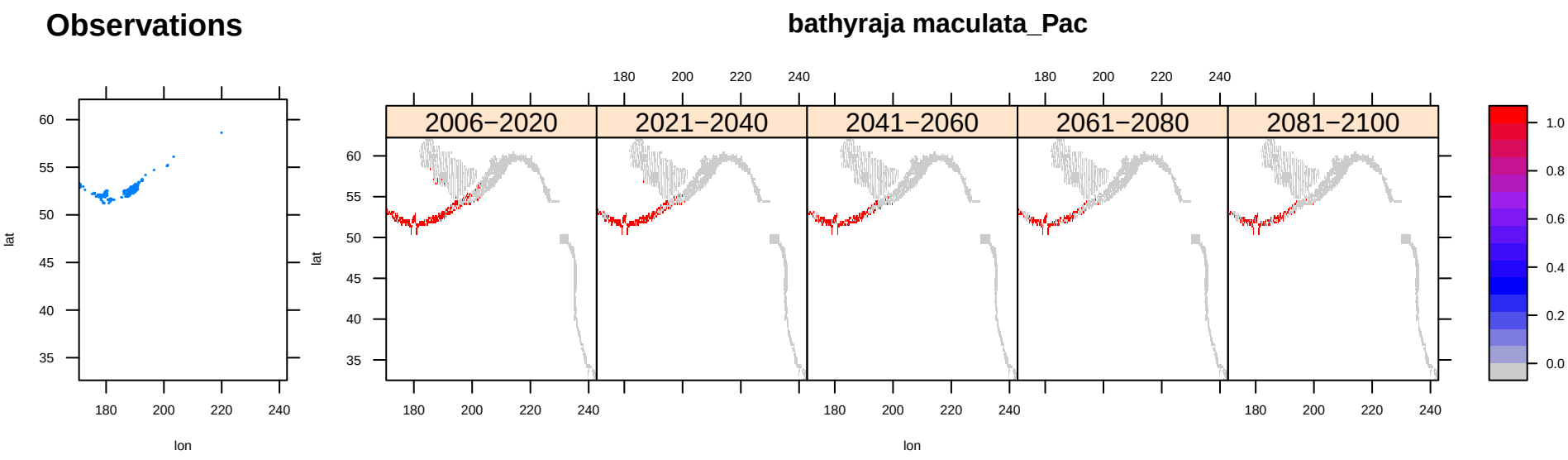
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bathyraja maculata_Pac
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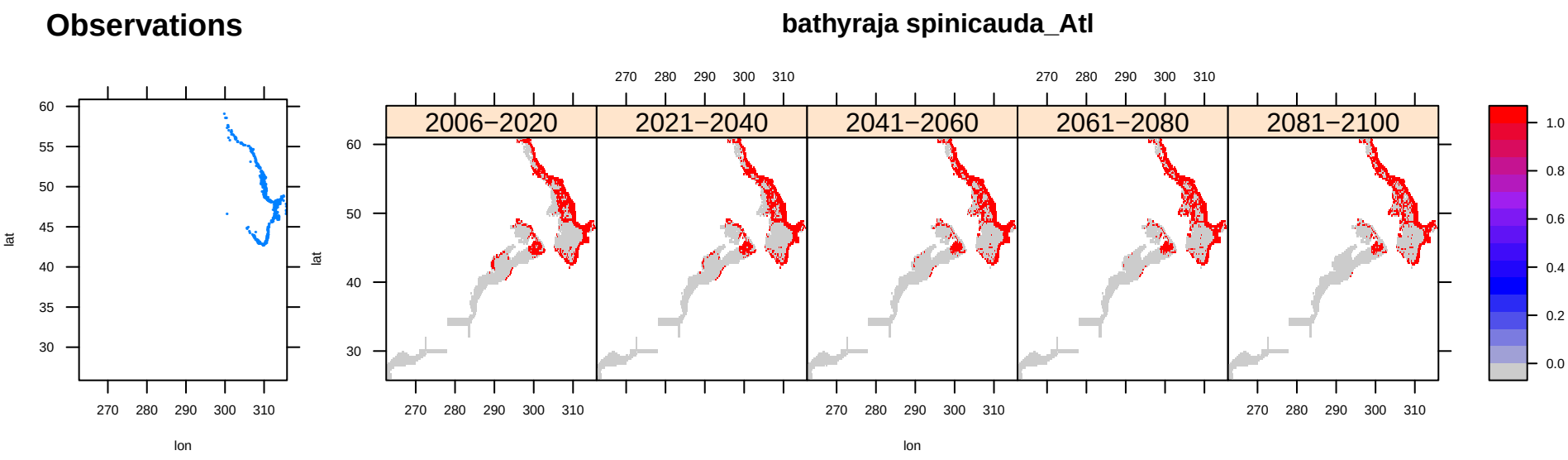
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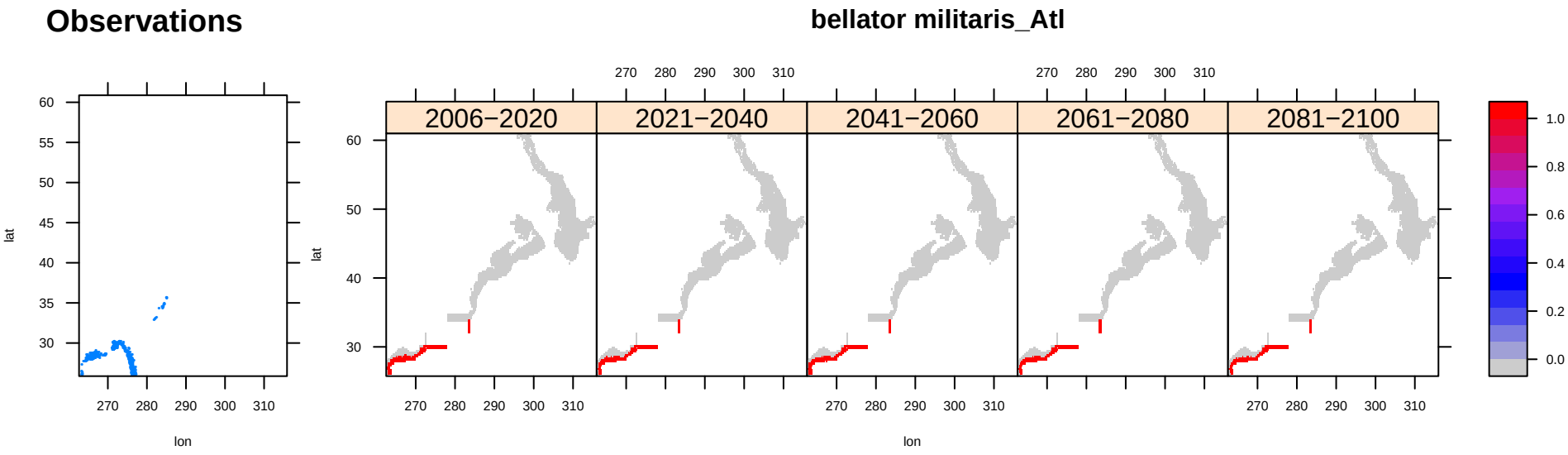
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bellator militaris_Atl
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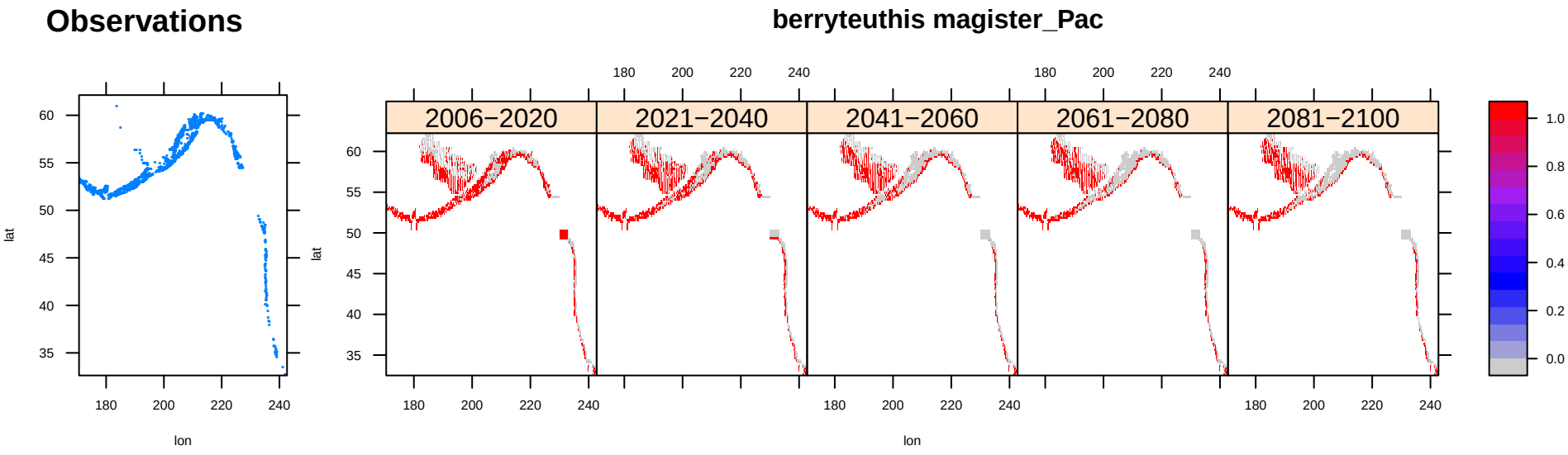
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berryteuthis magister_Pac
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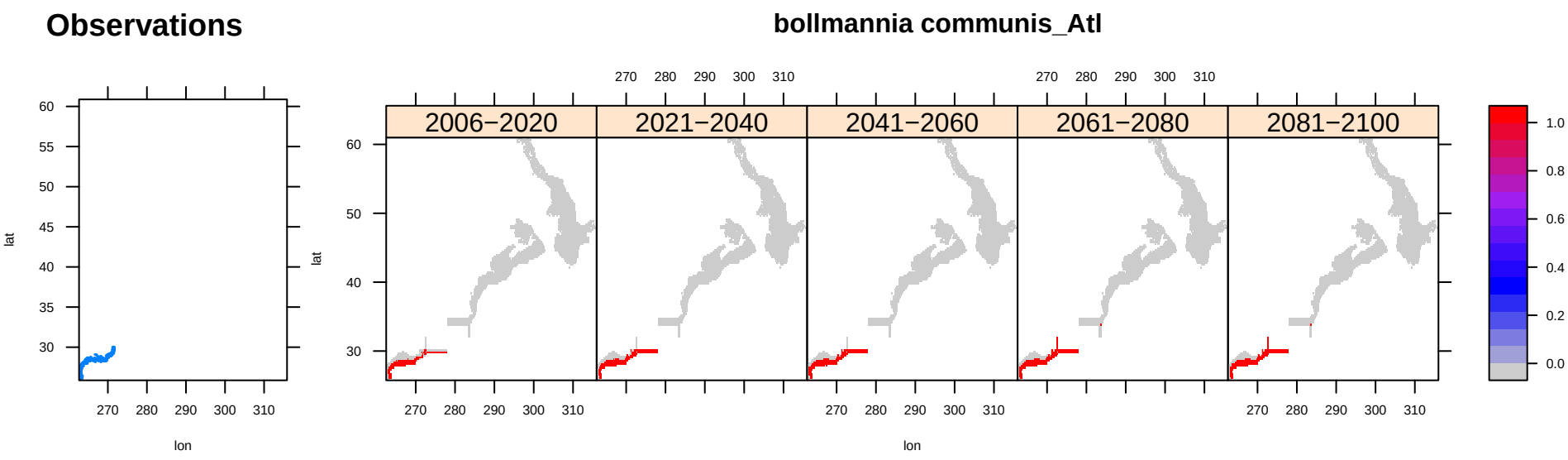
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bollmannia communis_Atl
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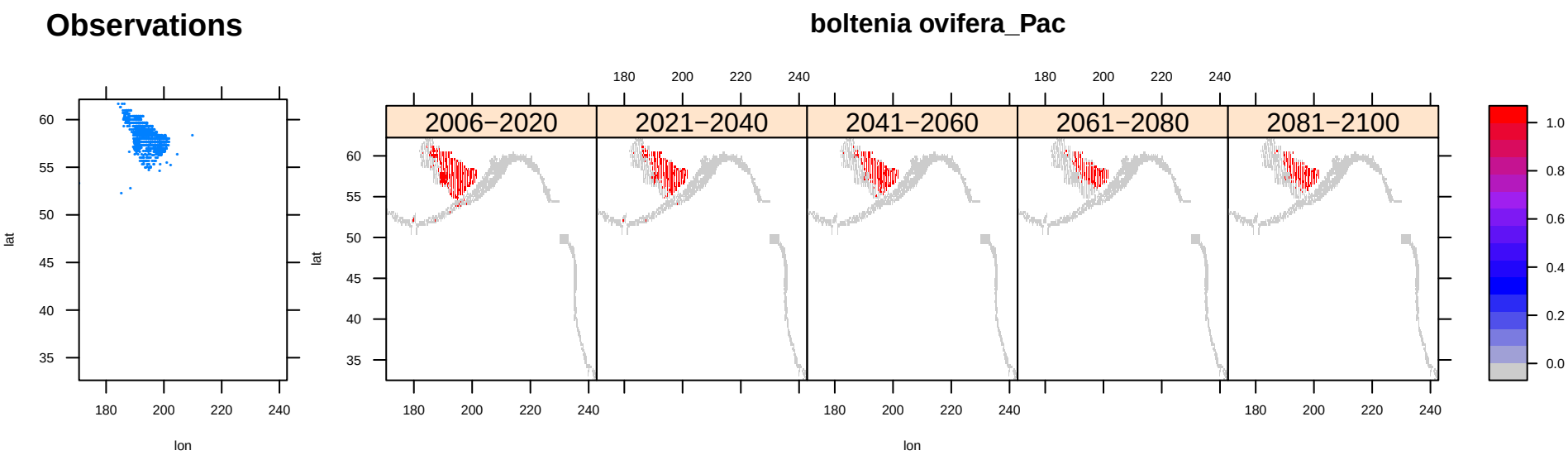
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boltenia ovifera_Pac
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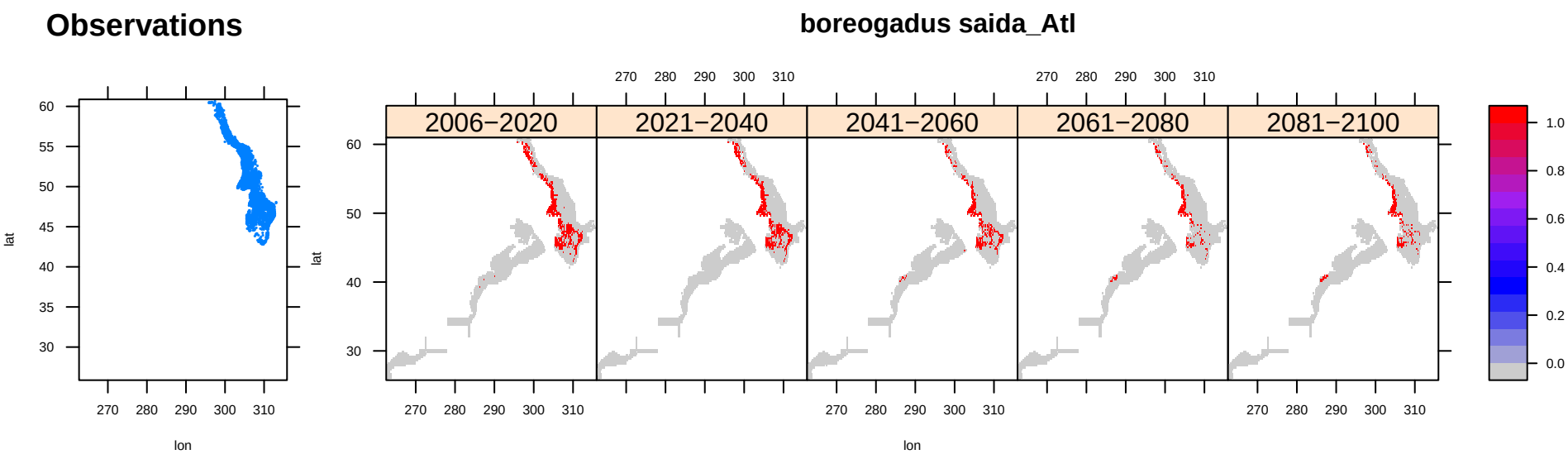
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boreogadus saida_Atl
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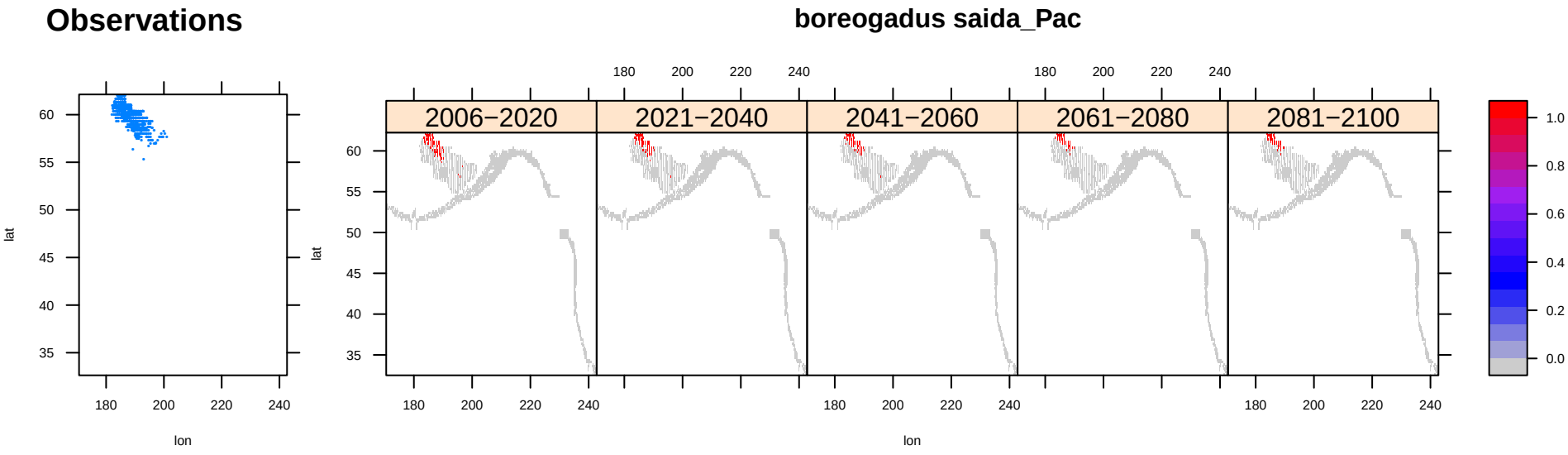
Observations
boreogadus saida_Pac
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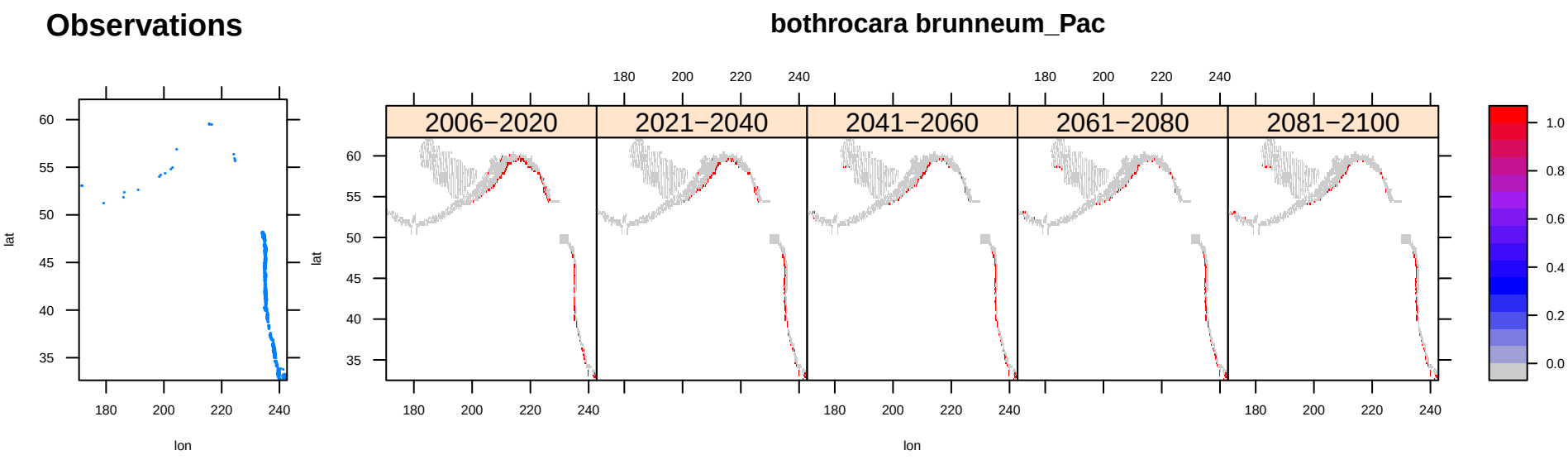
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bothrocara brunneum_Pac
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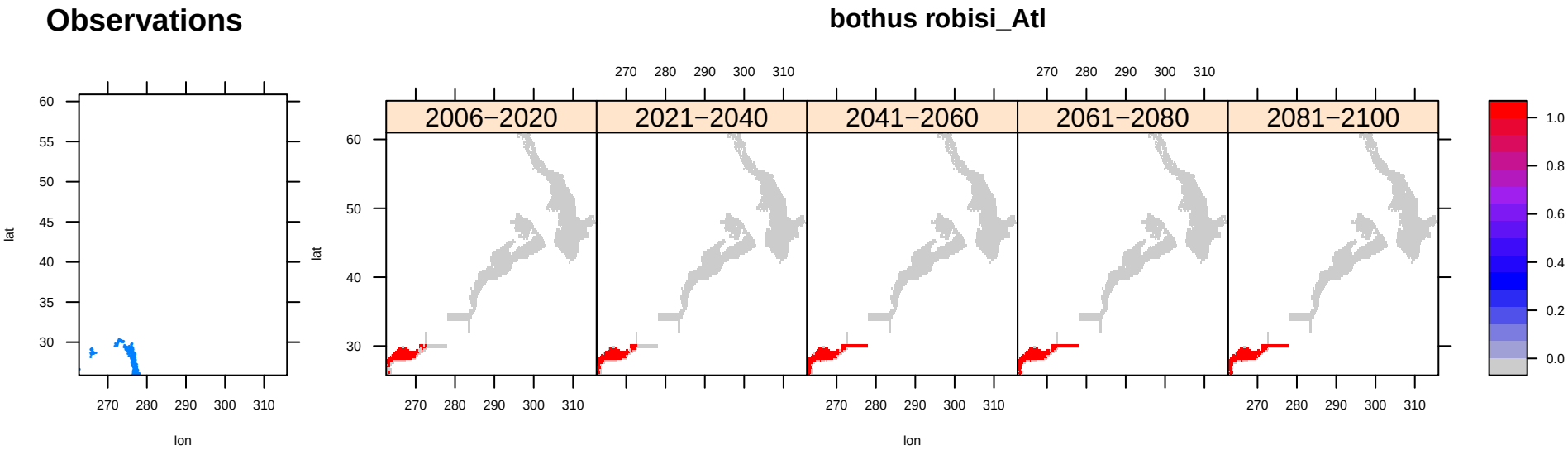
Observations
bothus robisi_Atl
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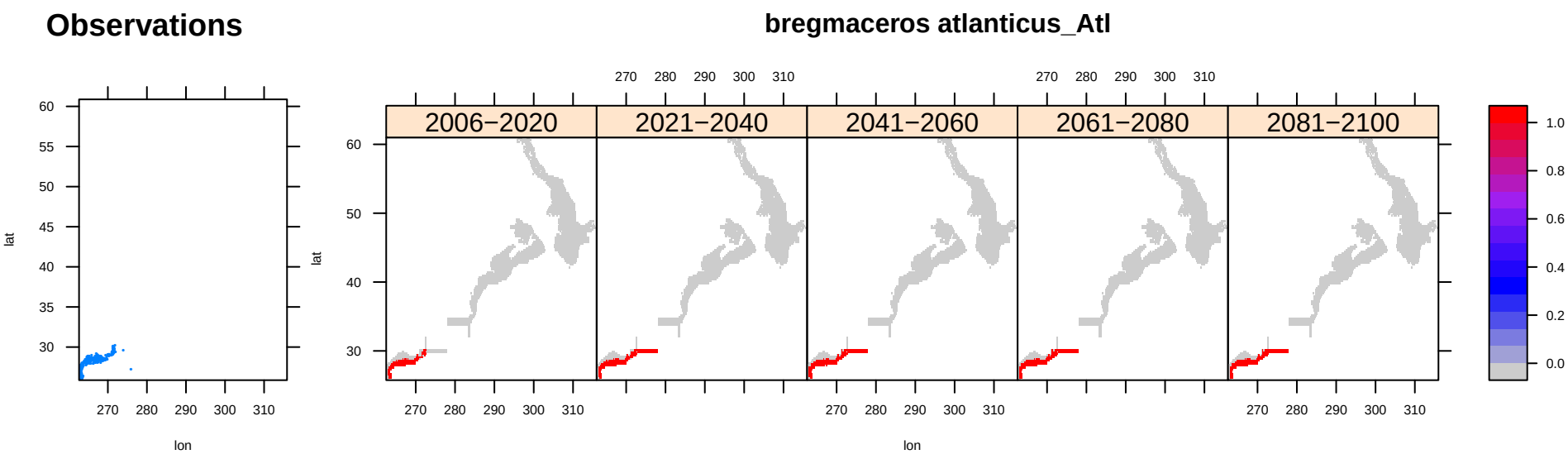
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bregmaceros atlanticus_Atl
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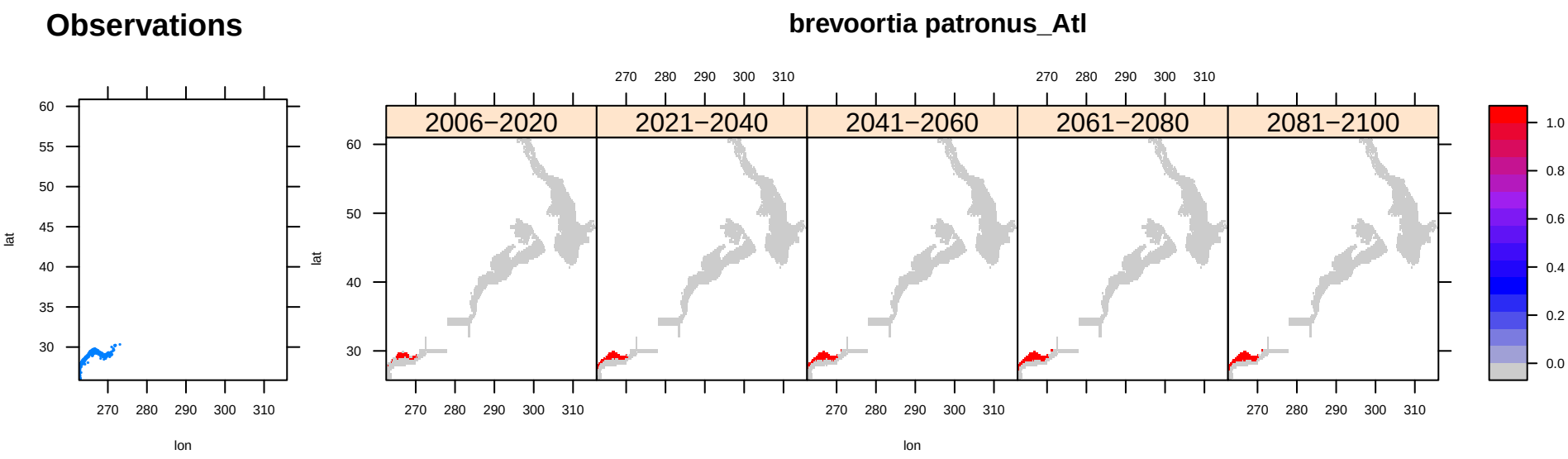
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brevoortia patronus_Atl
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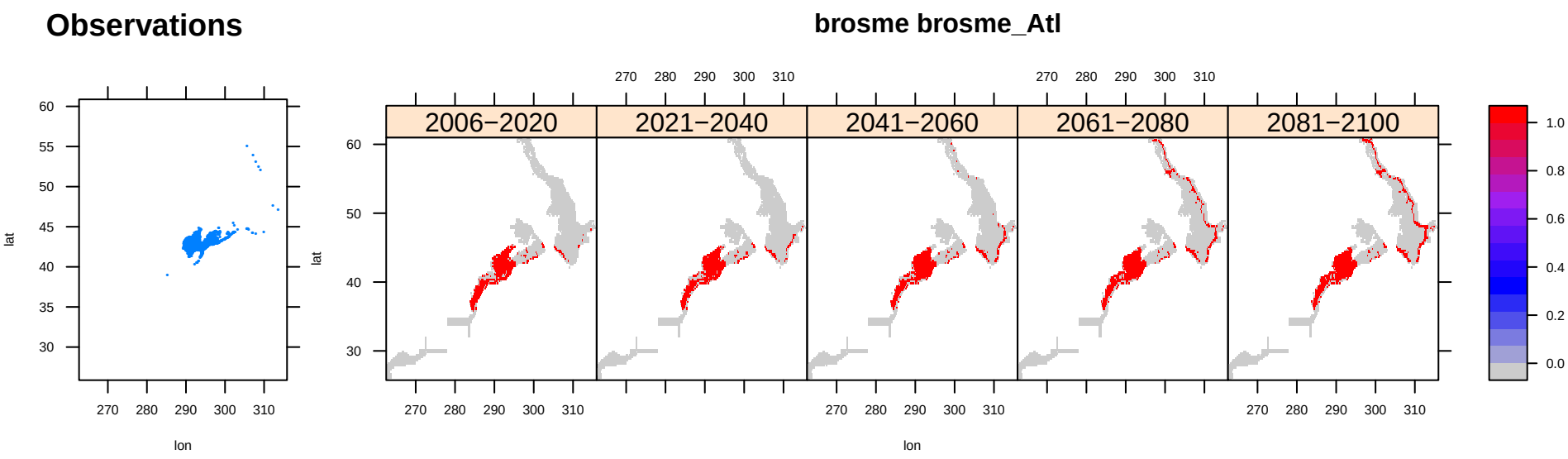
Observations
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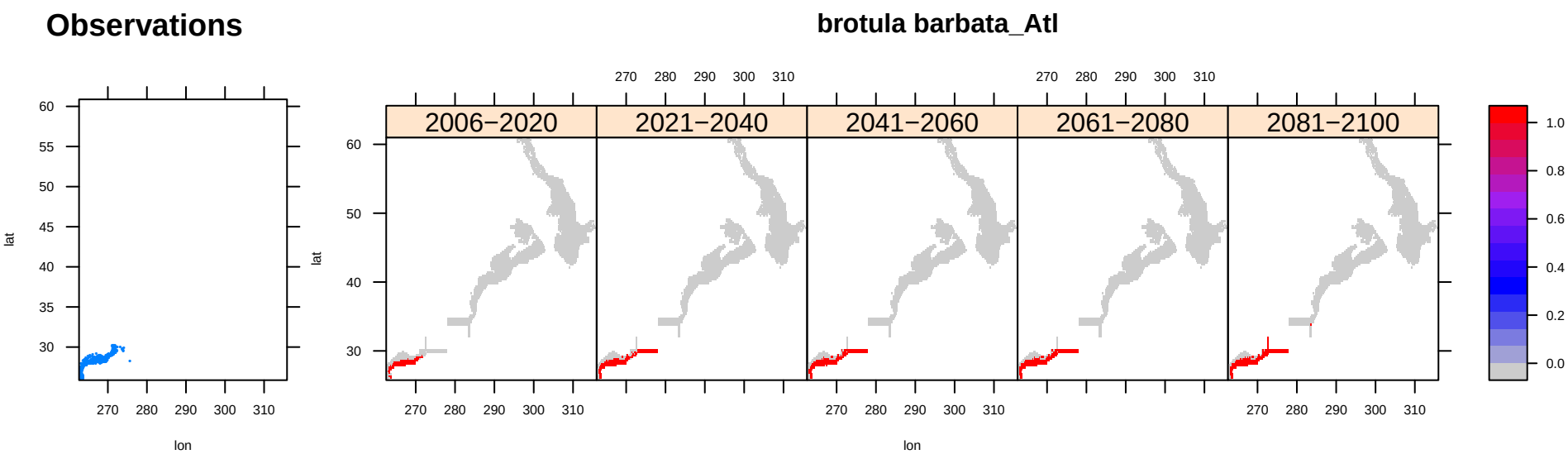
Observations
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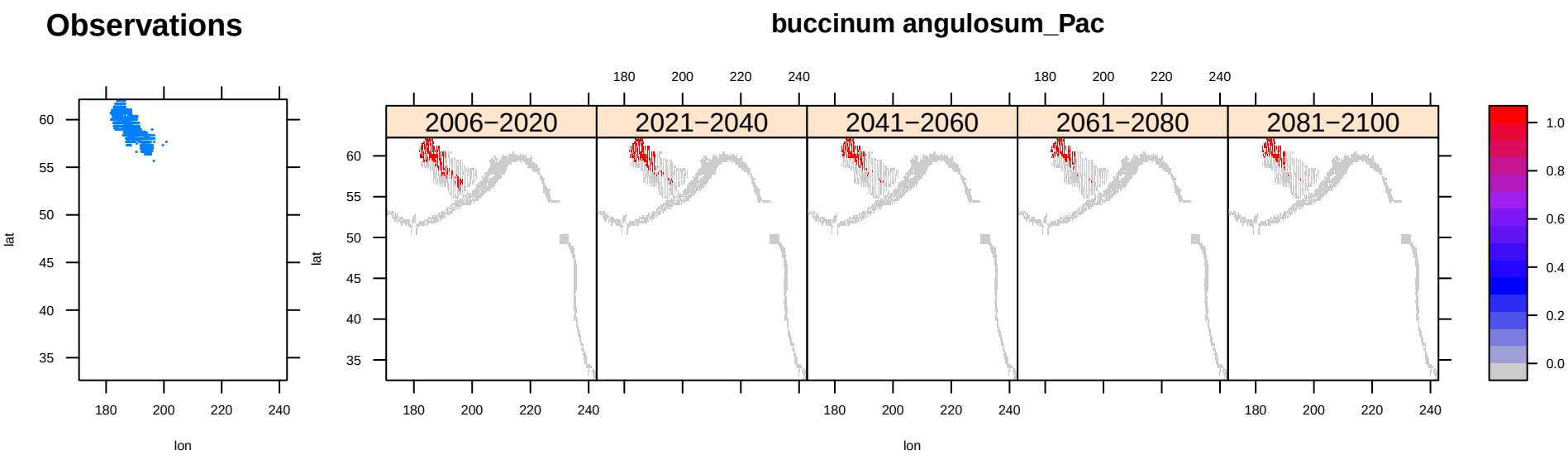
Observations
buccinum angulosum_Pac
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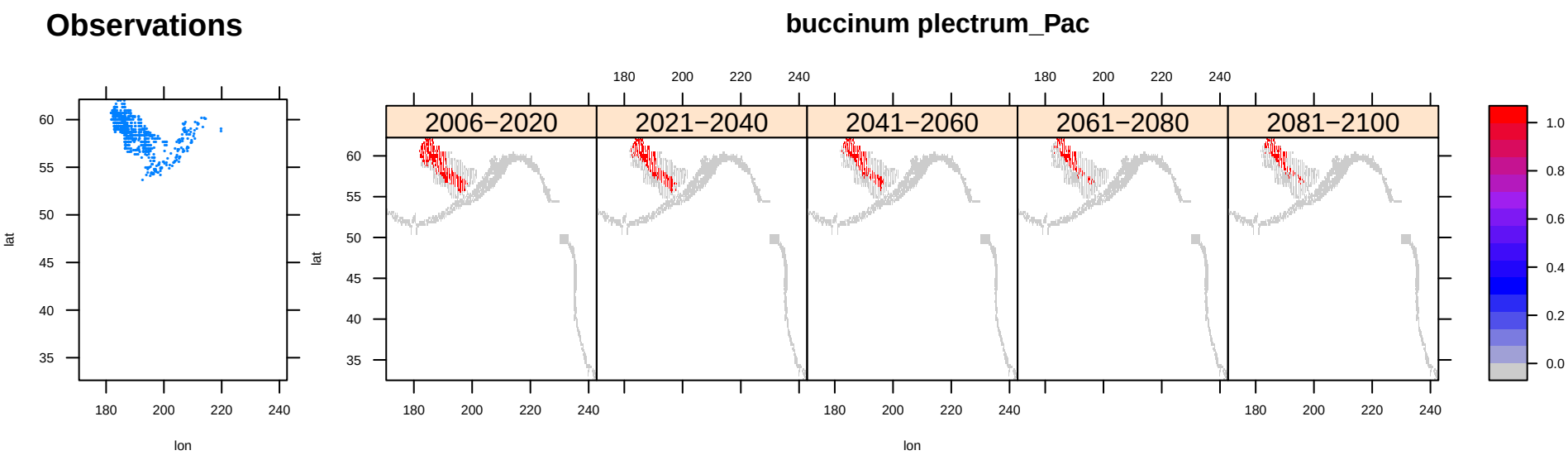
Observations
buccinum plectrum_Pac
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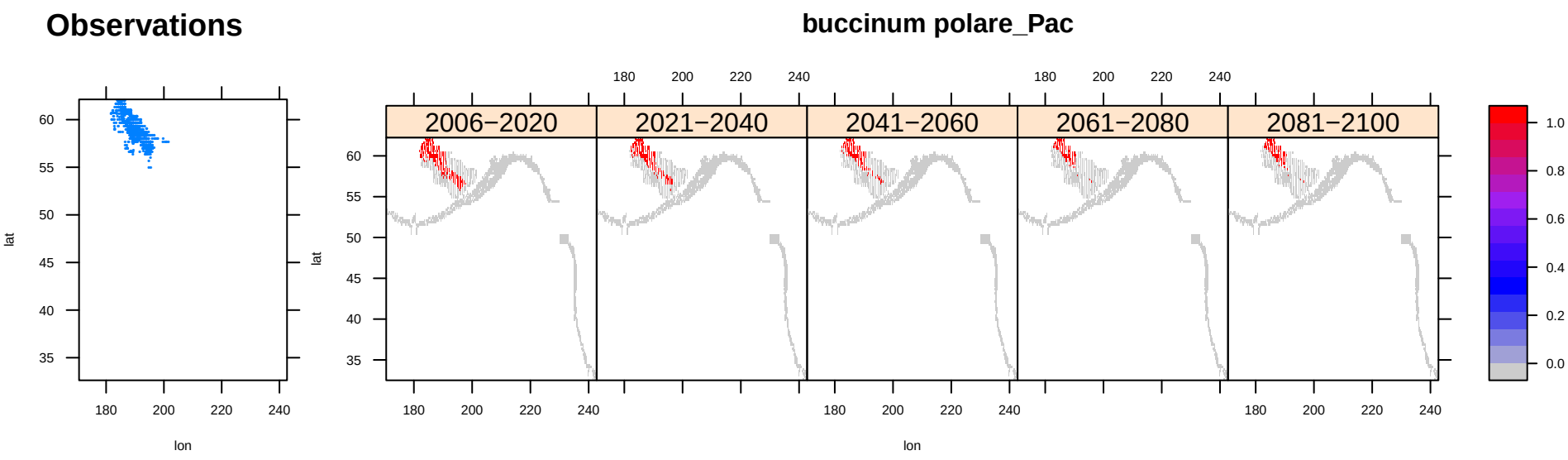
Observations
buccinum polare_Pac
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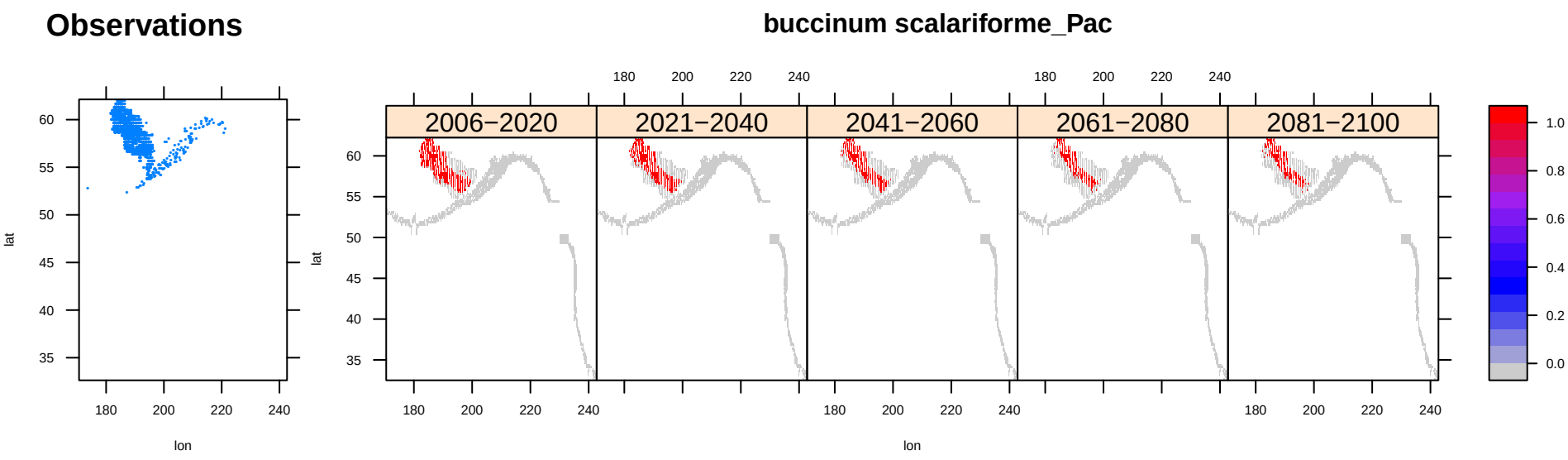
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buccinum scalariforme_Pac
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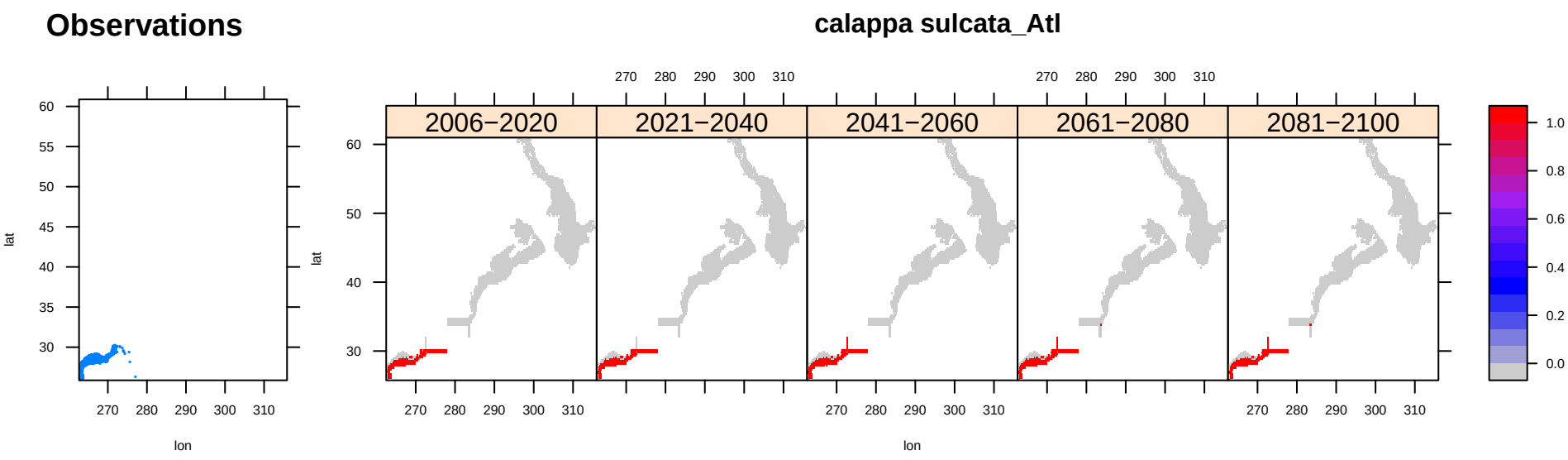
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calappa sulcata_Atl
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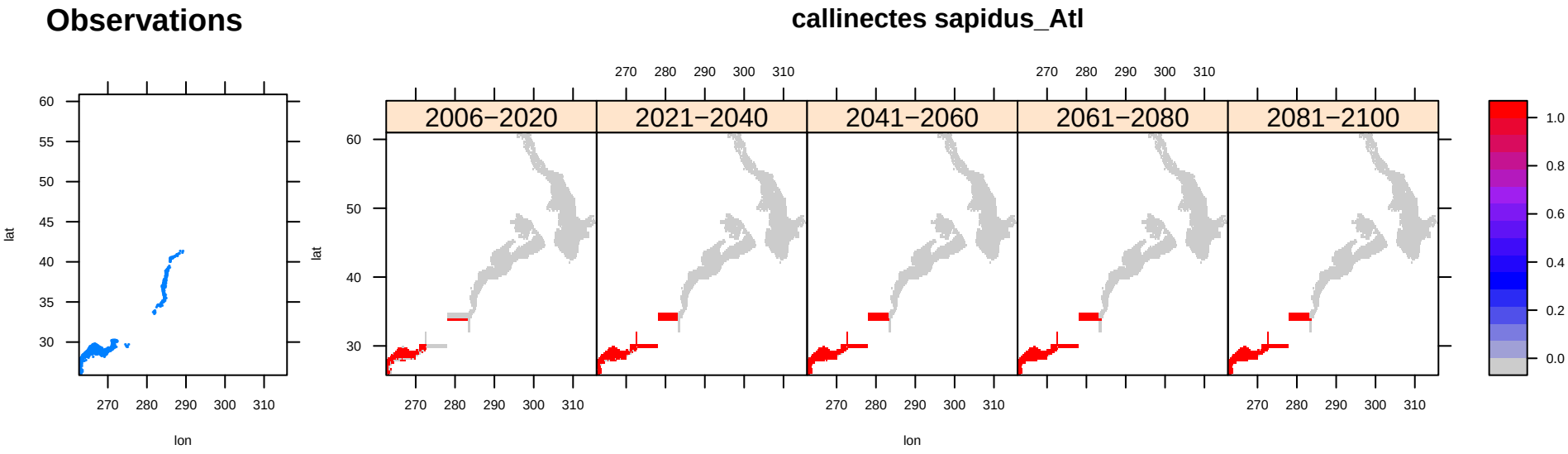
Observations
callinectes sapidus_Atl
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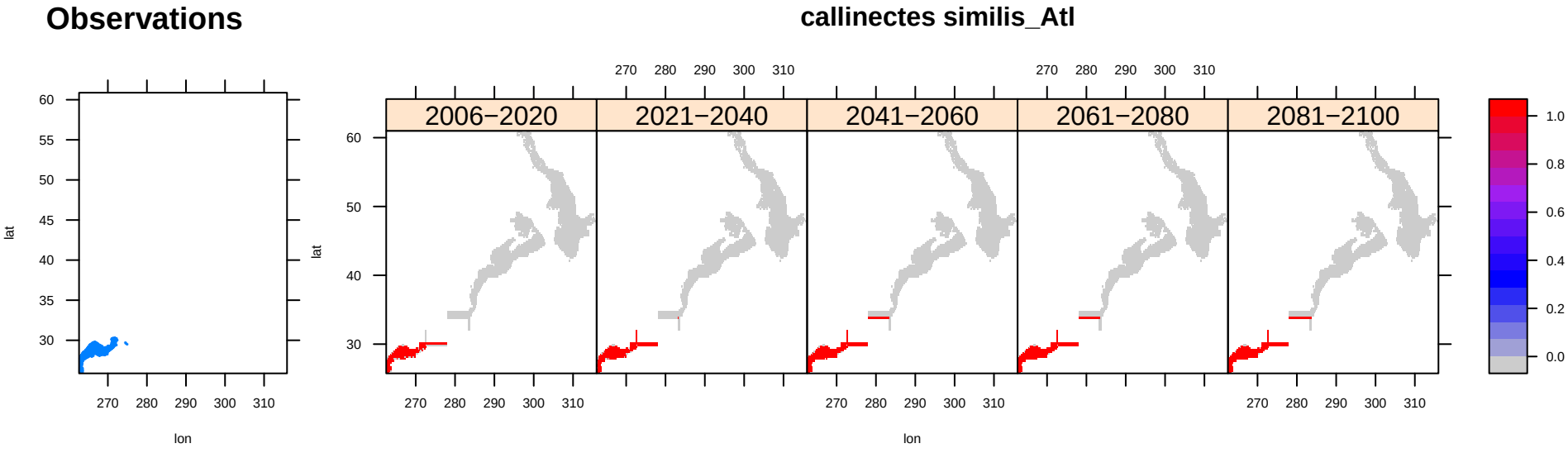
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callinectes similis_Atl
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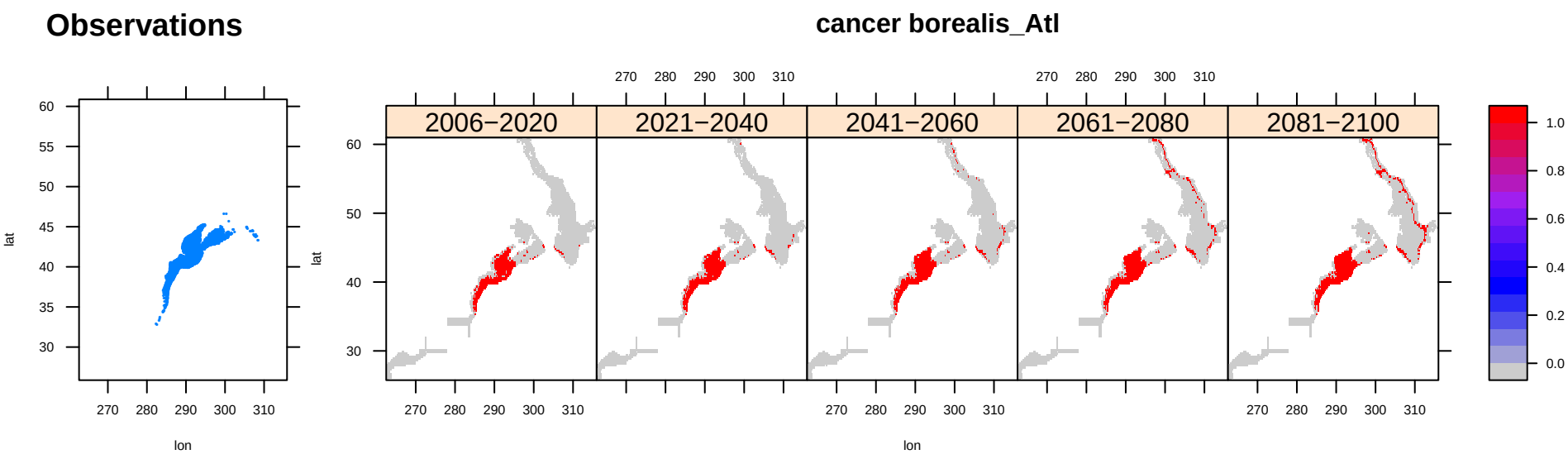
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cancer borealis_Atl
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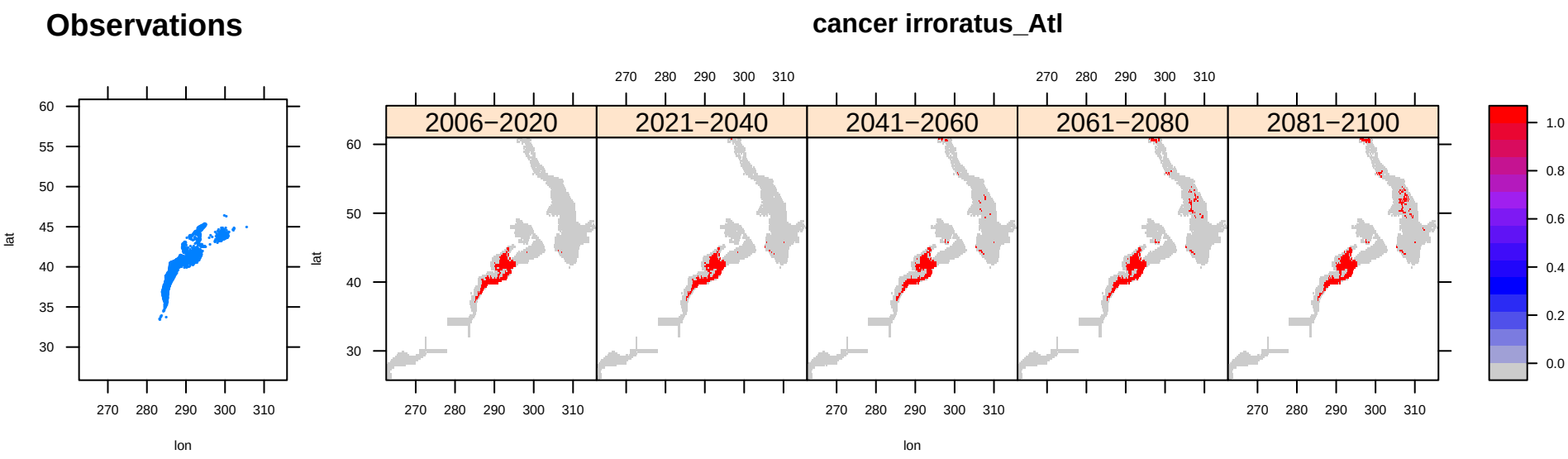
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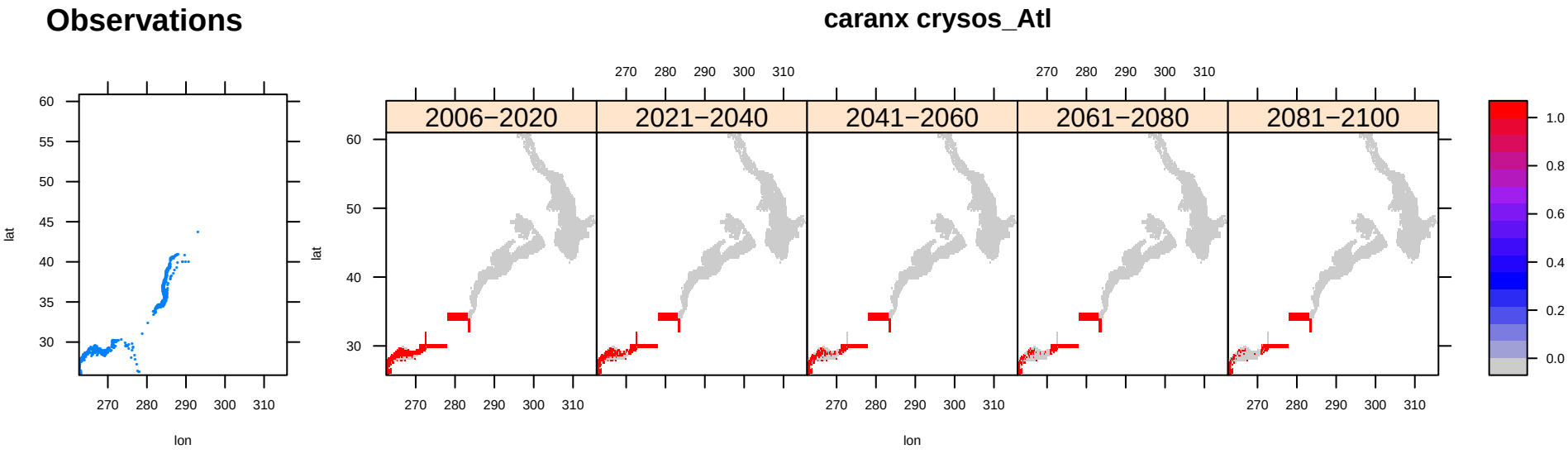
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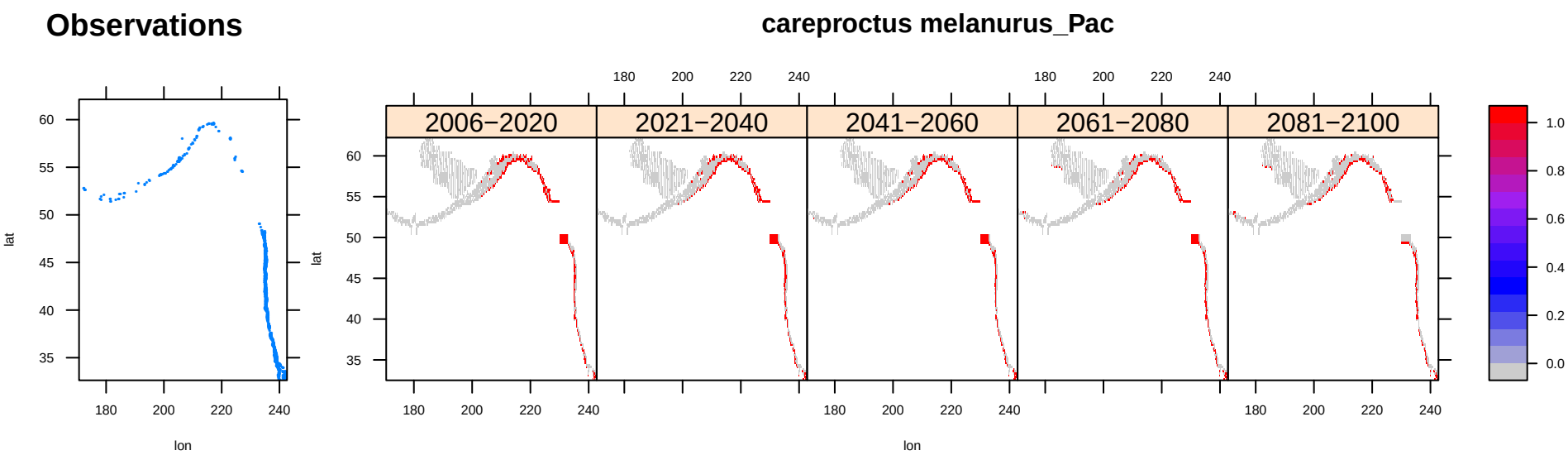
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careproctus melanurus_Pac
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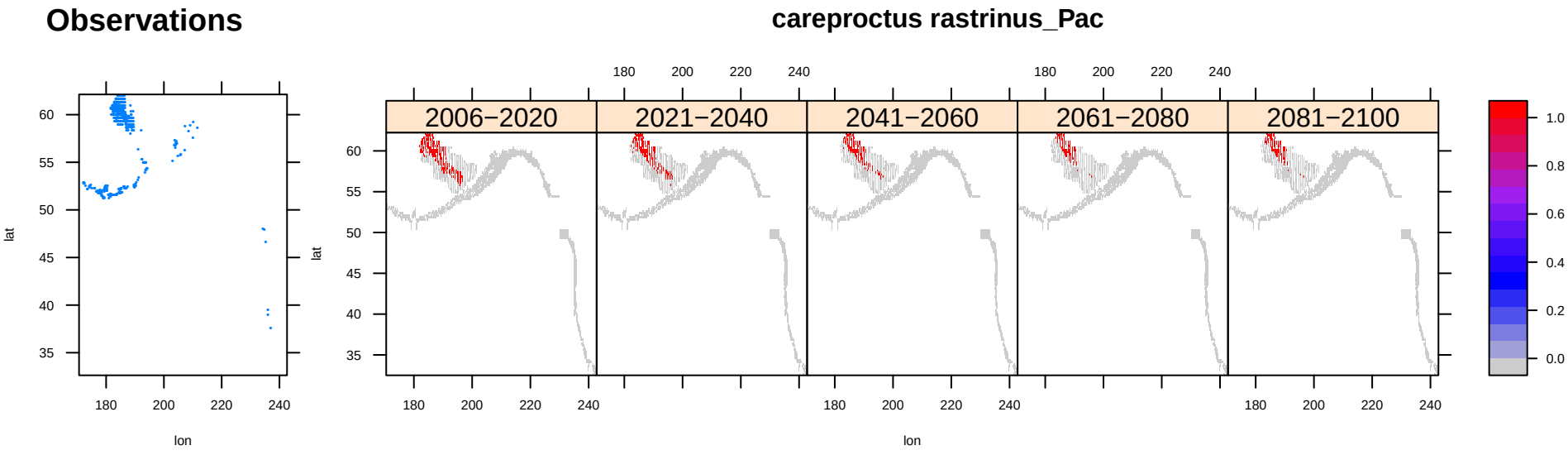
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careproctus rastrinus_Pac
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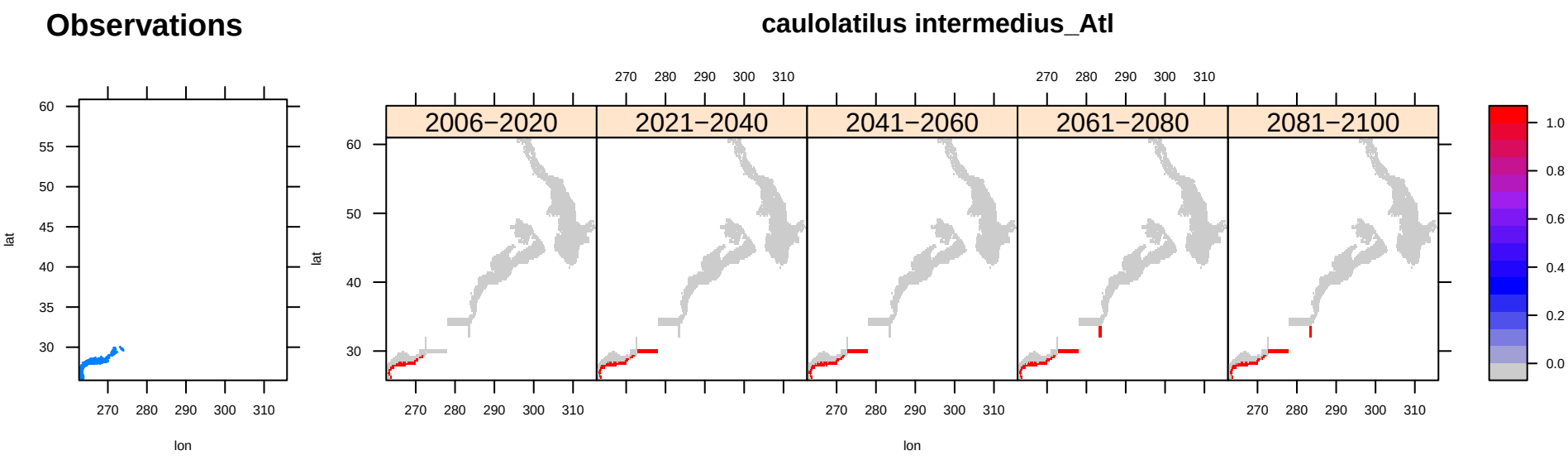
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caulolatilus intermedius_Atl
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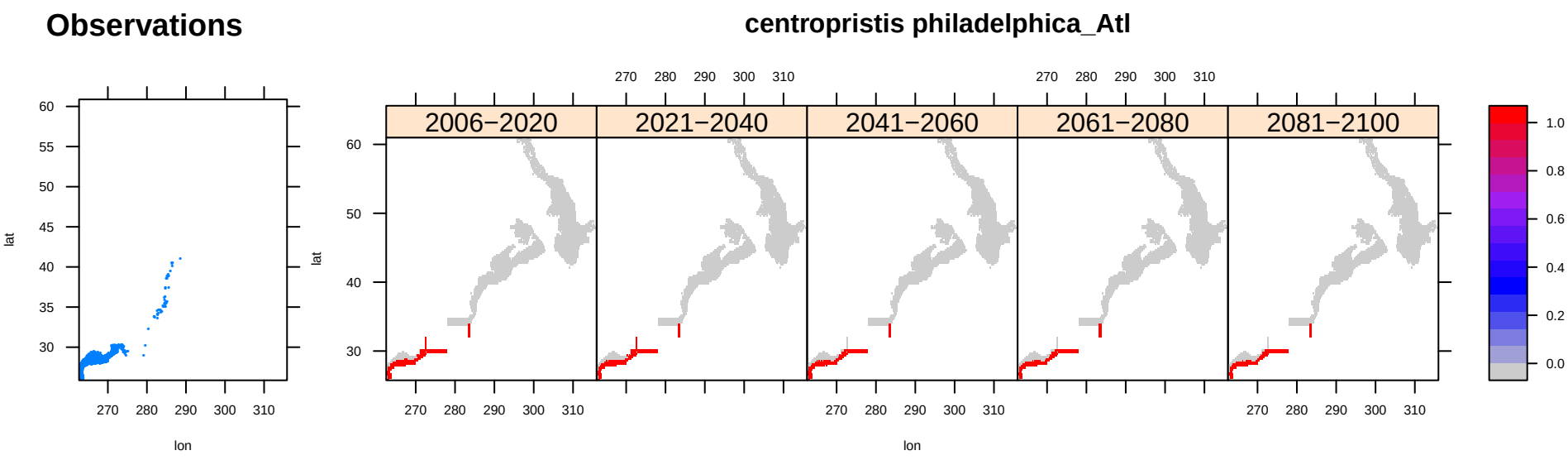
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centropristis philadelphica_Atl
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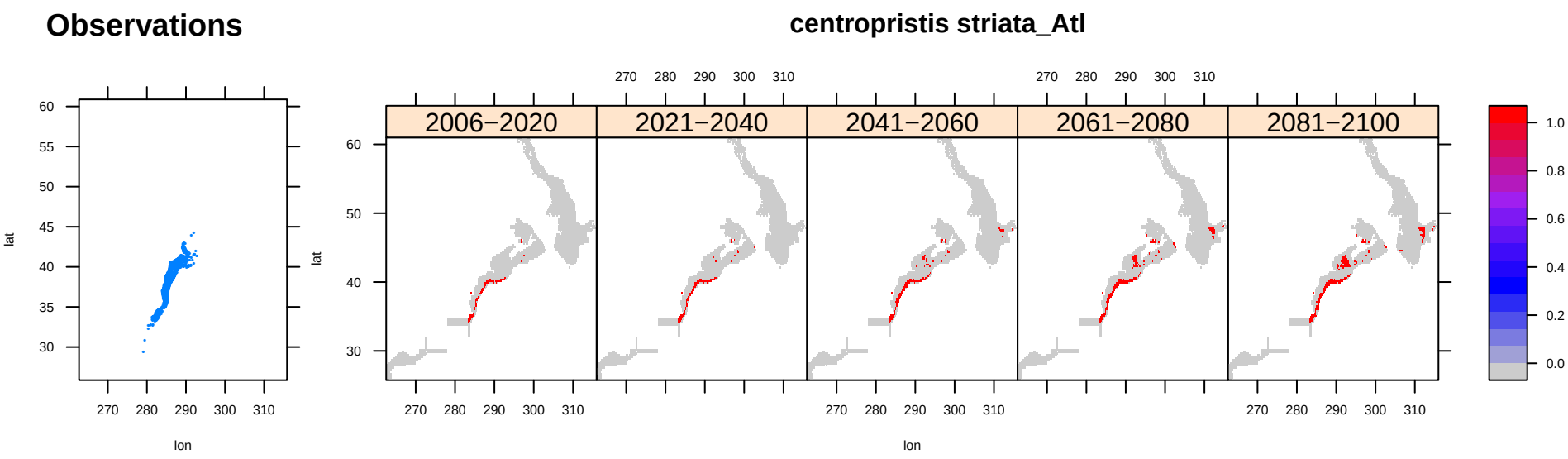
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centropristis striata_Atl
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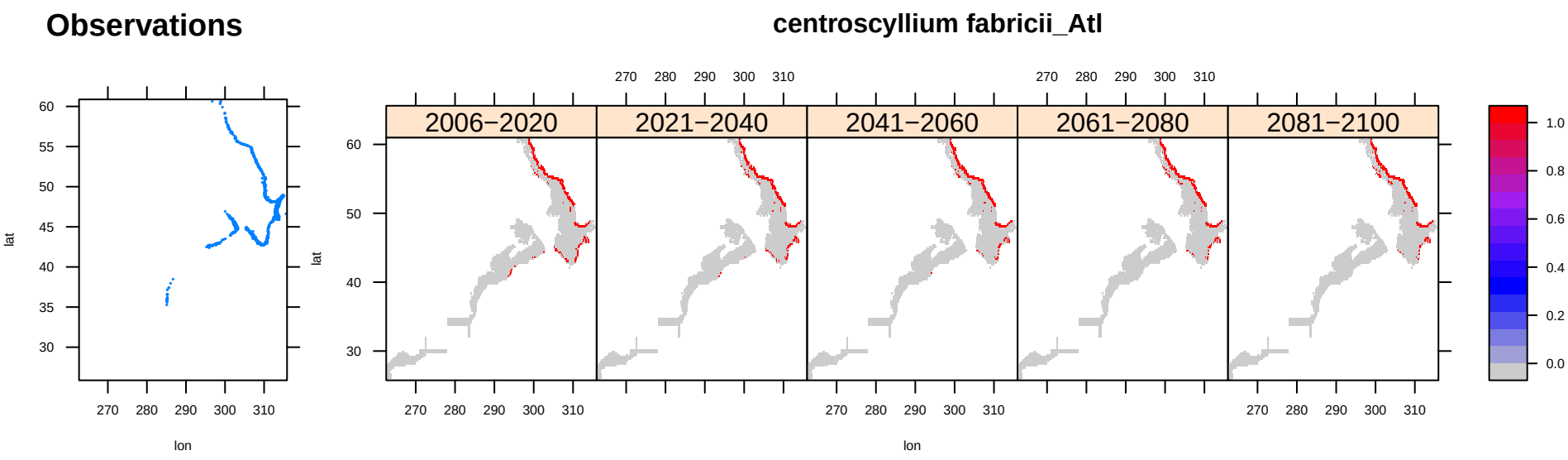
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centroscyllium fabricii_Atl
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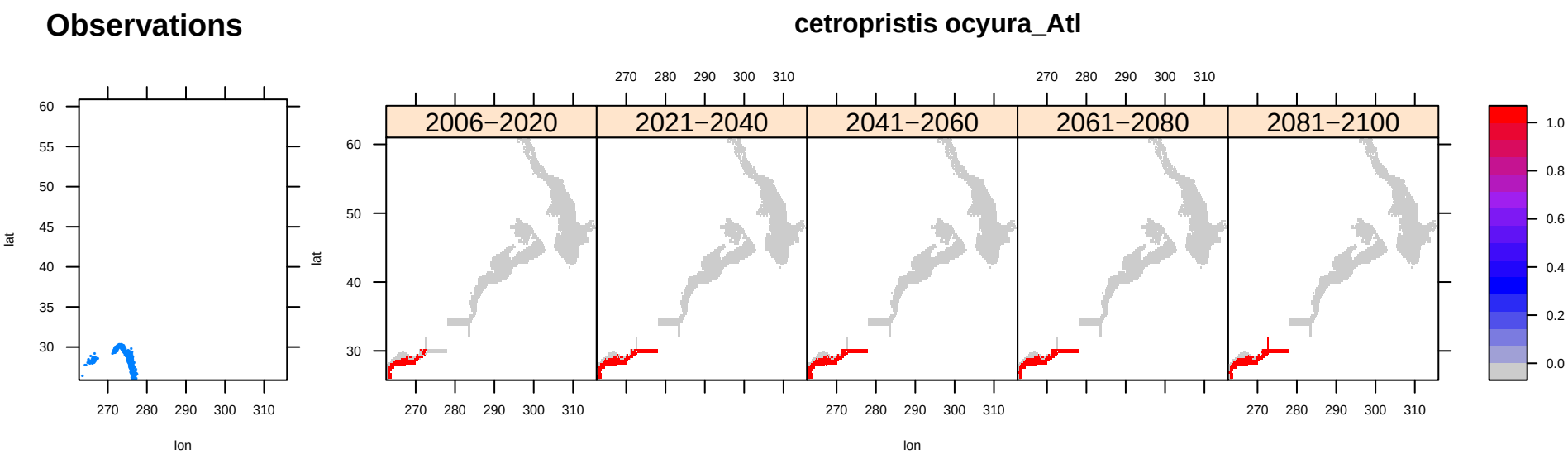
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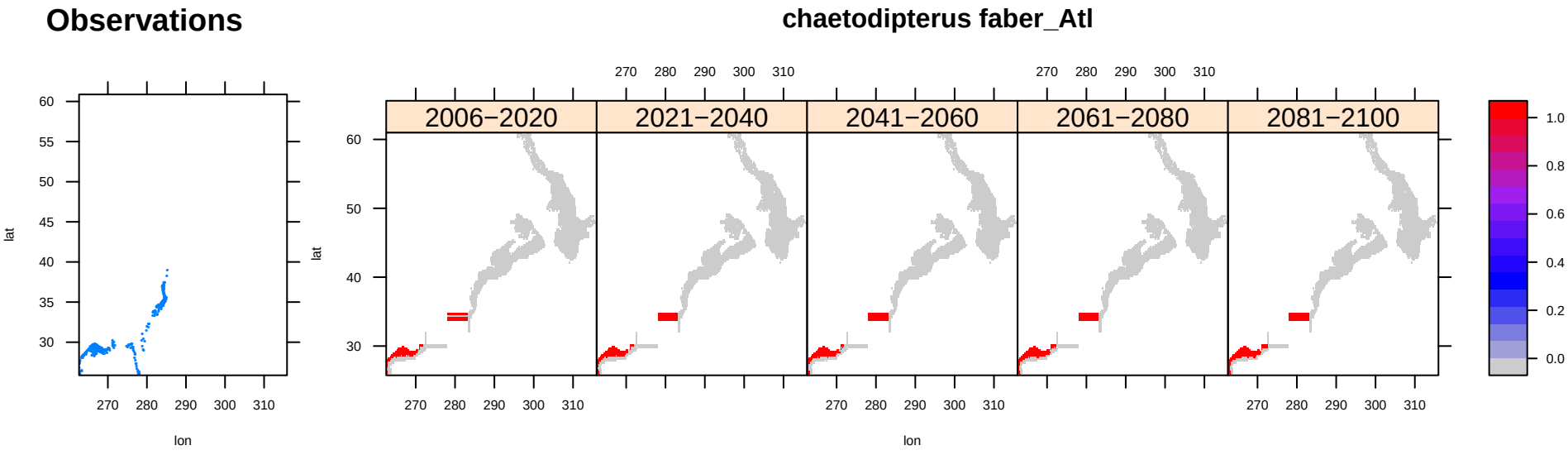
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chaetodipterus faber_Atl
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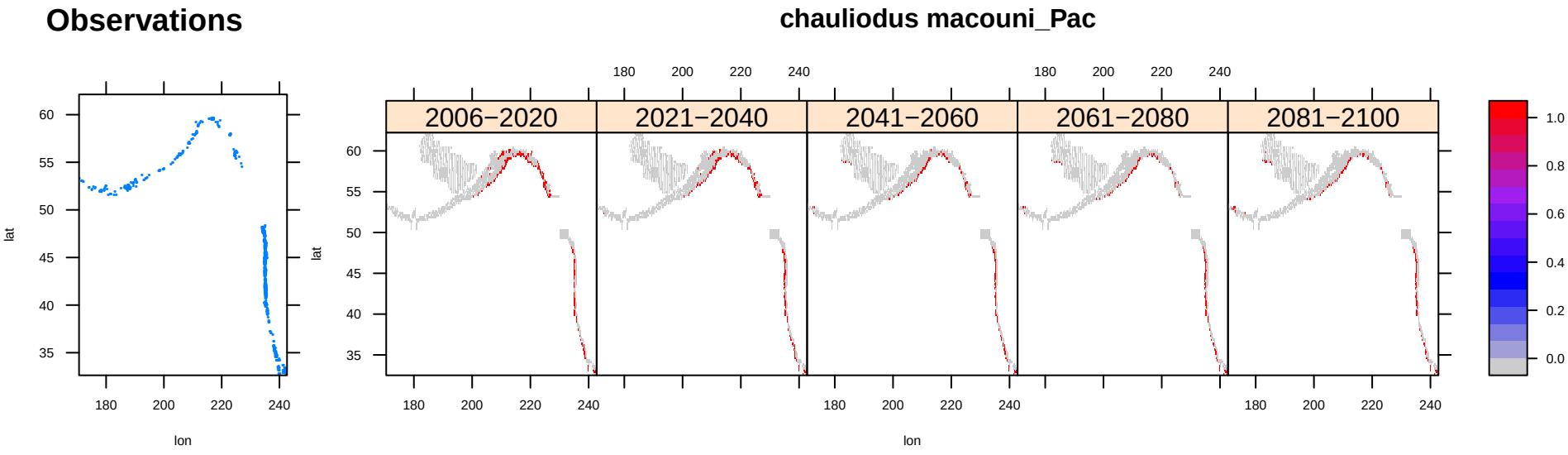
Observations
chauliodus macouni_Pac
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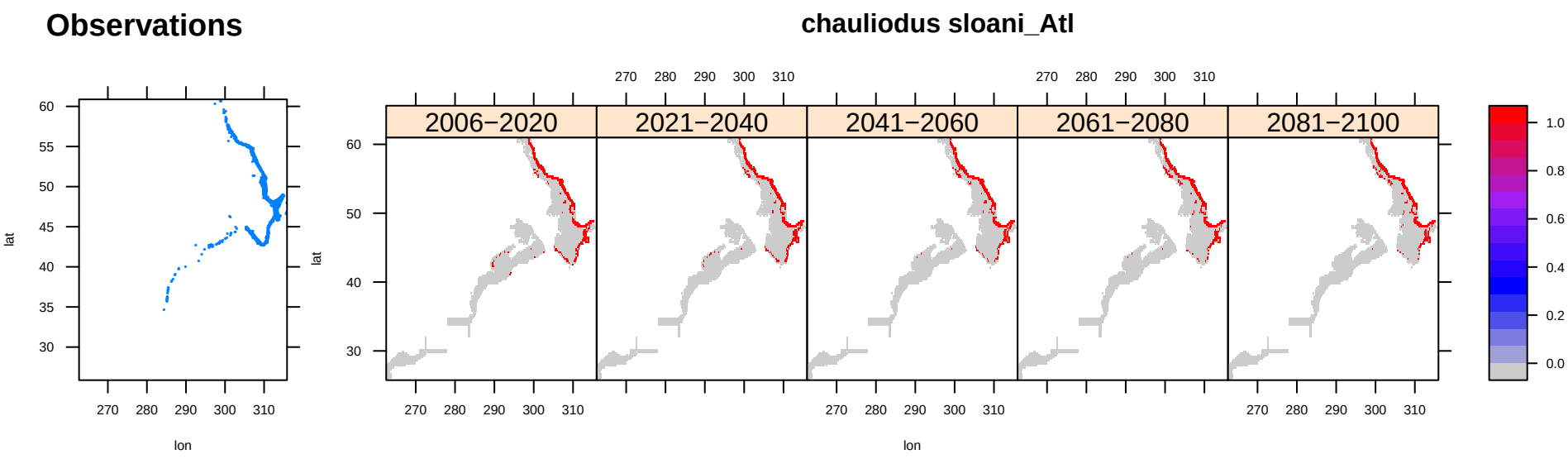
Observations
chauliodus sloani_Atl
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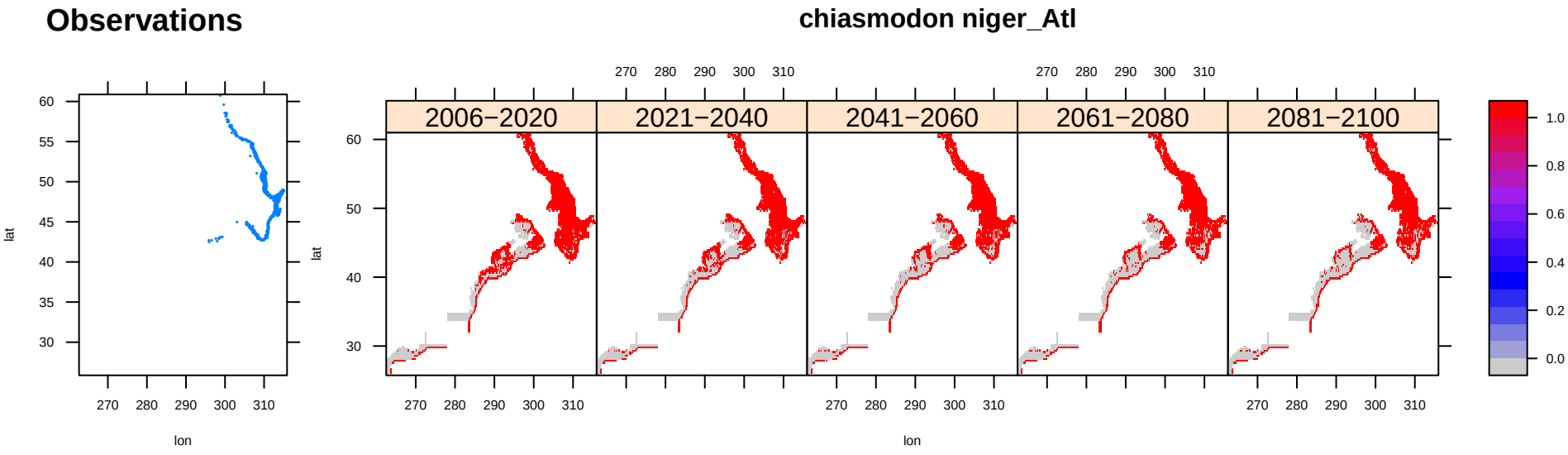
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chiasmodon niger_Atl
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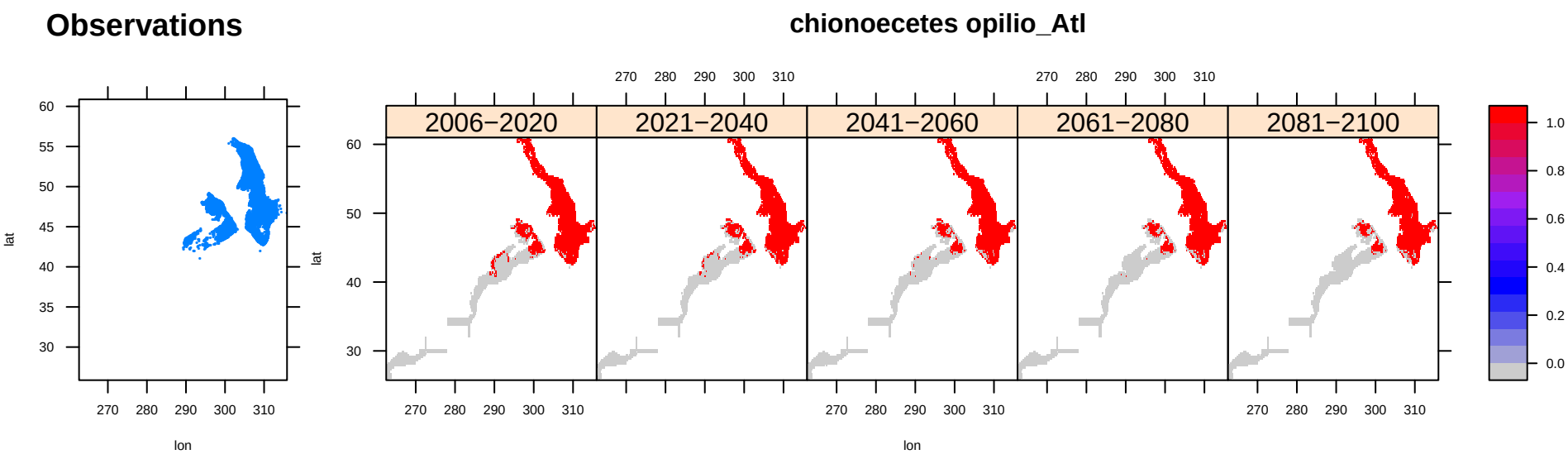
Observations
chionoecetes opilio_Atl
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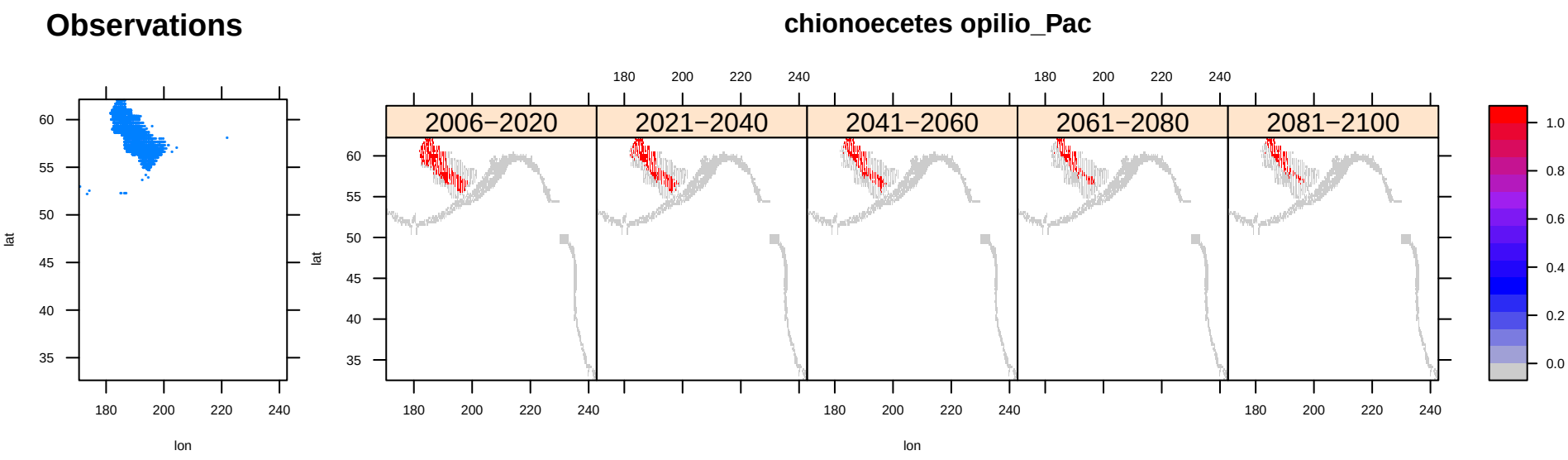
Observations
chionoecetes opilio_Pac
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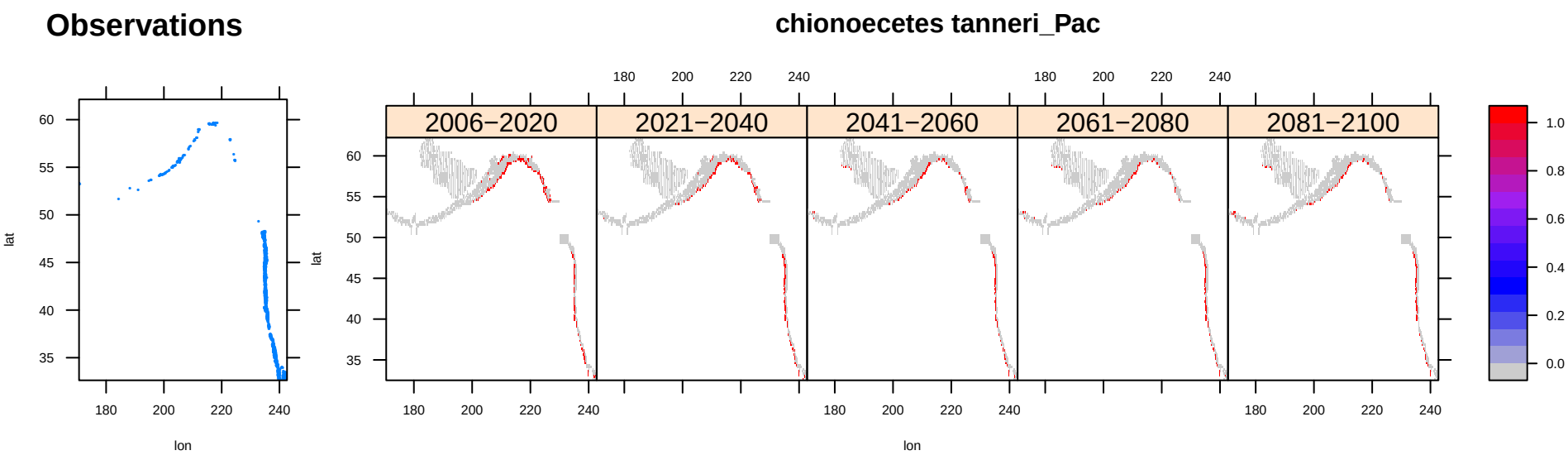
Observations
chionoecetes tanneri_Pac
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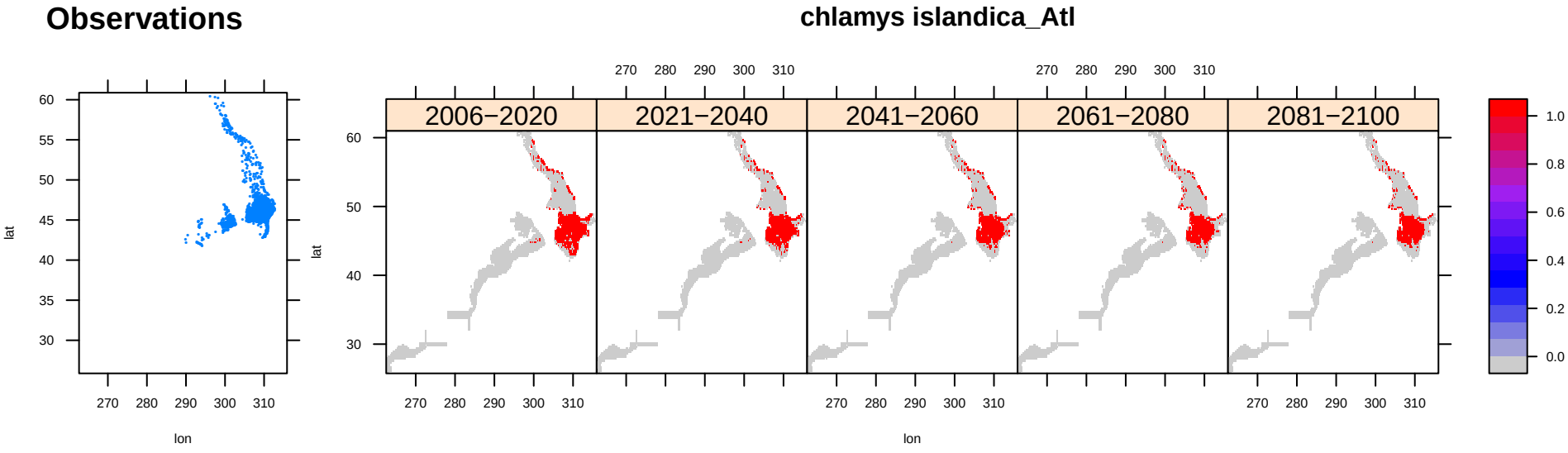
Observations
chlamys islandica_Atl
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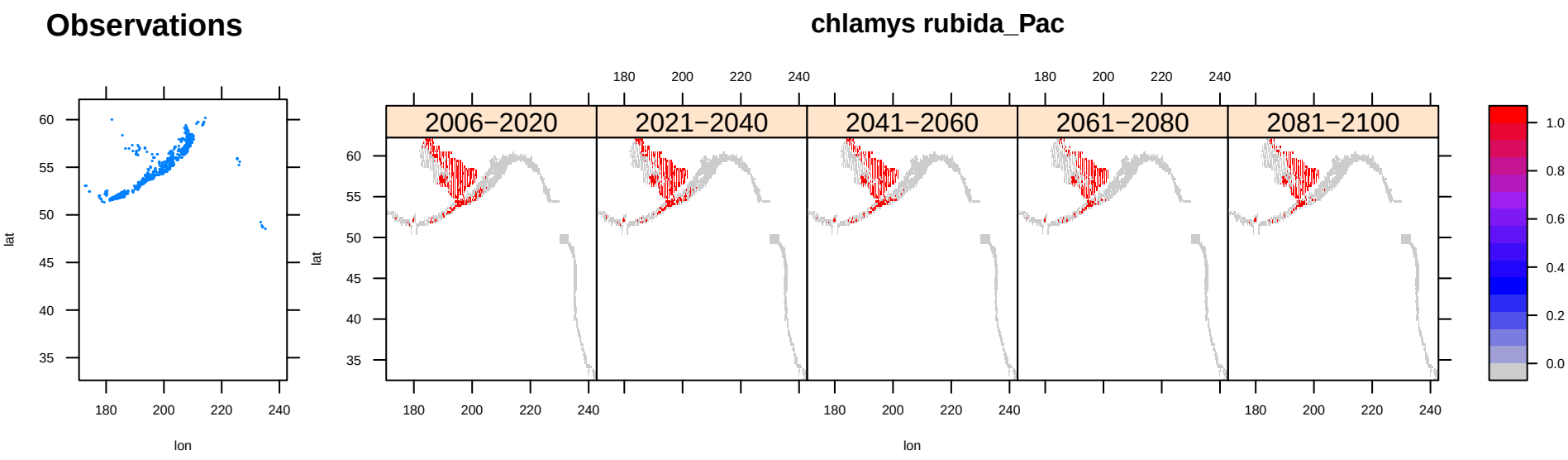
Observations
chlamys rubida_Pac
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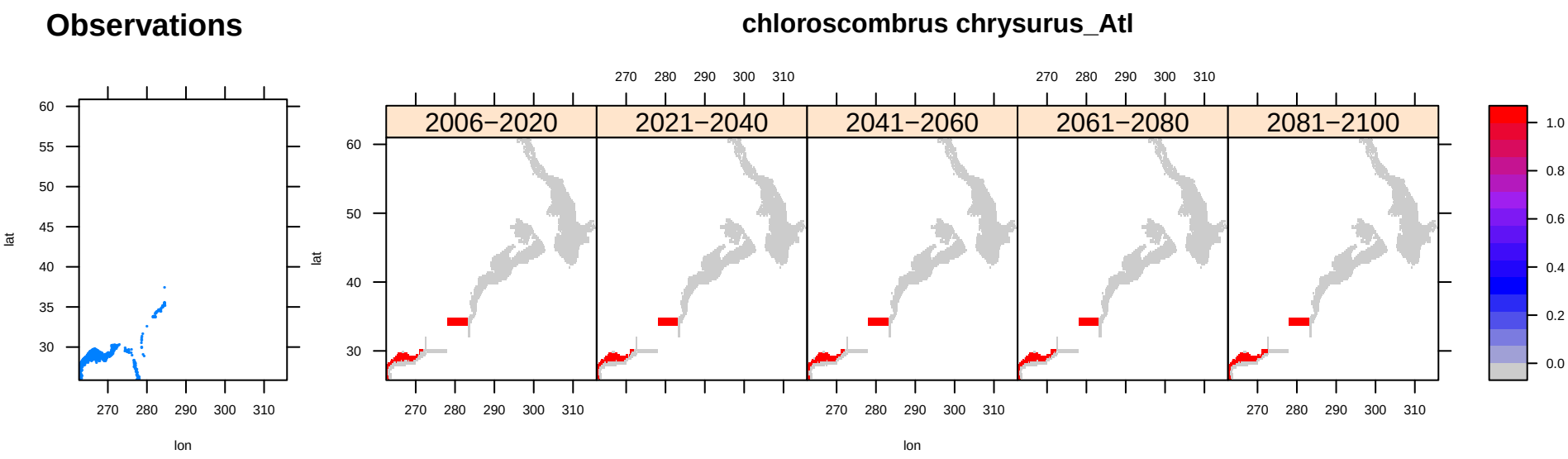
Observations
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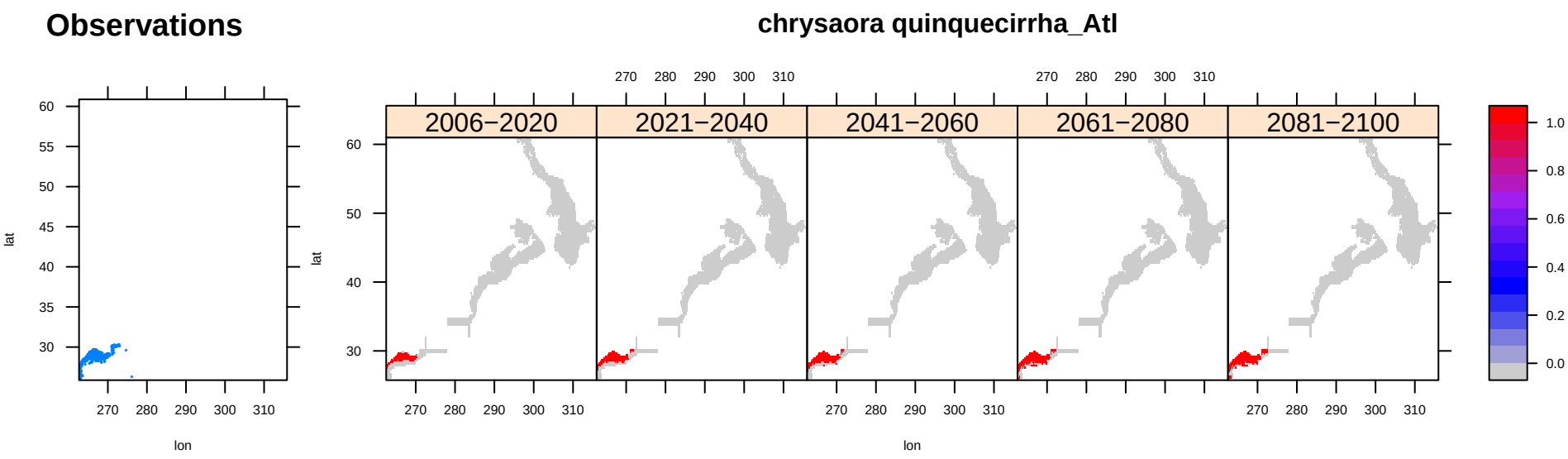
Observations
chrysaora quinquecirrha_Atl
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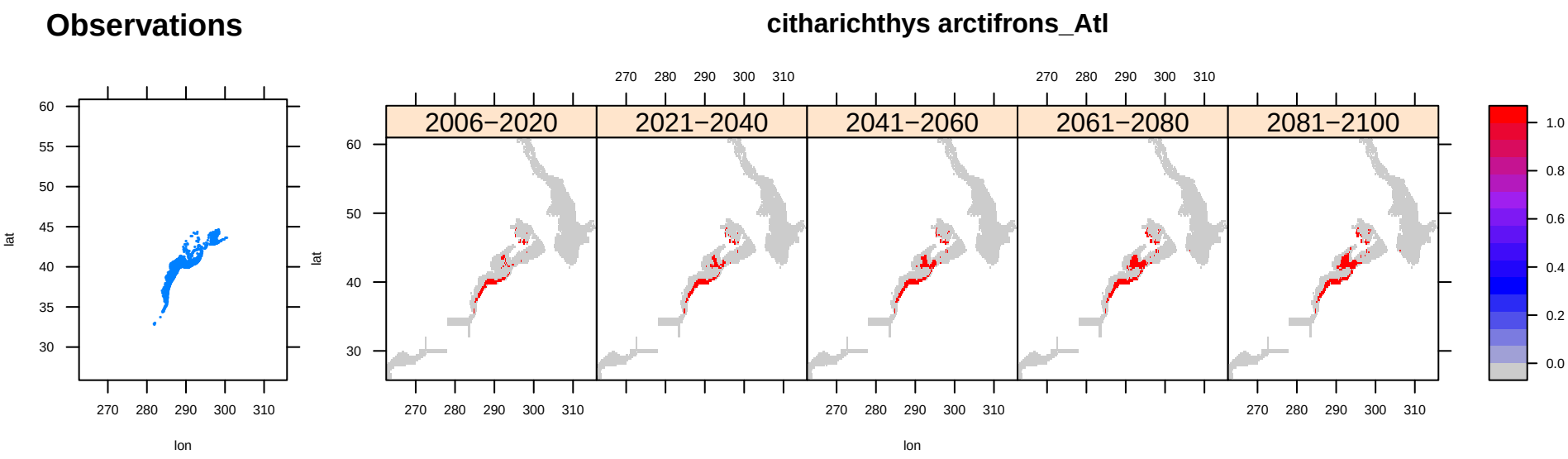
Observations
citharichthys arctifrons_Atl
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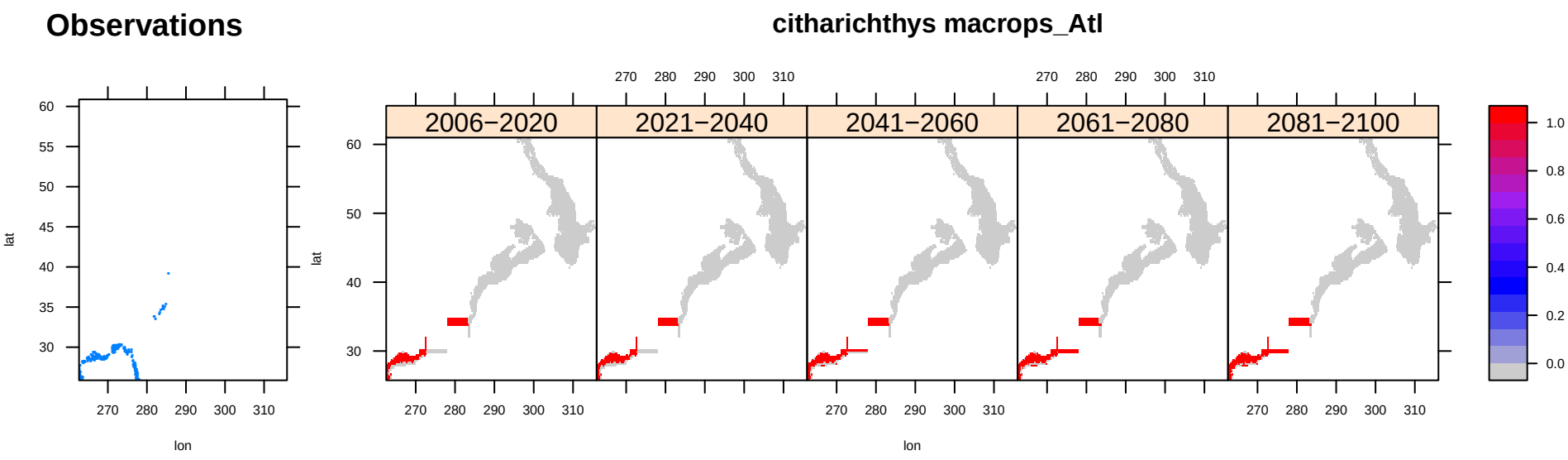
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citharichthys macrops_Atl
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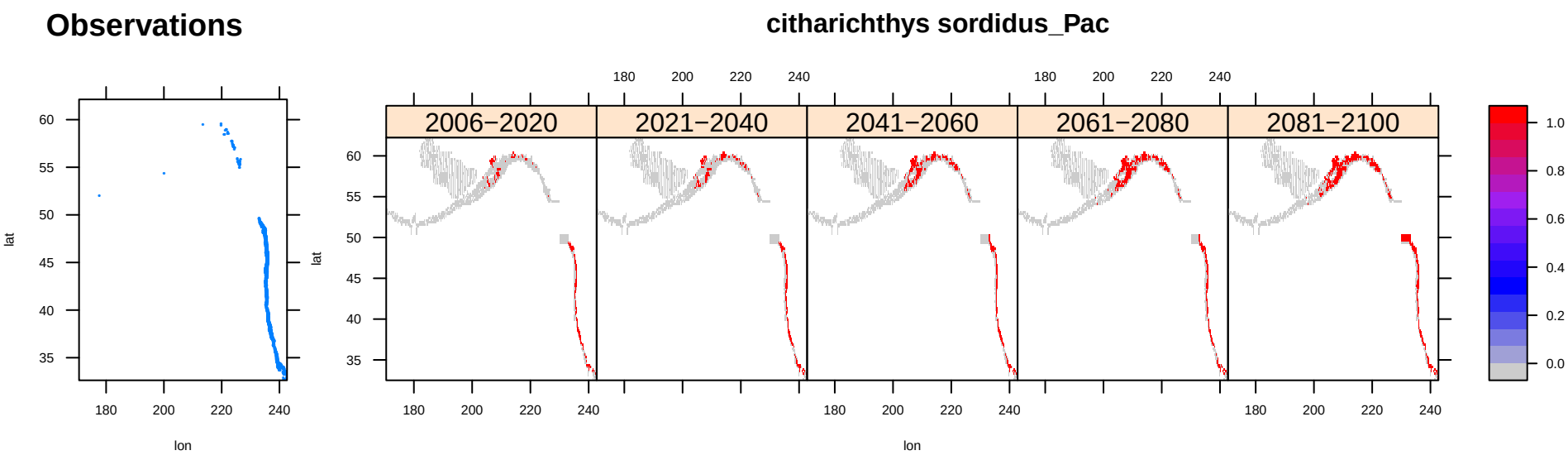
Observations
citharichthys sordidus_Pac
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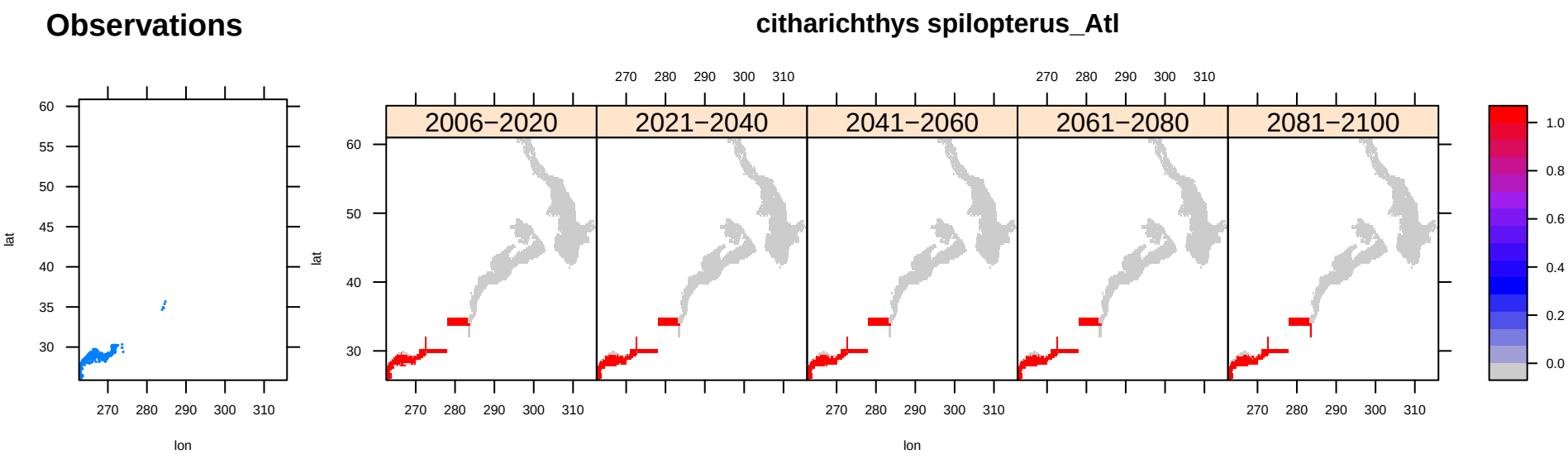
Observations
citharichthys spilopterus_Atl
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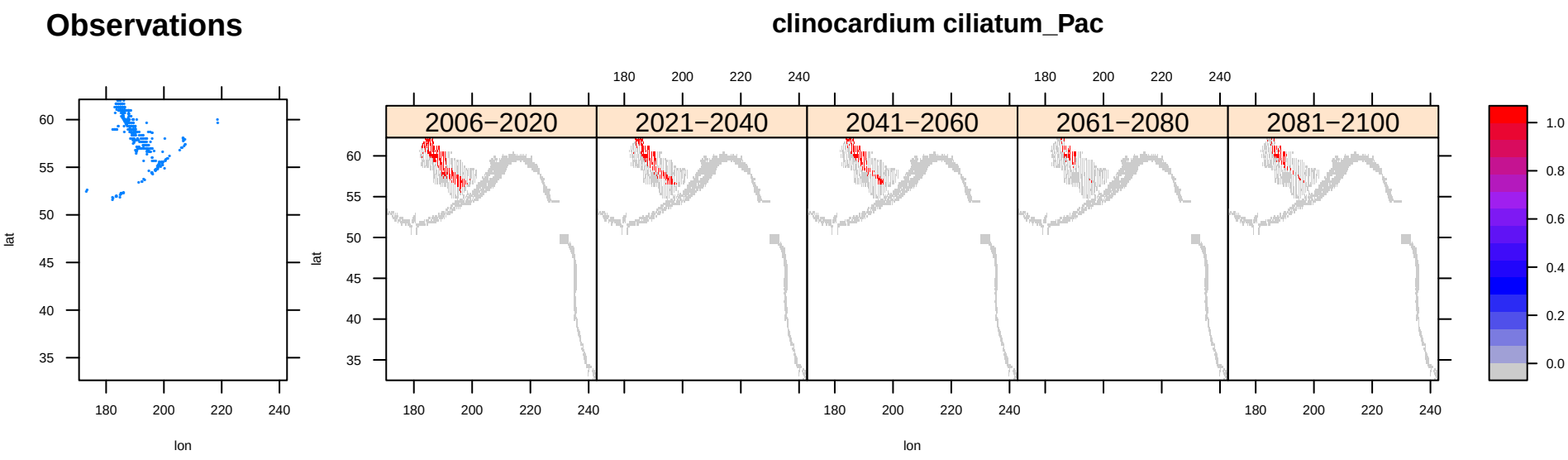
Observations
clinocardium ciliatum_Pac
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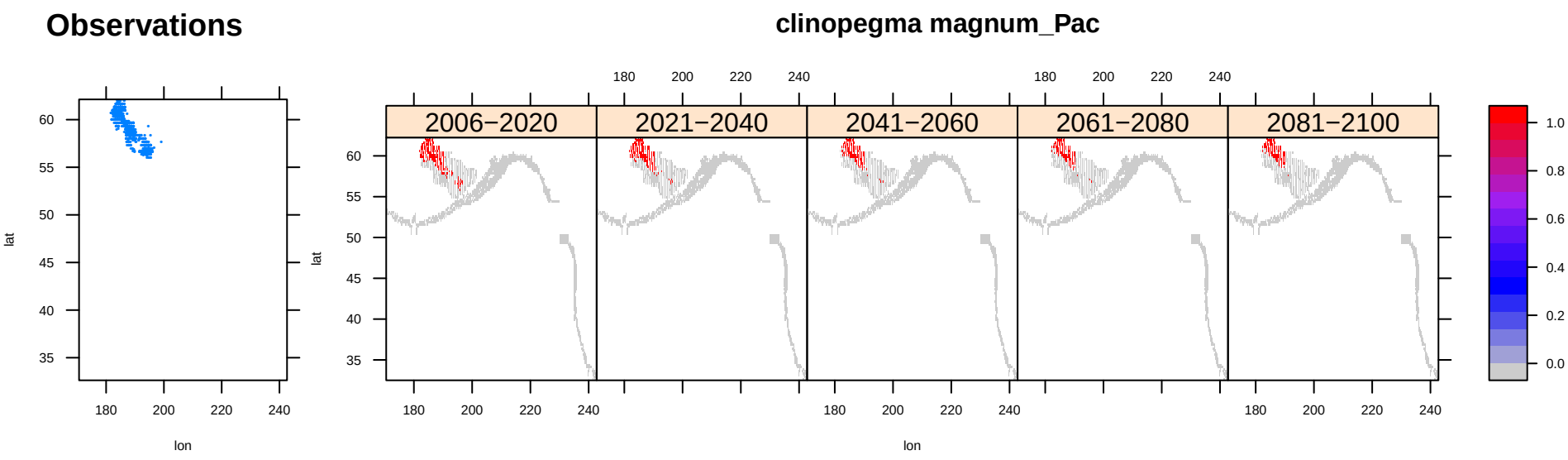
Observations
clinopegma magnum_Pac
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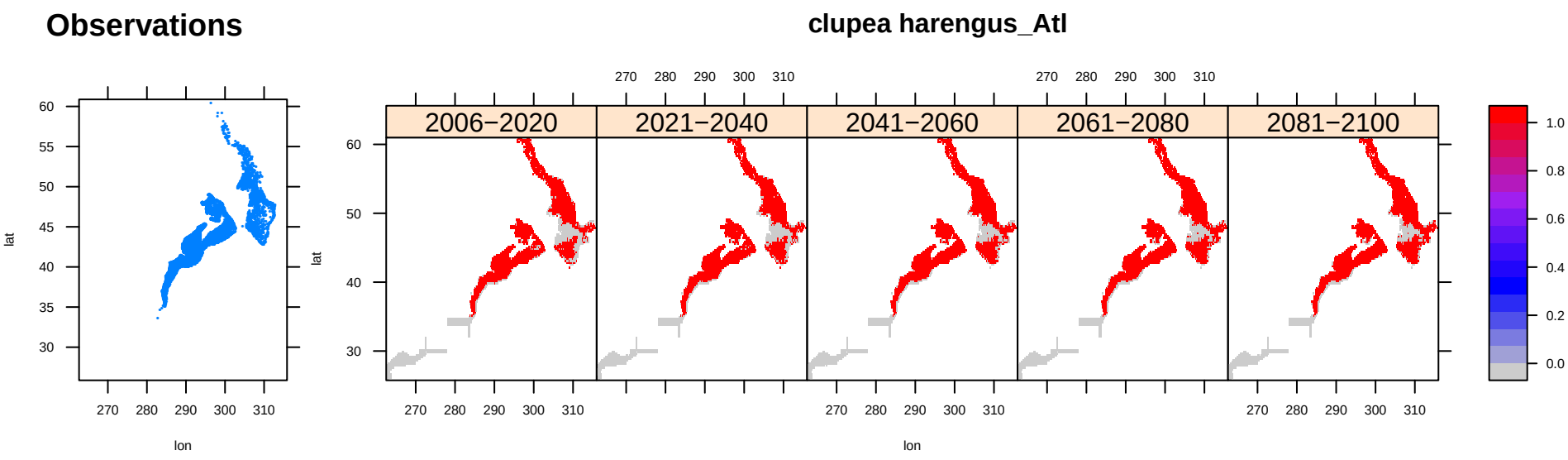
Observations
clupea harengus_Atl
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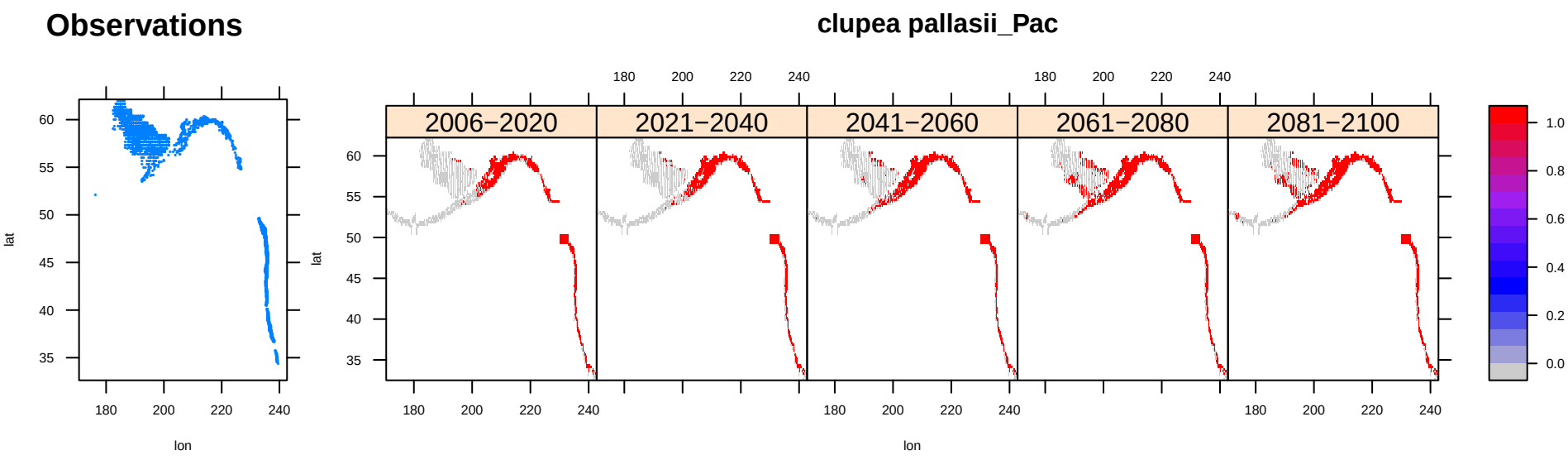
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clupea pallasii_Pac
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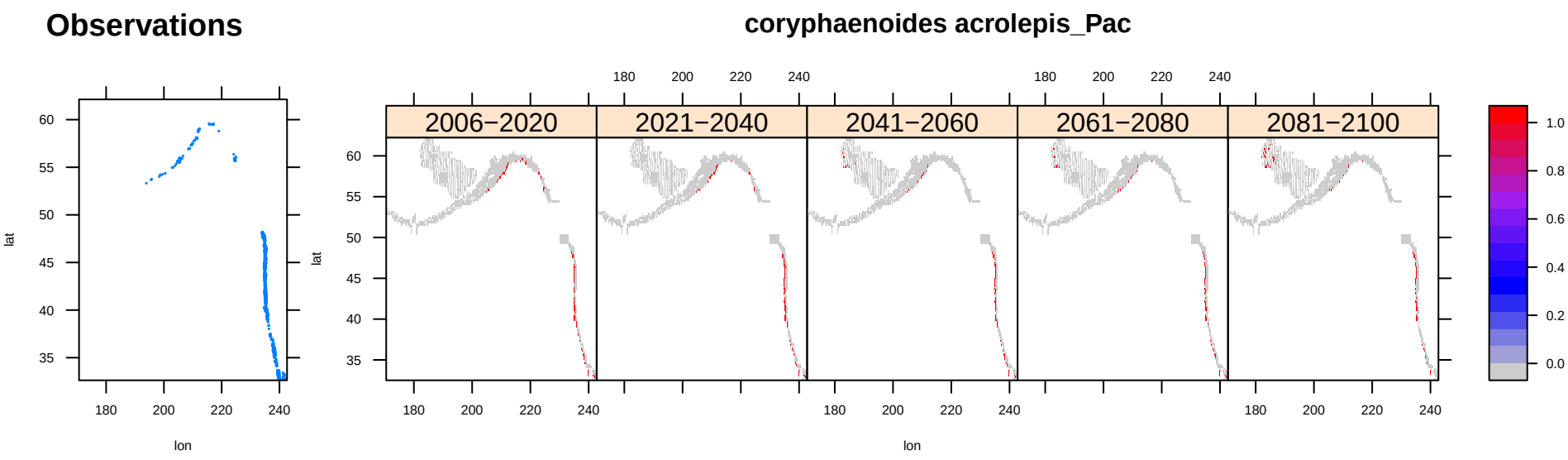
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coryphaenoides acrolepis_Pac
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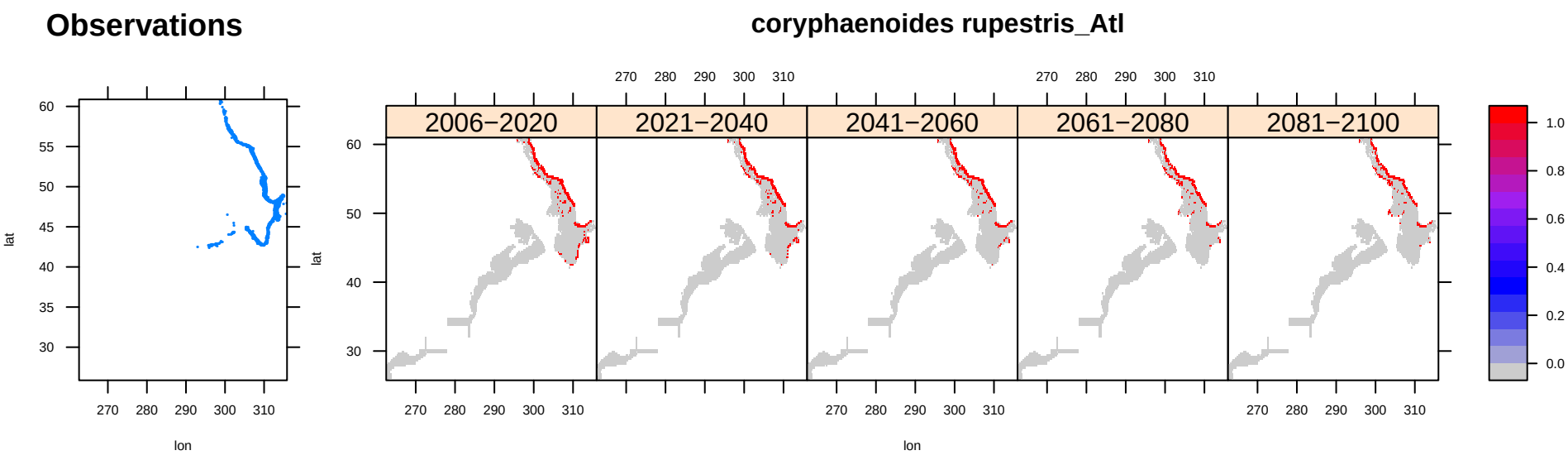
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coryphaenoides rupestris_Atl
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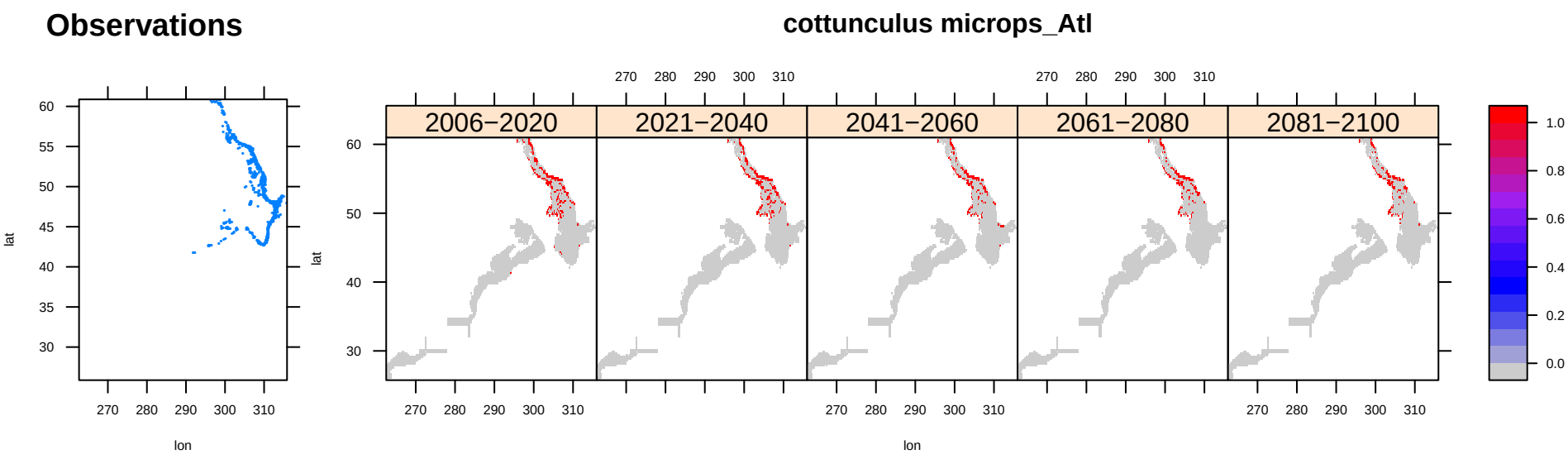
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cottunculus microps_Atl
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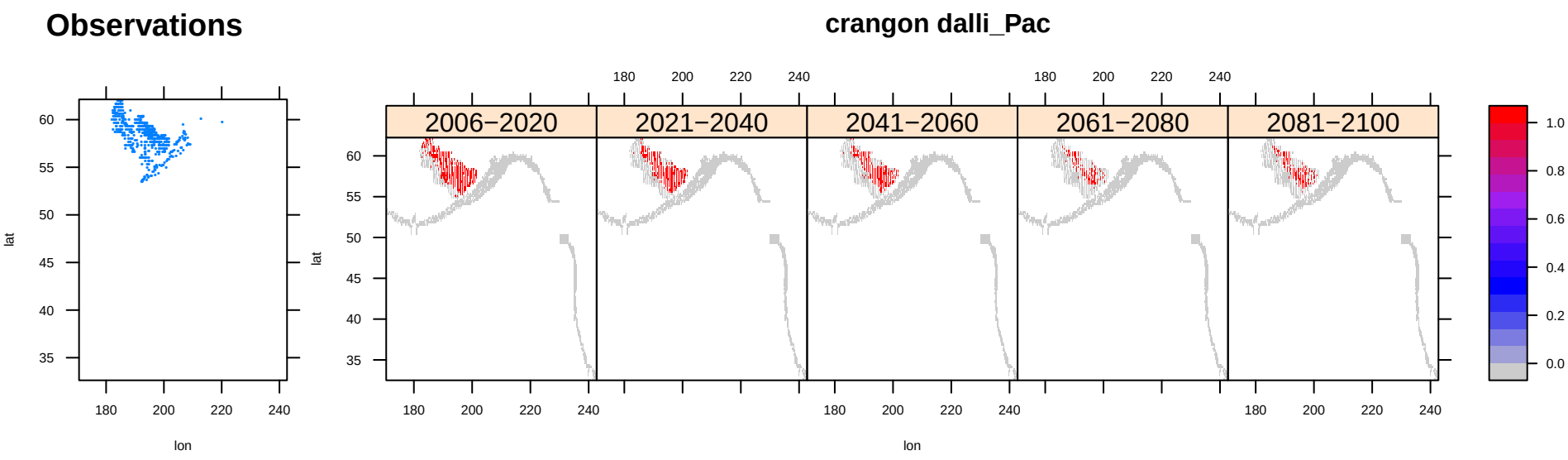
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crangon dalli_Pac
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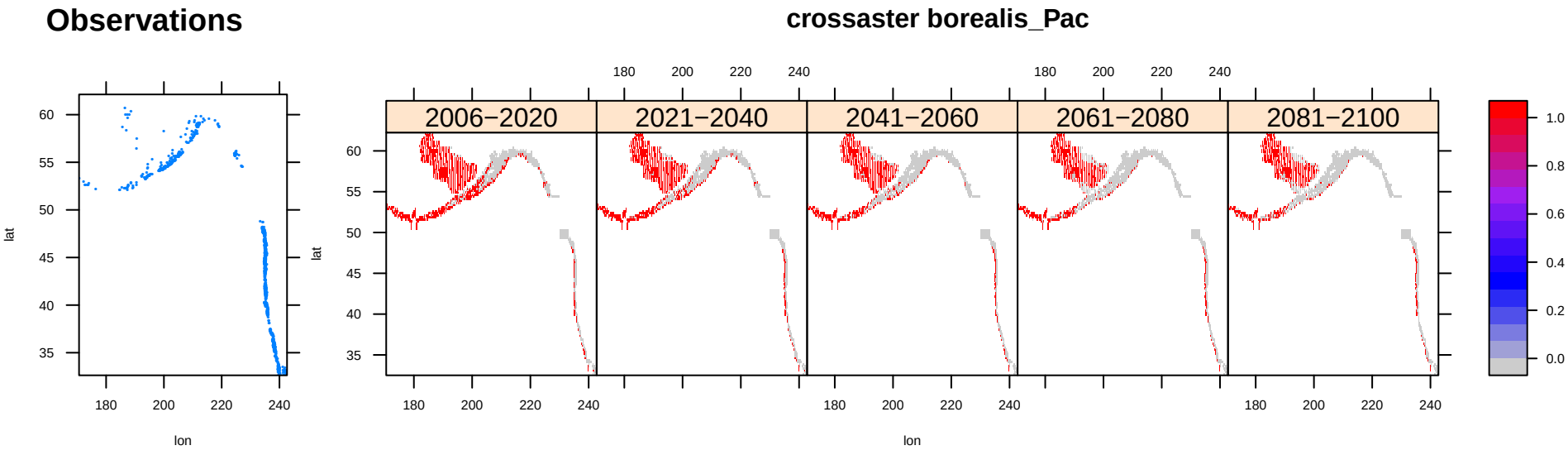
Observations
crossaster borealis_Pac
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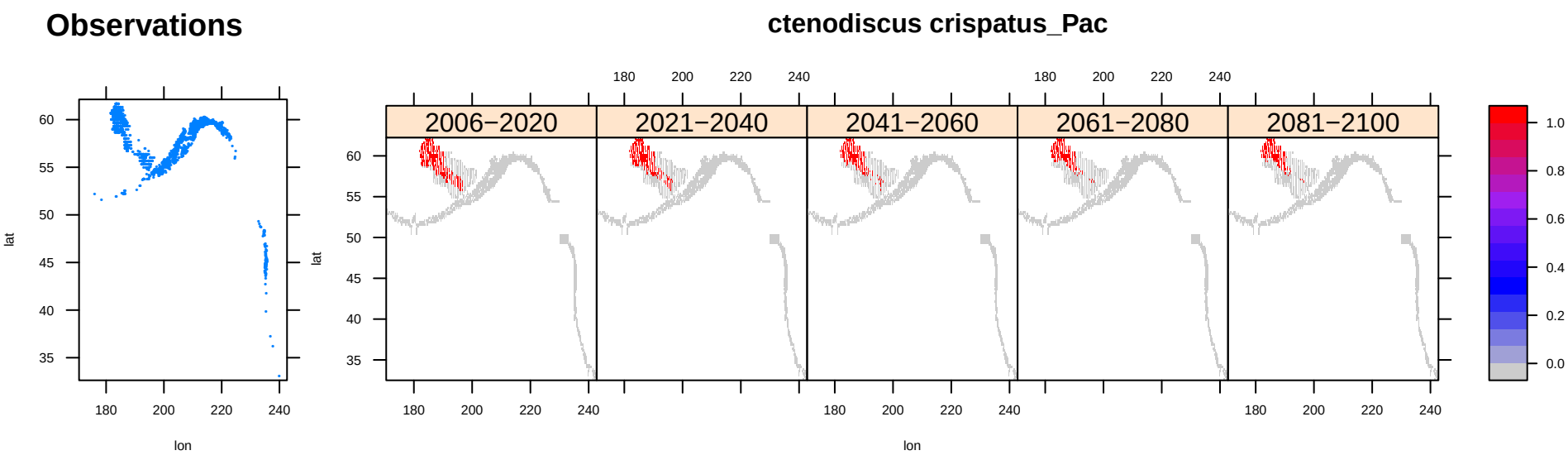
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ctenodiscus crispatus_Pac
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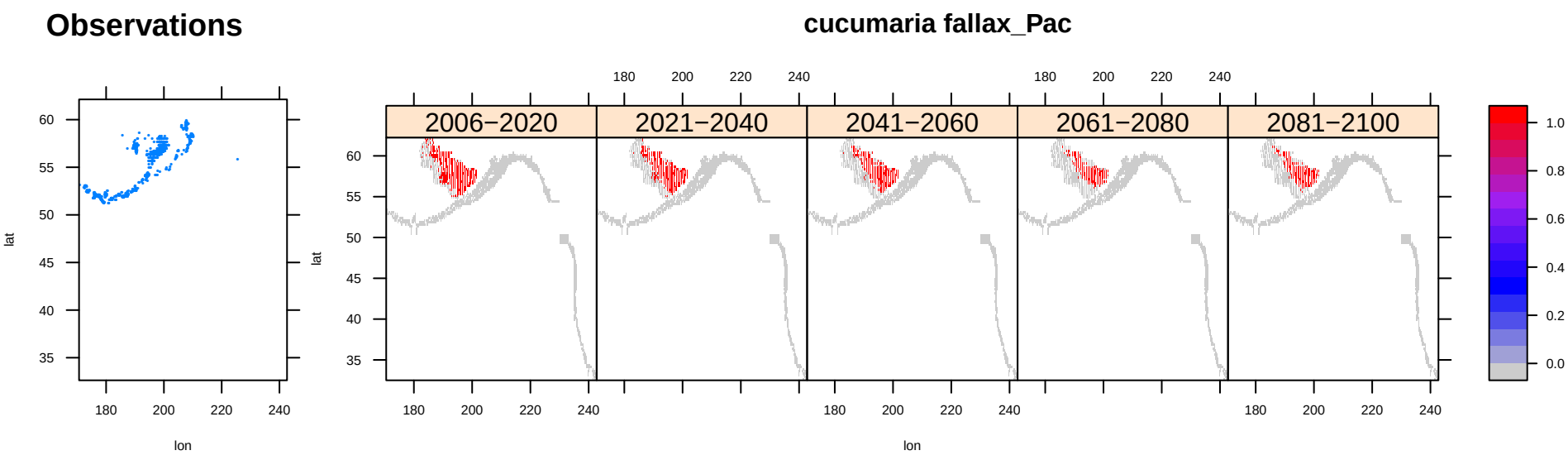
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cucumaria fallax_Pac
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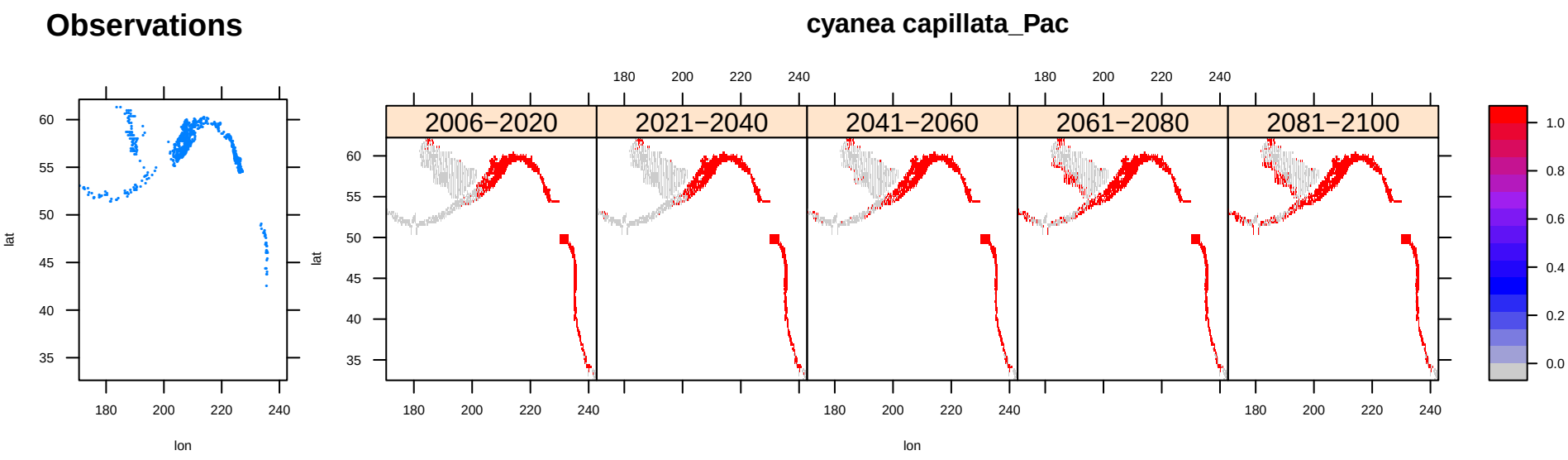
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cyanea capillata_Pac
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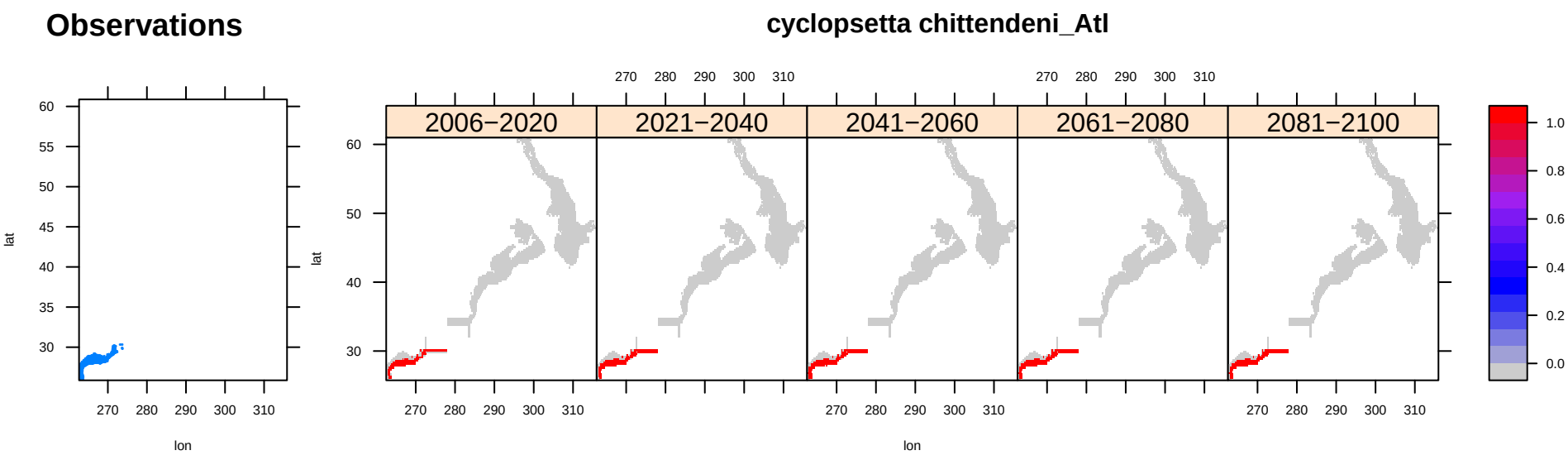
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cyclopsetta chittendeni_Atl
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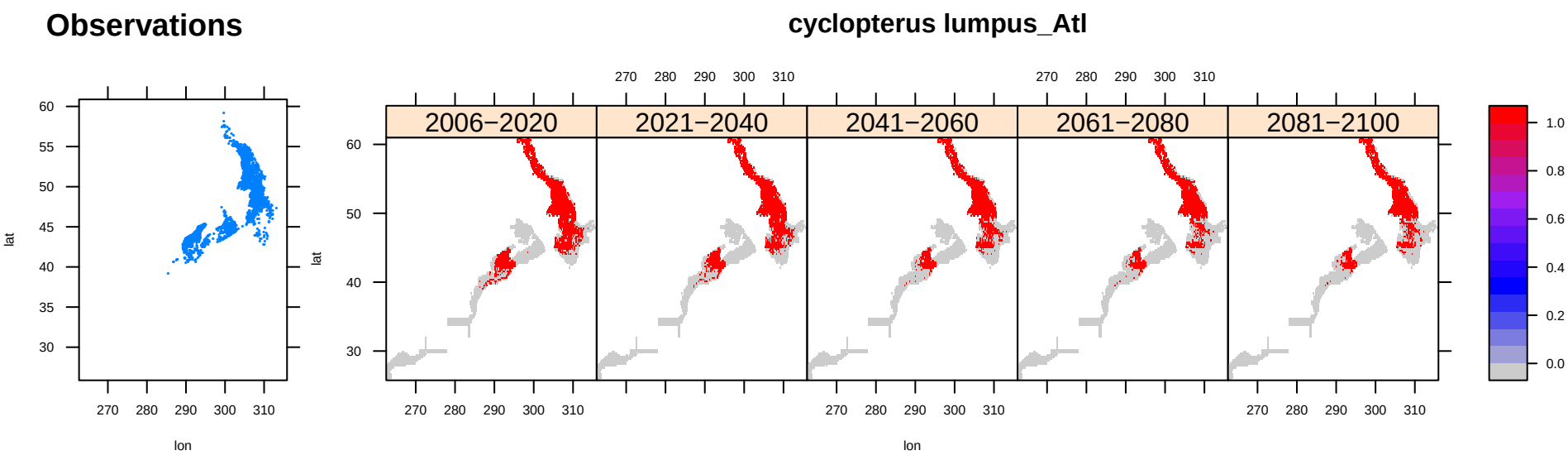
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cyclopterus lumpus_Atl
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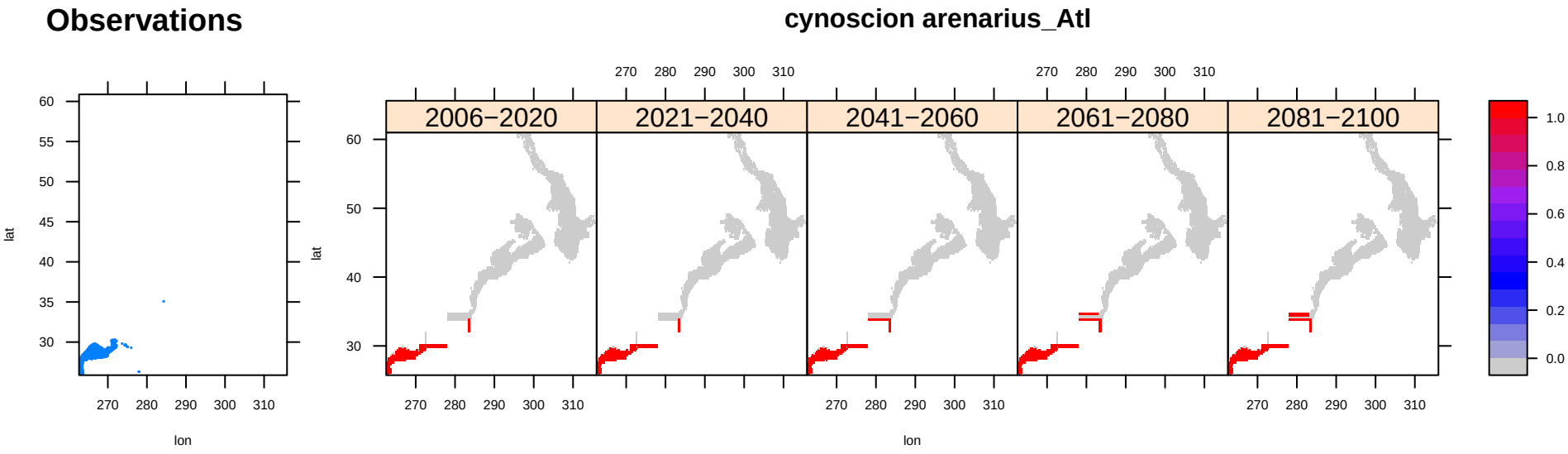
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cynoscion arenarius_Atl
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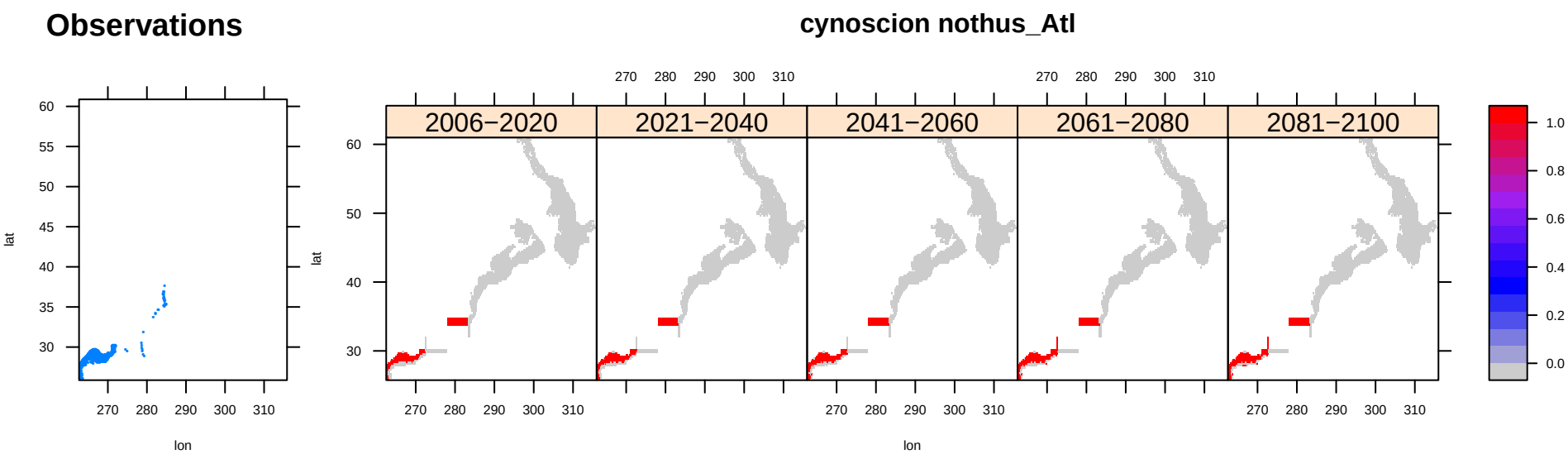
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cynoscion nothus_Atl
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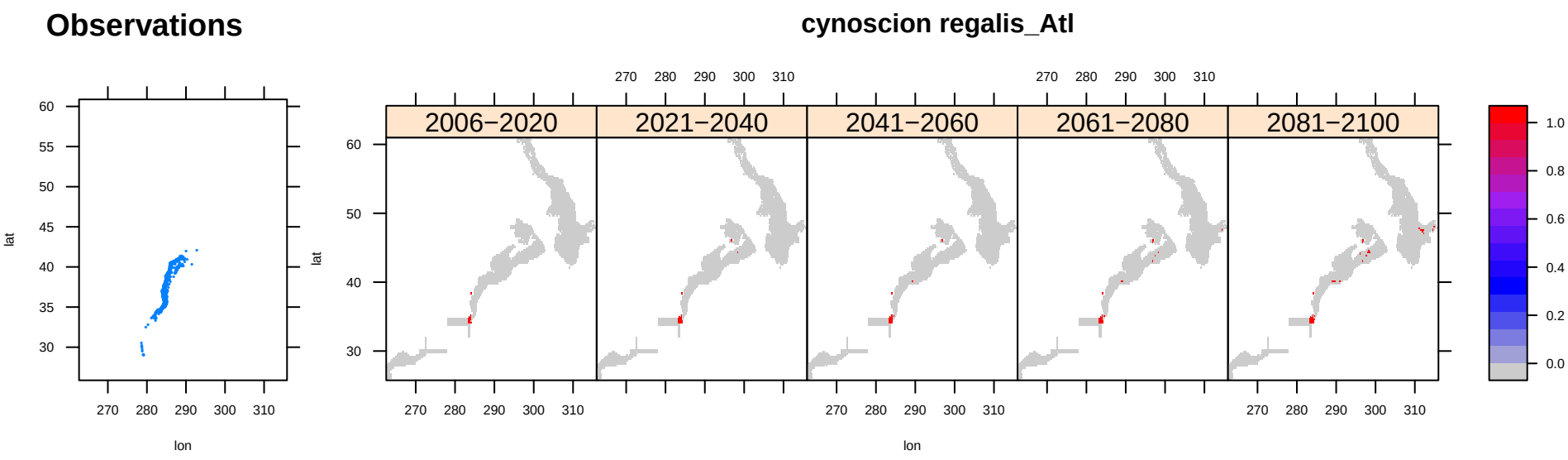
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cynoscion regalis_Atl
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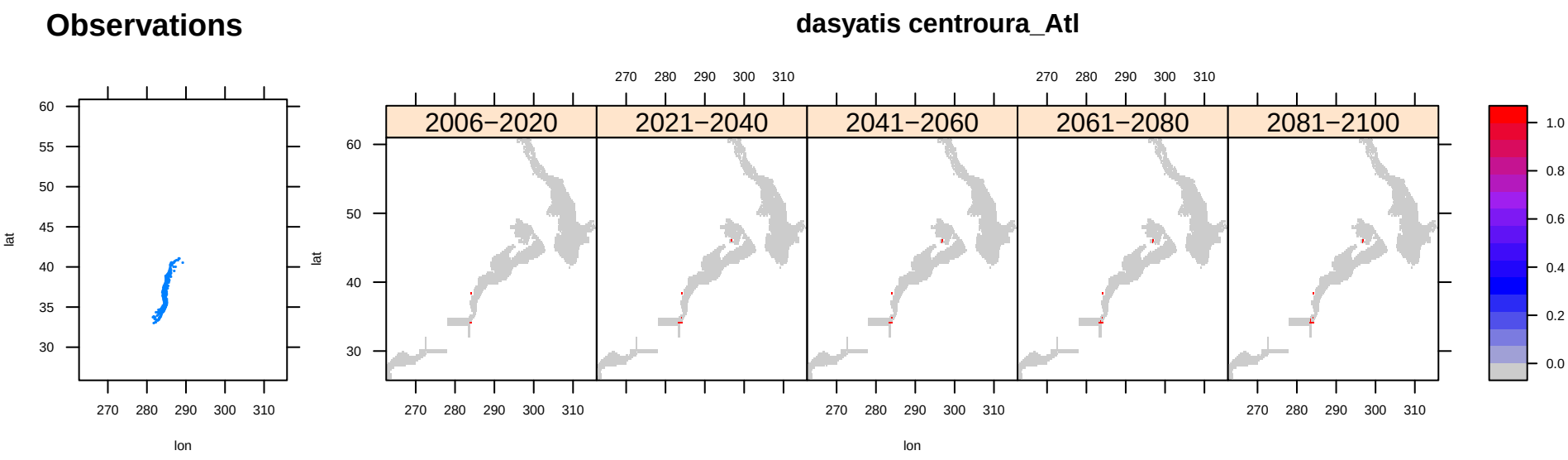
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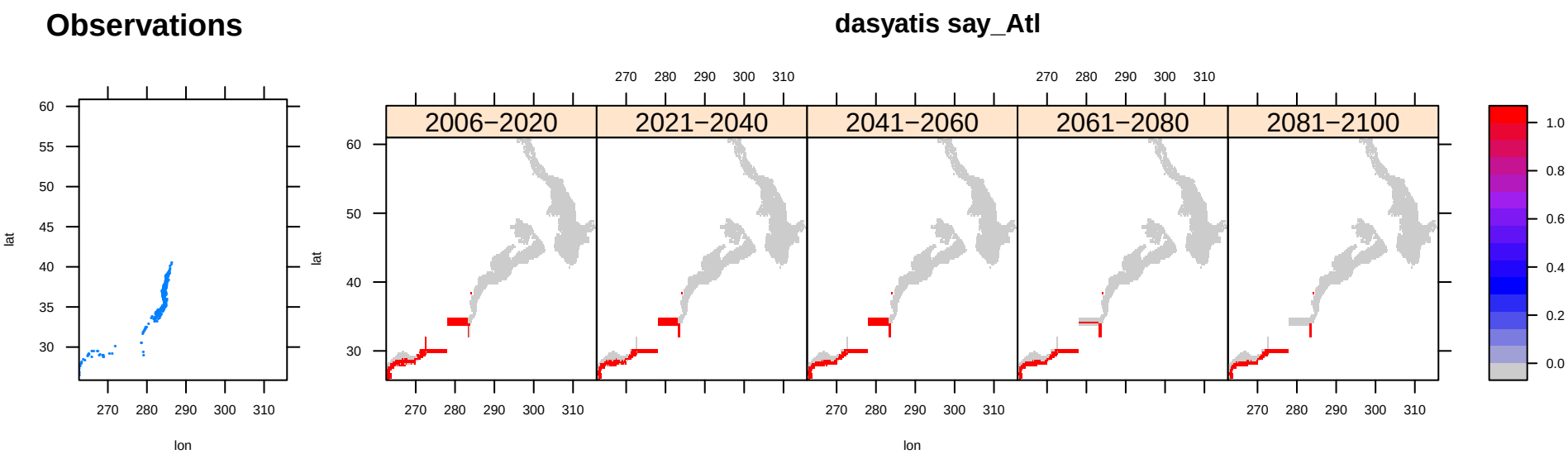
Observations
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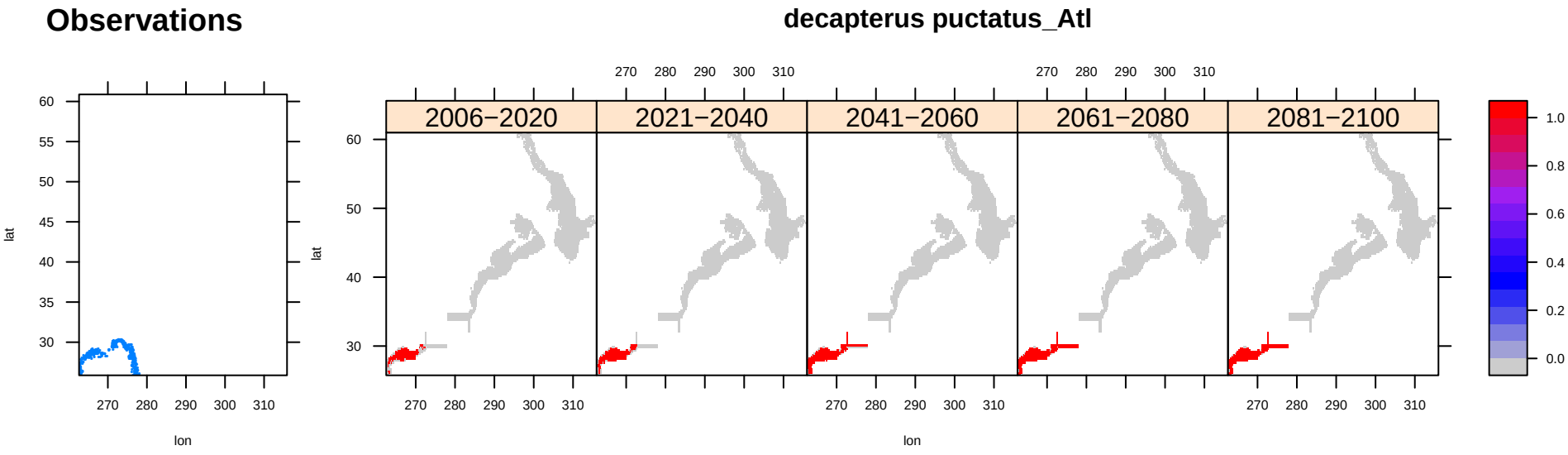
Observations
decapterus puctatus_Atl
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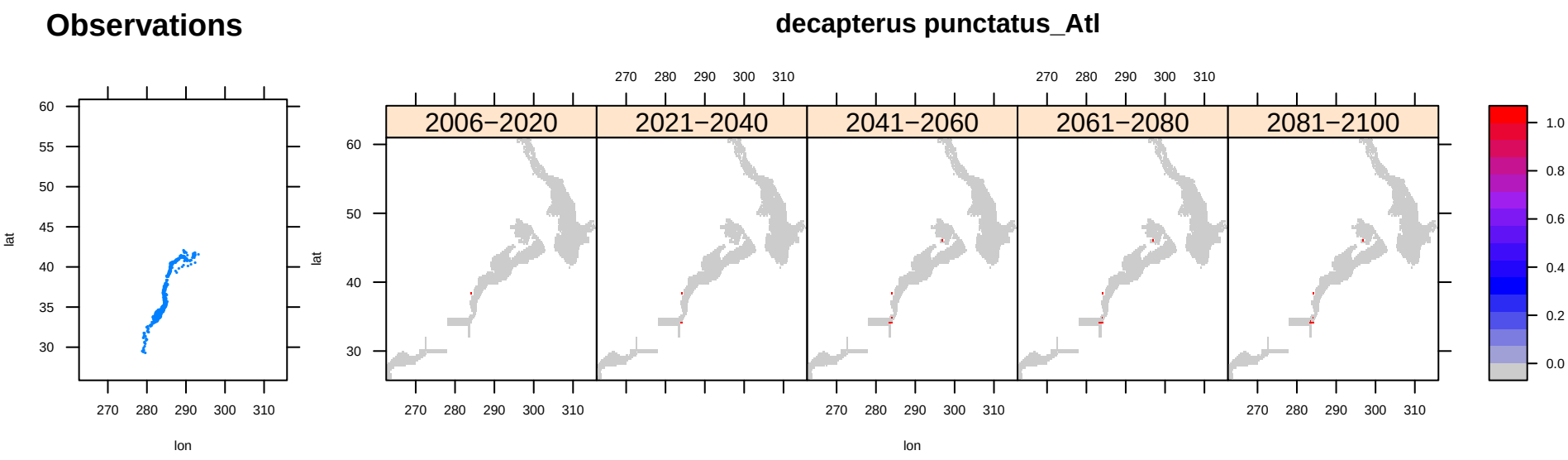
Observations
decapterus punctatus_Atl
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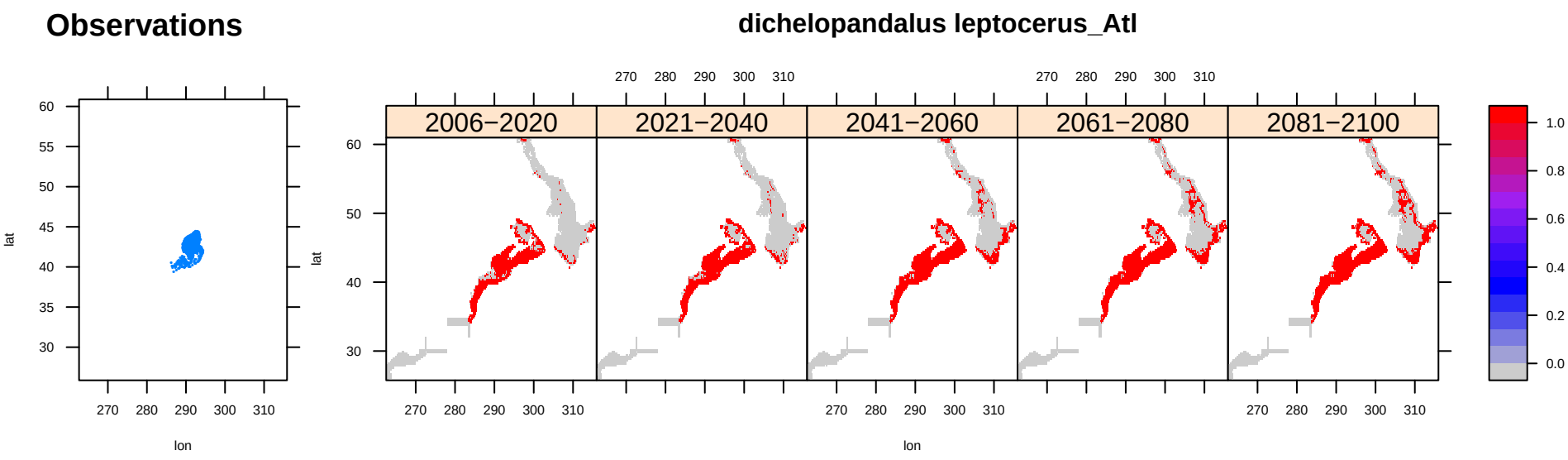
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dichelopandalus leptocerus_Atl
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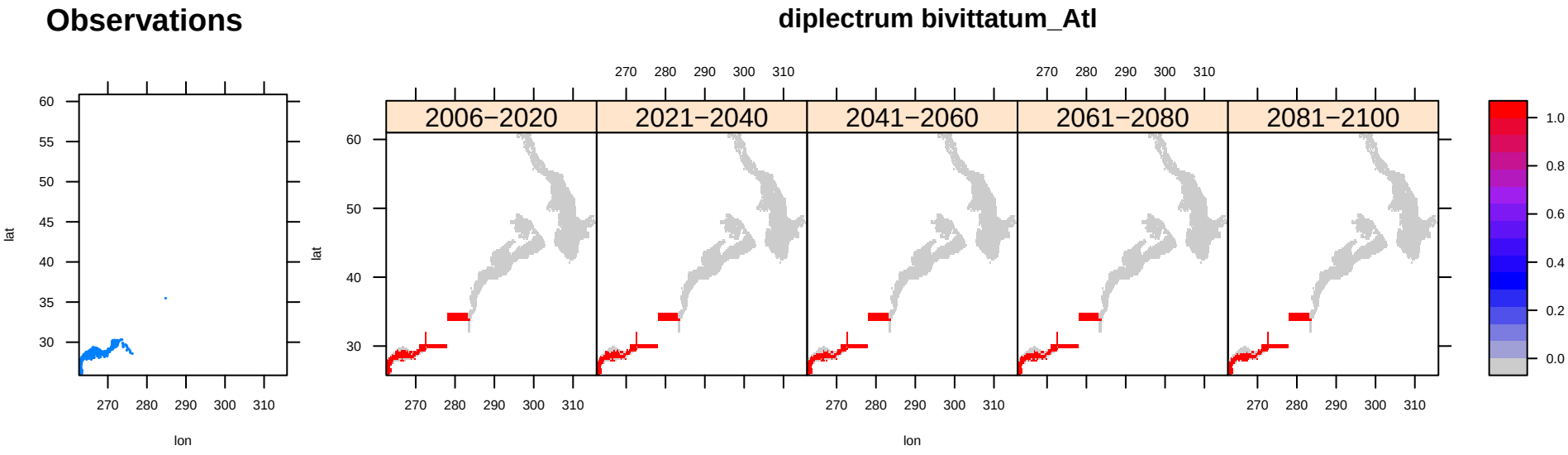
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diplectrum bivittatum_Atl
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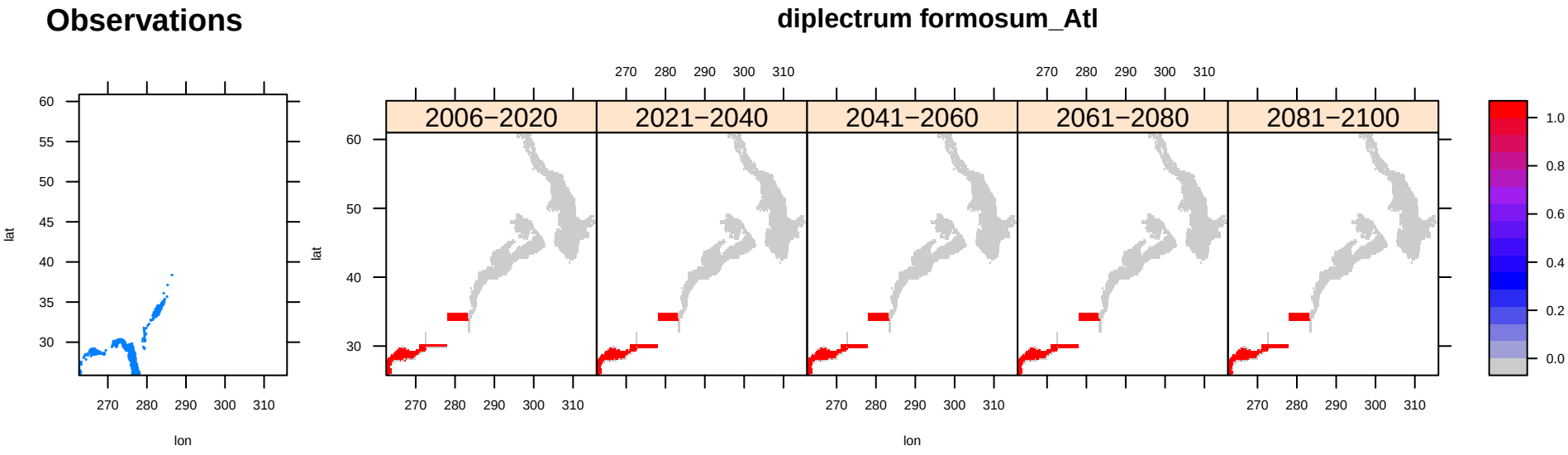
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diplectrum formosum_Atl
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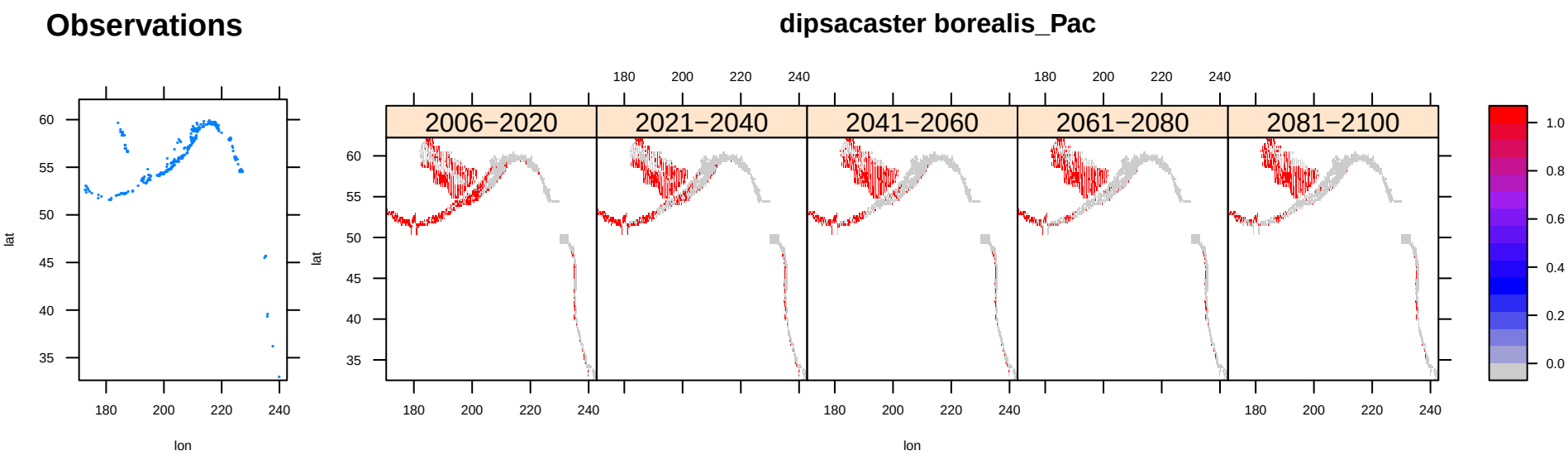
Observations
dipsacaster borealis_Pac
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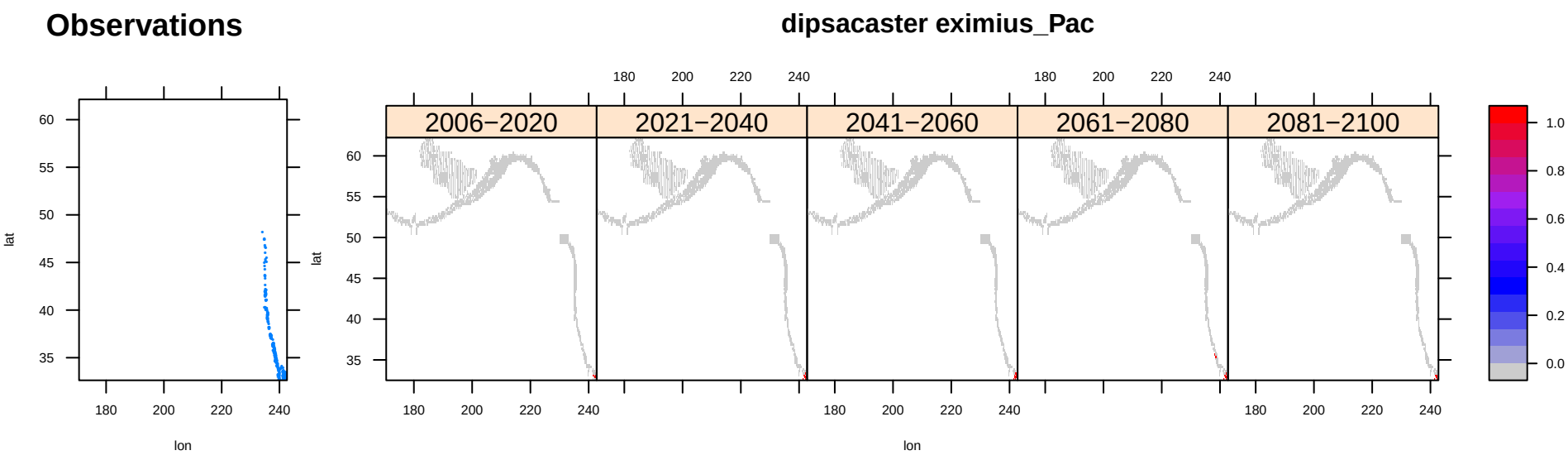
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dipsacaster eximius_Pac
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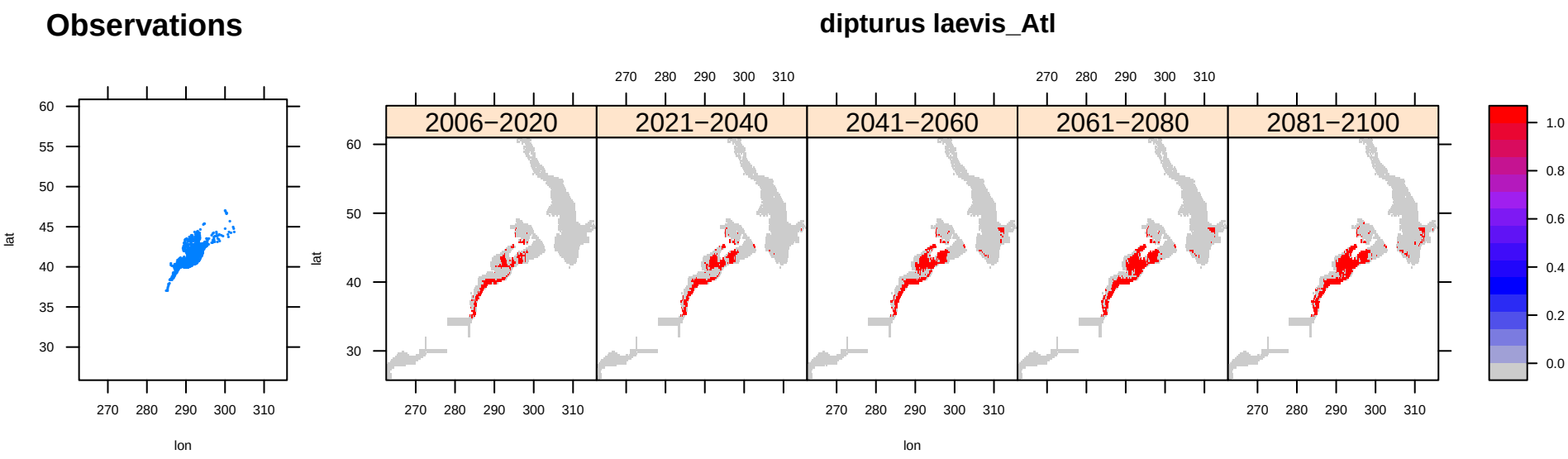
Observations
dipturus laevis_Atl
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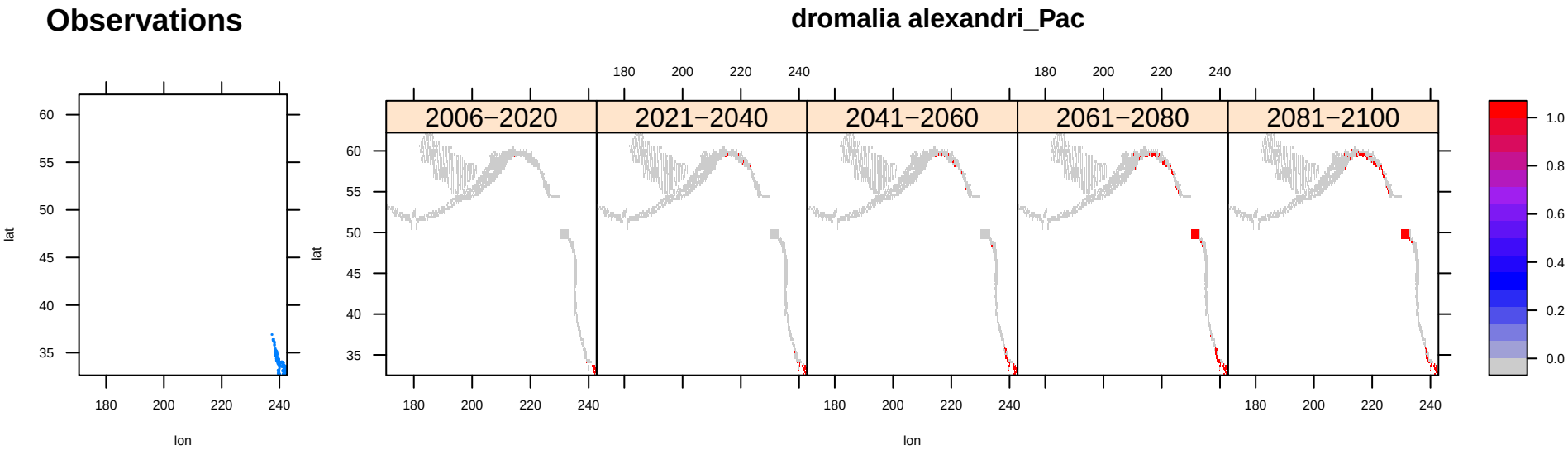
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dromalia alexandri_Pac
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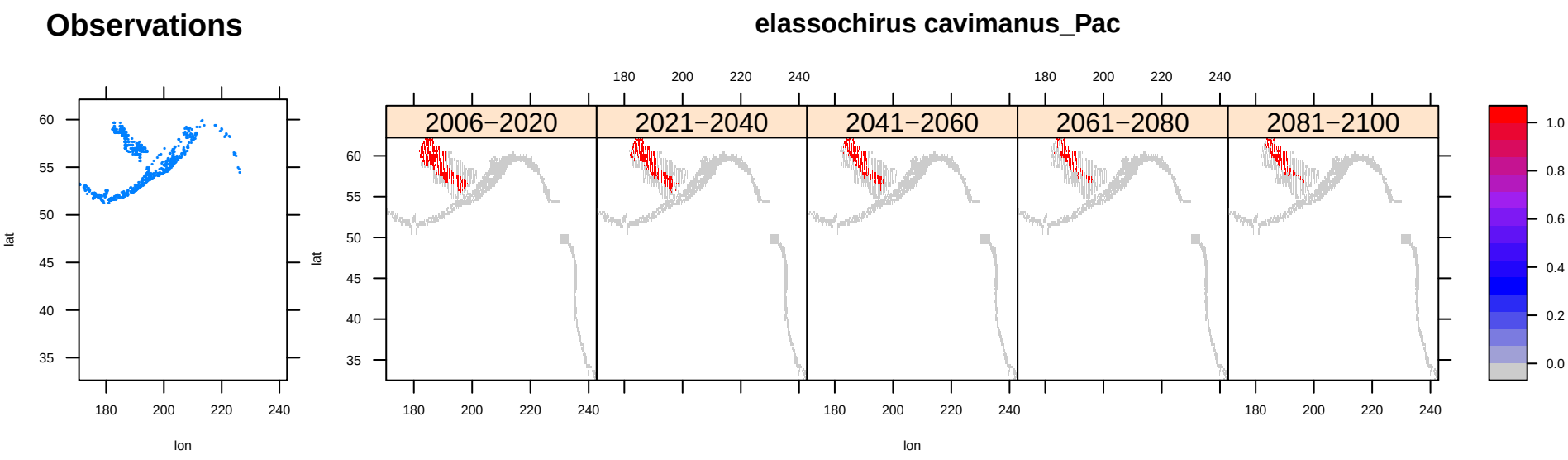
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elassochirus cavimanus_Pac
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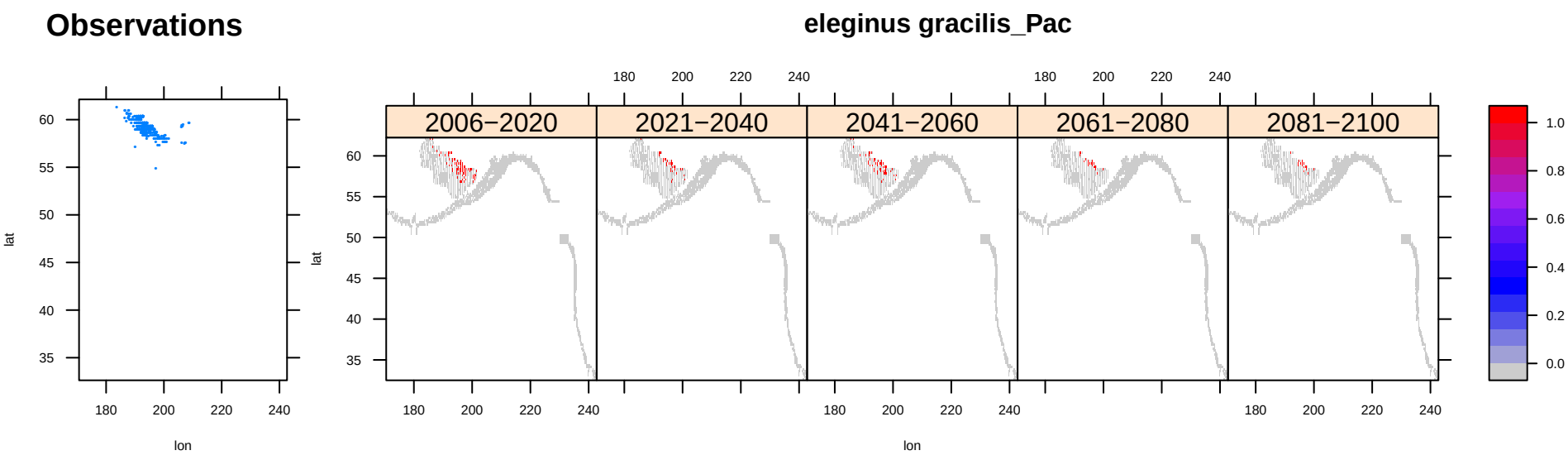
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eleginus gracilis_Pac
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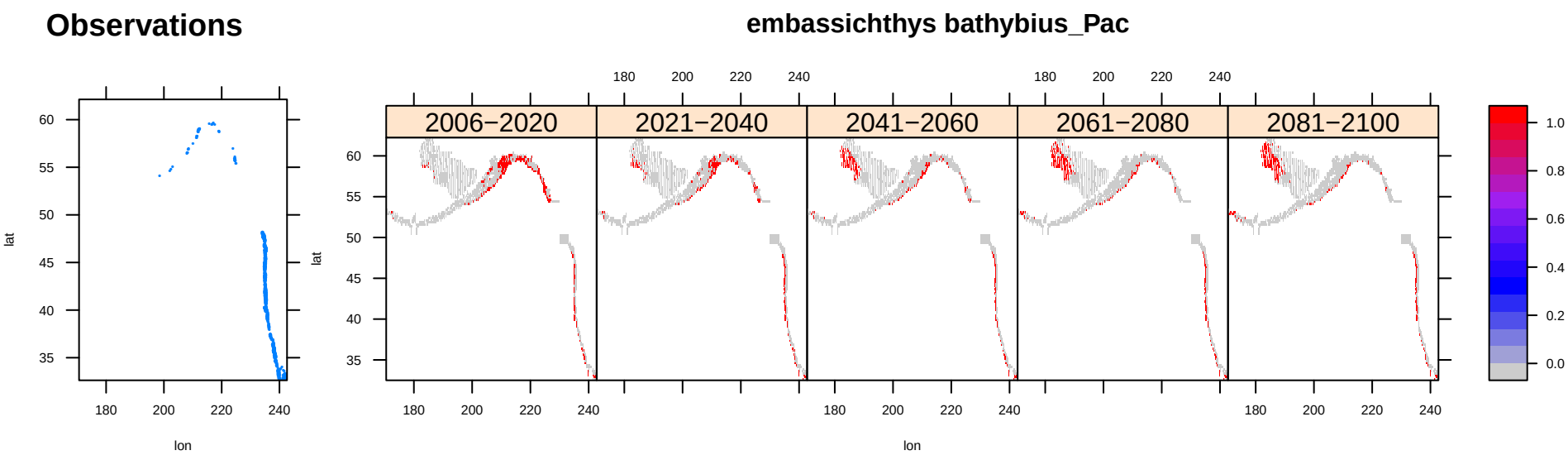
Observations
embassichthys bathybius_Pac
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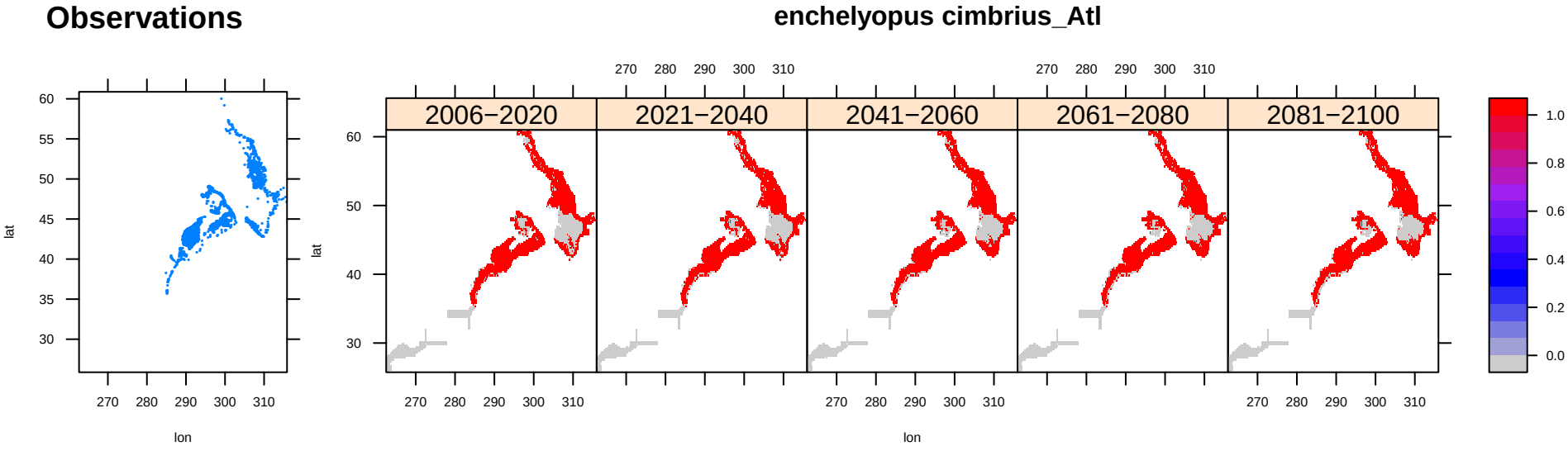
Observations
enchelyopus cimbrius_Atl
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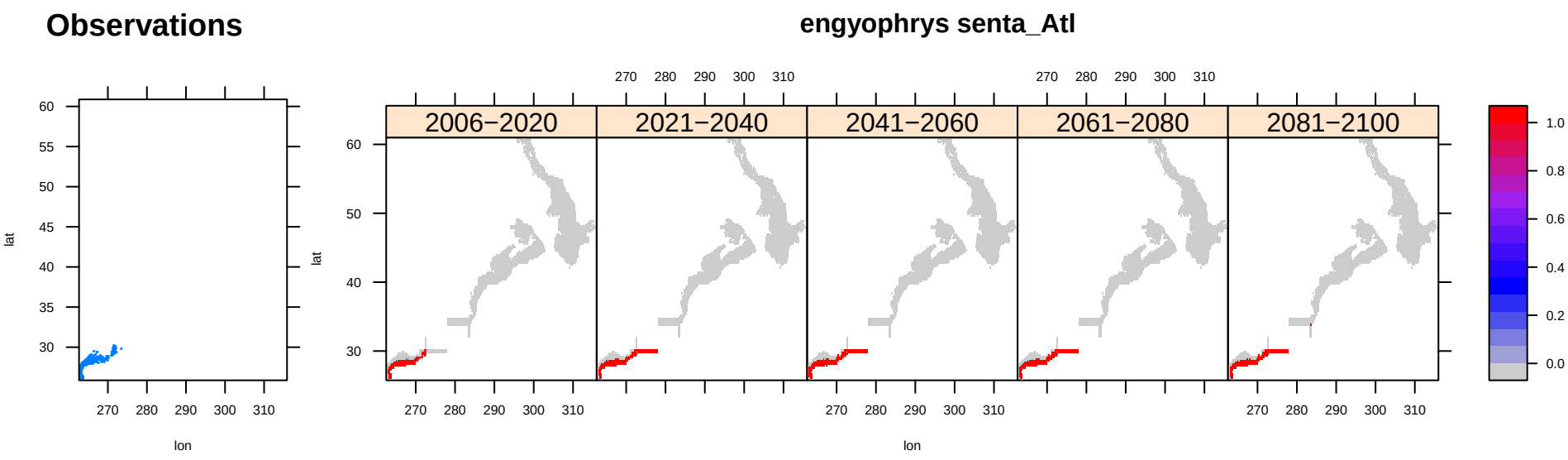
Observations
engyophrys senta_Atl
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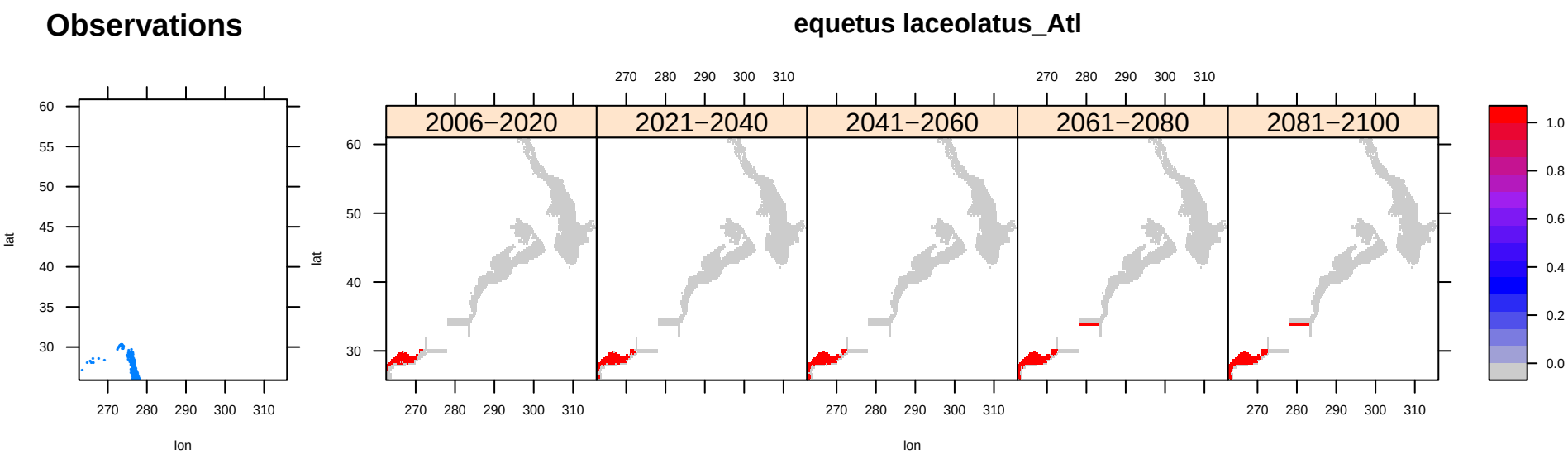
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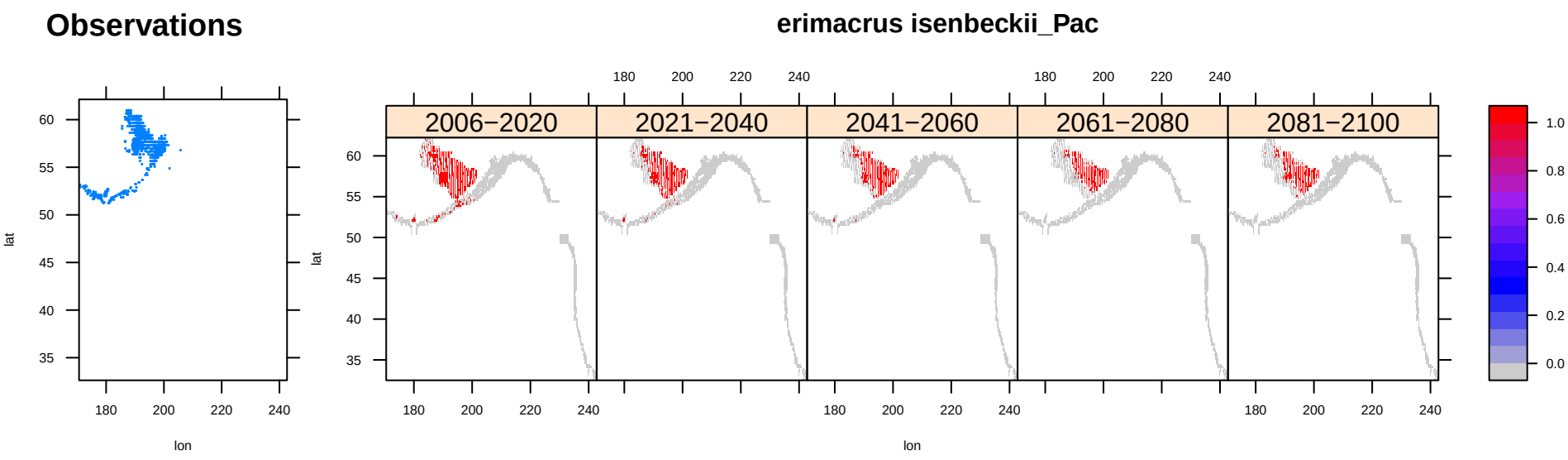
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erimacrus isenbeckii_Pac
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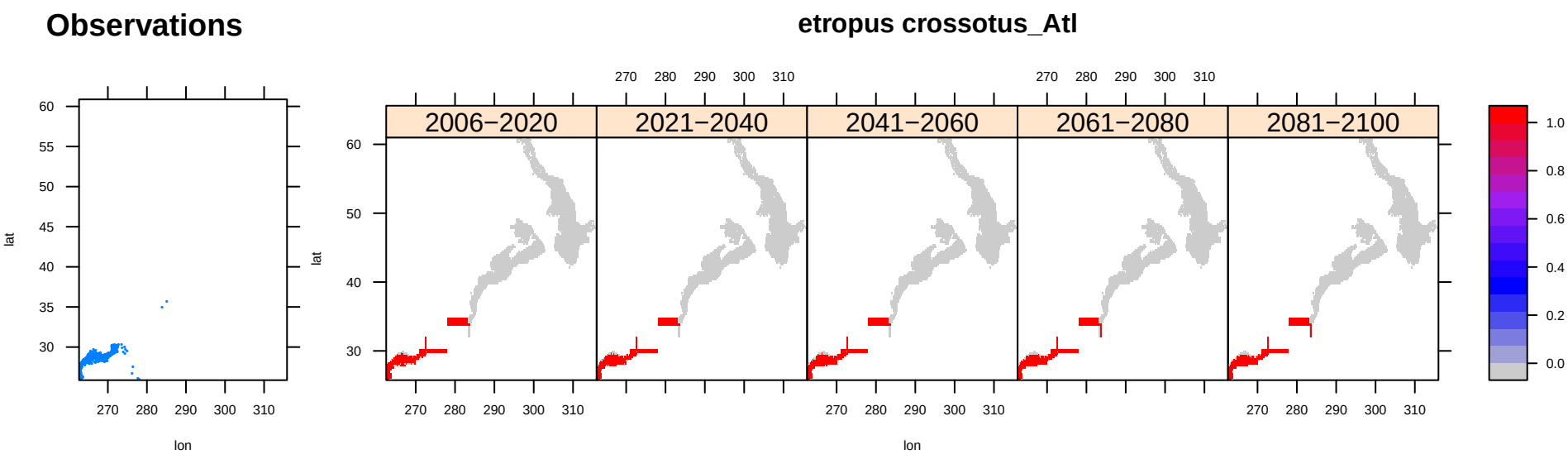
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etropus crossotus_Atl
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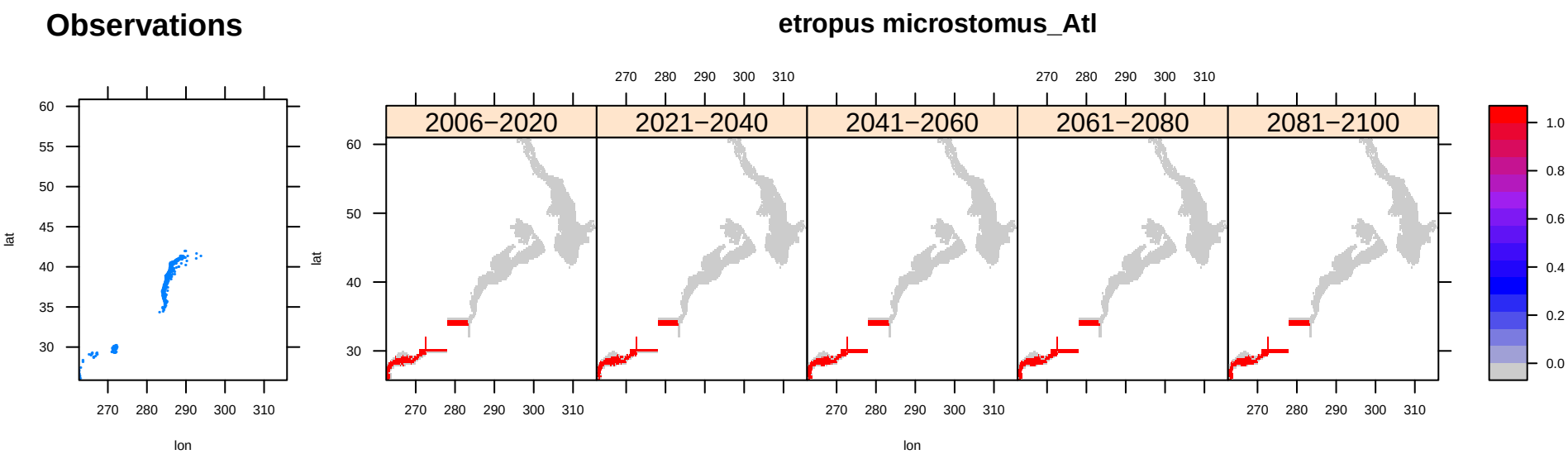
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etropus microstomus_Atl
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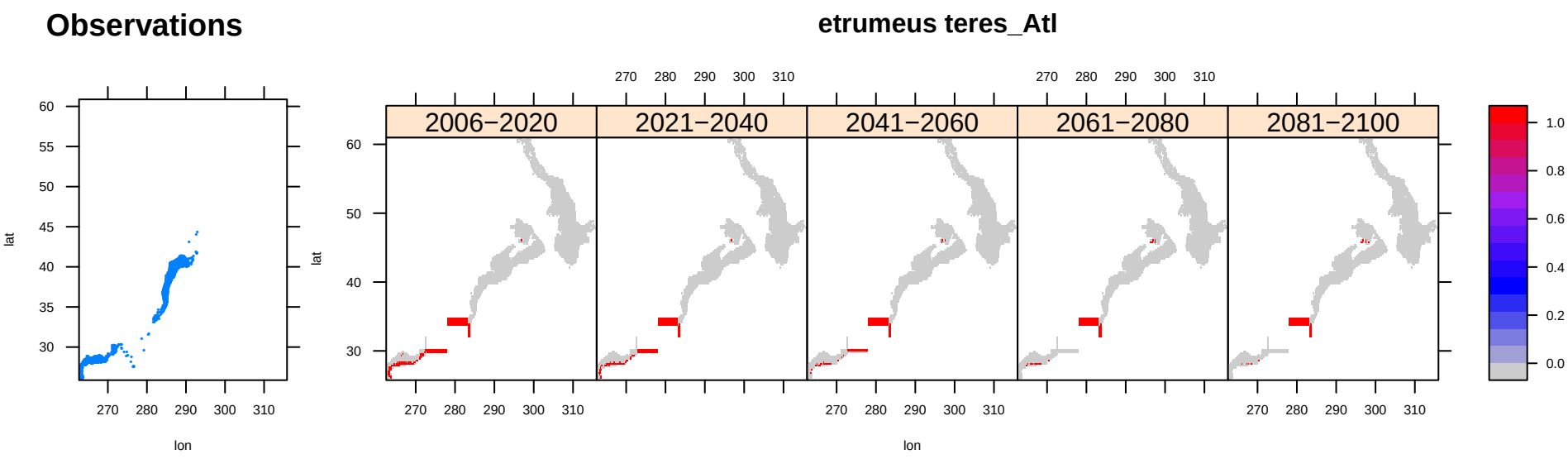
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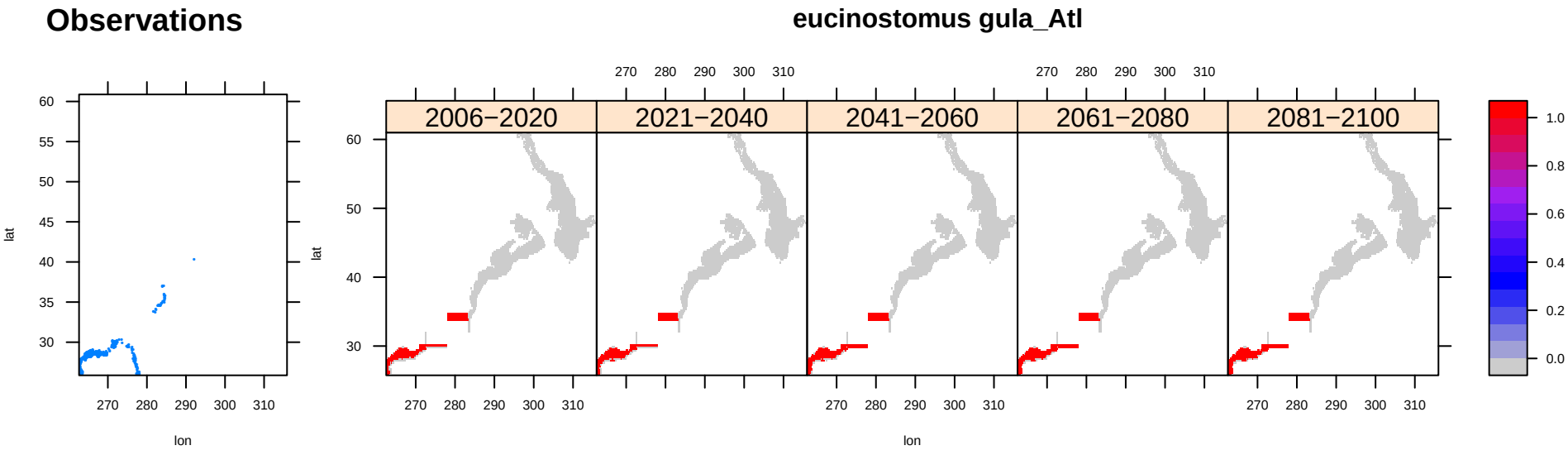
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eucinostomus gula_Atl
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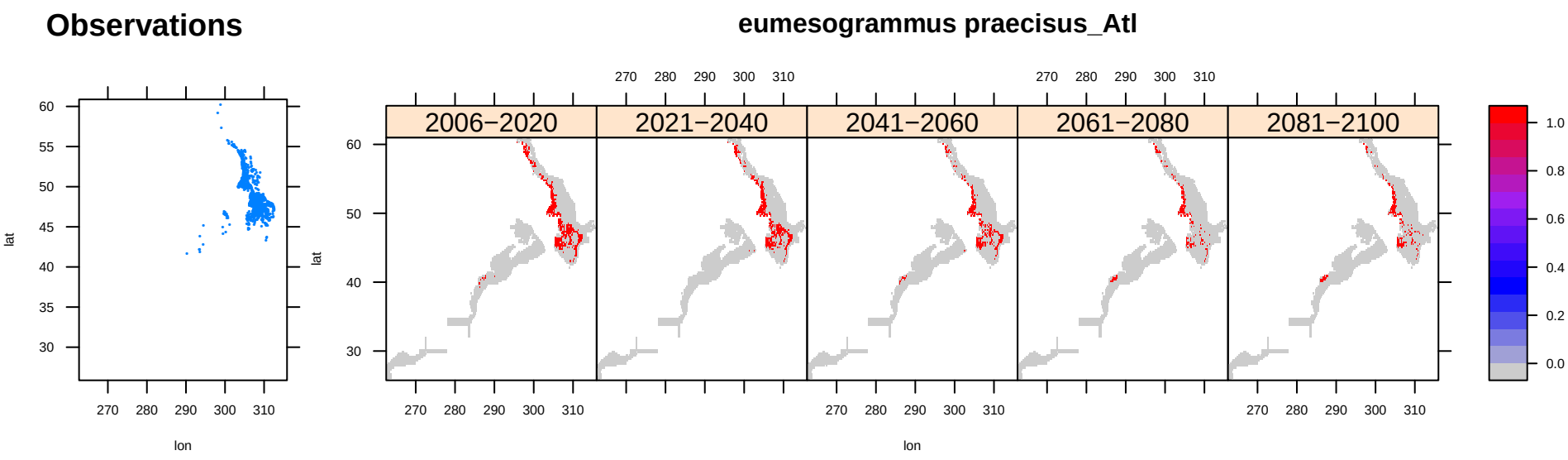
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eumesogrammus praecisus_Atl
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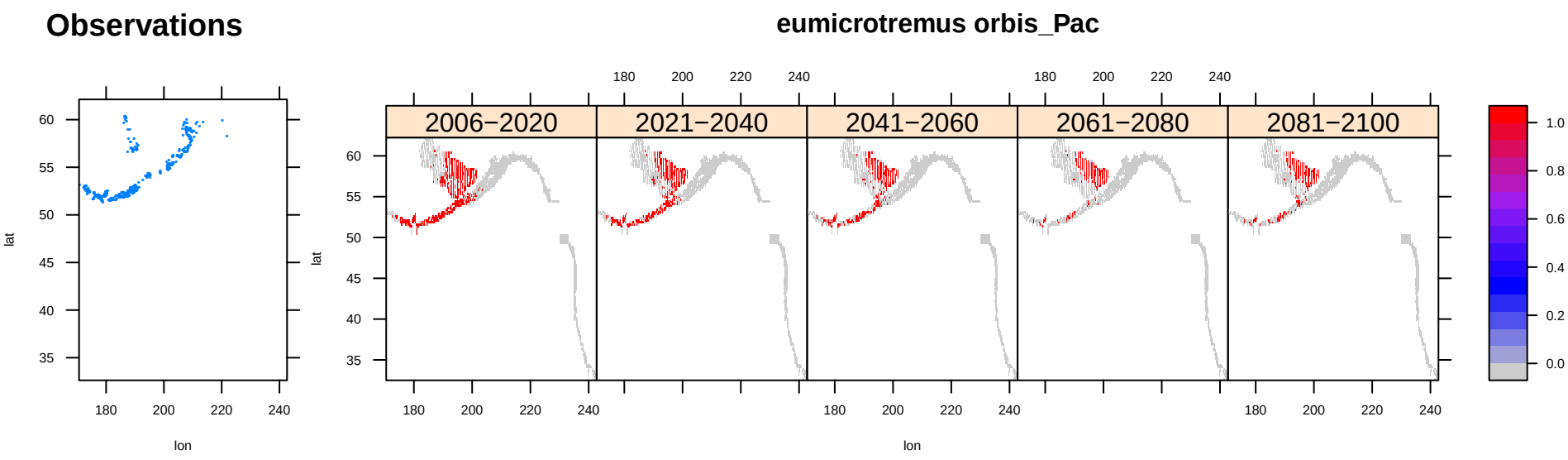
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eumicrotremus orbis_Pac
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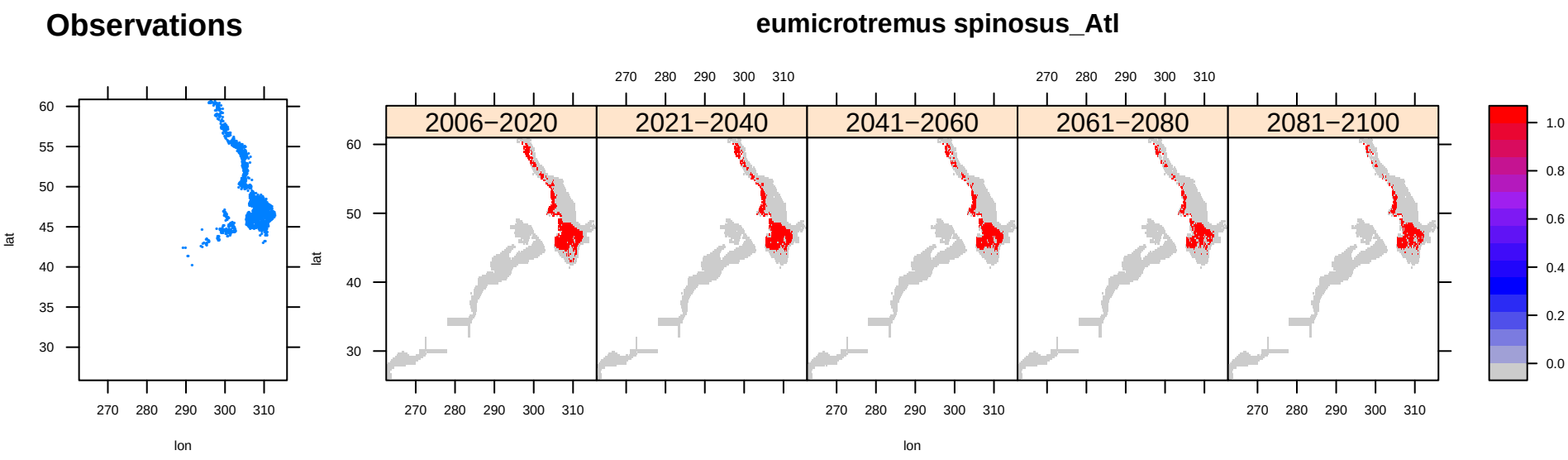
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eumicrotremus spinosus_Atl
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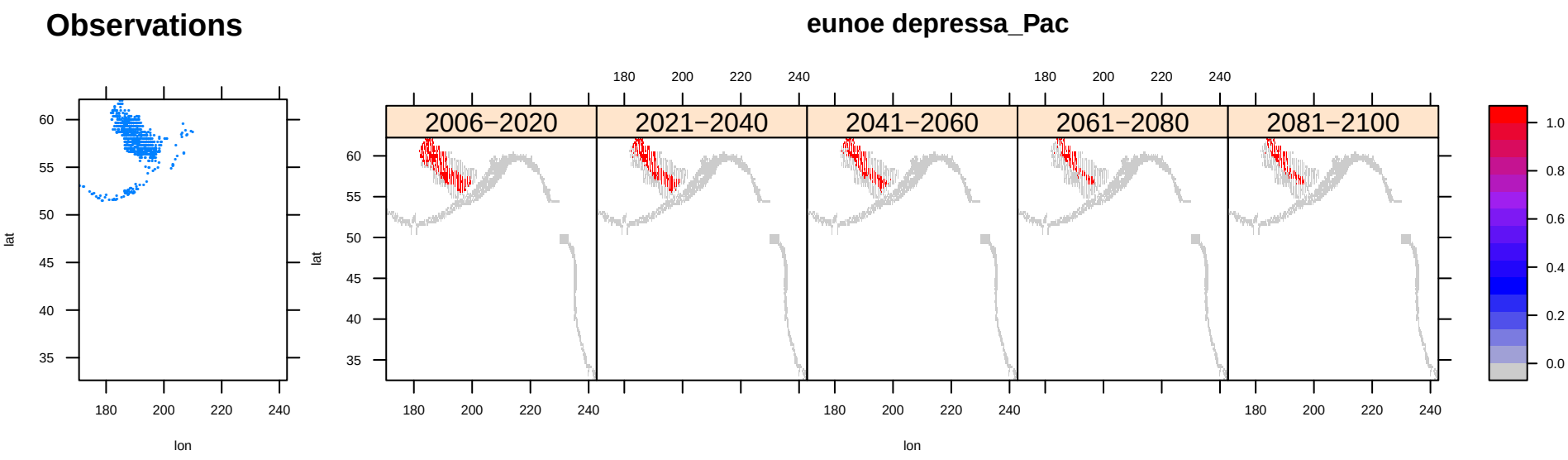
Observations
eunoe depressa_Pac
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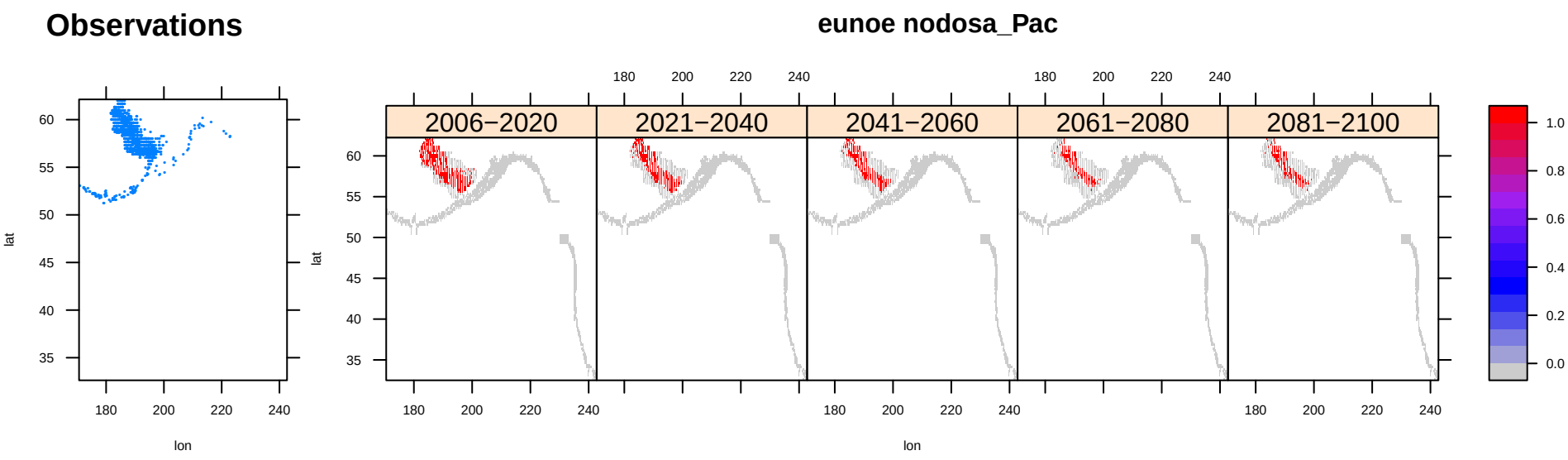
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eunoe nodosa_Pac
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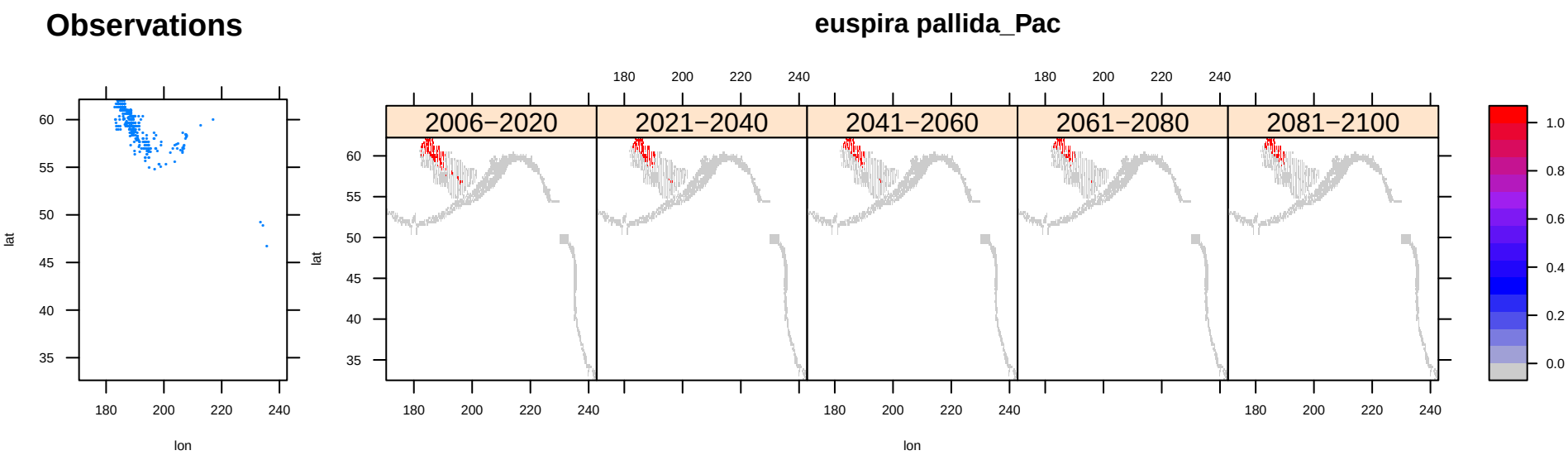
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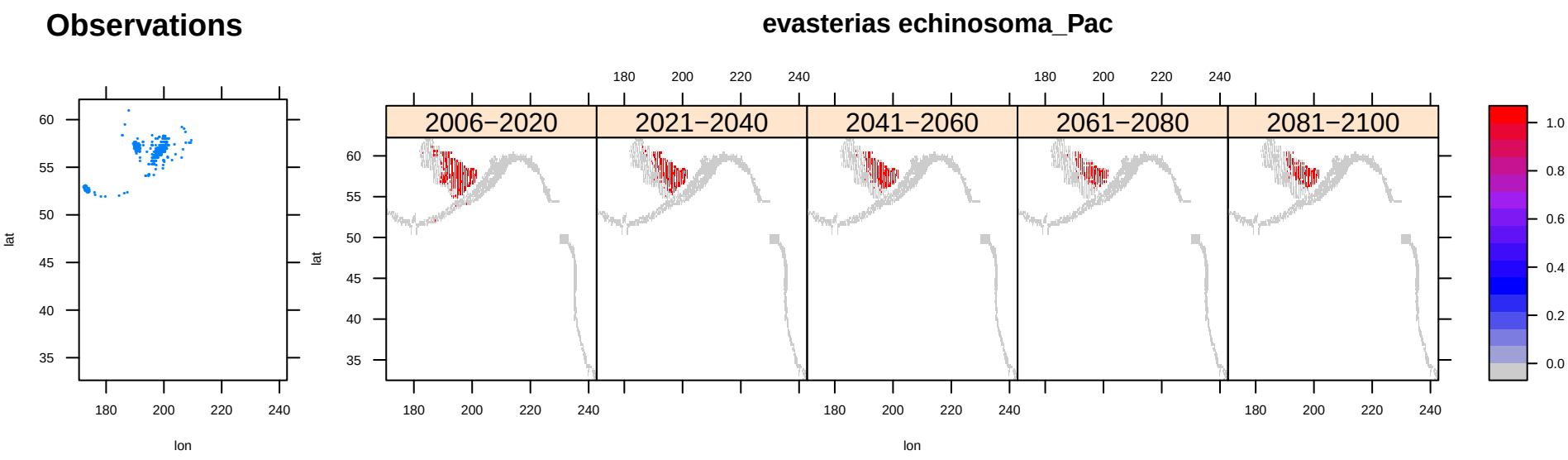
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evasterias echinosoma_Pac
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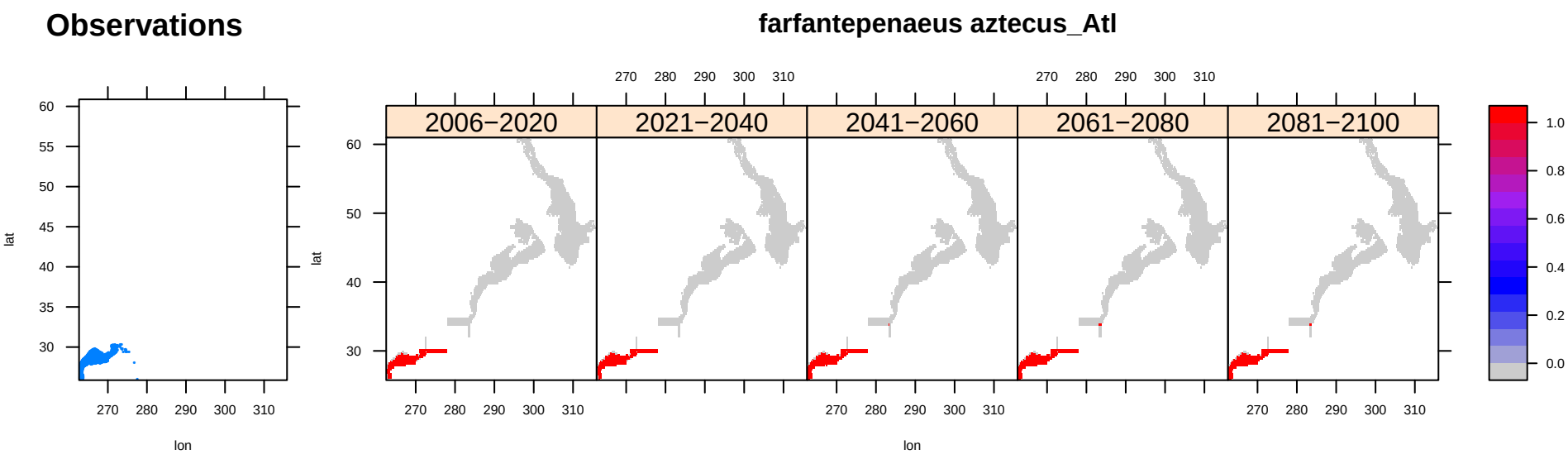
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farfantepenaeus aztecus_Atl
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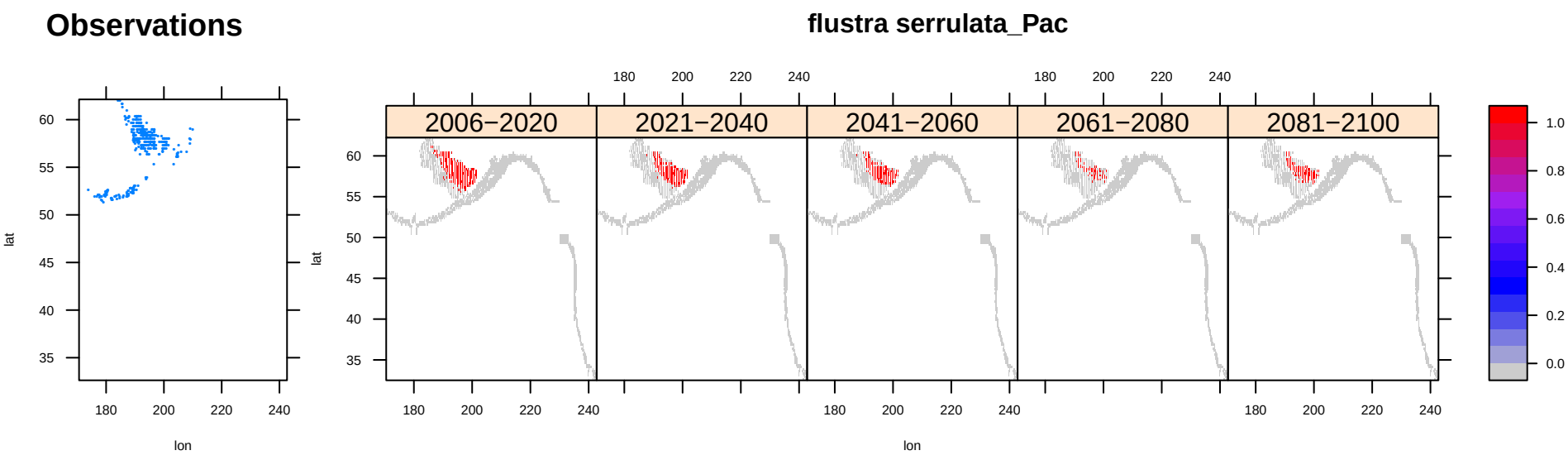
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flustra serrulata_Pac
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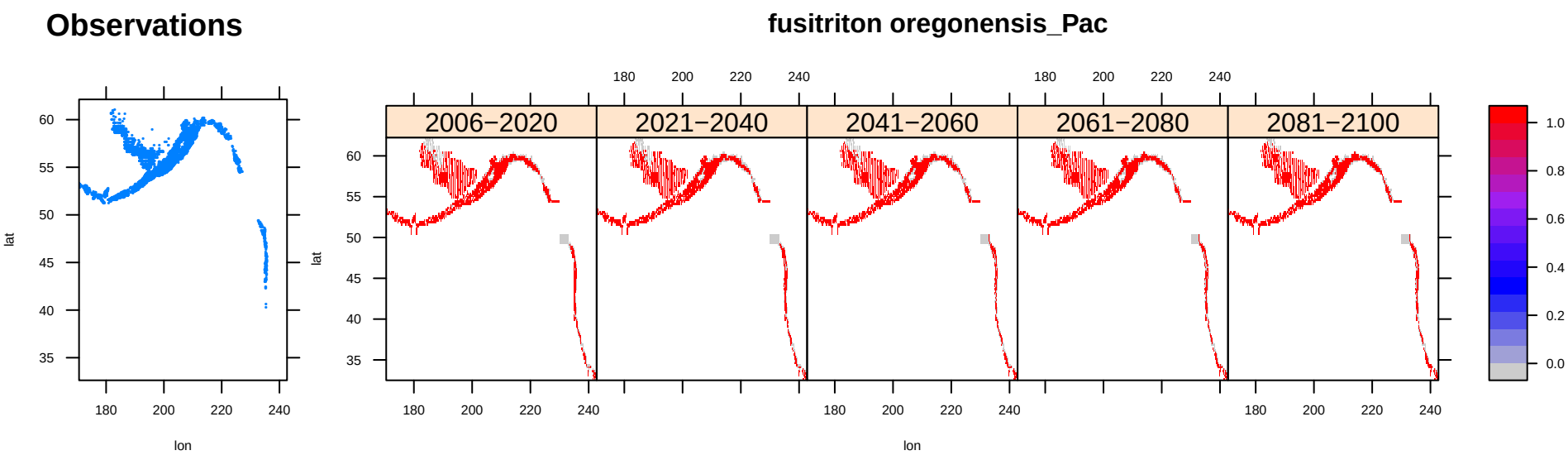
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fusitriton oregonensis_Pac
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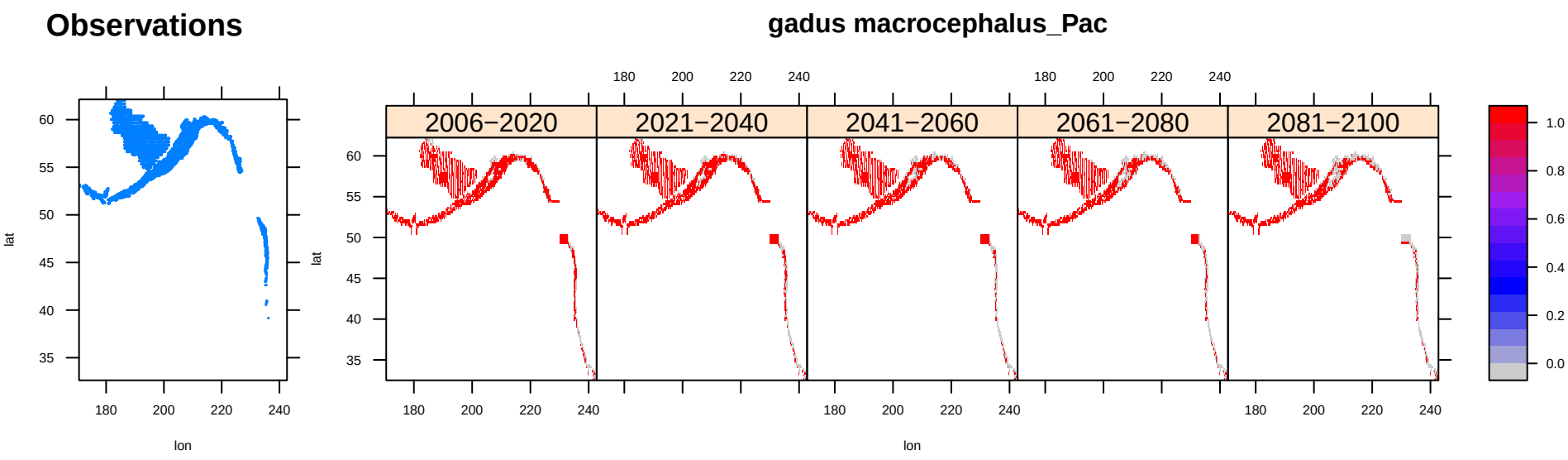
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gadus macrocephalus_Pac
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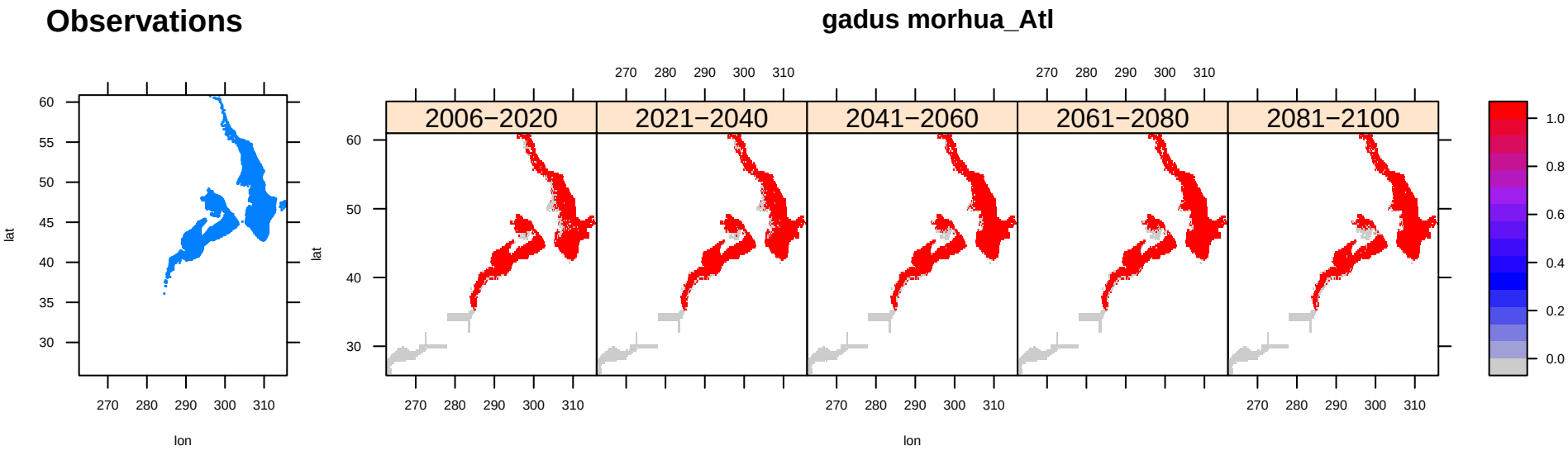
Observations
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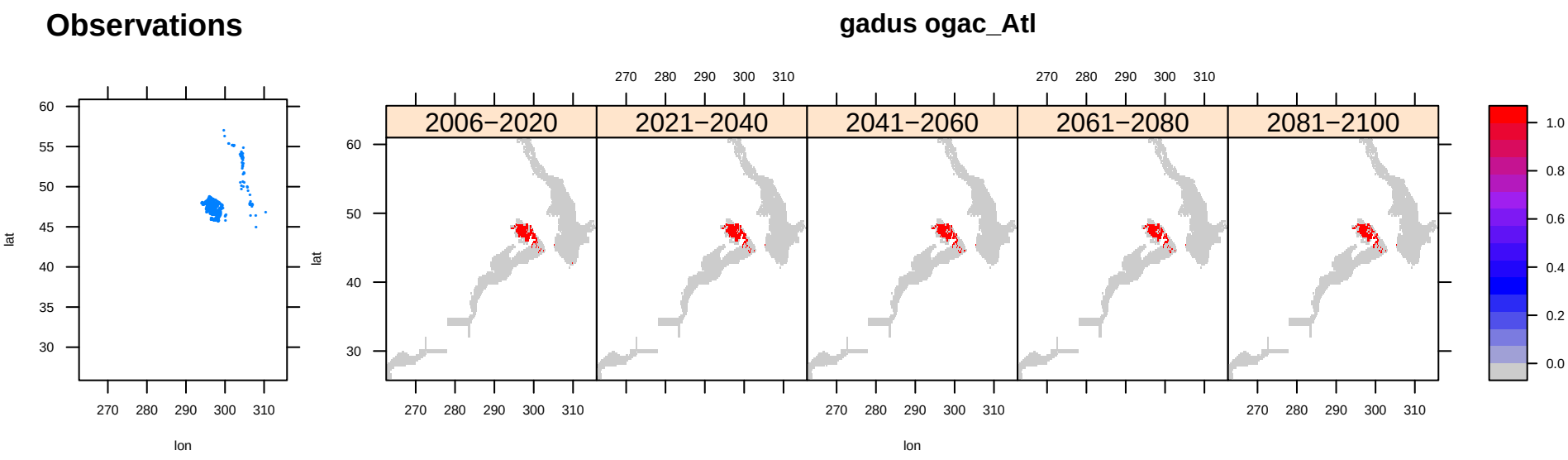
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gadus ogac_Atl
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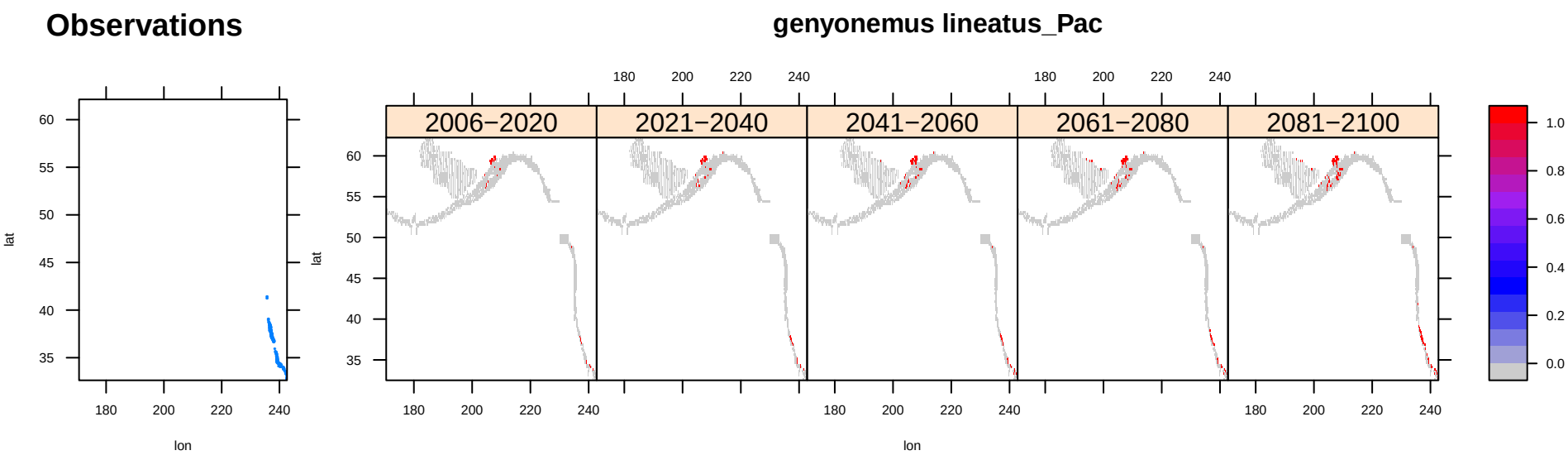
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genyonemus lineatus_Pac
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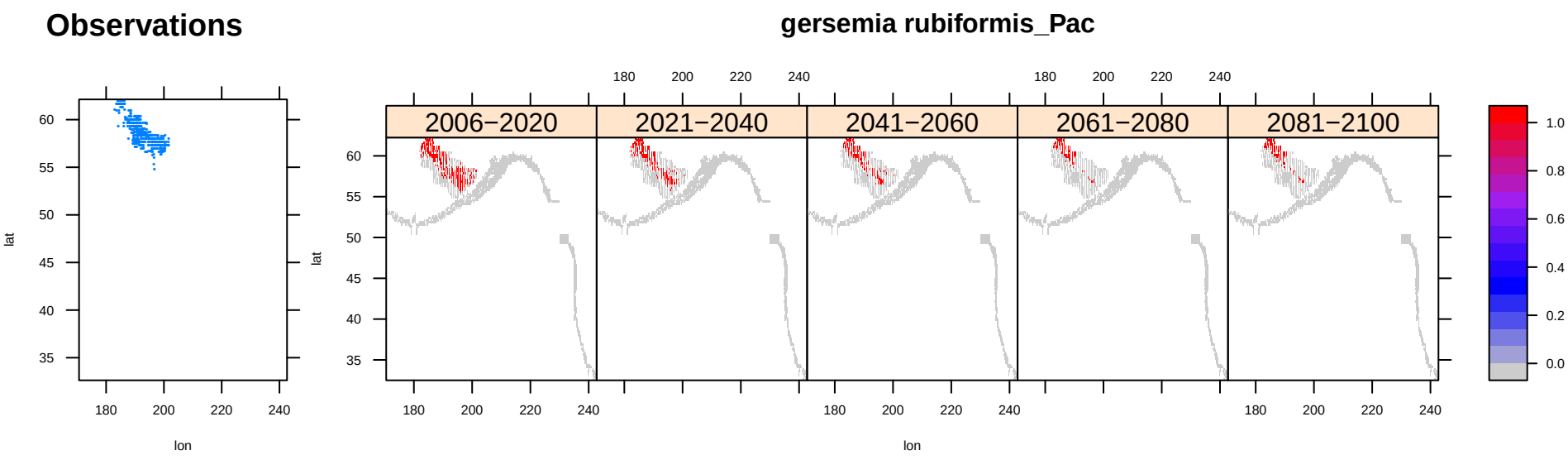
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gersemia rubiformis_Pac
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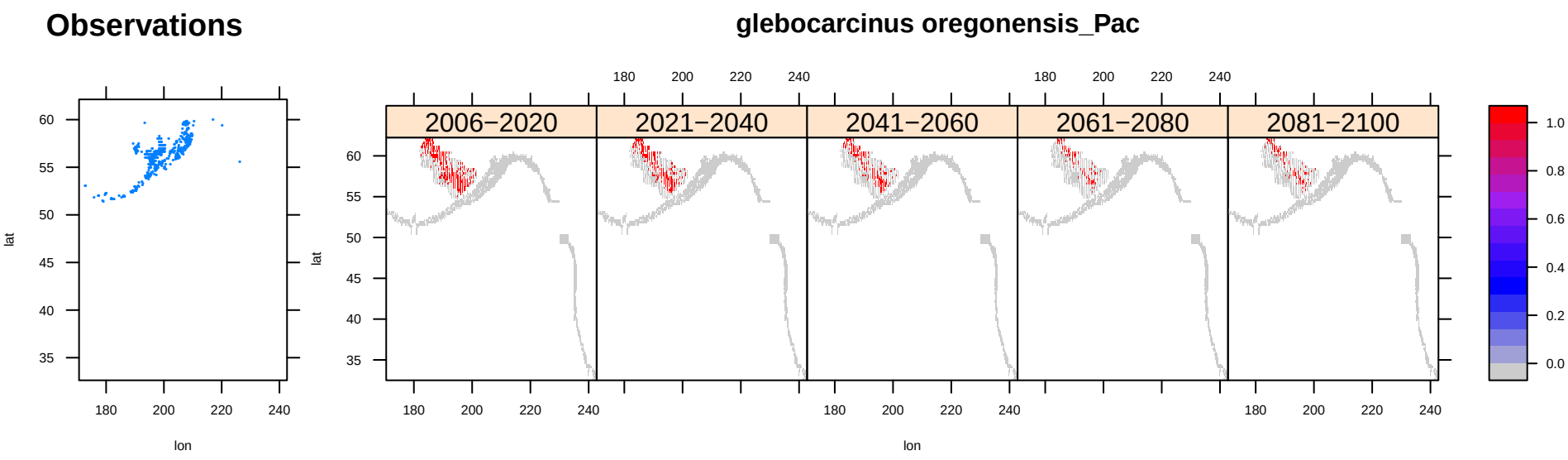
Observations
glebocarcinus oregonensis_Pac
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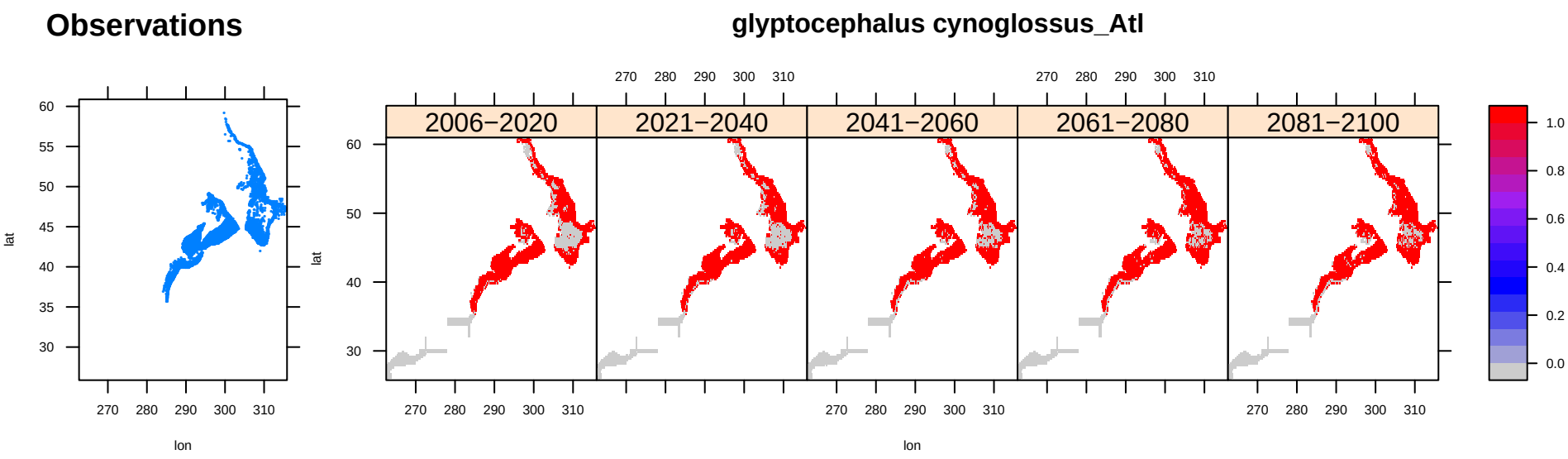
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glyptocephalus cynoglossus_Atl
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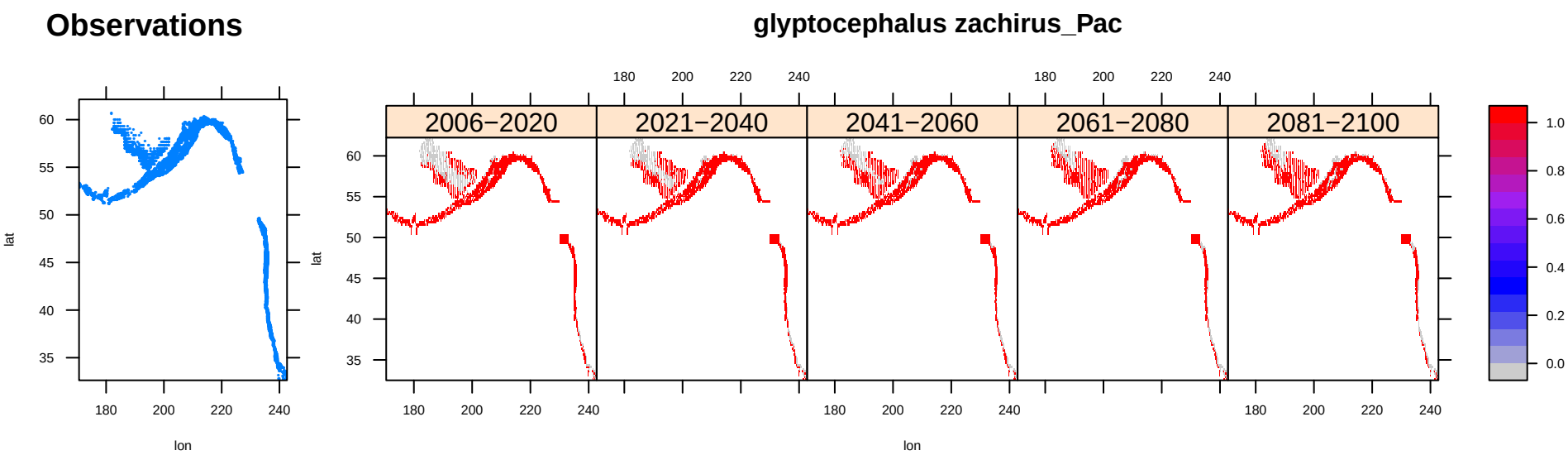
Observations
glyptocephalus zachirus_Pac
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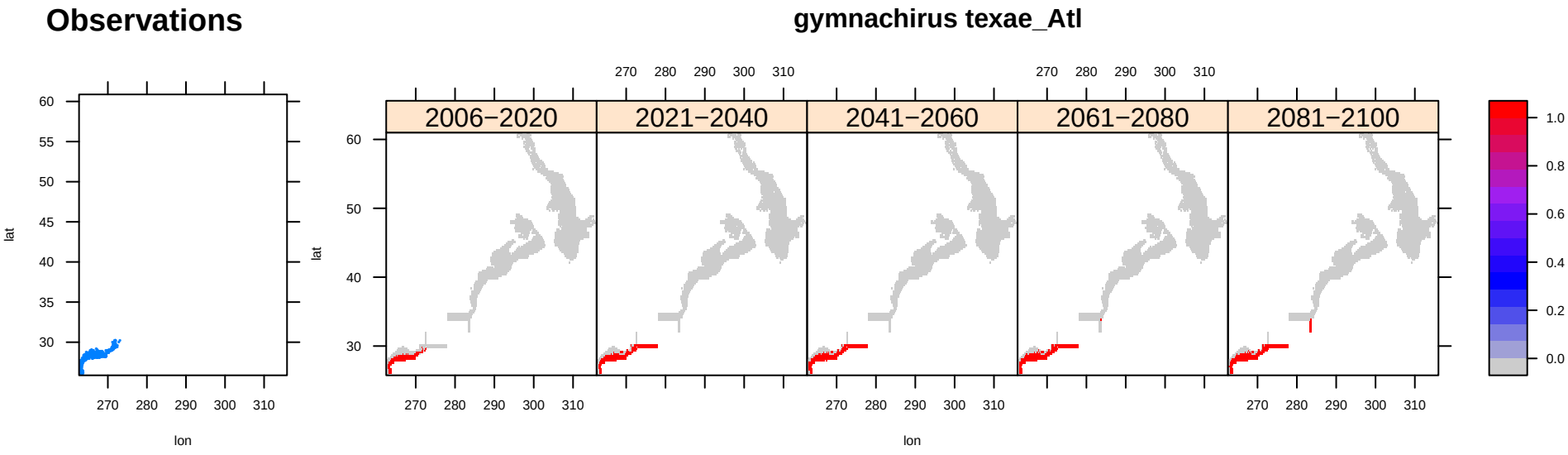
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gymnachirus texae_Atl
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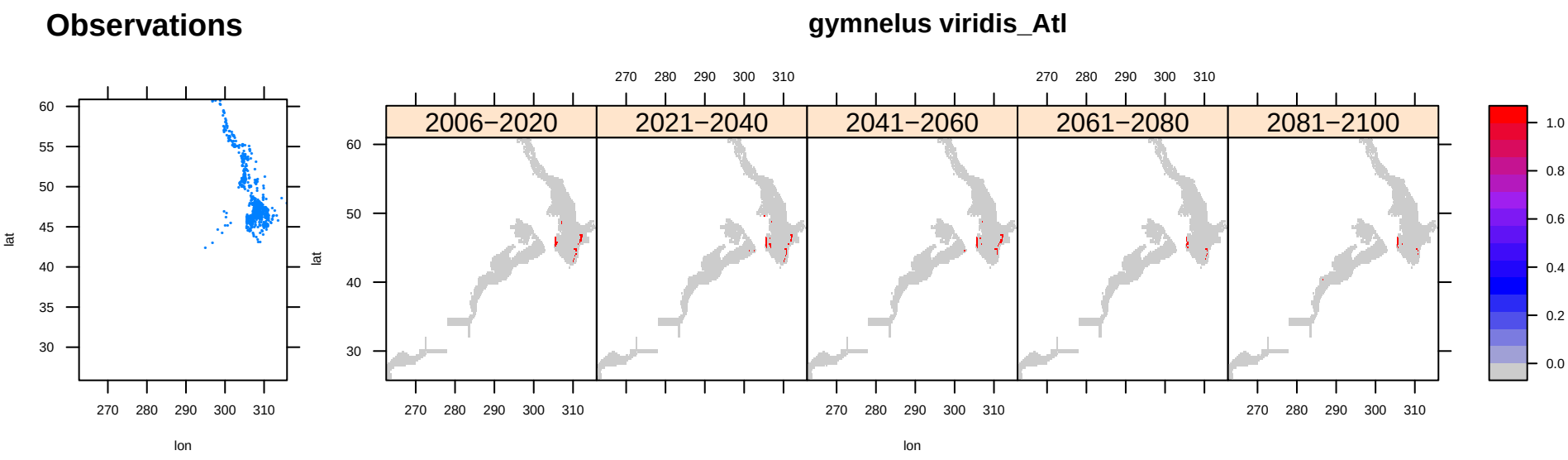
Observations
gymnelus viridis_Atl
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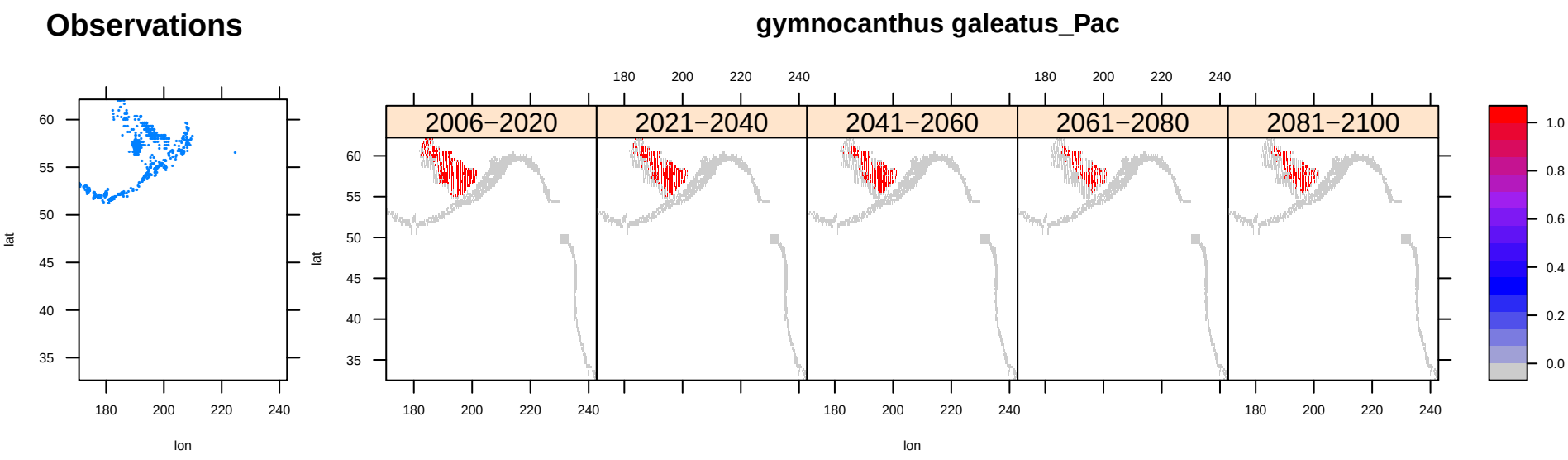
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gymnocanthus galeatus_Pac
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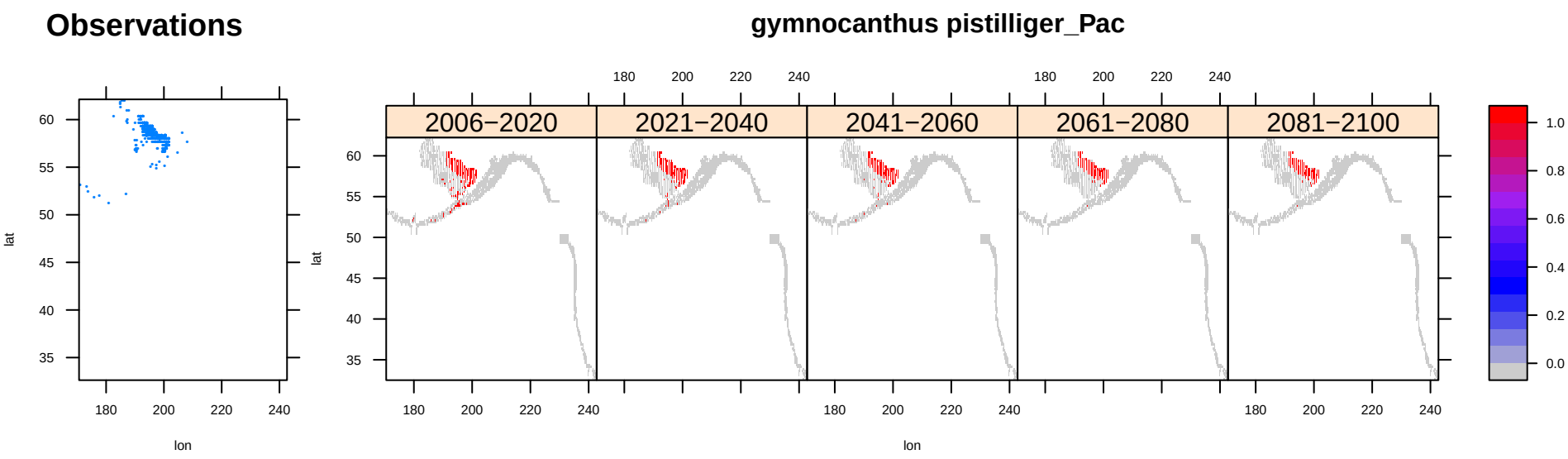
Observations
gymnocanthus pistilliger_Pac
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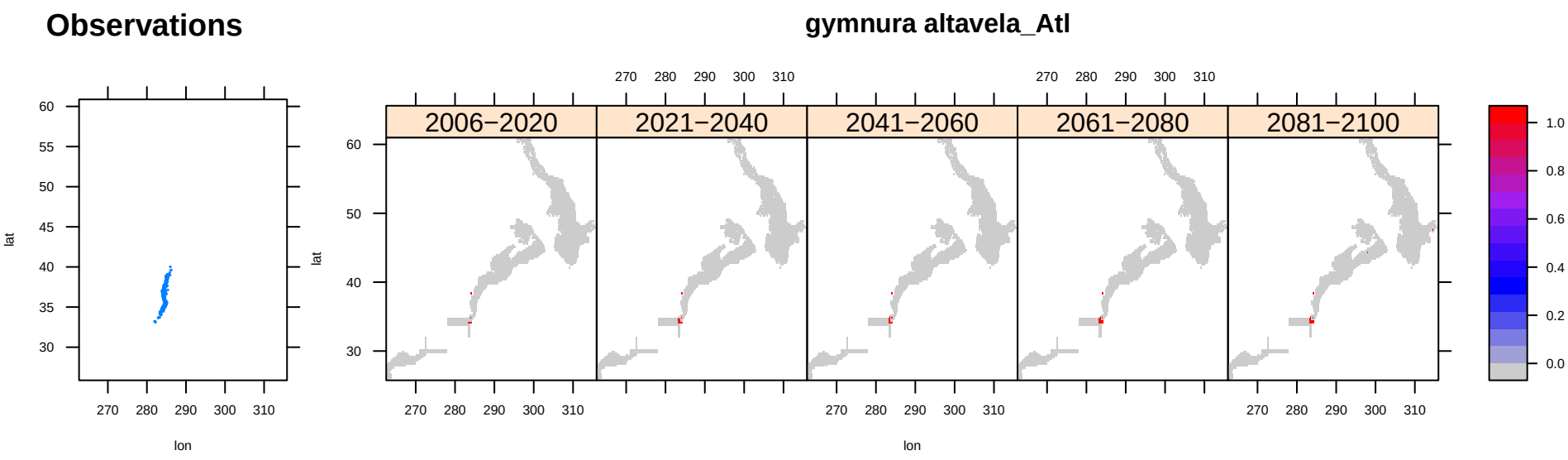
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gymnura altavela_Atl
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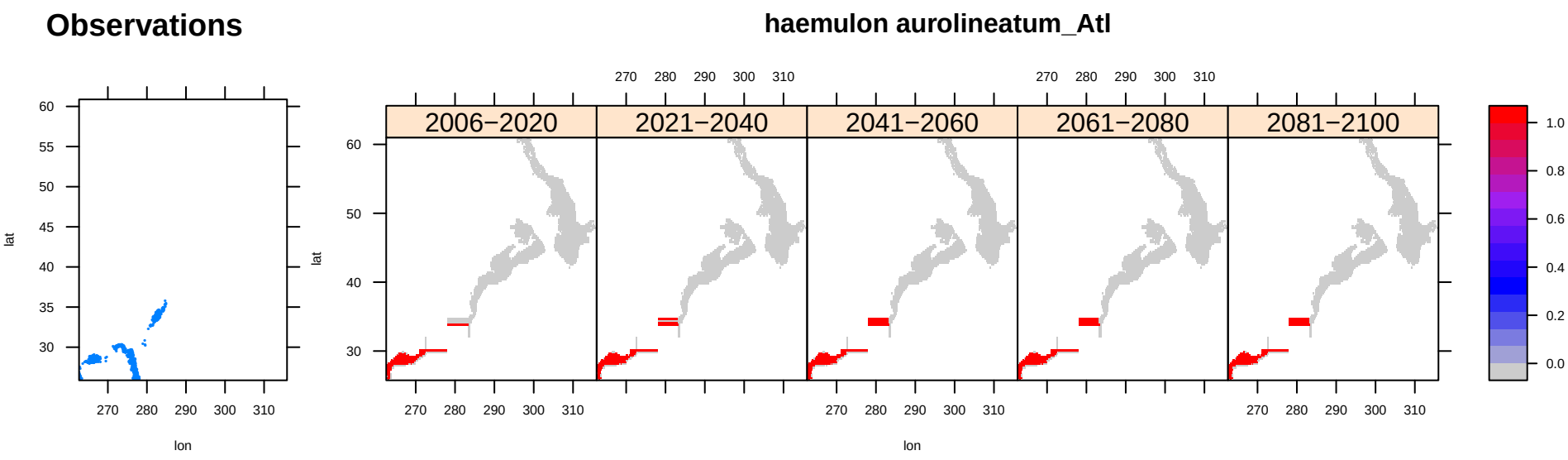
Observations
haemulon aurolineatum_Atl
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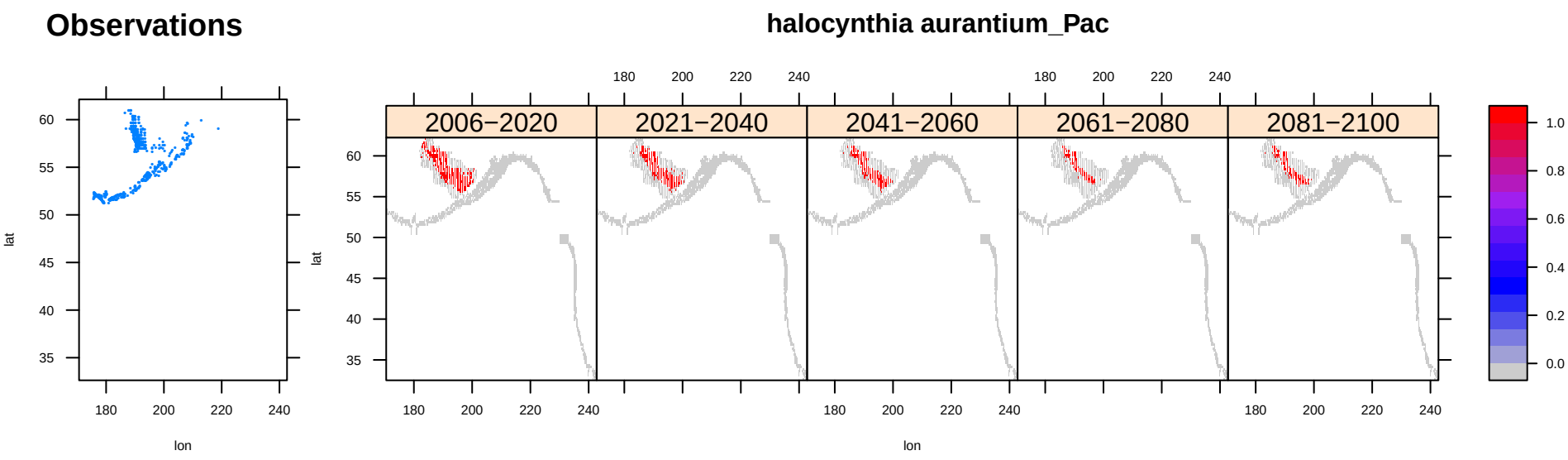
Observations
halocynthia aurantium_Pac
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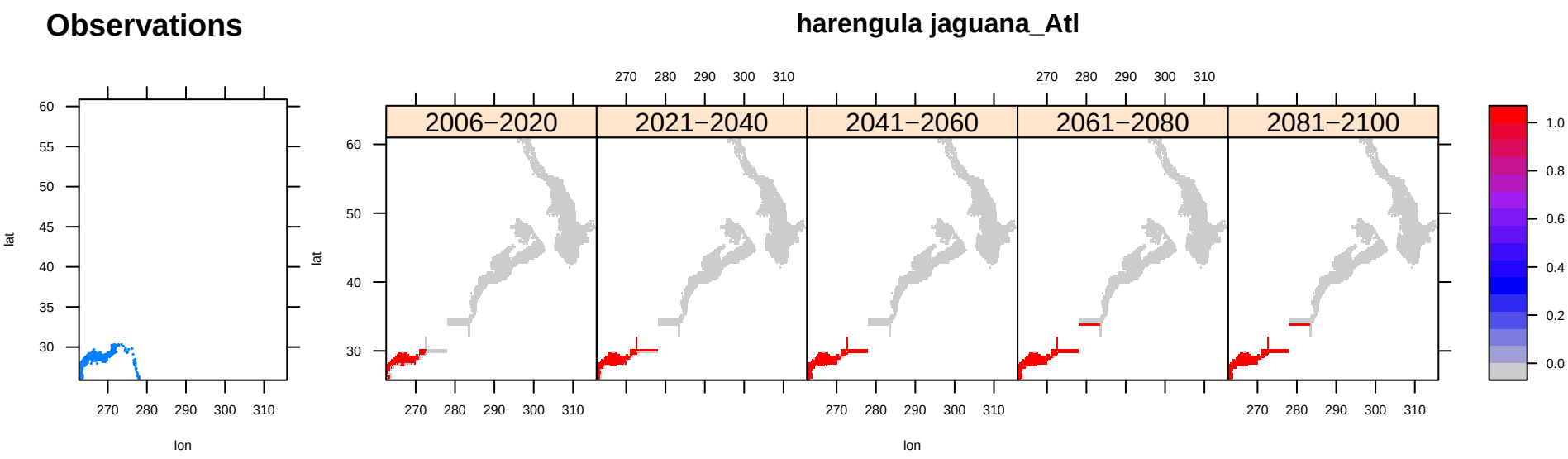
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harengula jaguana_Atl
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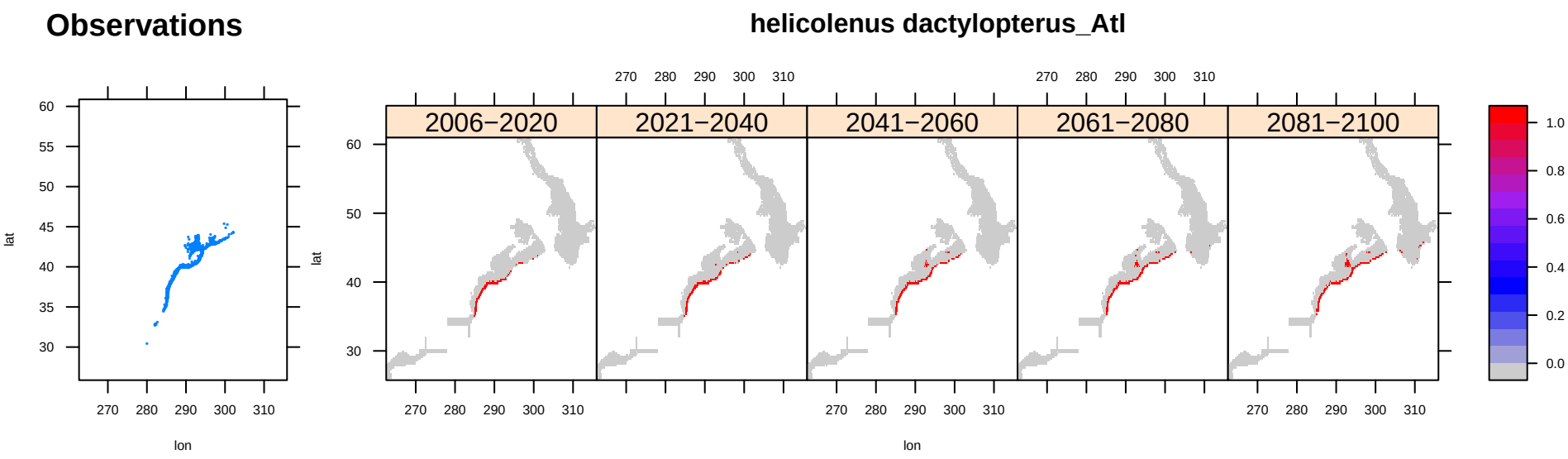
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helicolenus dactylopterus_Atl
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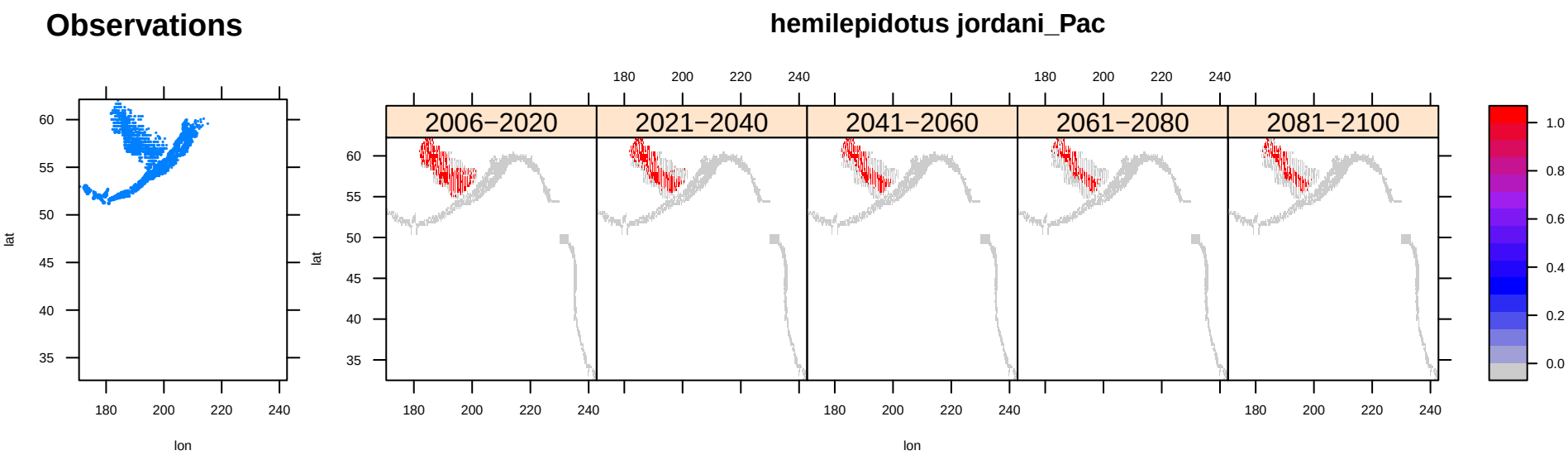
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hemilepidotus jordani_Pac
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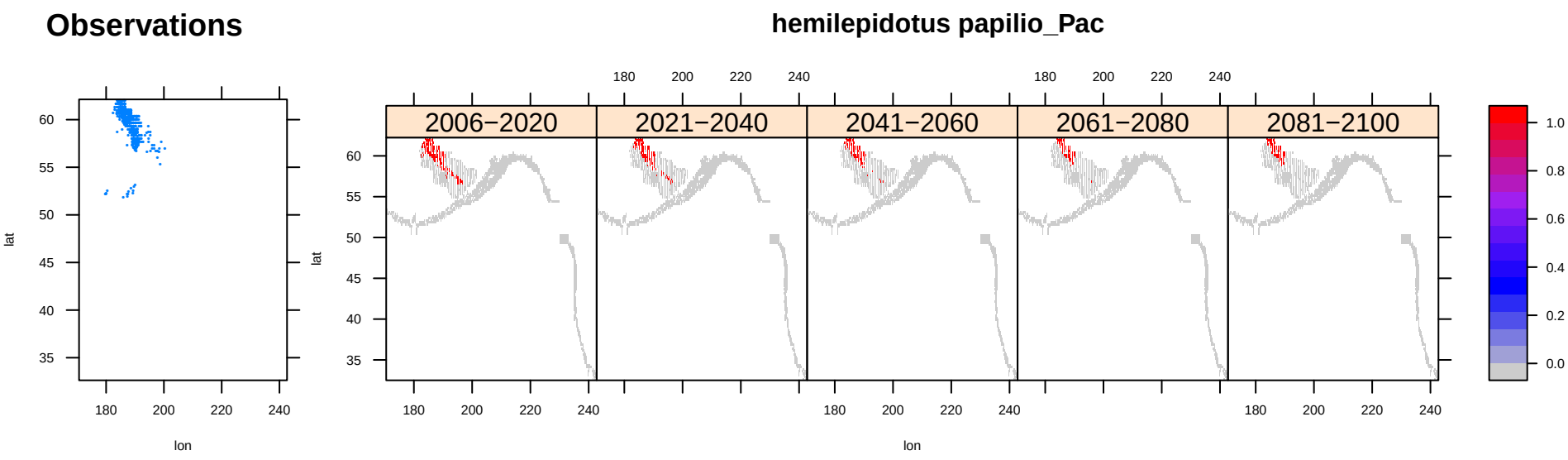
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hemilepidotus papilio_Pac
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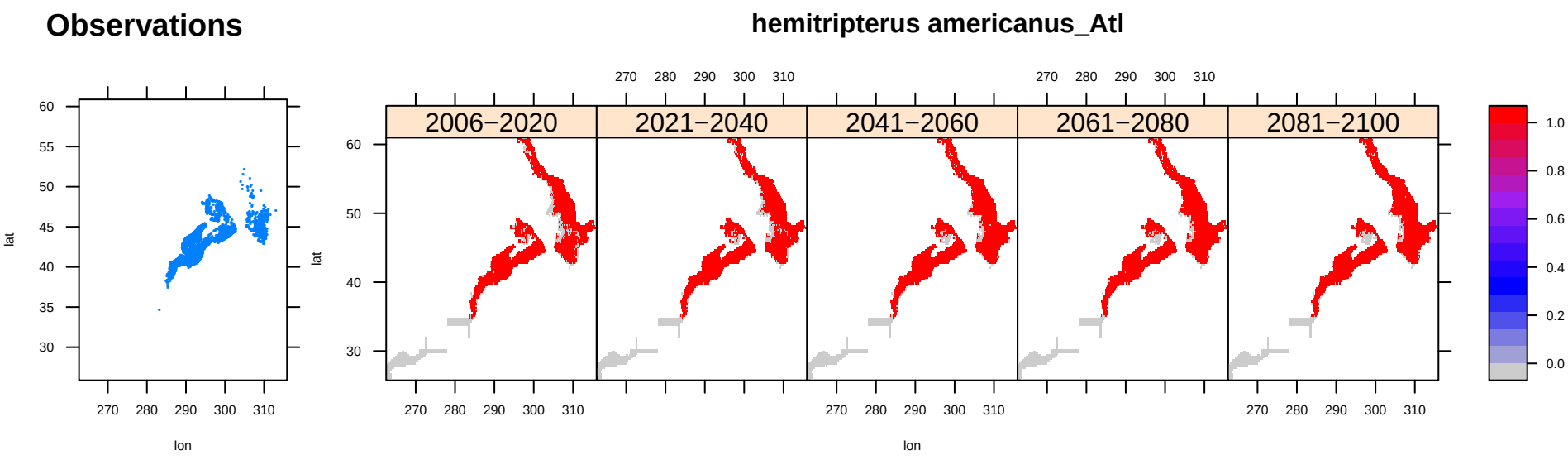
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hemitripterus americanus_Atl
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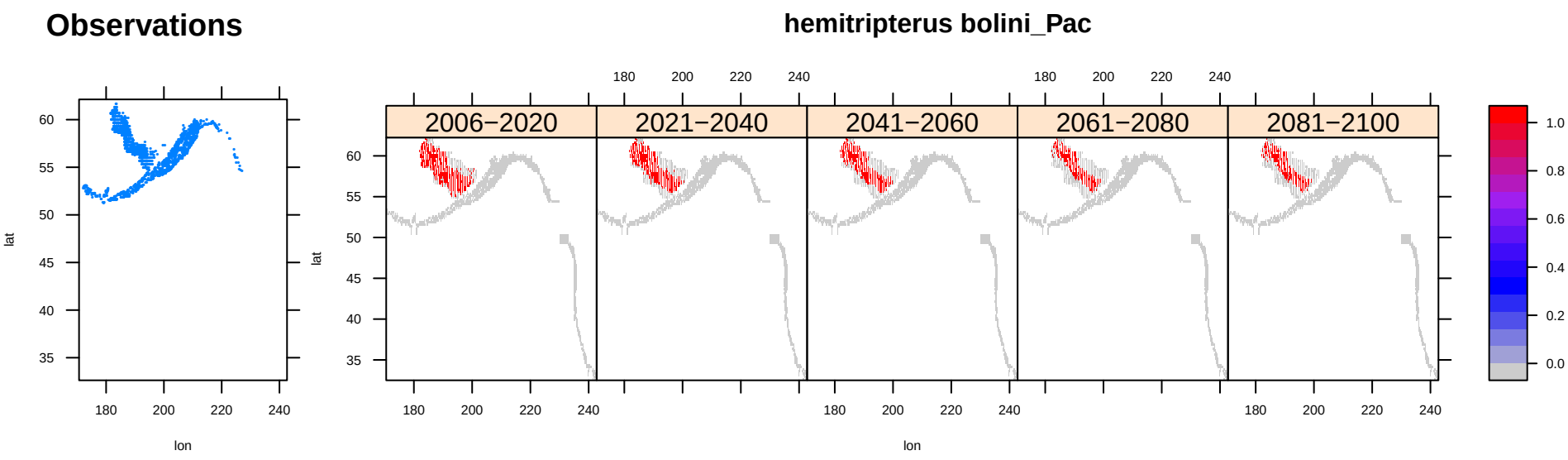
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hemitripterus bolini_Pac
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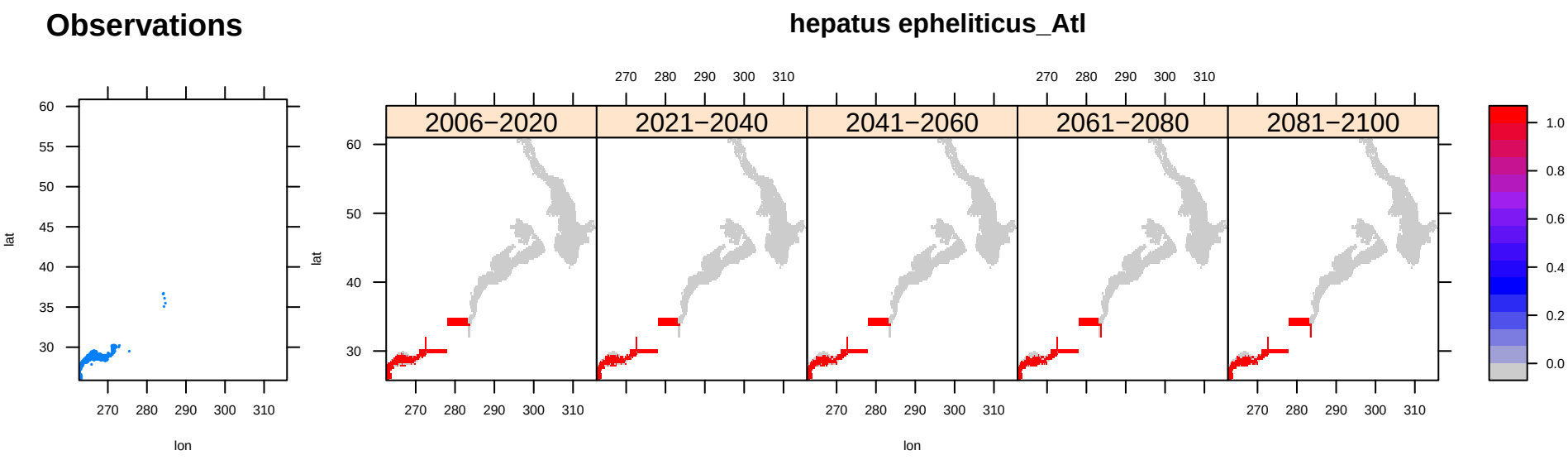
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hepatus epheliticus_Atl
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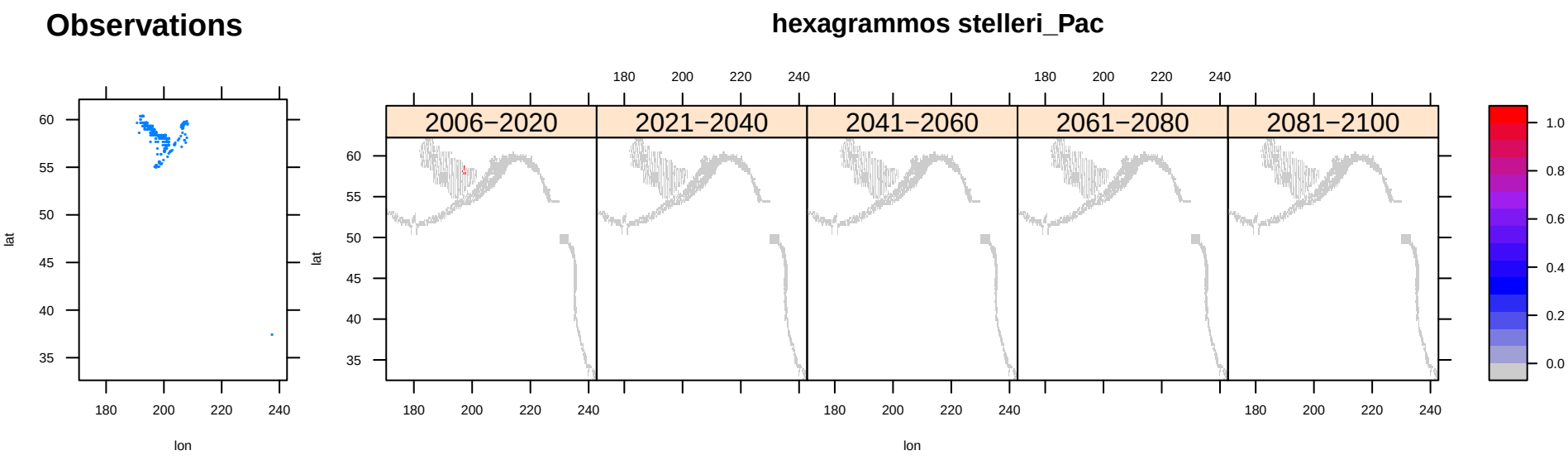
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hexagrammos stelleri_Pac
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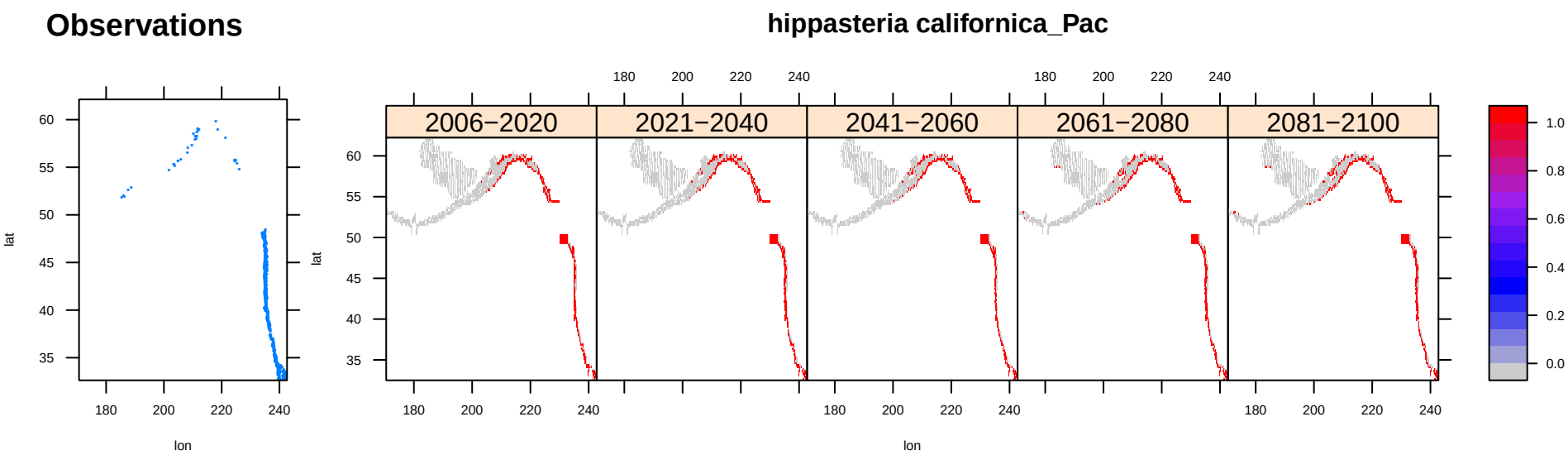
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hippasteria californica_Pac
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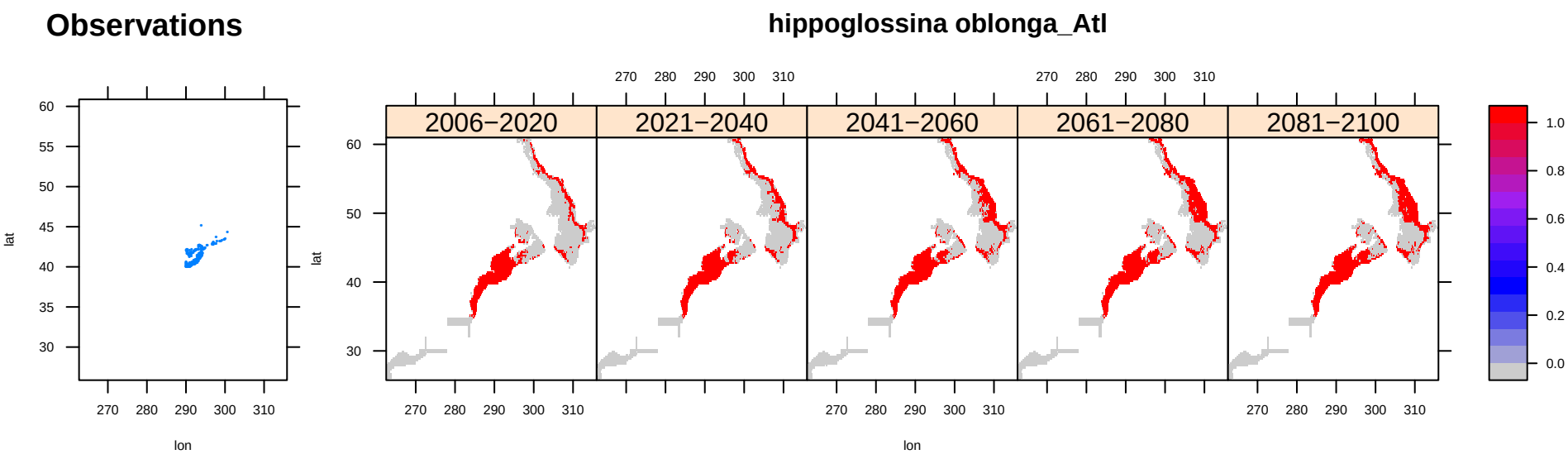
Observations
hippoglossina oblonga_Atl
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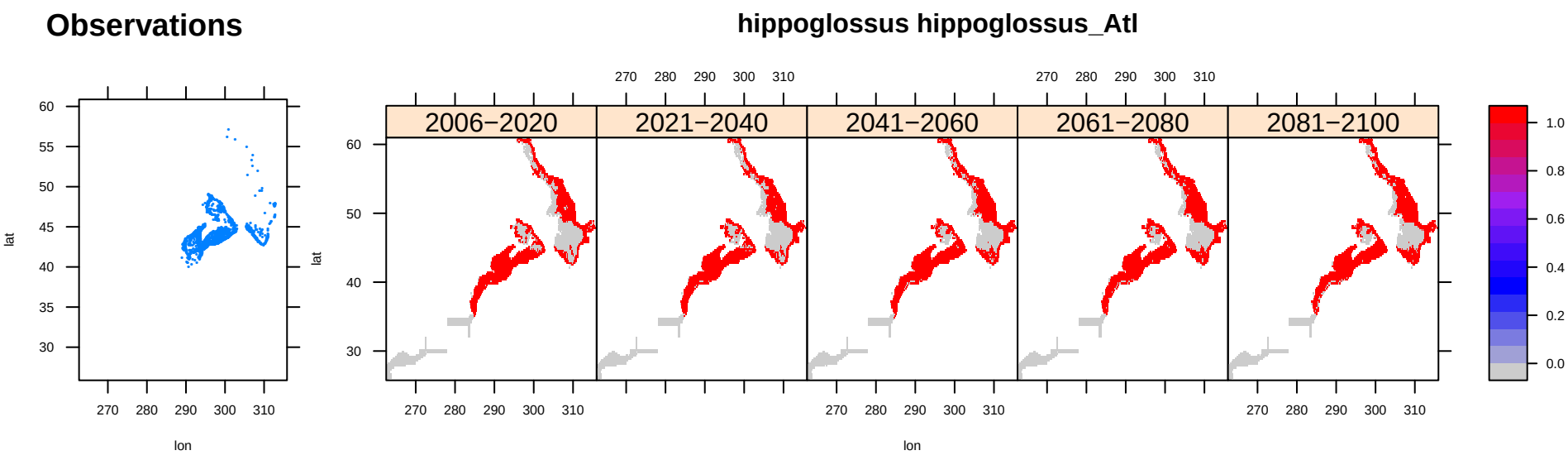
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hippoglossus hippoglossus_Atl
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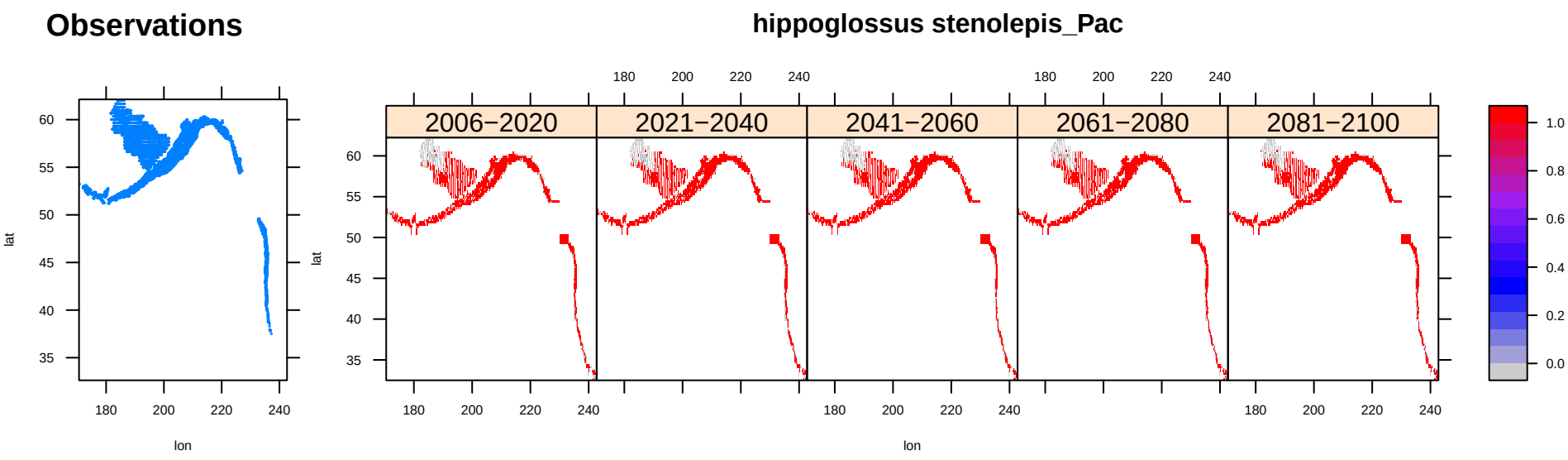
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hippoglossus stenolepis_Pac
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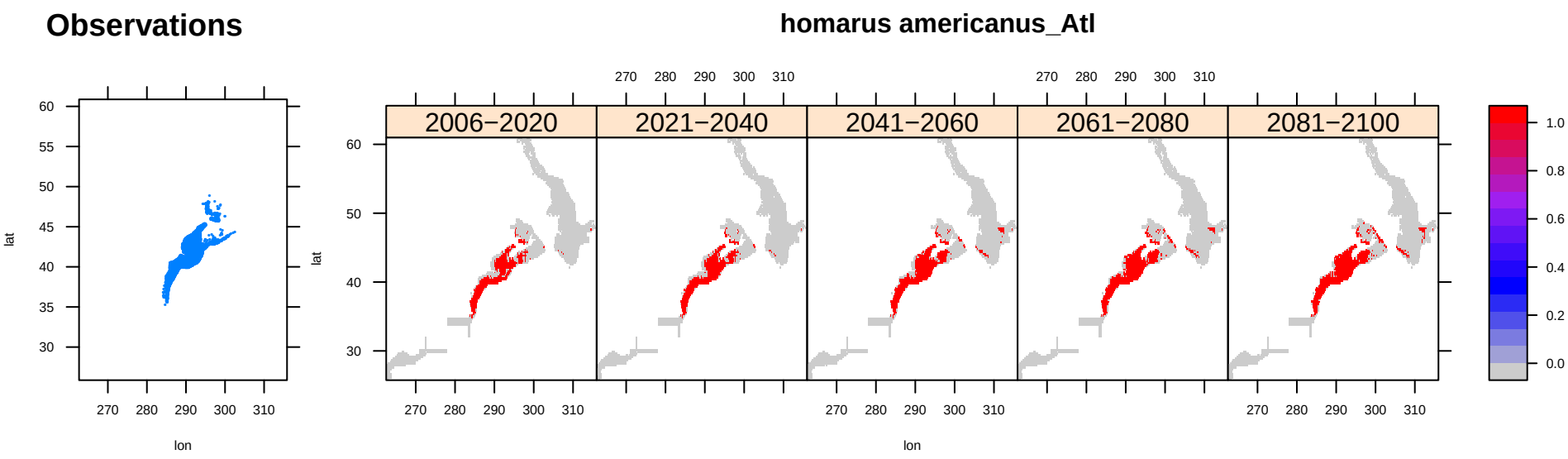
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homarus americanus_Atl
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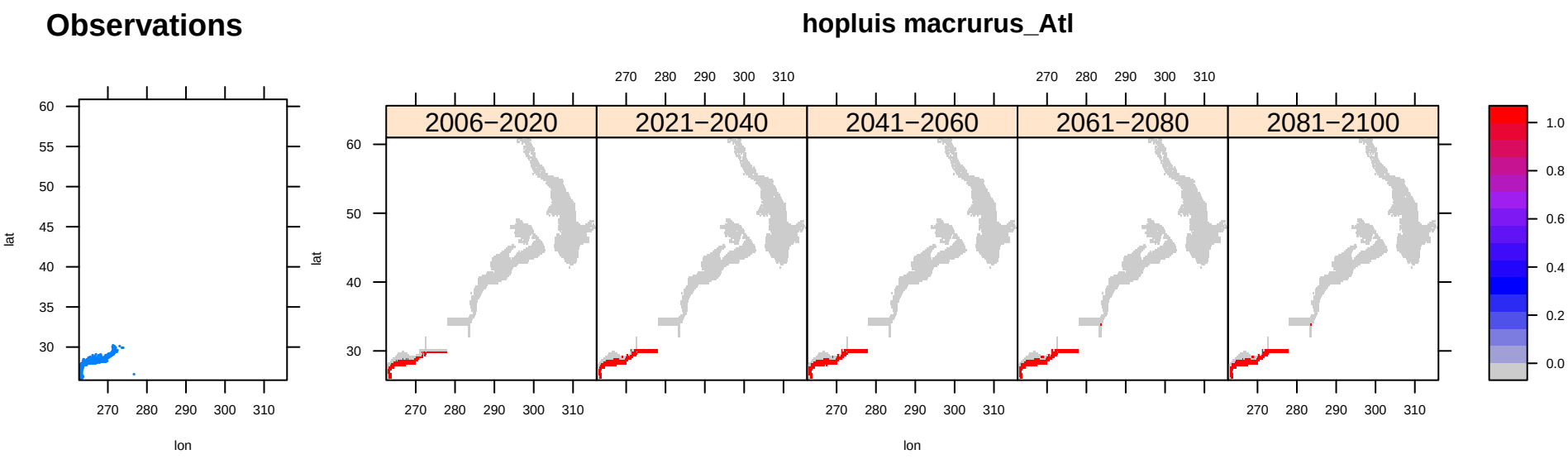
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hopluis macrurus_Atl
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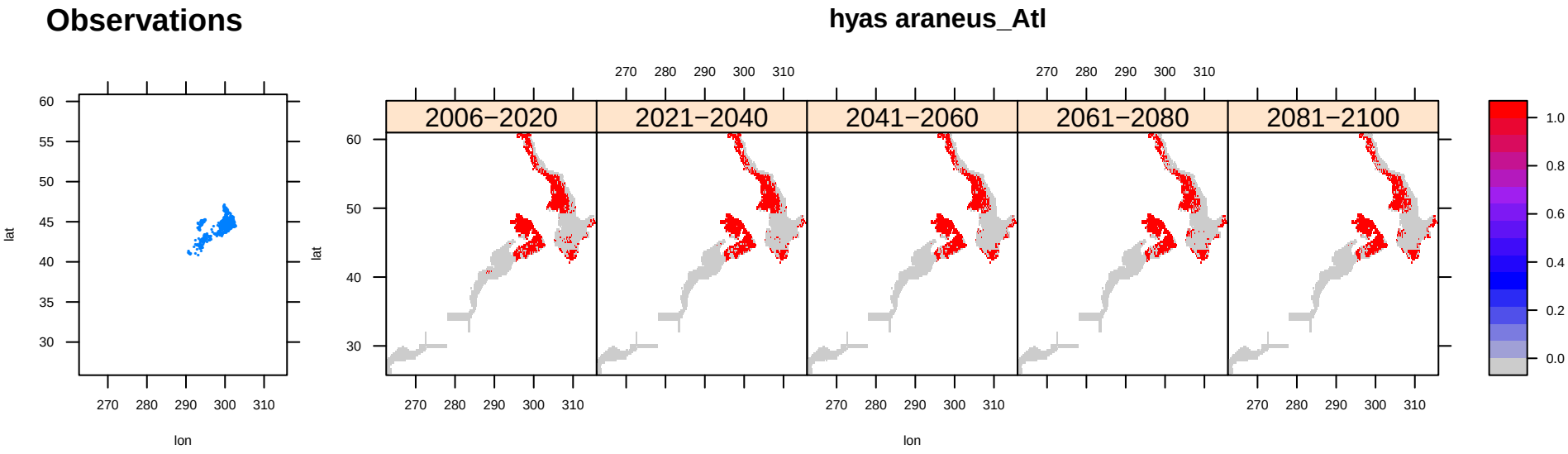
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hyas araneus_Atl
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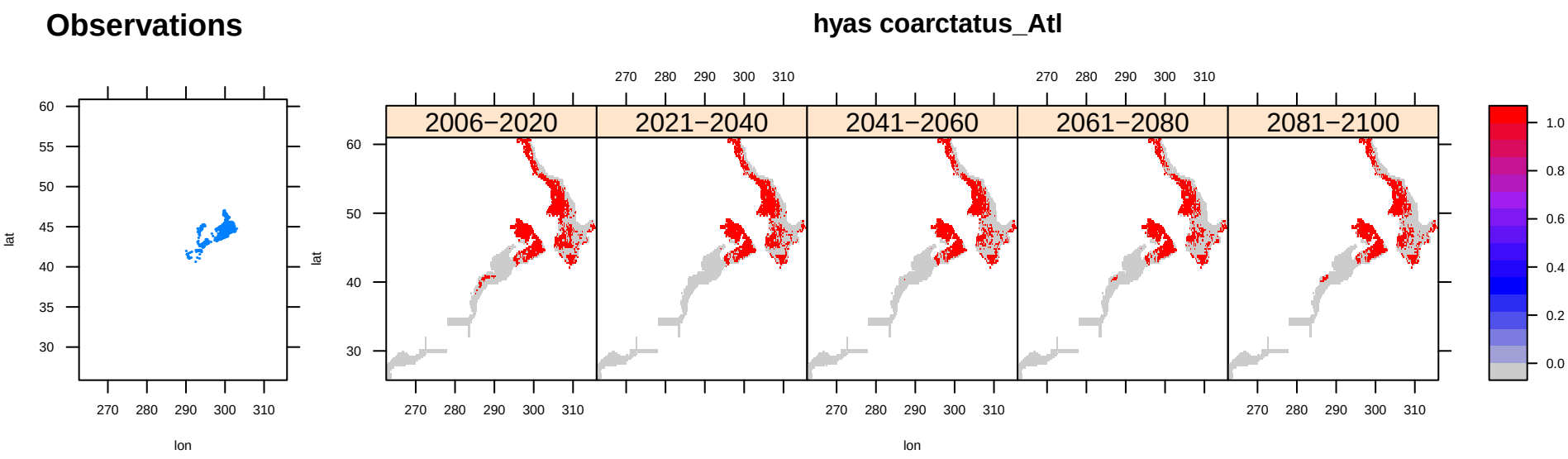
Observations
hyas coarctatus_Atl
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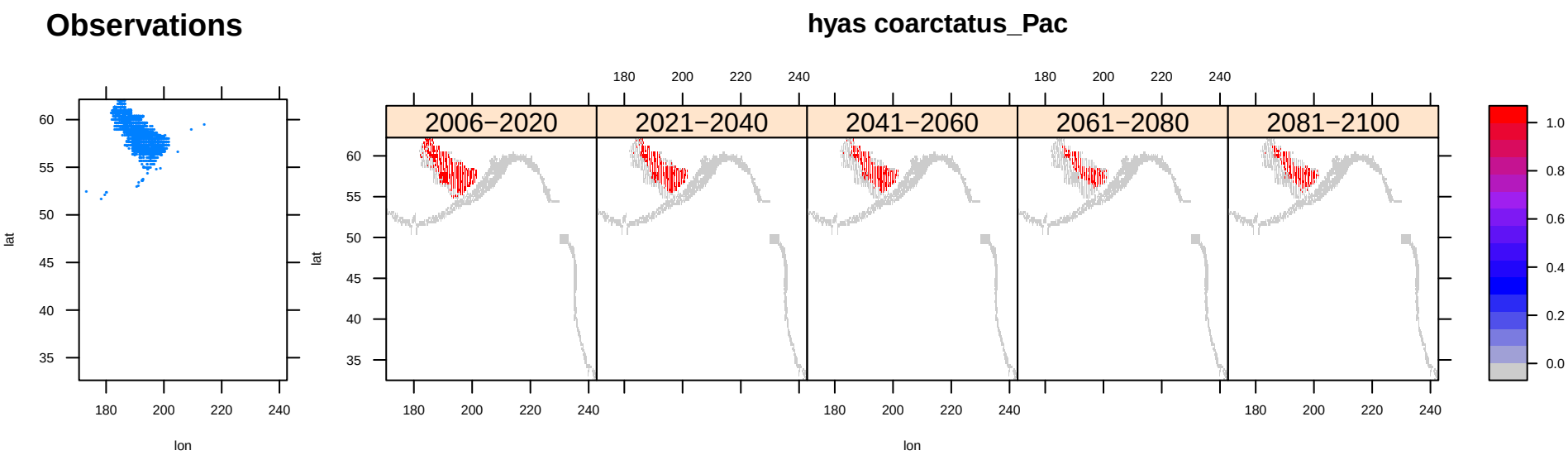
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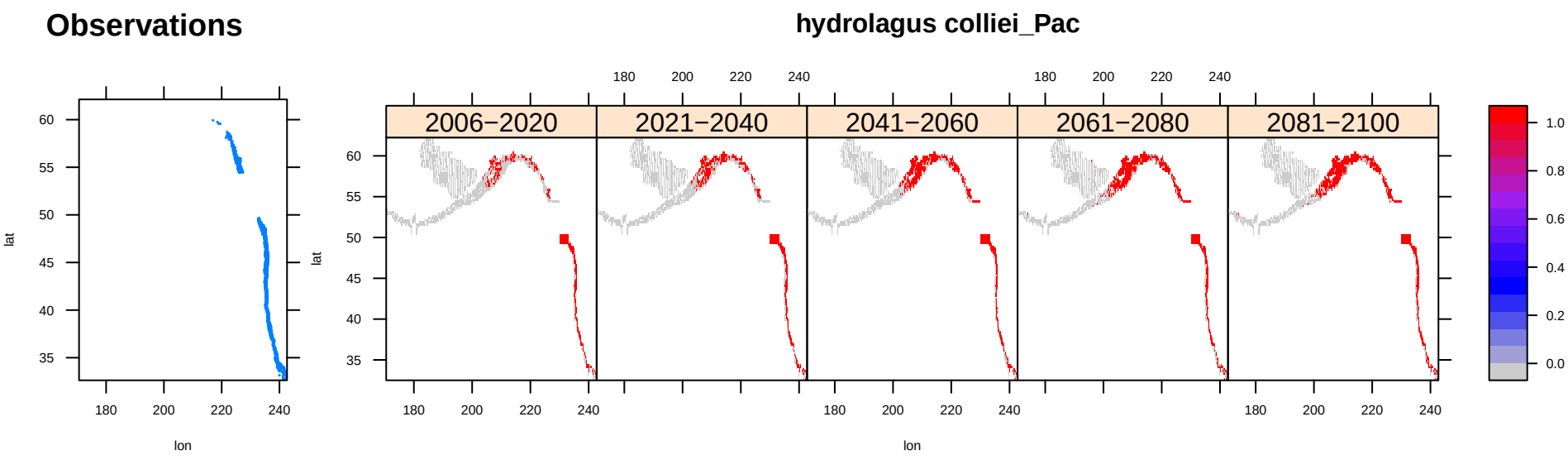
Observations
hydrolagus colliei_Pac
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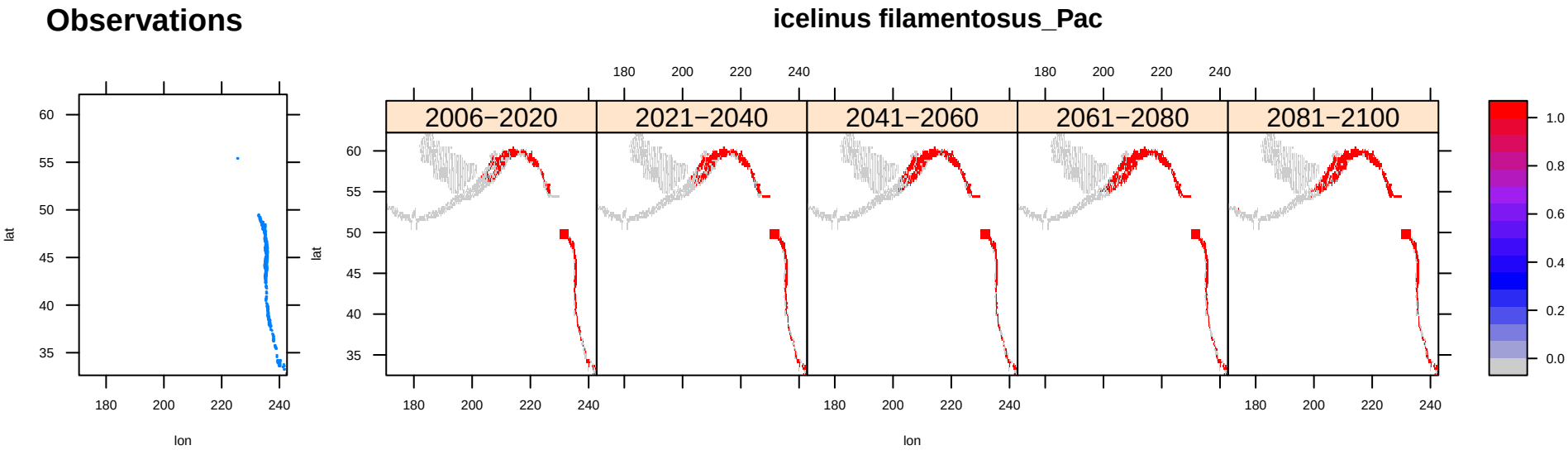
Observations
icelinus filamentosus_Pac
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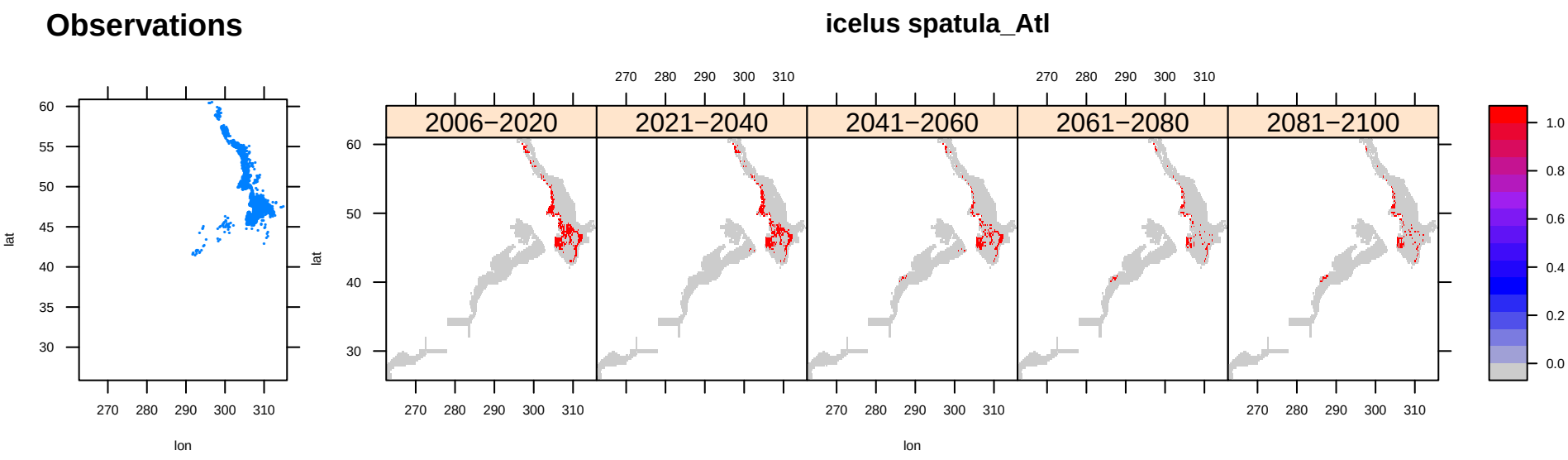
Observations
icelus spatula_Atl
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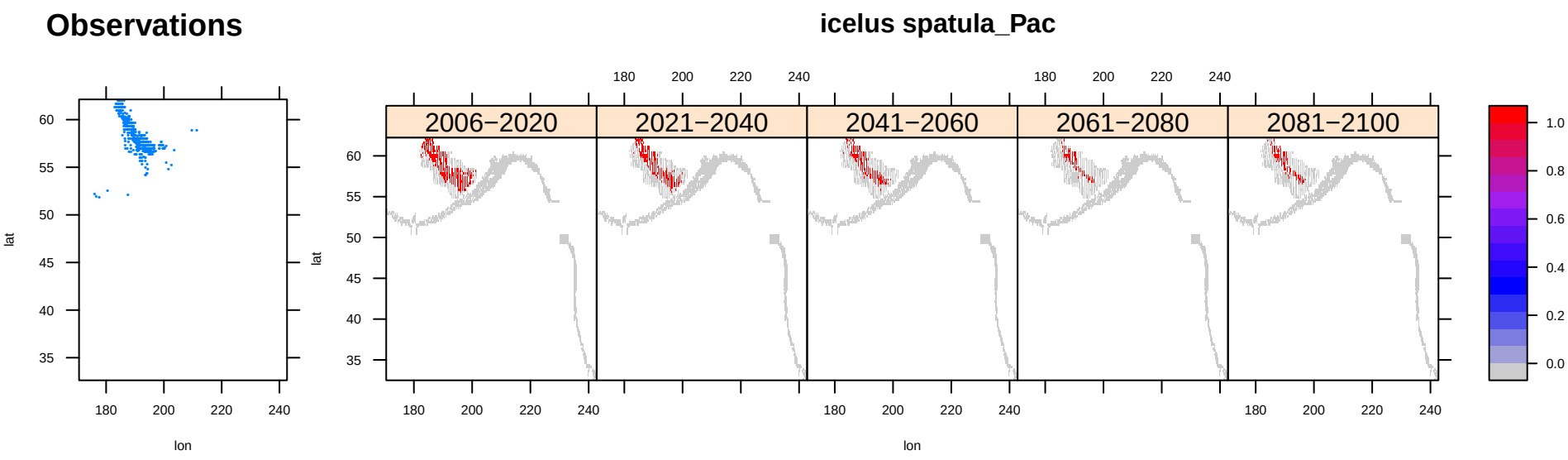
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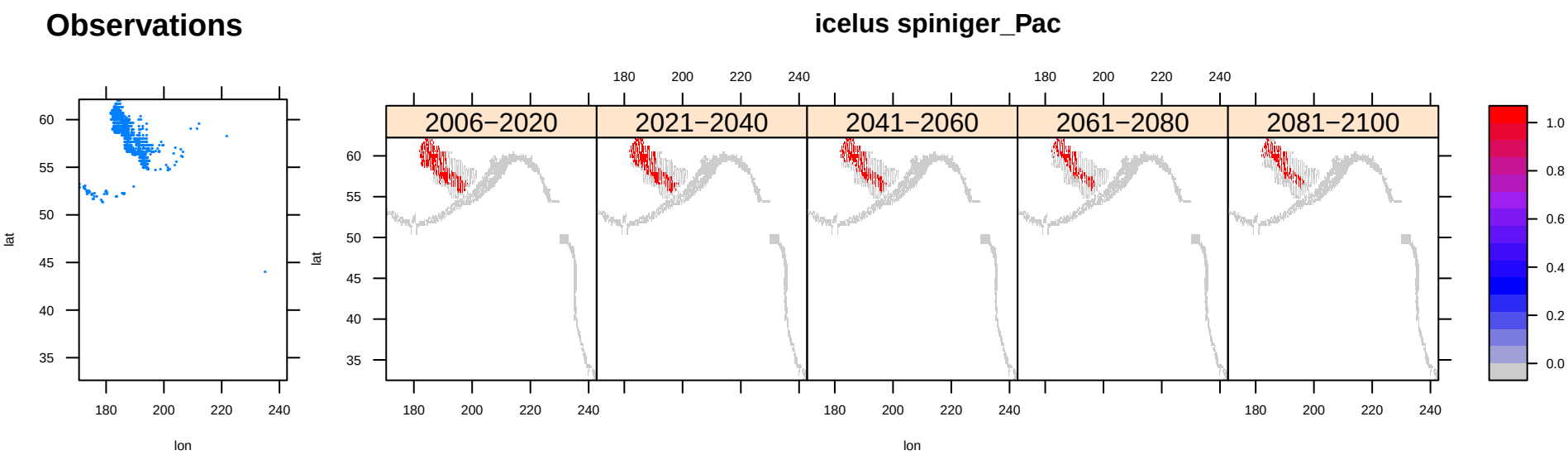
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icelus spiniger_Pac
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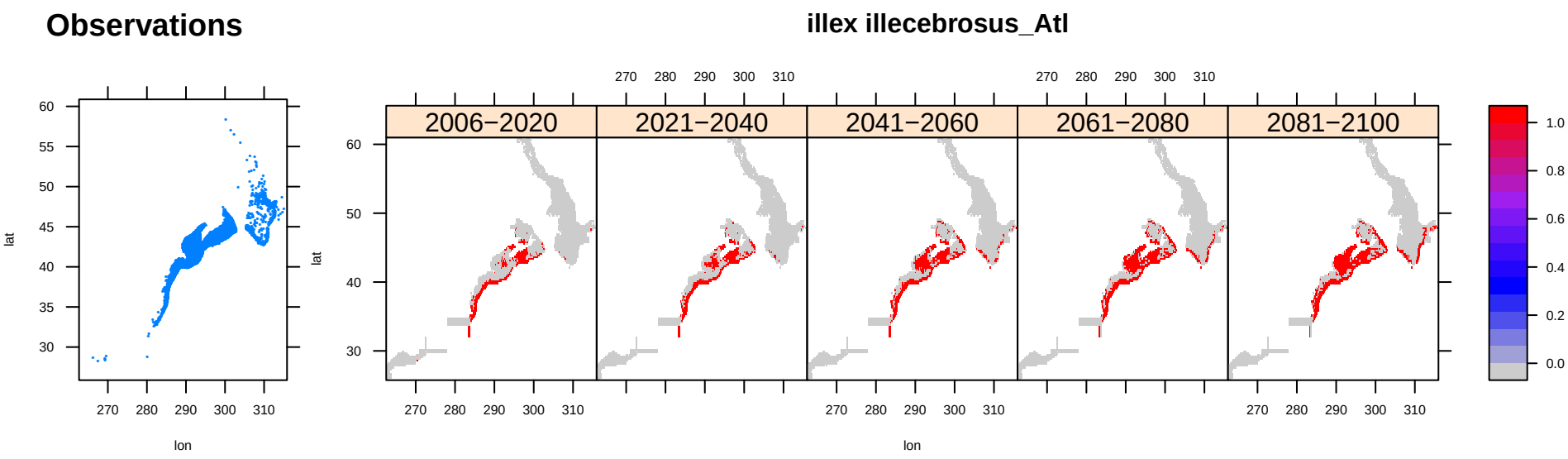
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illex illecebrosus_Atl
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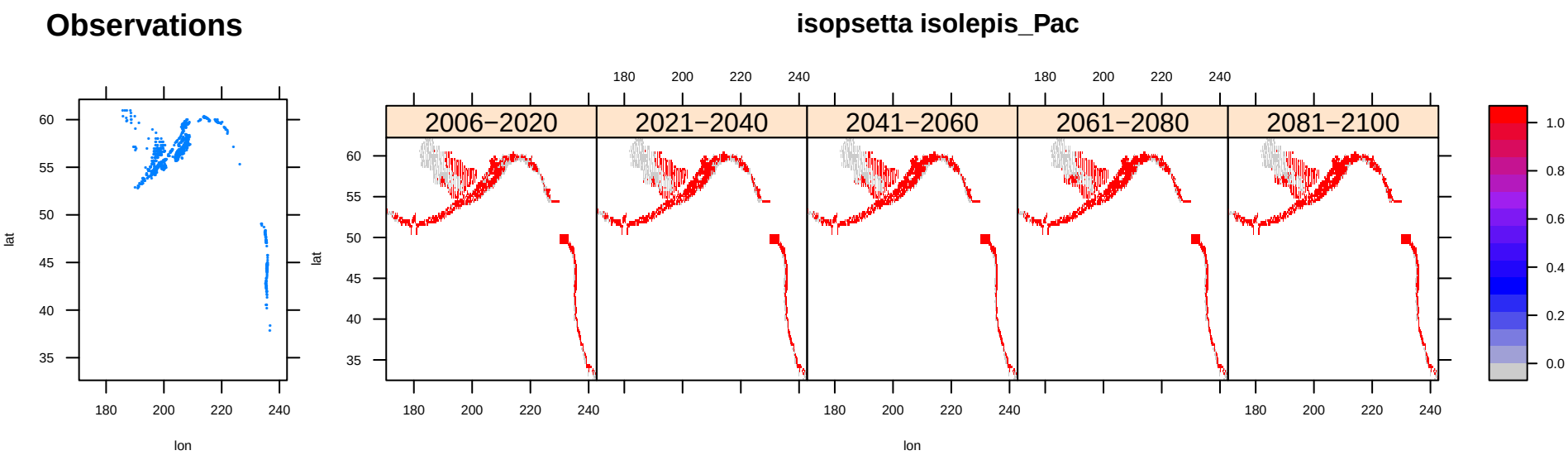
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isopsetta isolepis_Pac
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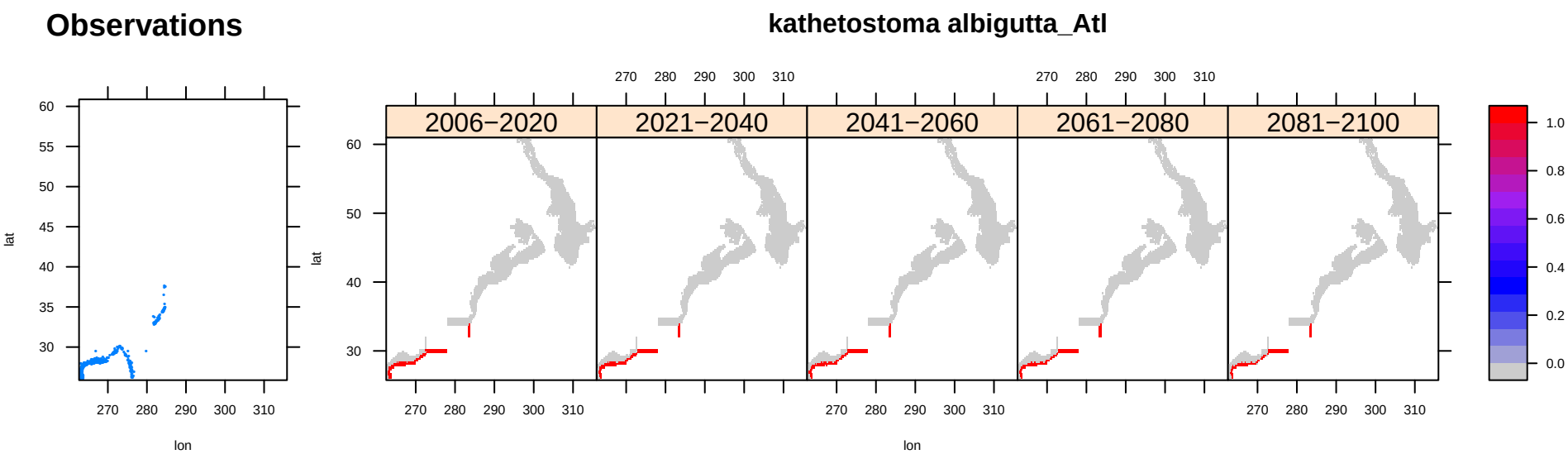
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kathetostoma albigutta_Atl
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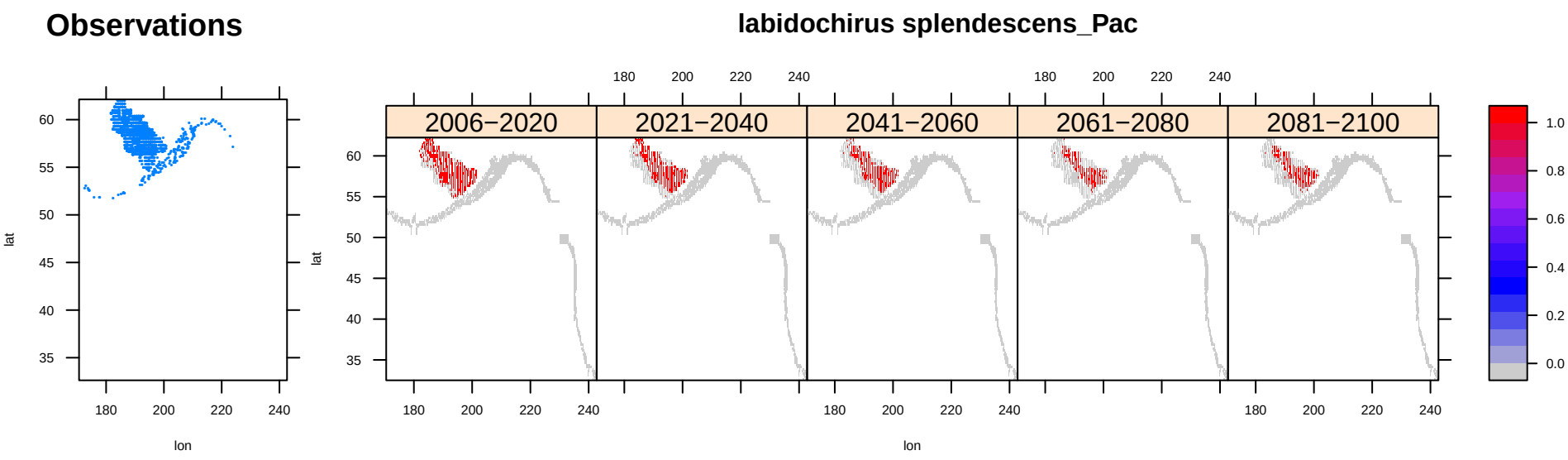
Observations
labidochirus splendescens_Pac
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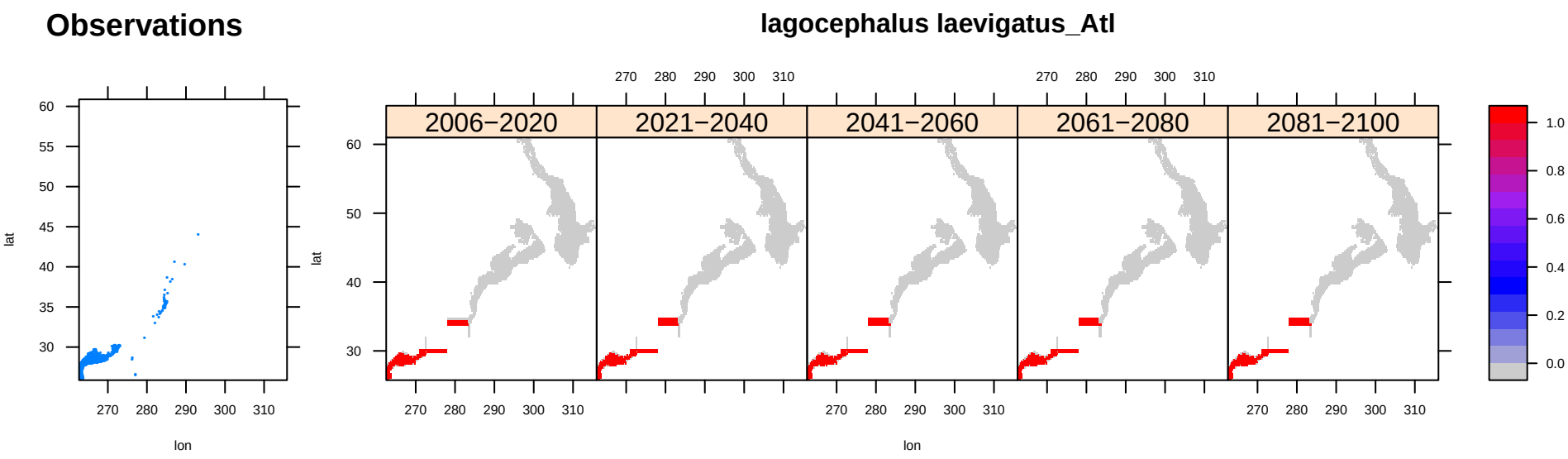
Observations
lagocephalus laevigatus_Atl
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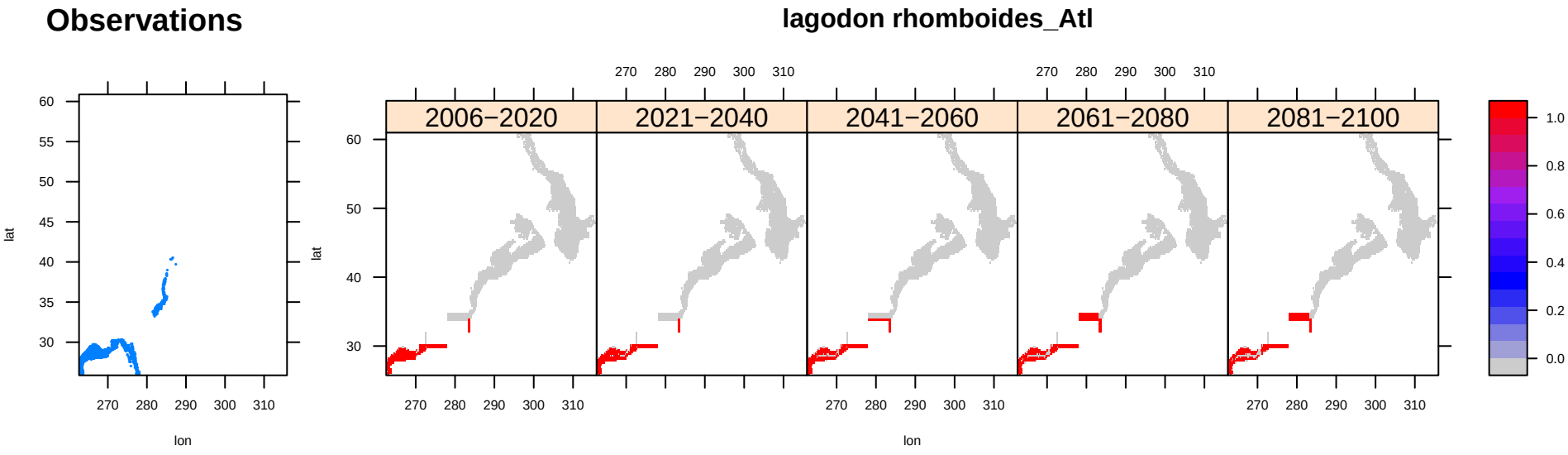
Observations
lagodon rhomboides_Atl
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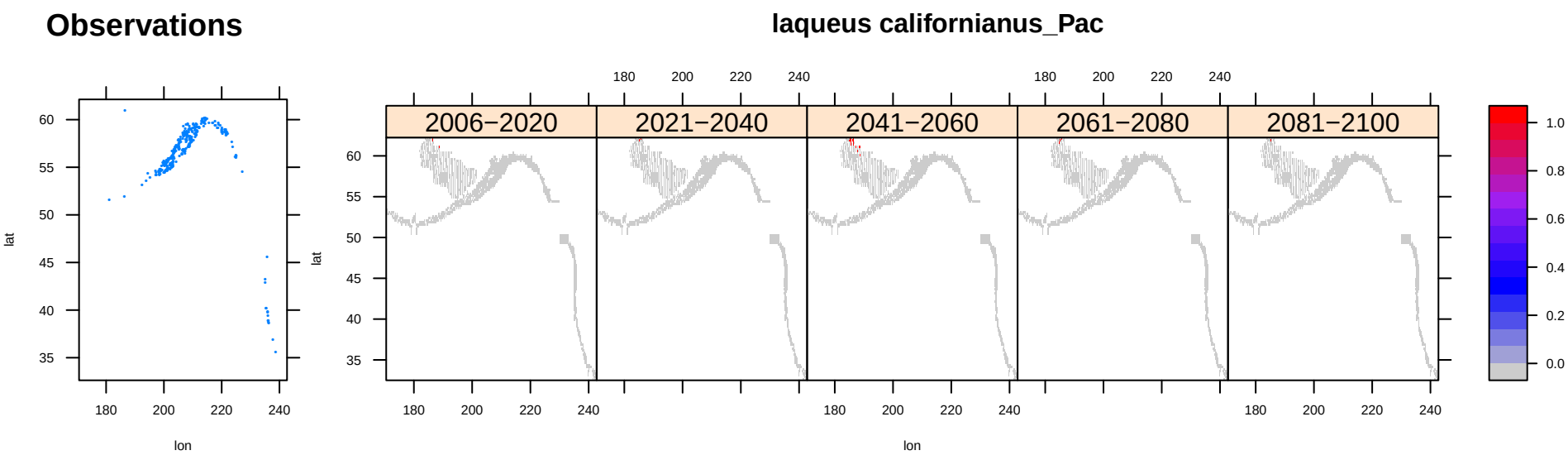
Observations
laqueus californianus_Pac
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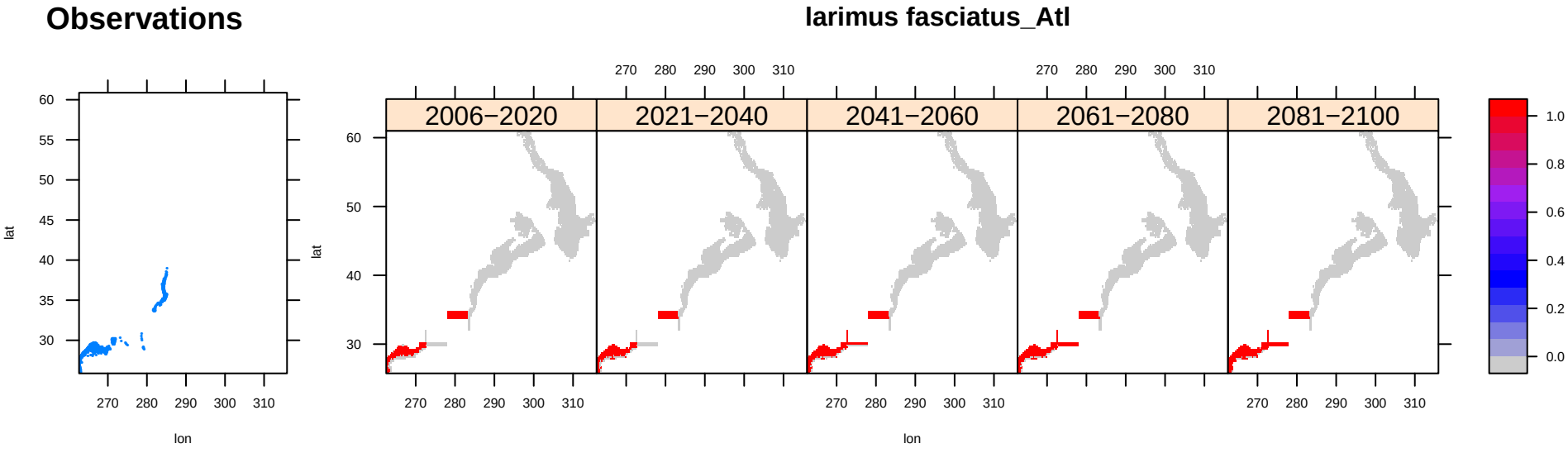
Observations
larimus fasciatus_Atl
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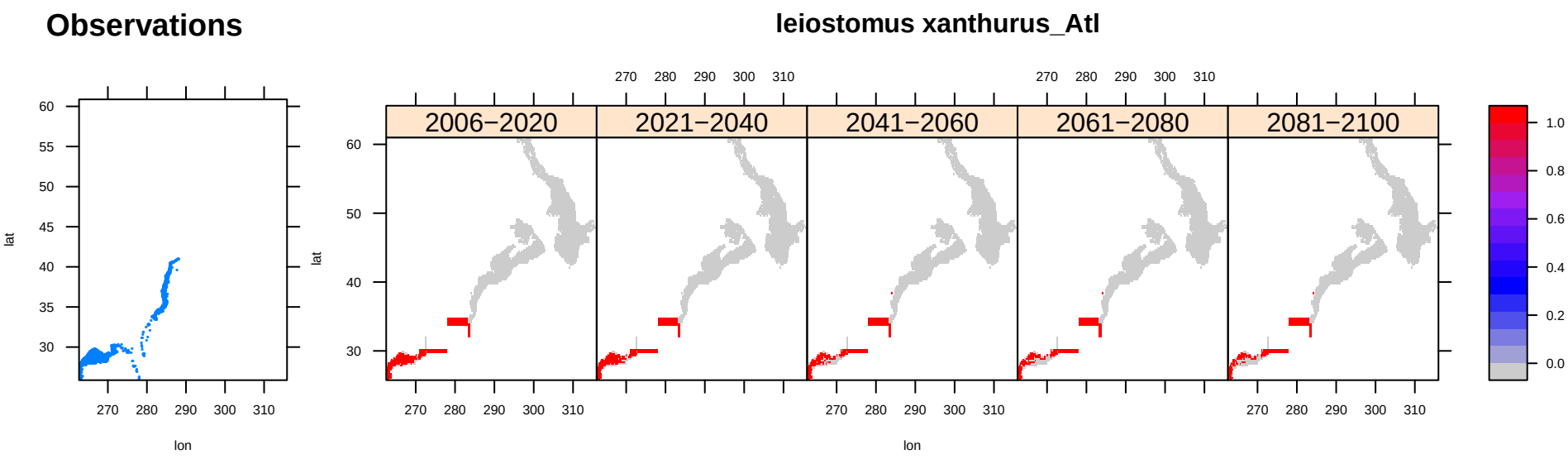
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leiostomus xanthurus_Atl
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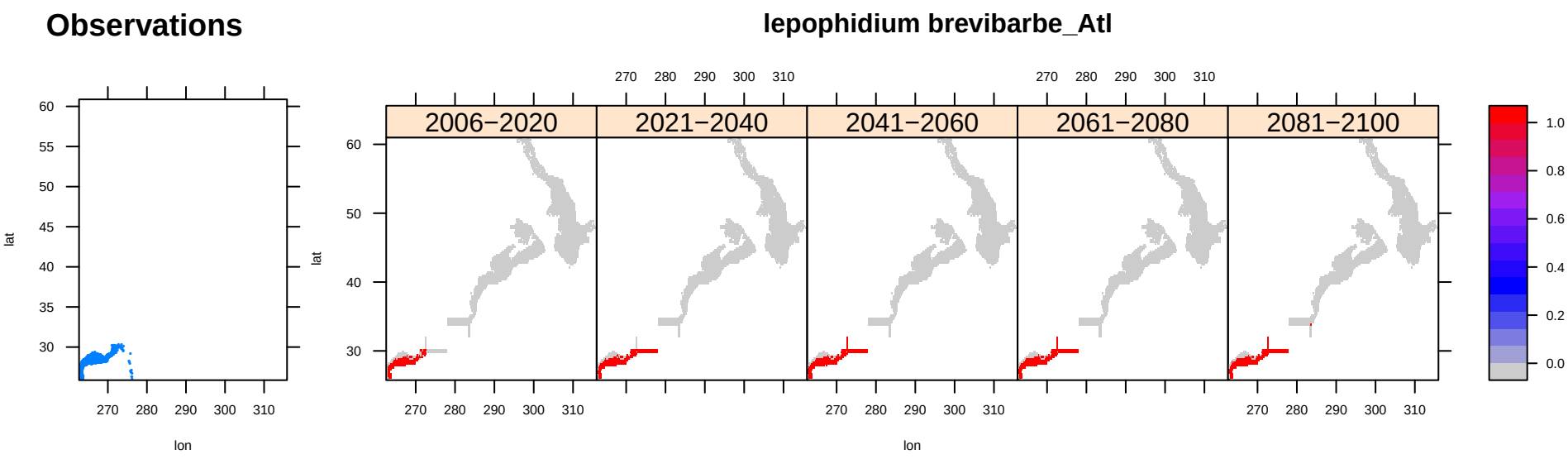
Observations
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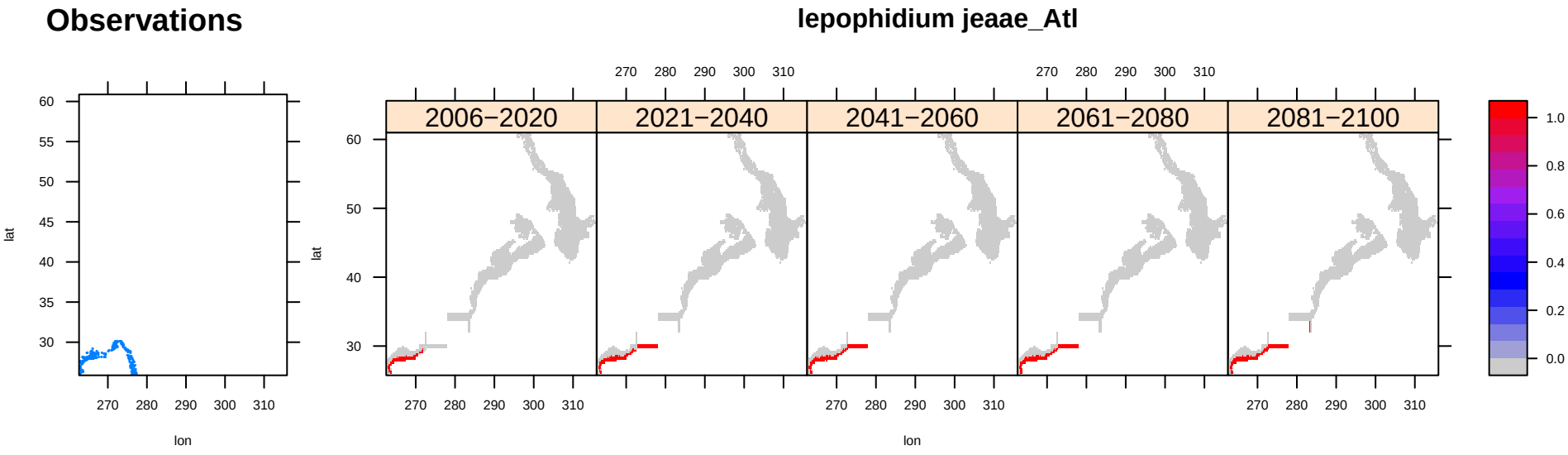
Observations
lepophidium jeaae_Atl
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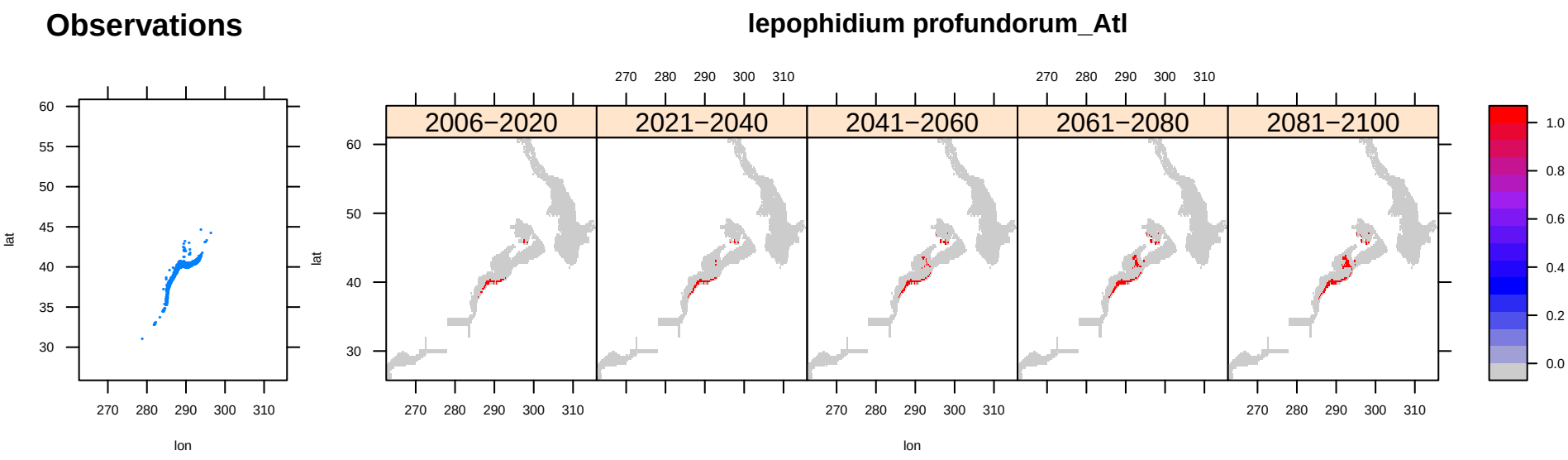
Observations
lepophidium profundorum_Atl
2006−2020
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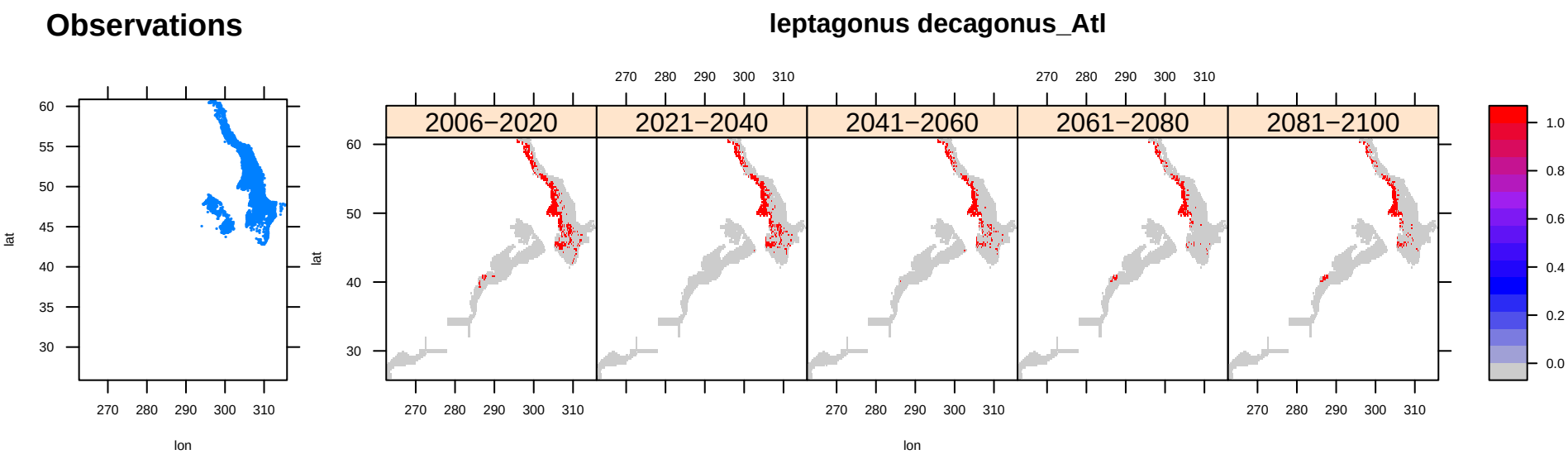
Observations
leptagonus decagonus_Atl
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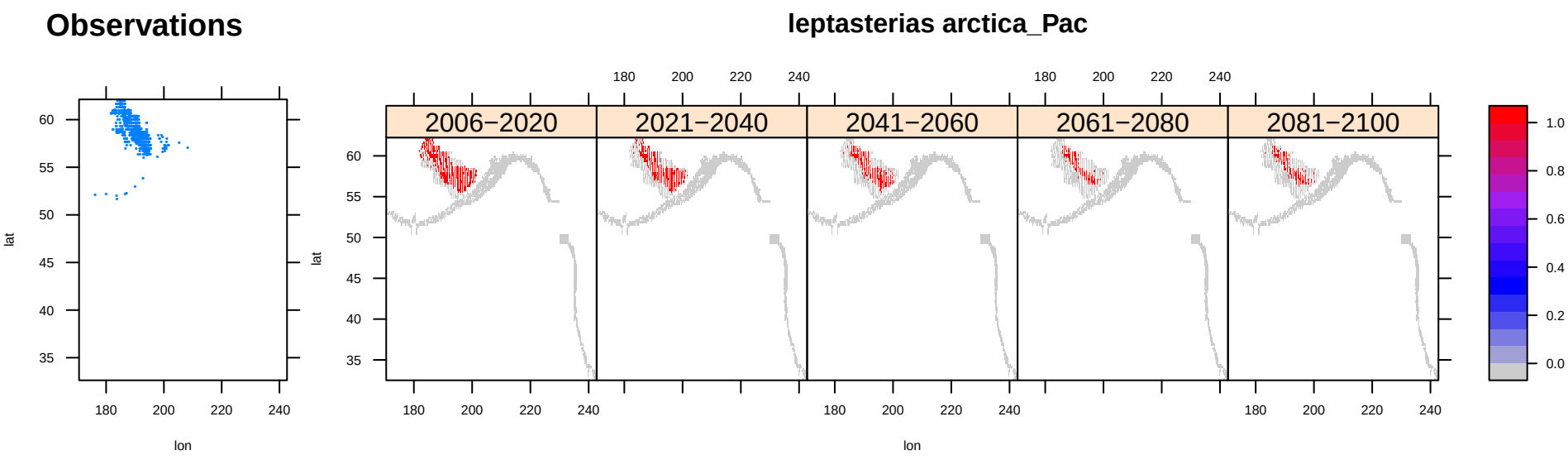
Observations
leptasterias arctica_Pac
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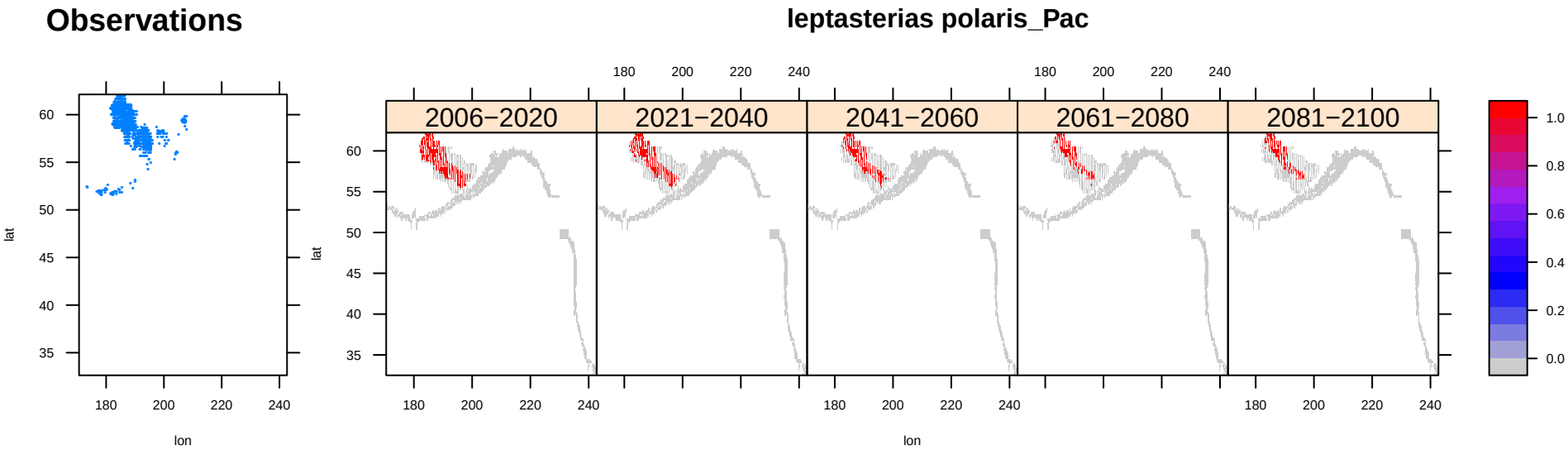
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leptasterias polaris_Pac
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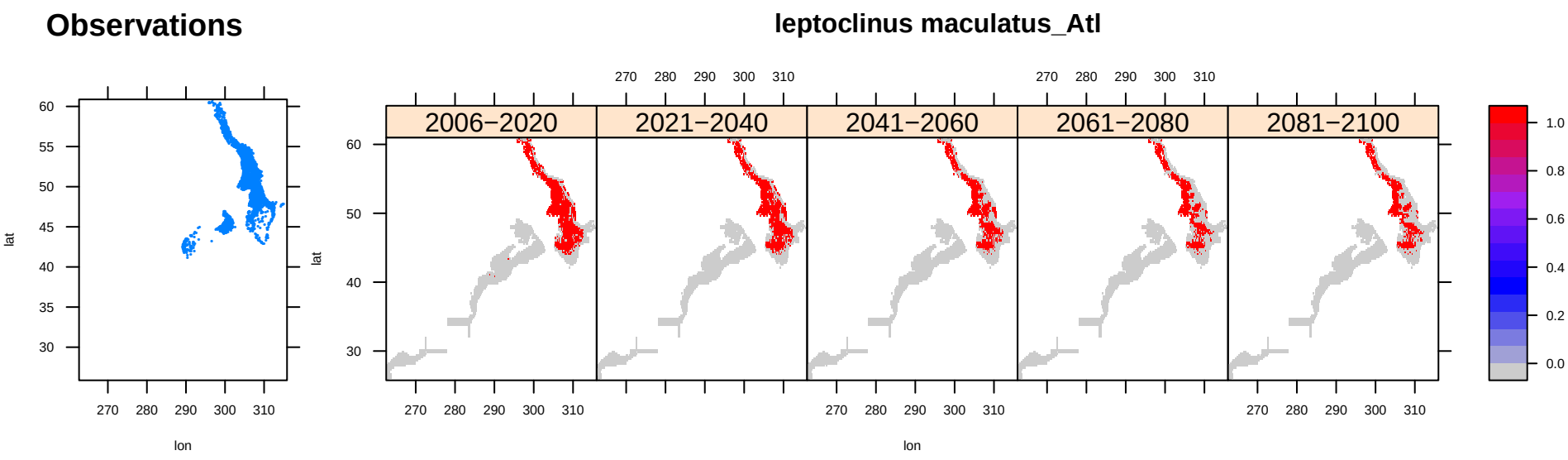
Observations
leptoclinus maculatus_Atl
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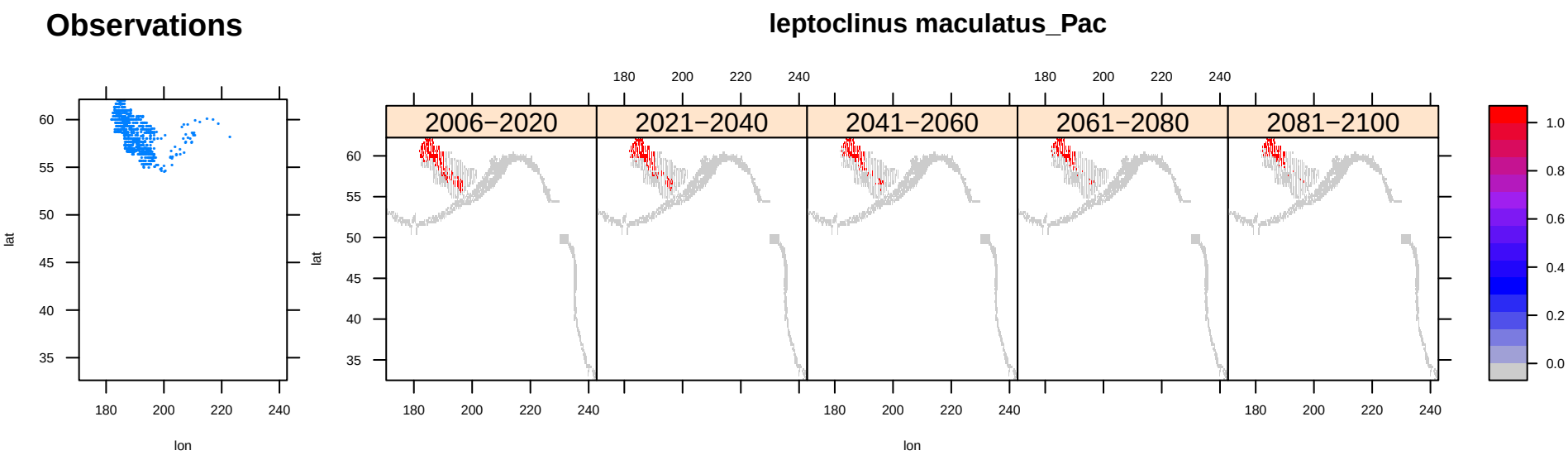
Observations
leptoclinus maculatus_Pac
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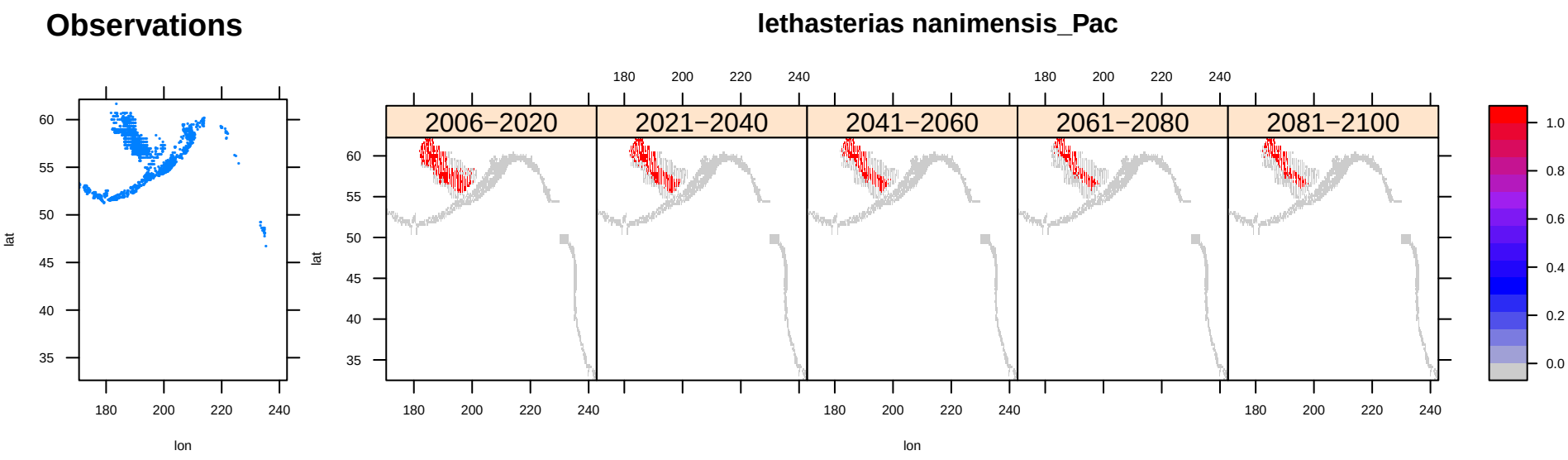
Observations
lethasterias nanimensis_Pac
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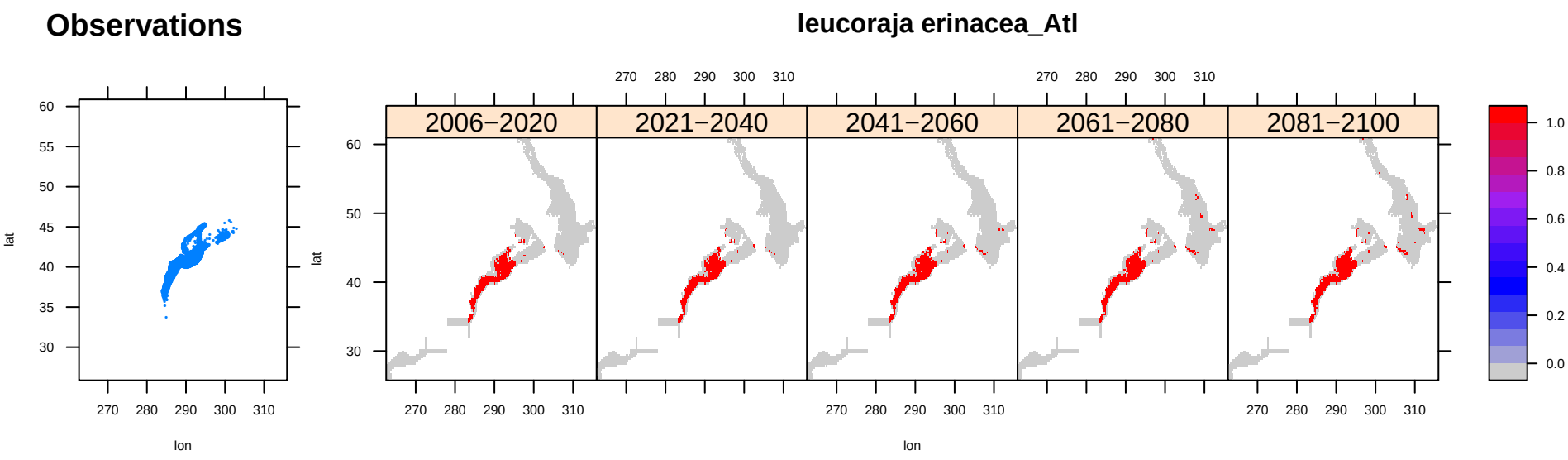
Observations
leucoraja erinacea_Atl
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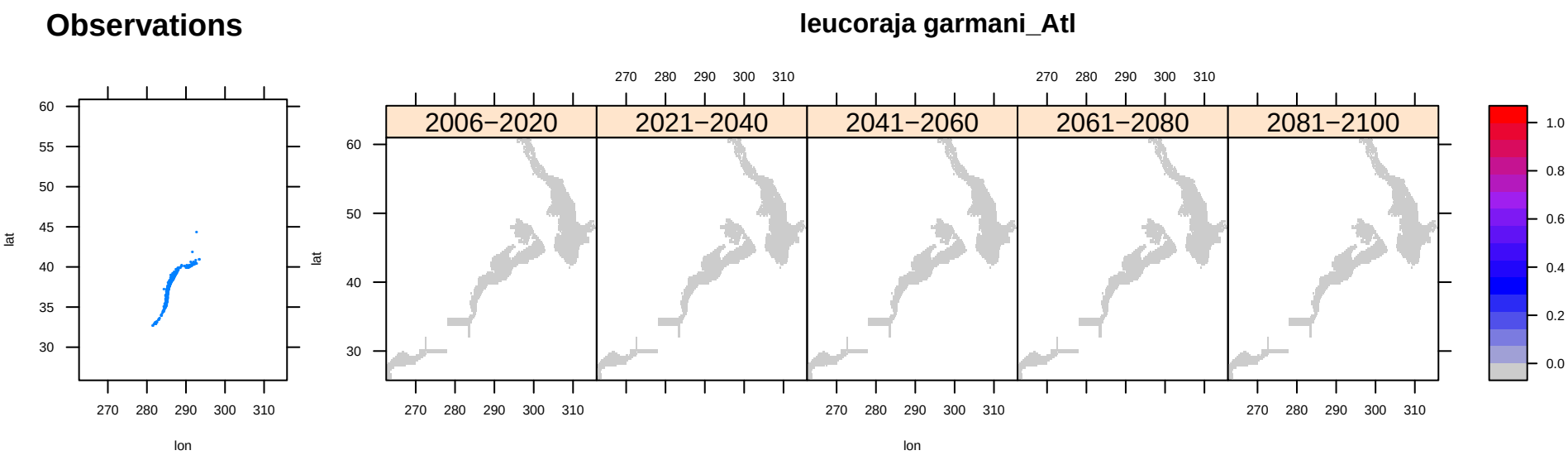
Observations
leucoraja garmani_Atl
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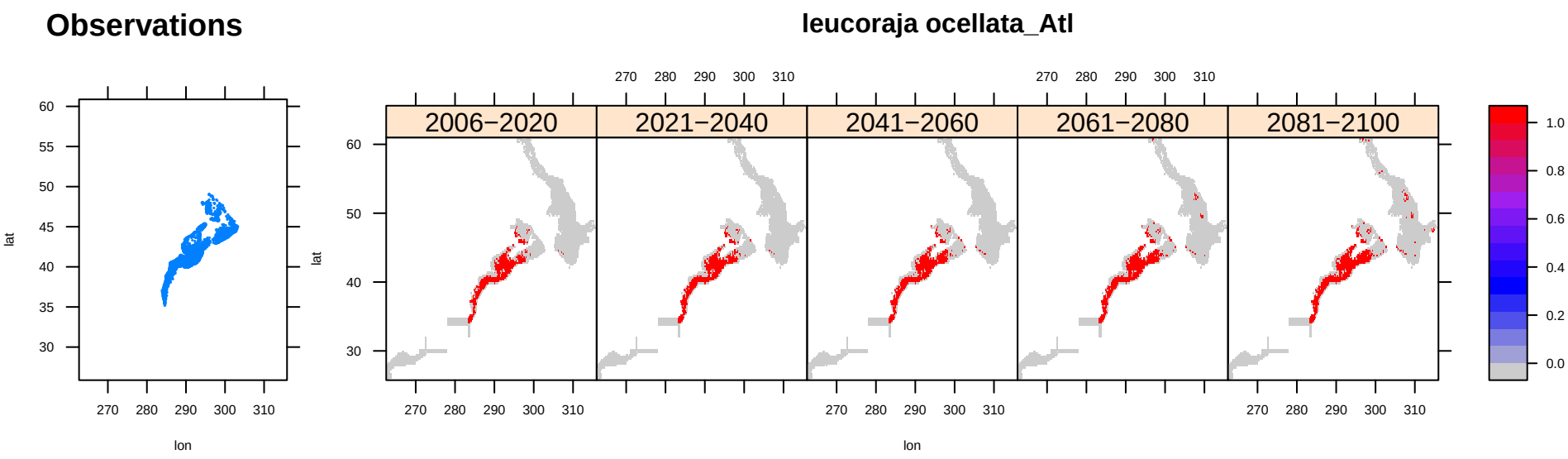
Observations
leucoraja ocellata_Atl
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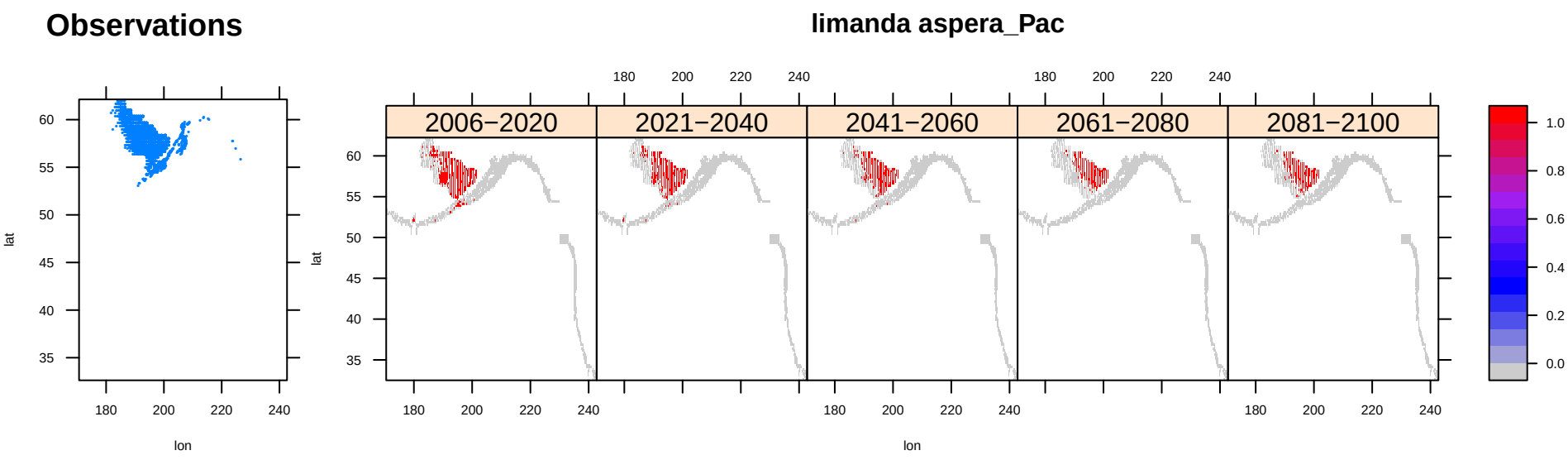
Observations
limanda aspera_Pac
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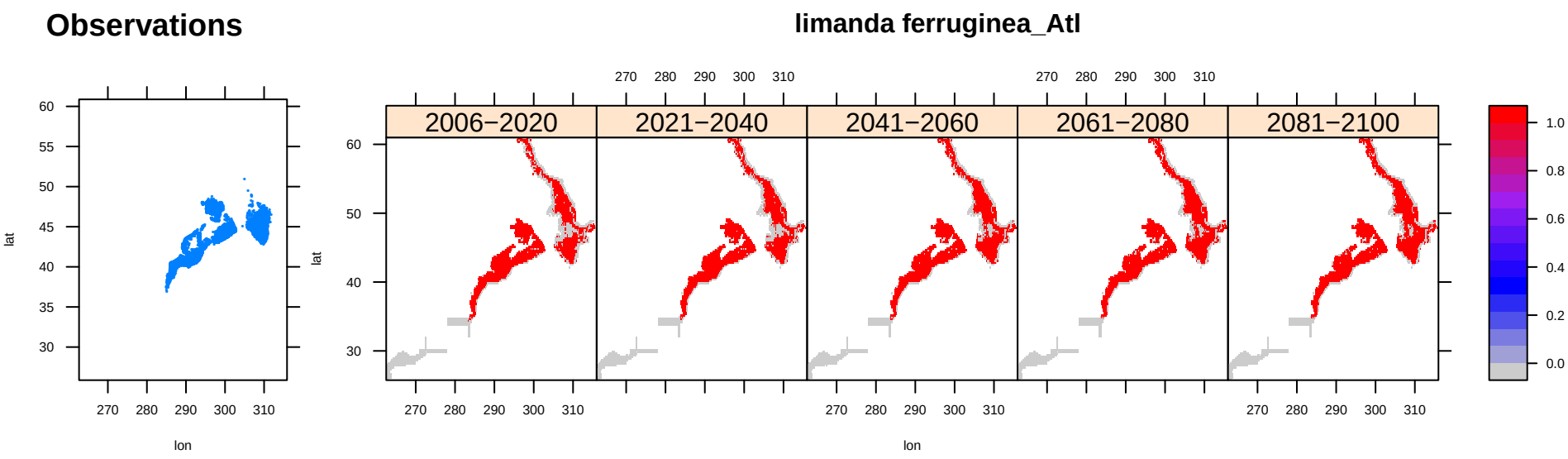
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limanda ferruginea_Atl
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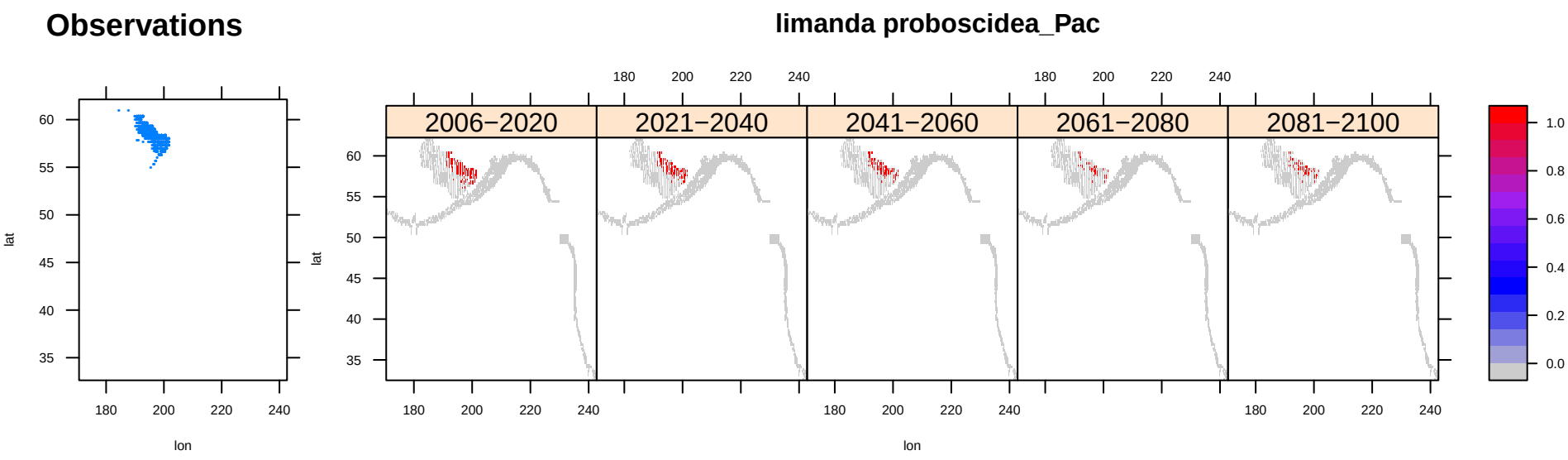
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limanda proboscidea_Pac
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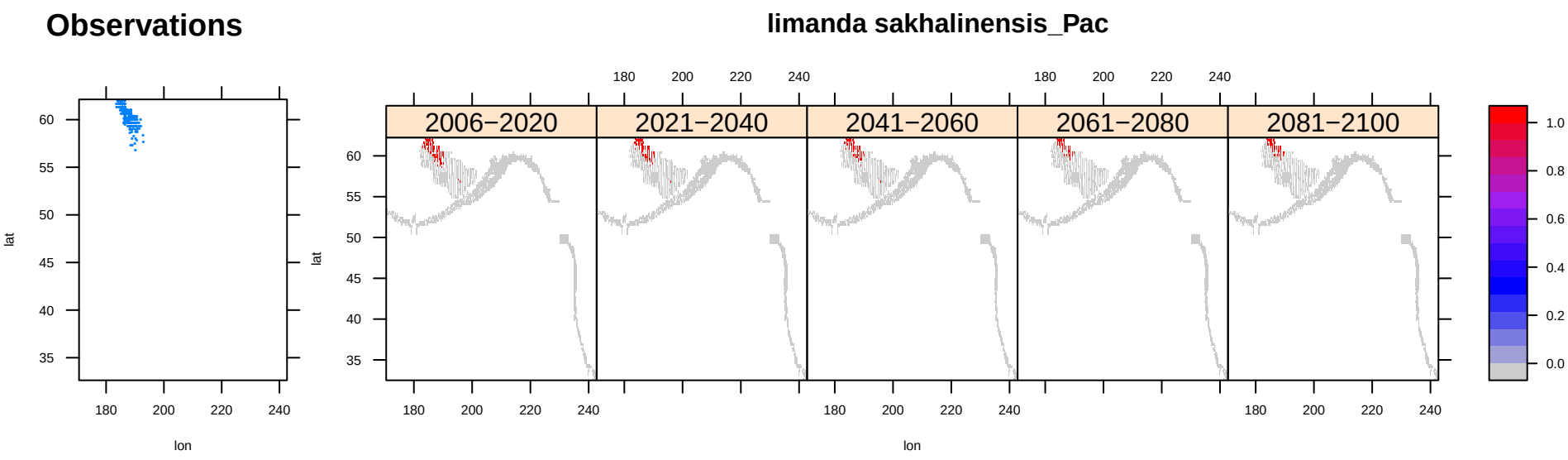
Observations
limanda sakhalinensis_Pac
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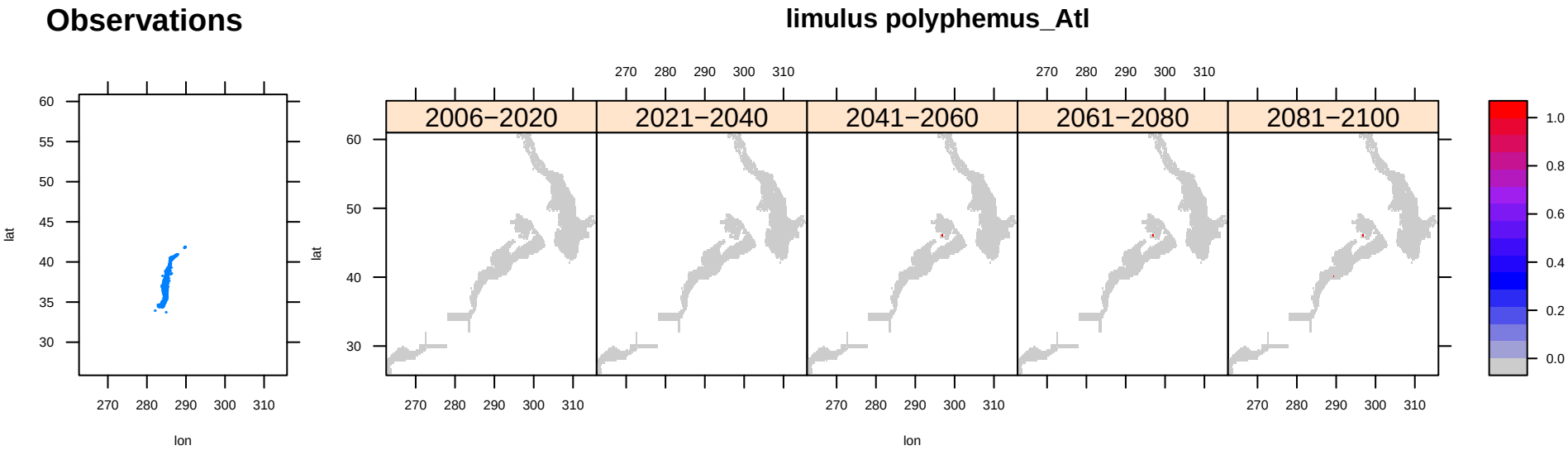
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limulus polyphemus_Atl
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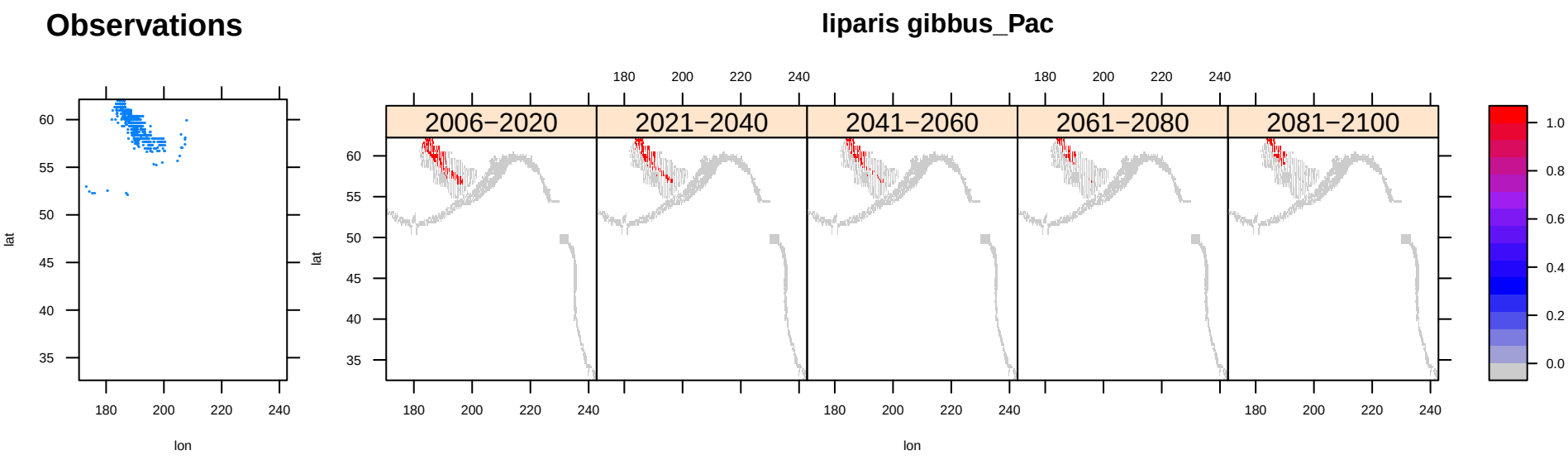
Observations
liparis gibbus_Pac
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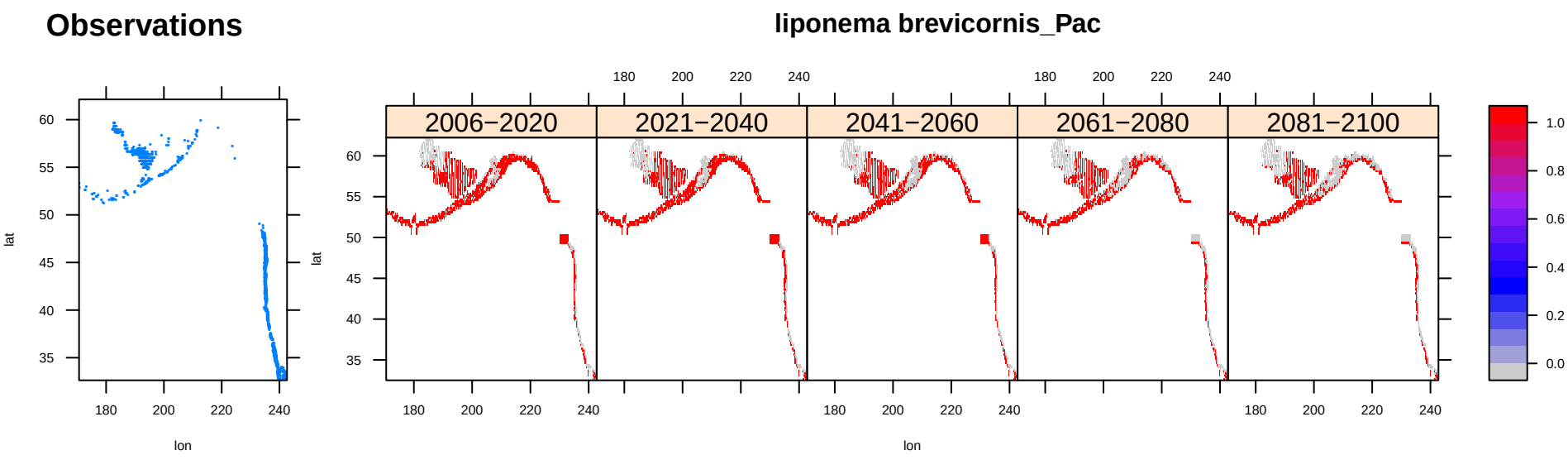
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liponema brevicornis_Pac
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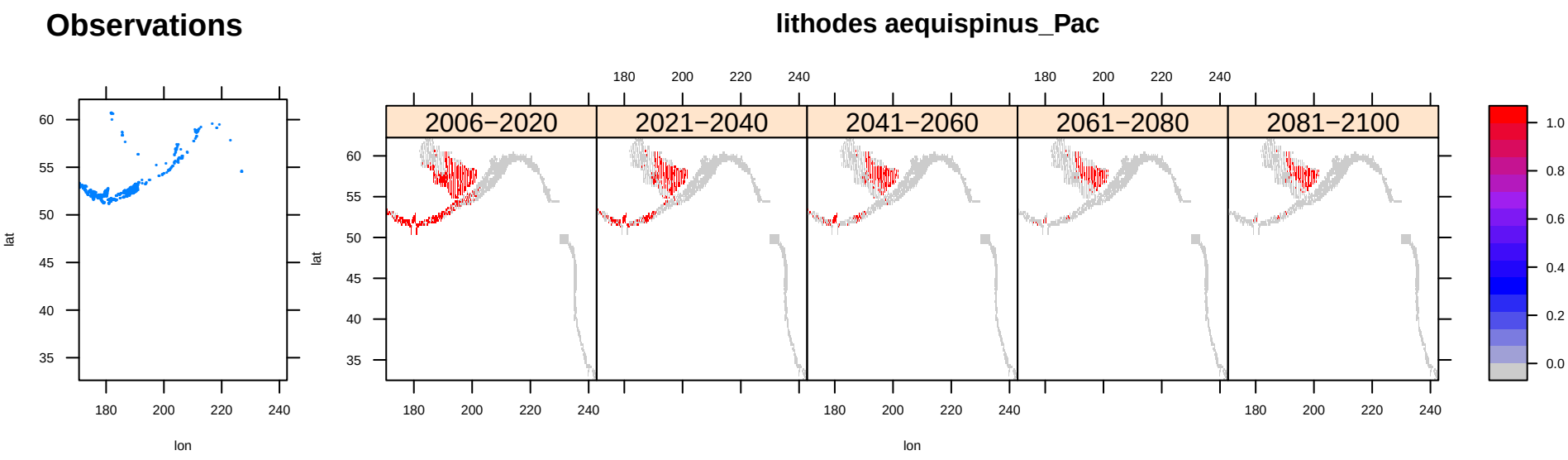
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lithodes aequispinus_Pac
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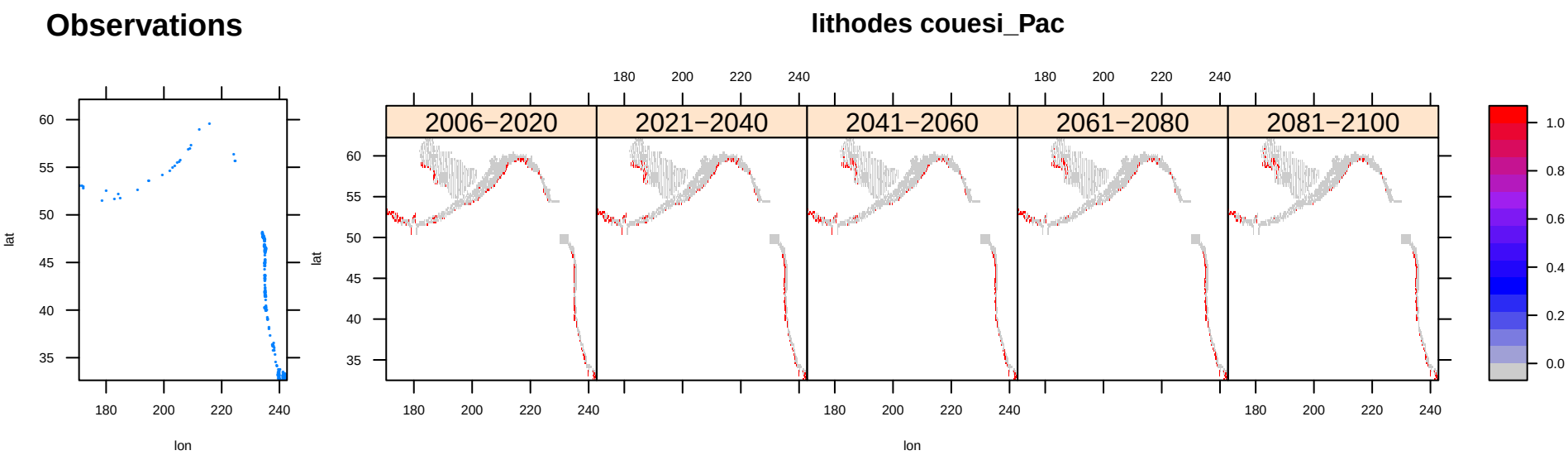
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lithodes couesi_Pac
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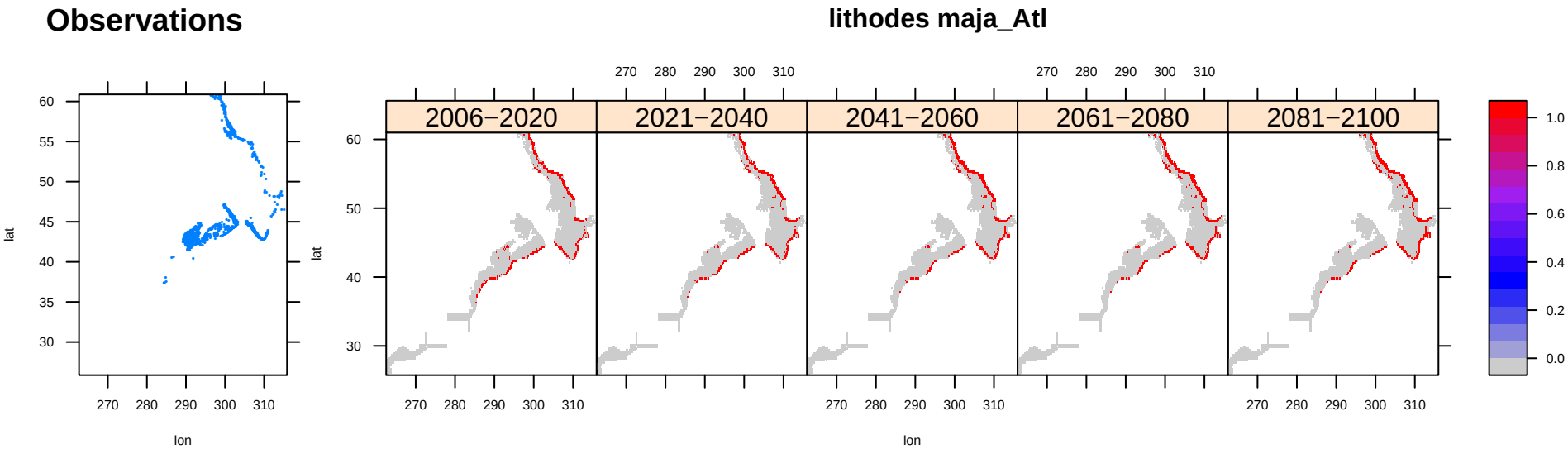
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lithodes maja_Atl
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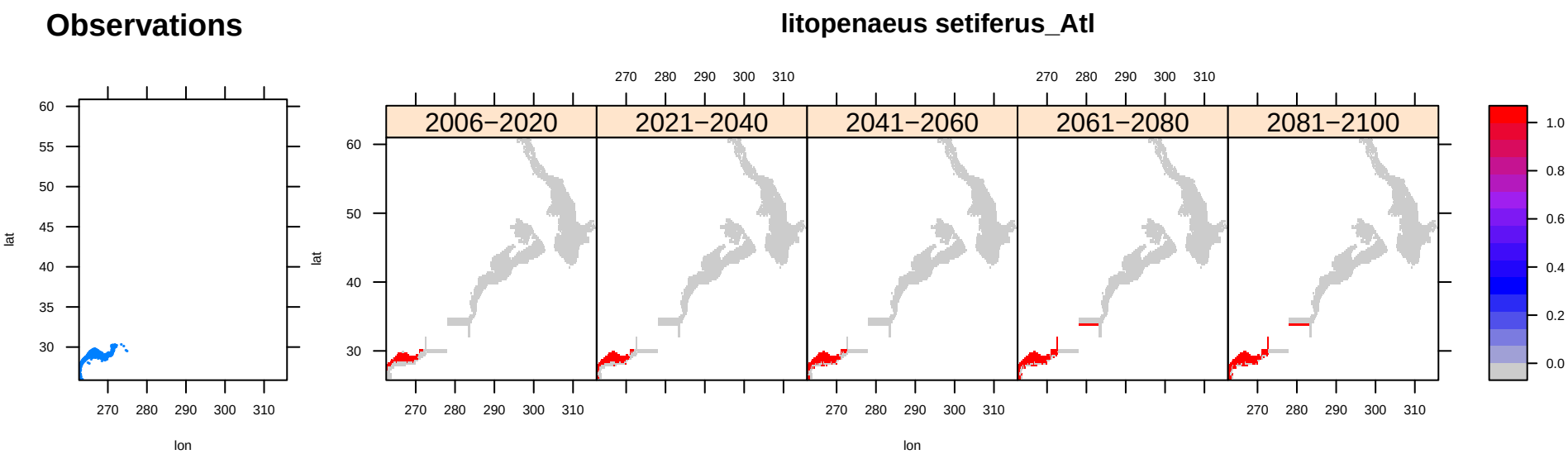
Observations
litopenaeus setiferus_Atl
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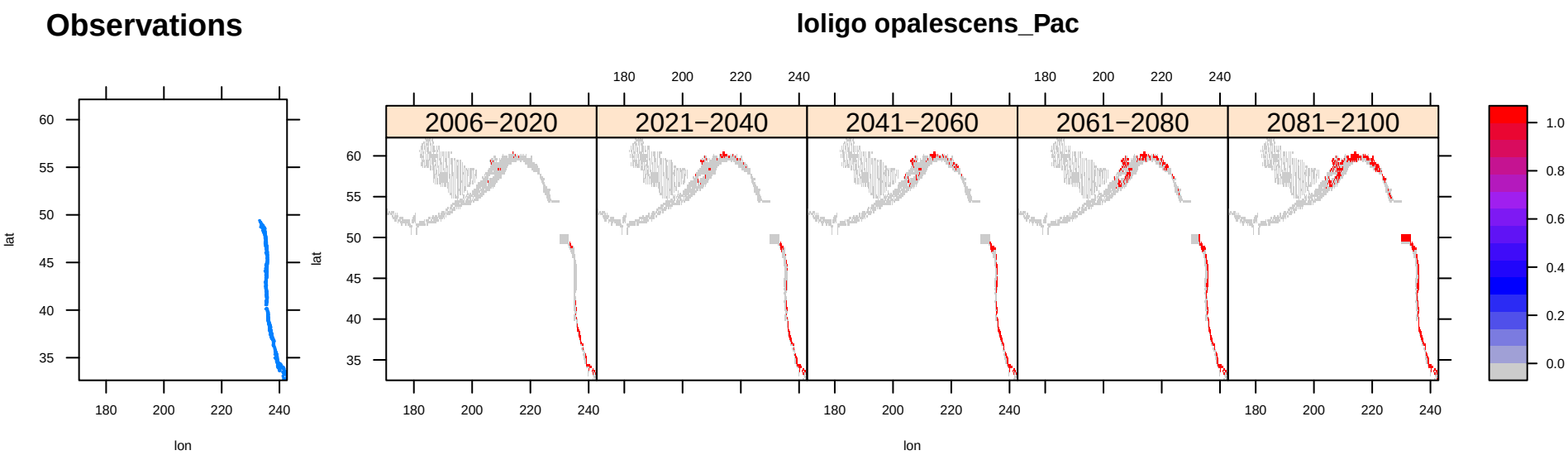
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loligo opalescens_Pac
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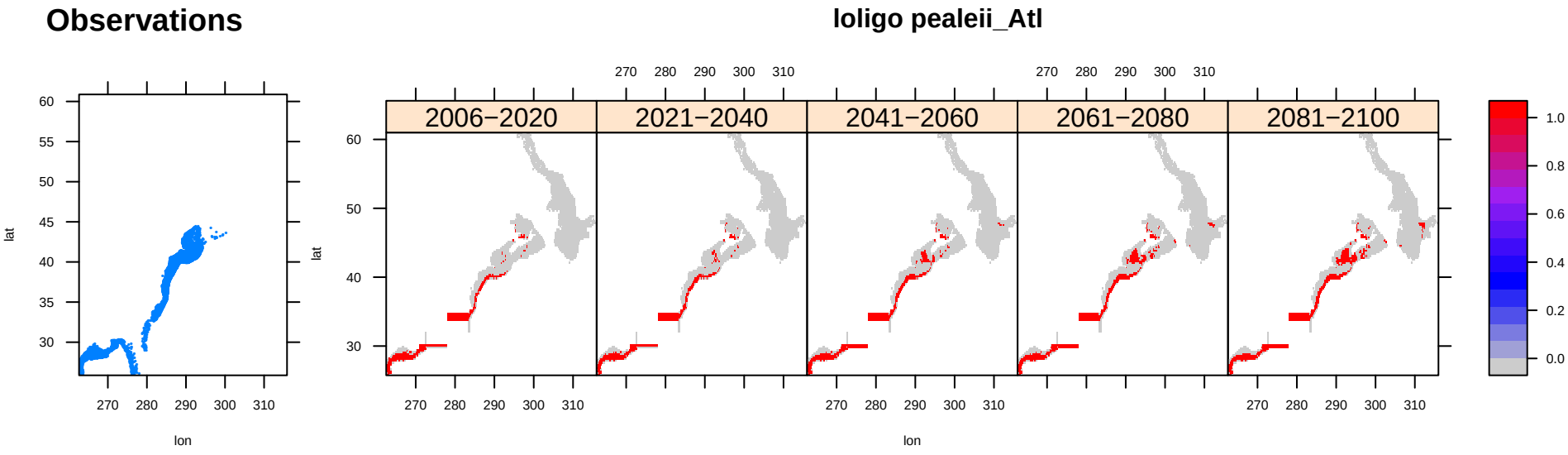
Observations
loligo pealeii_Atl
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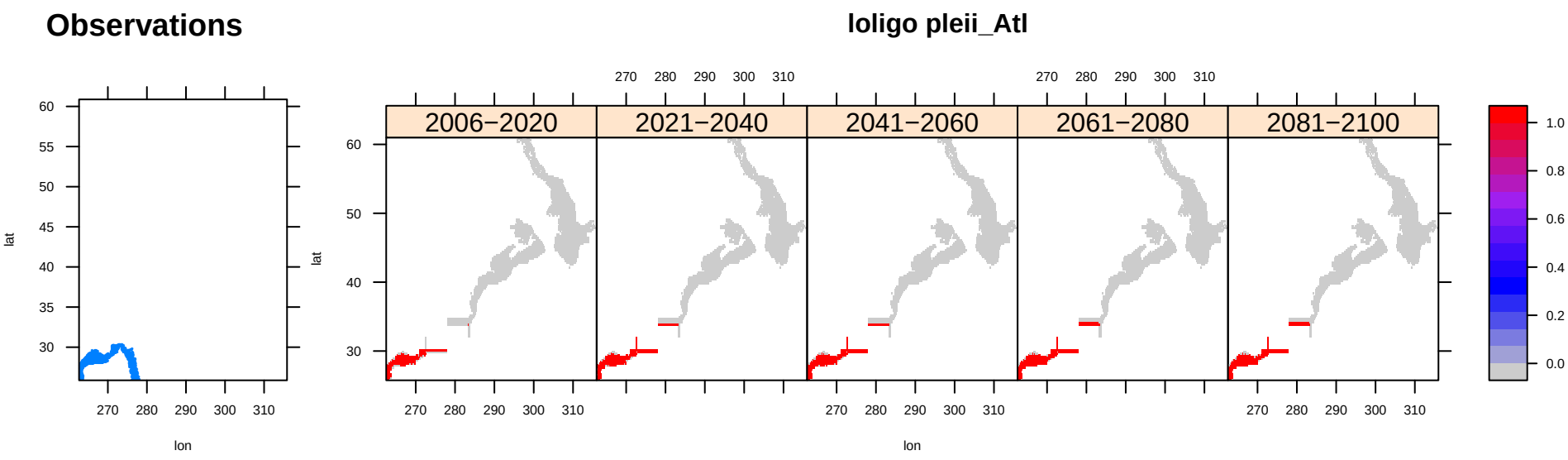
Observations
loligo pleii_Atl
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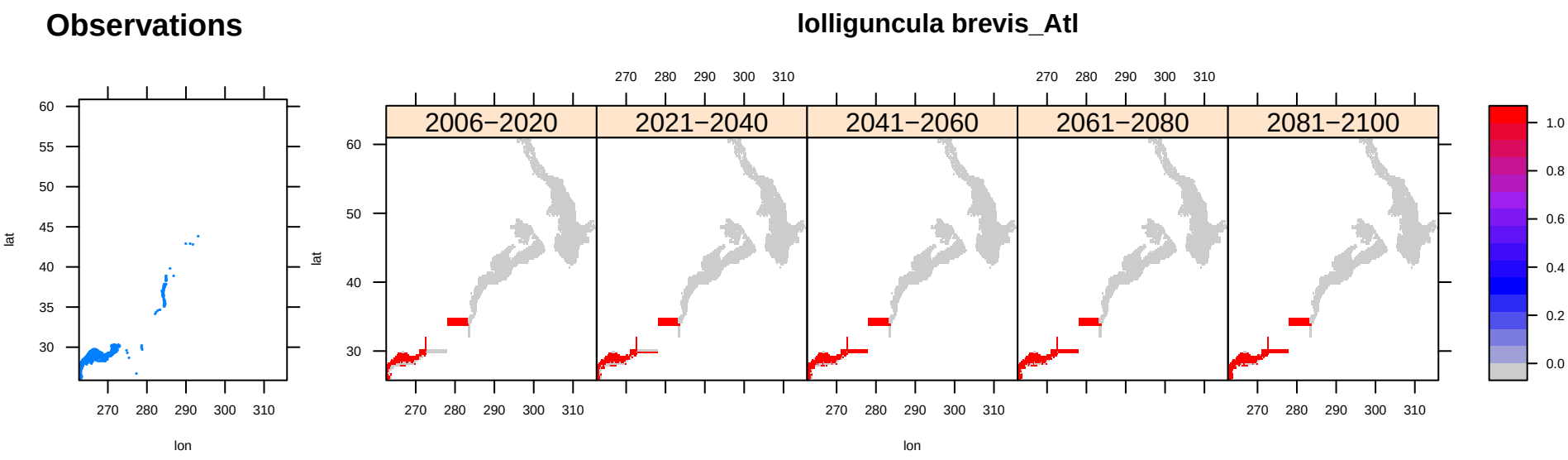
Observations
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lolliguncula brevis_Atl
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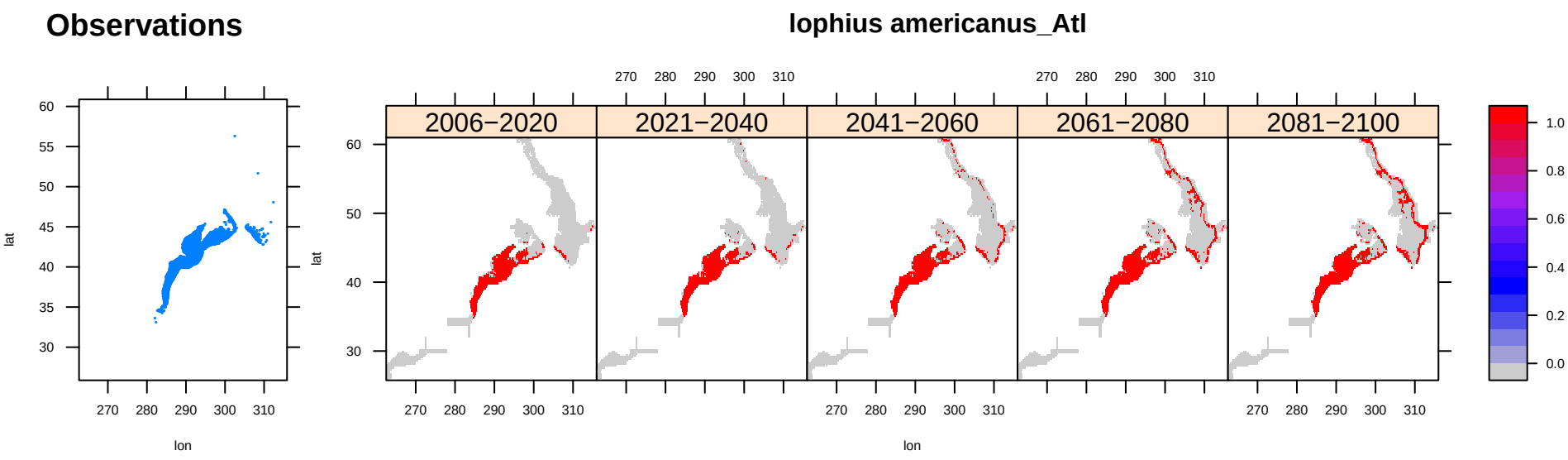
Observations
lophius americanus_Atl
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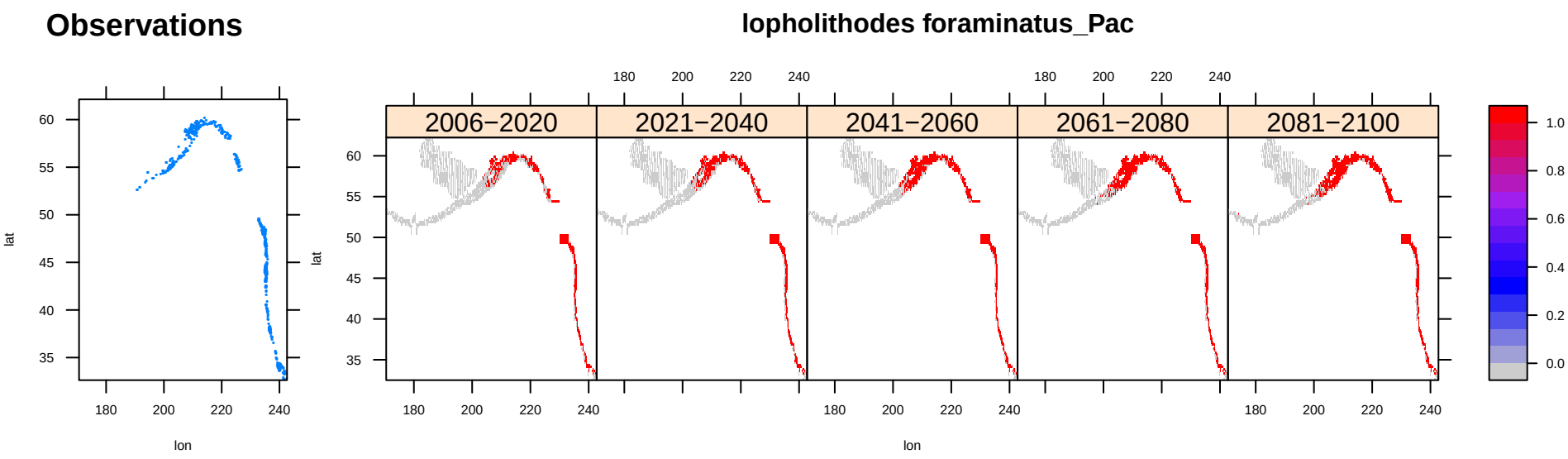
Observations
Iopholithodes foraminatus_Pac
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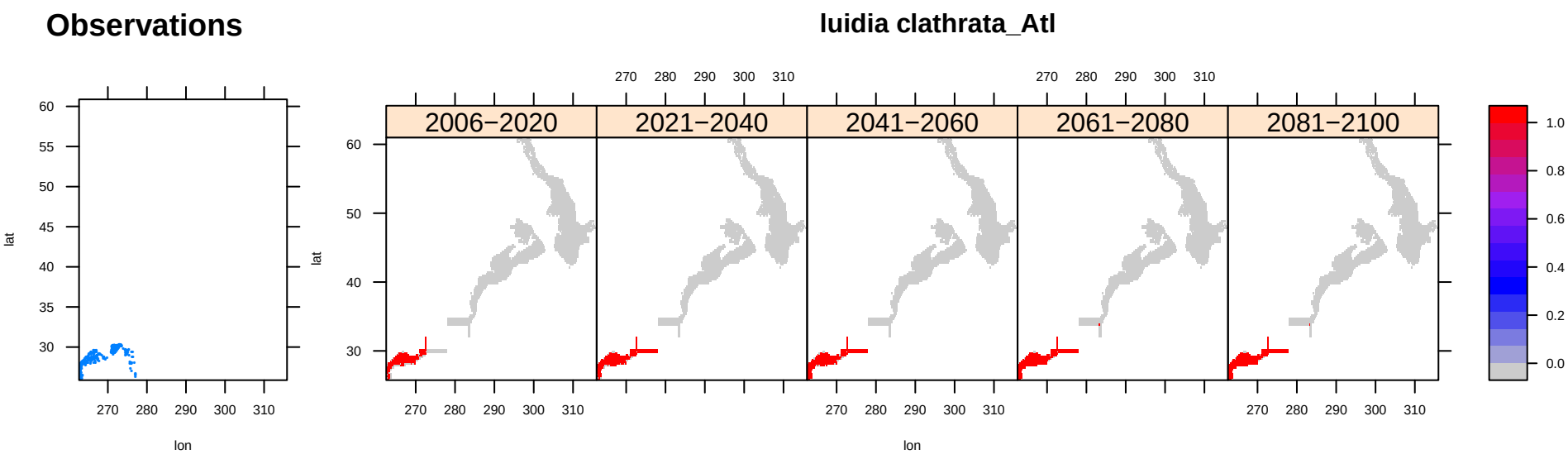
Observations
luidia clathrata_Atl
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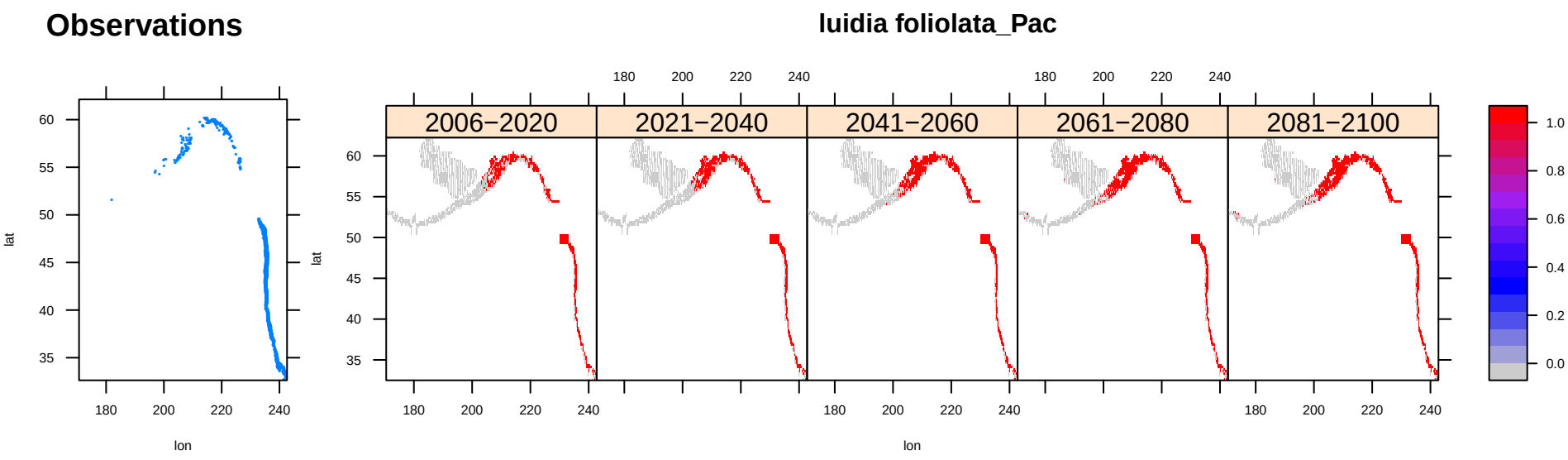
Observations
luidia foliolata_Pac
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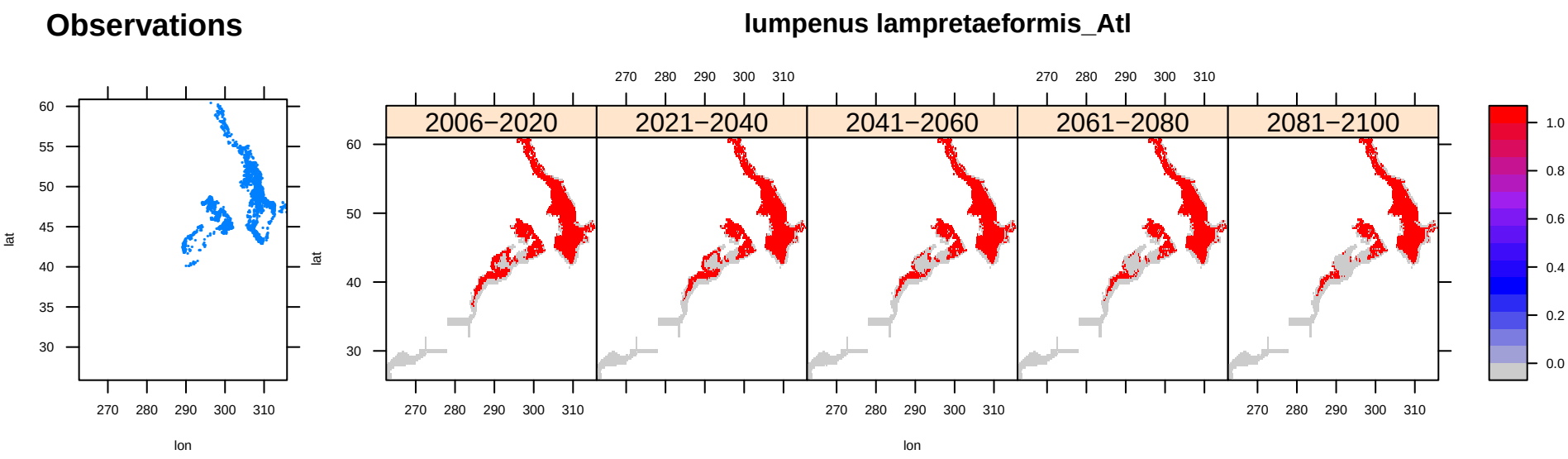
Observations
lumpenus lampretaeformis_Atl
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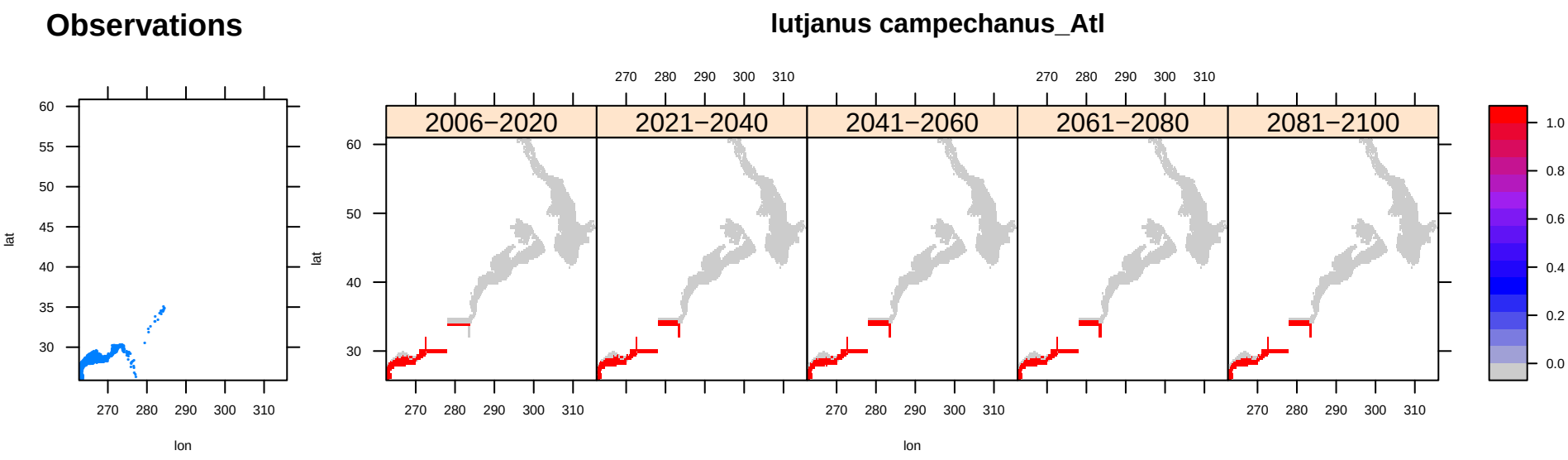
Observations
lutjanus campechanus_Atl
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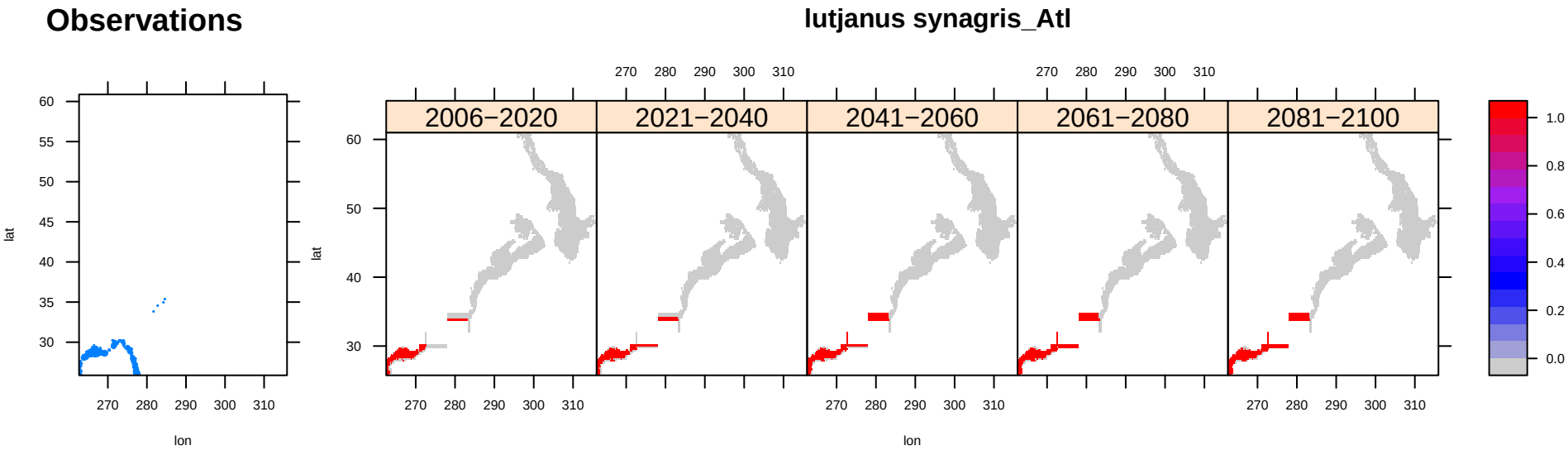
Observations
lutjanus synagris_Atl
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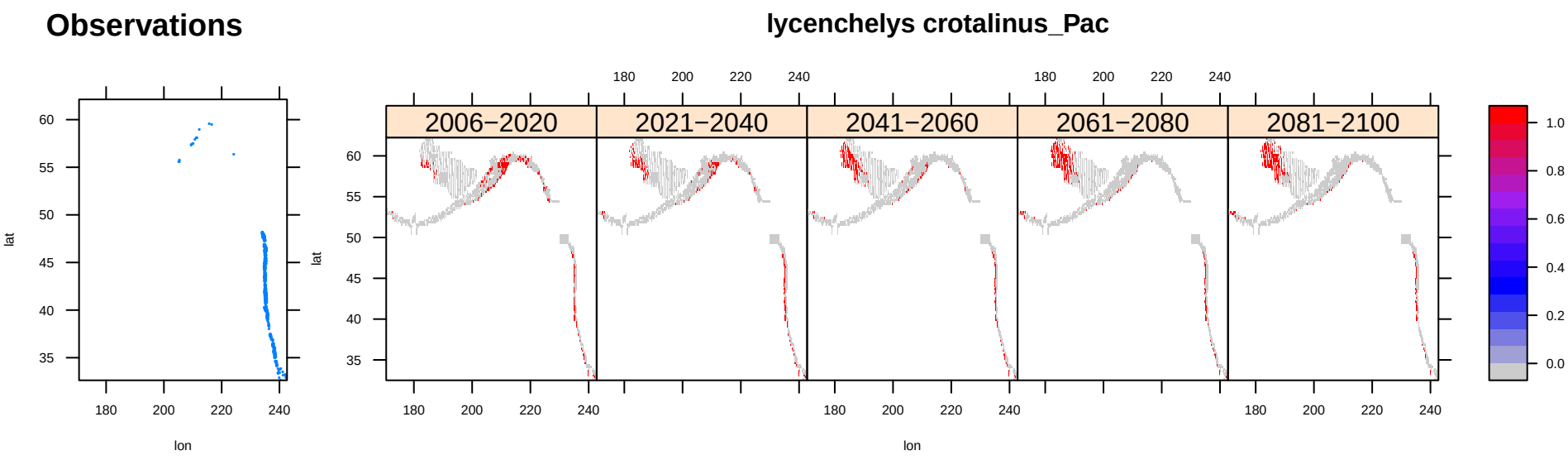
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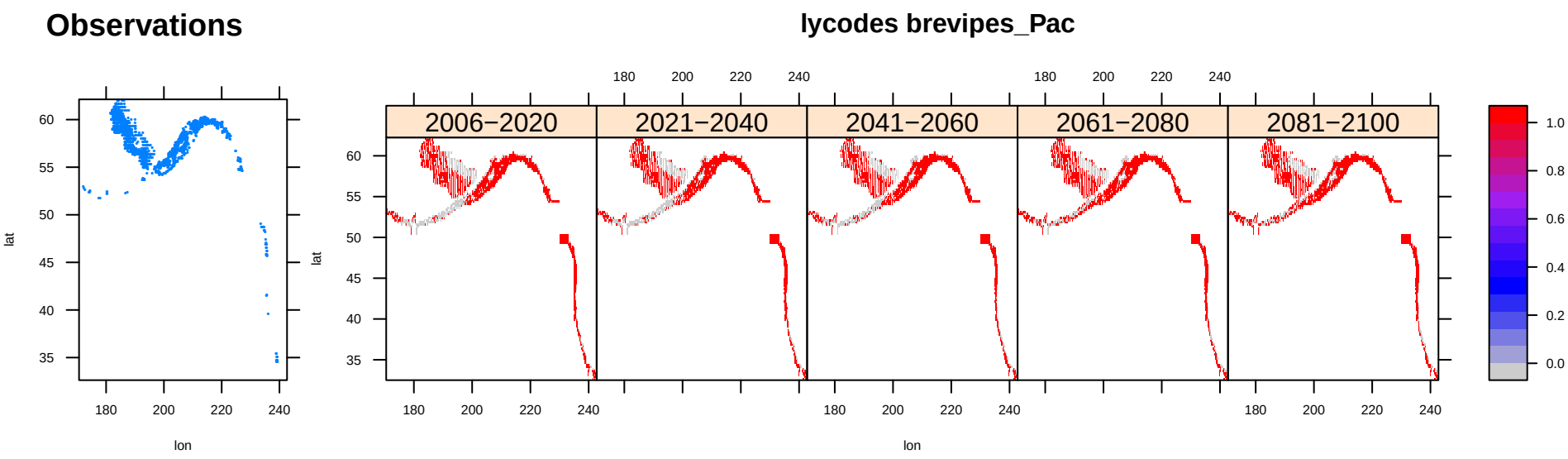
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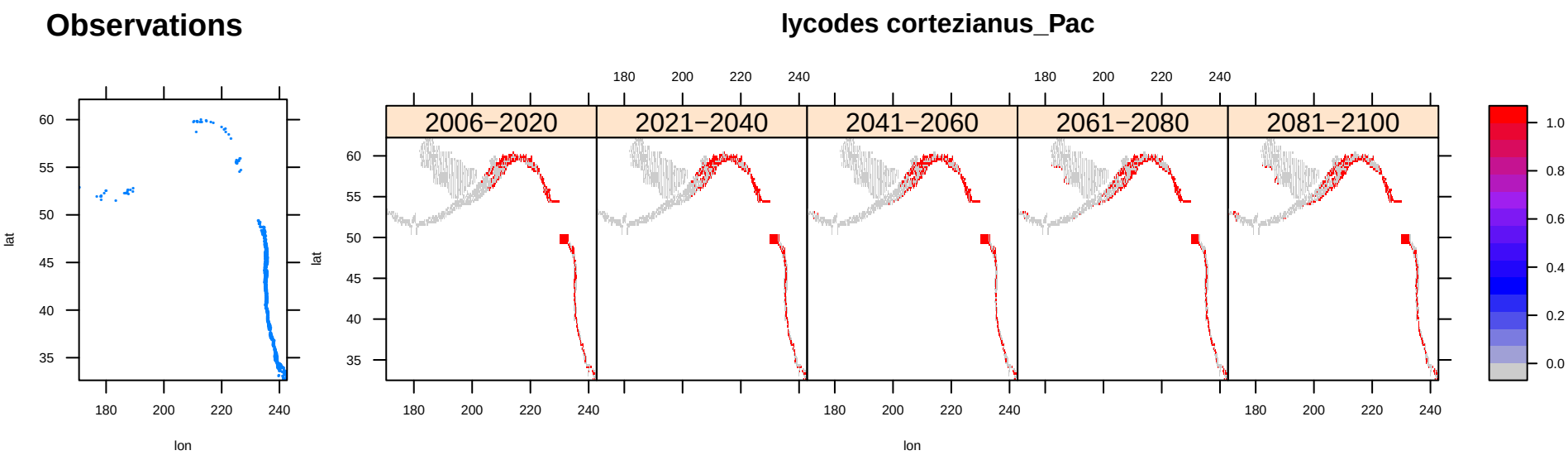
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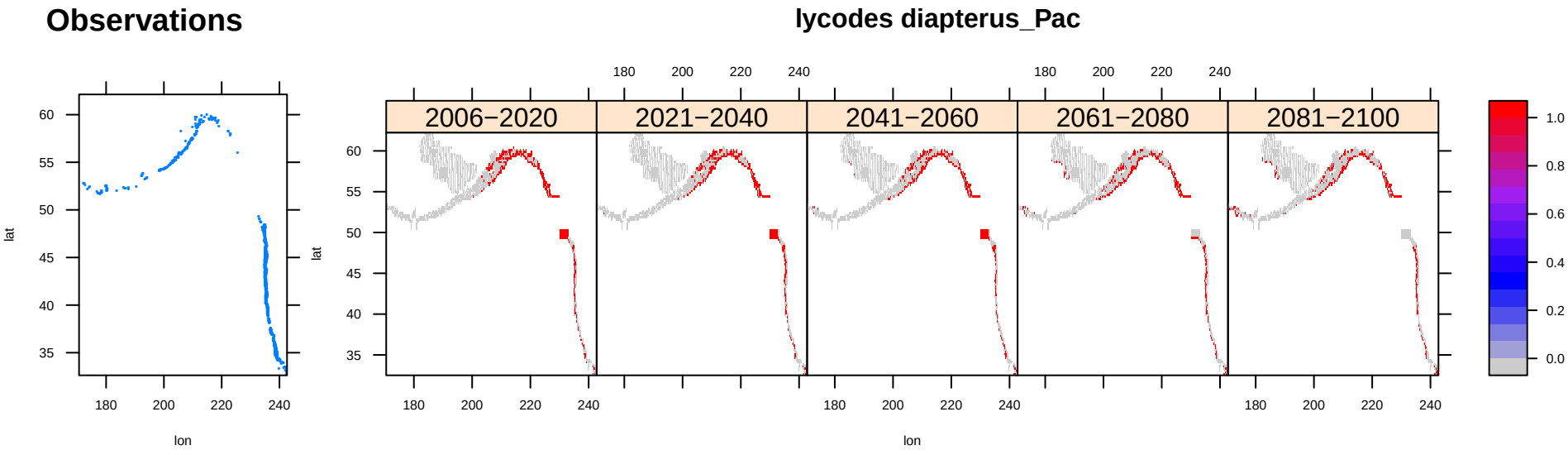
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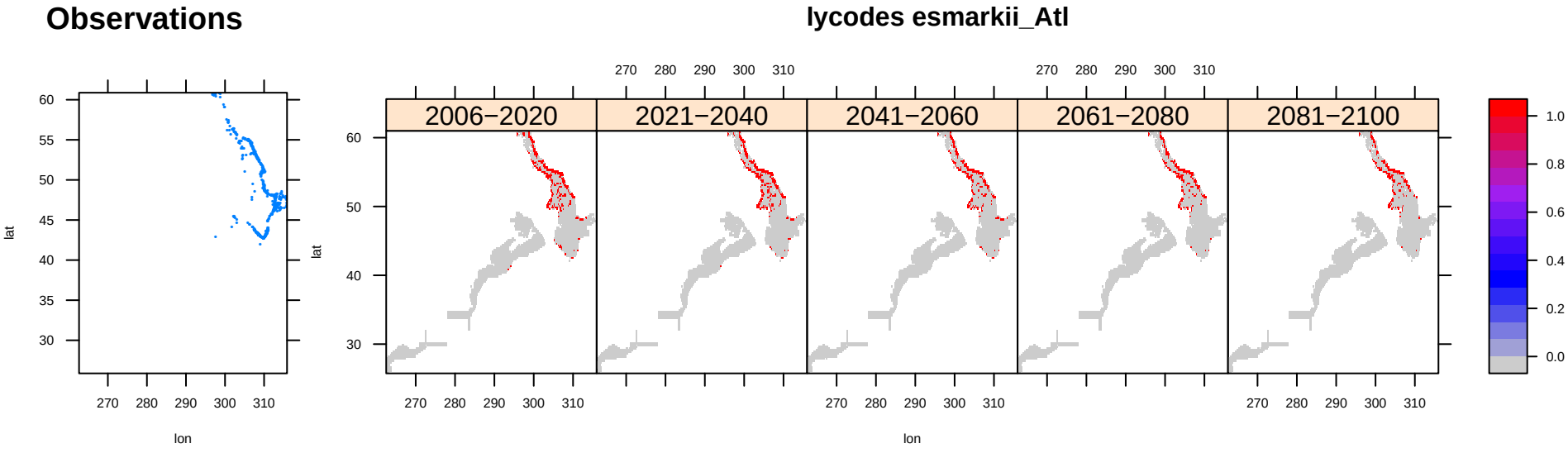
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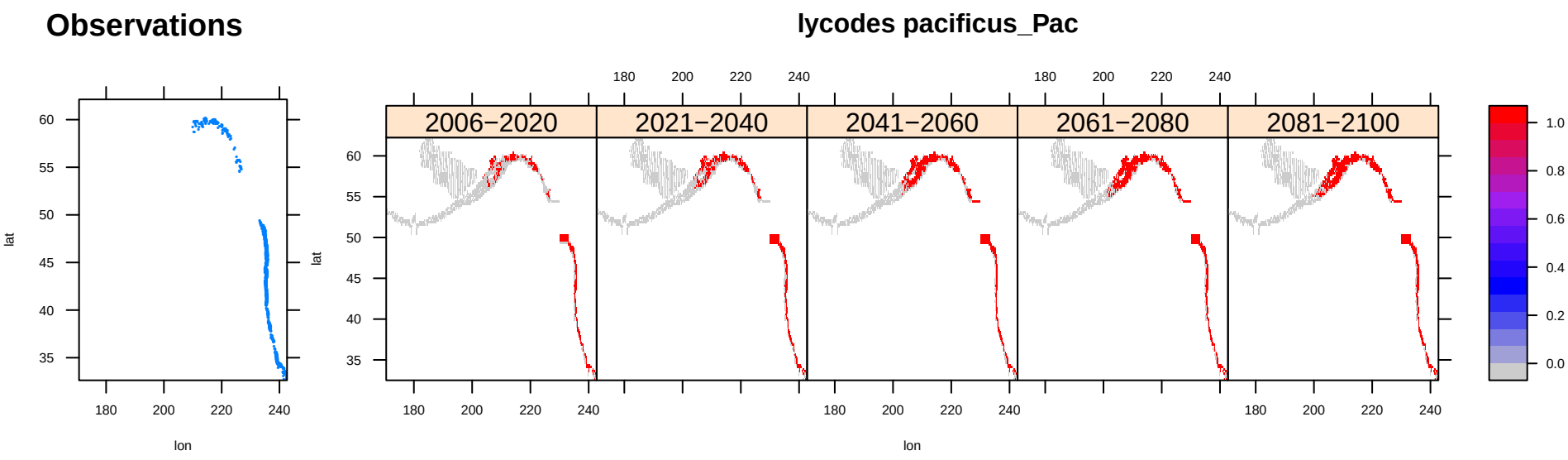
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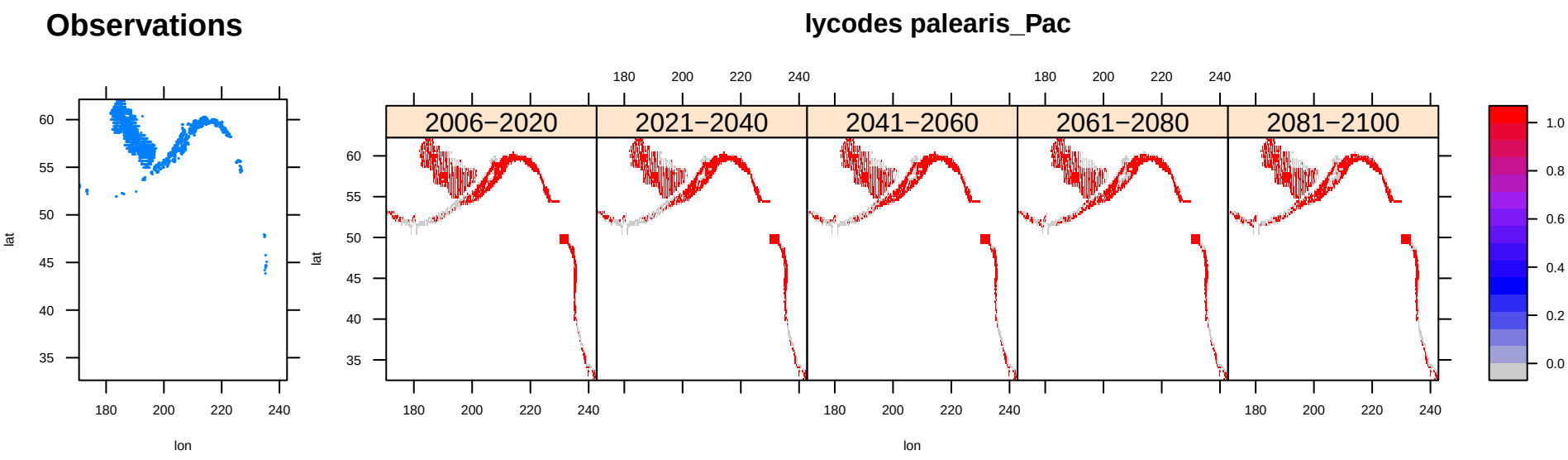
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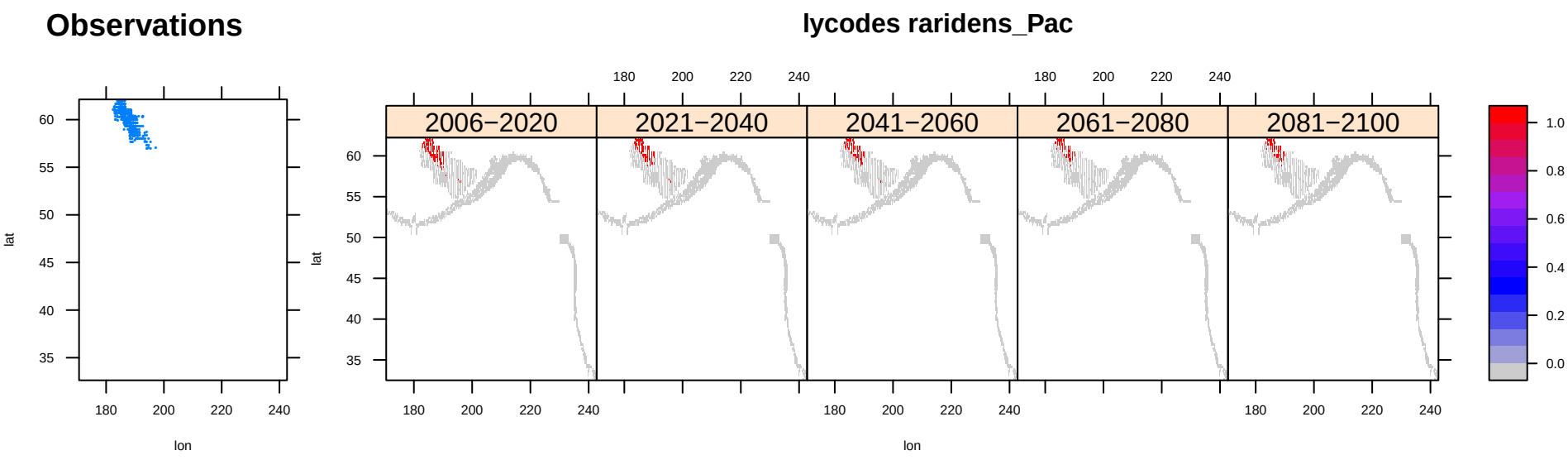
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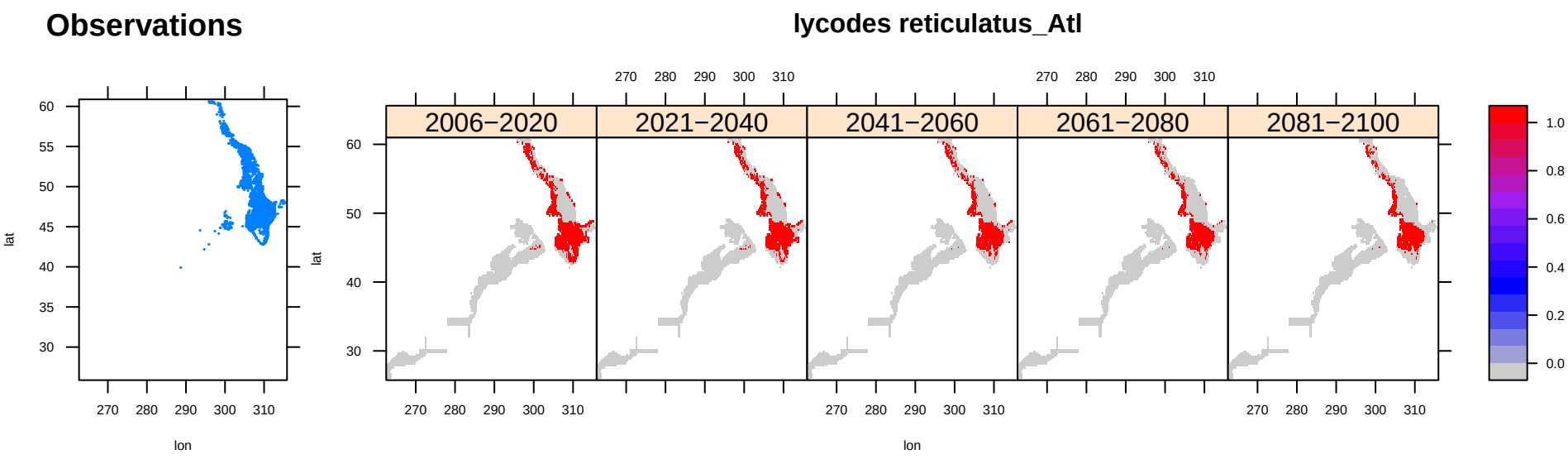
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lycodes reticulatus_Atl
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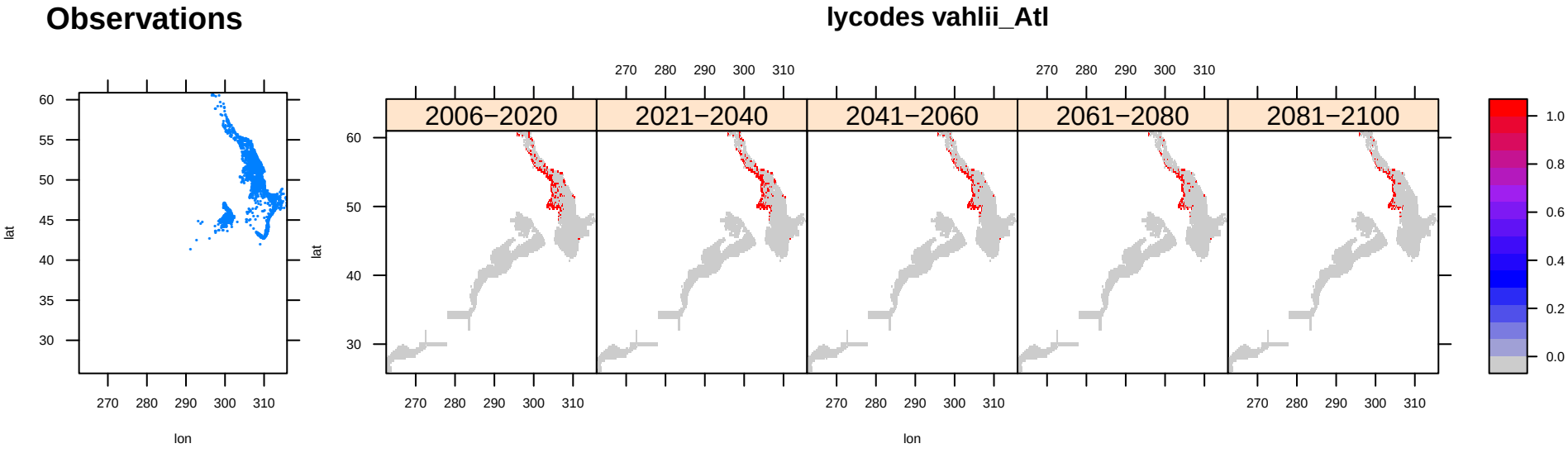
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lycodes vahlii_Atl
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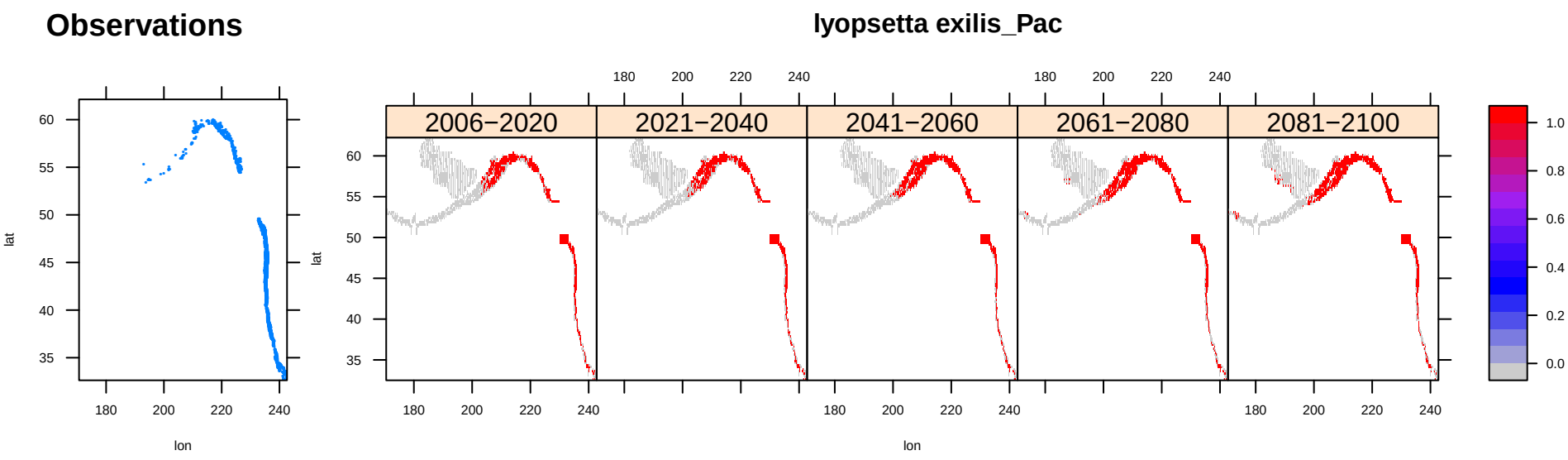
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lyopsetta exilis_Pac
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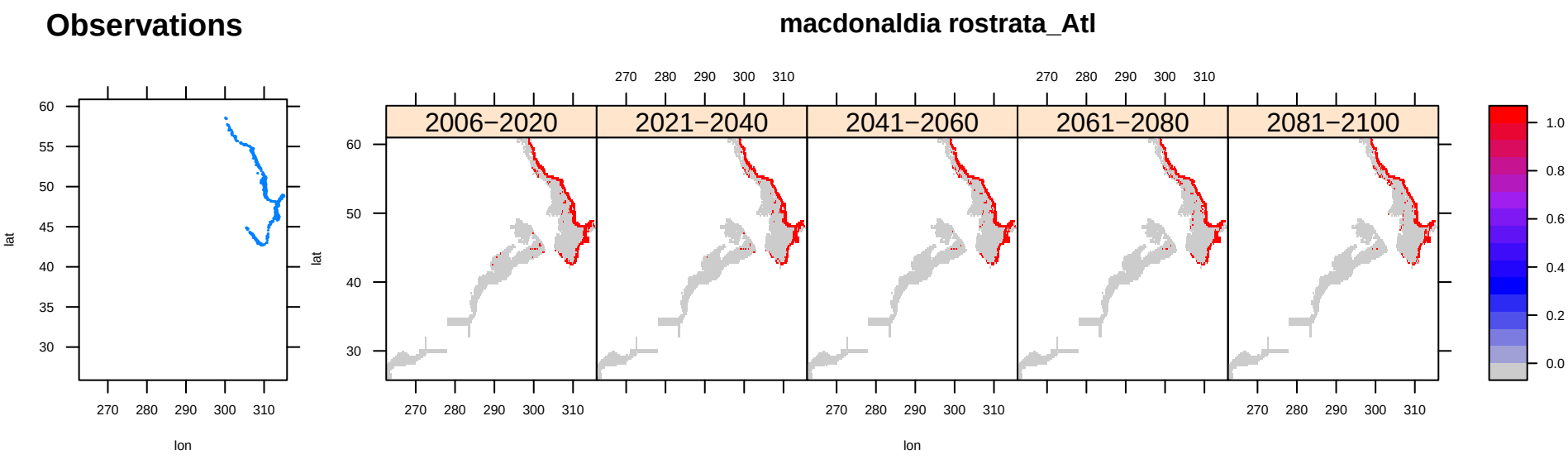
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macdonaldia rostrata_Atl
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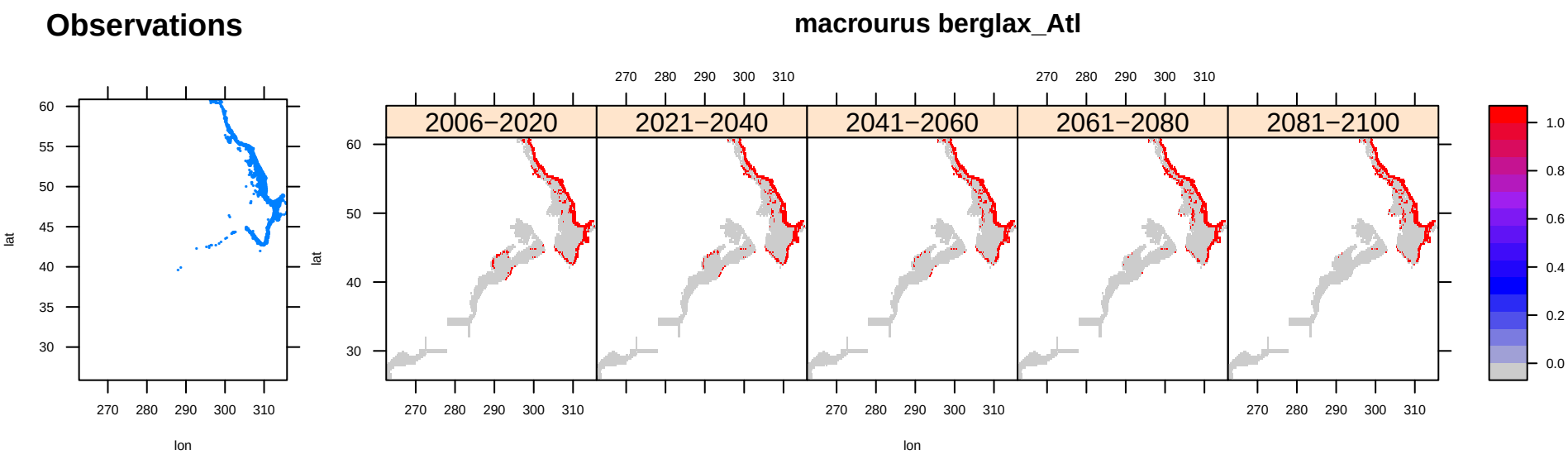
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macrourus berglax_Atl
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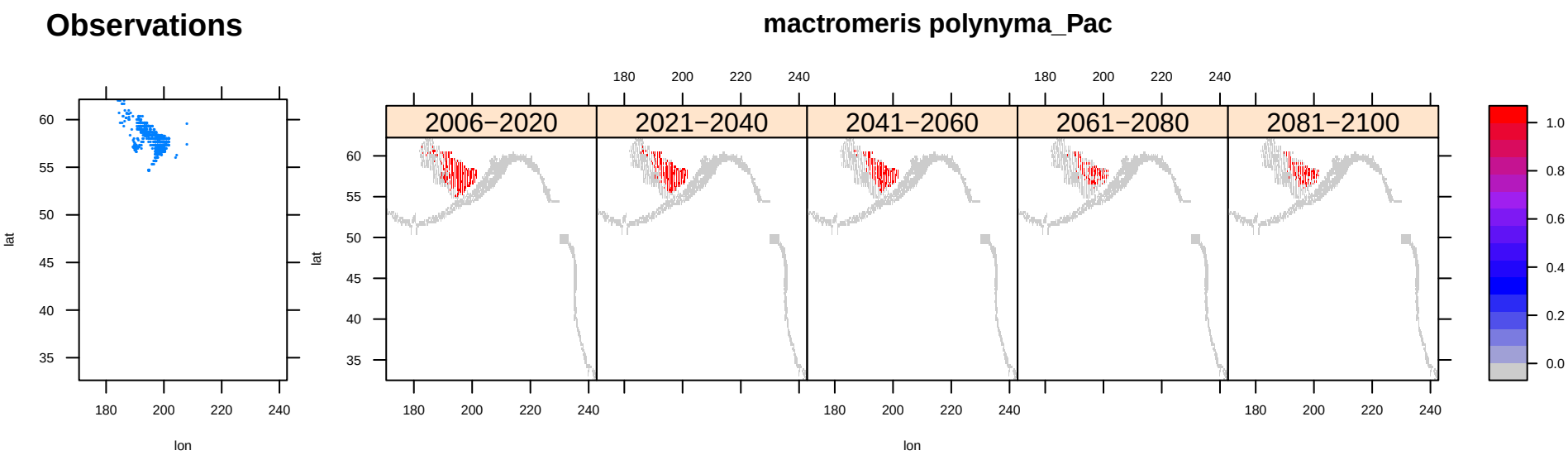
Observations
mactromeris polynyma_Pac
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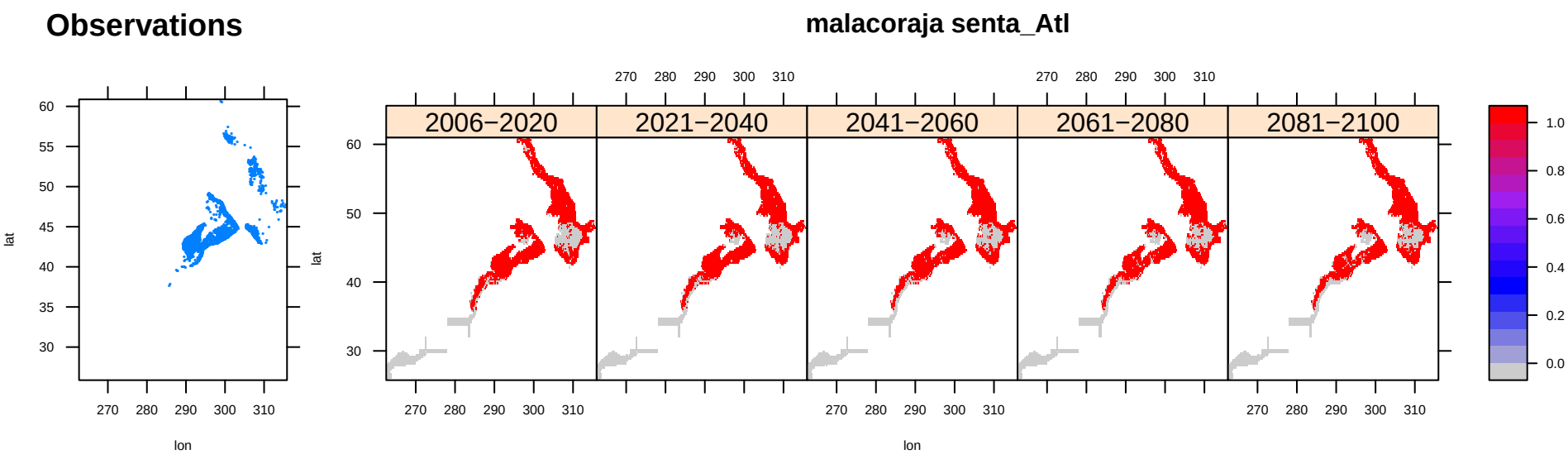
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malacoraja senta_Atl
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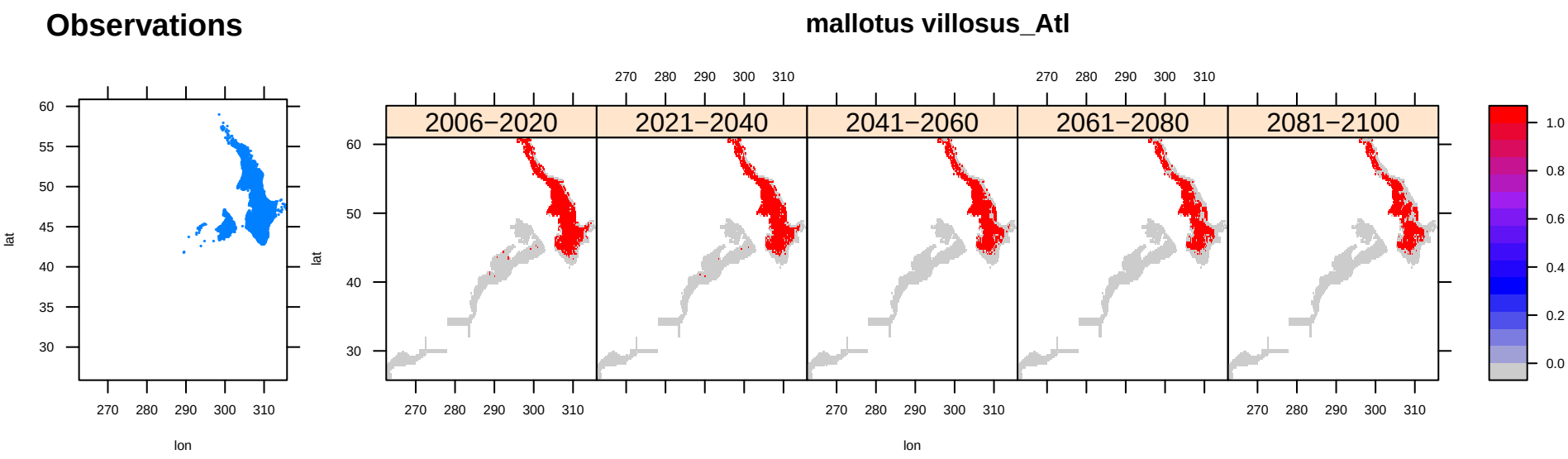
Observations
mallotus villosus_Atl
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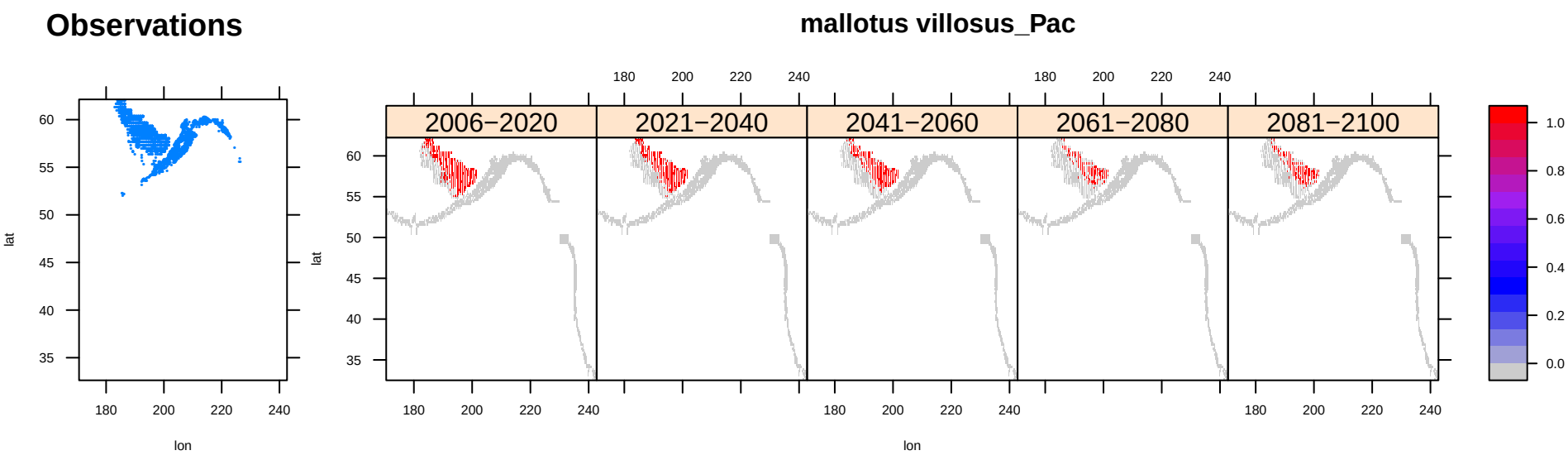
Observations
mallotus villosus_Pac
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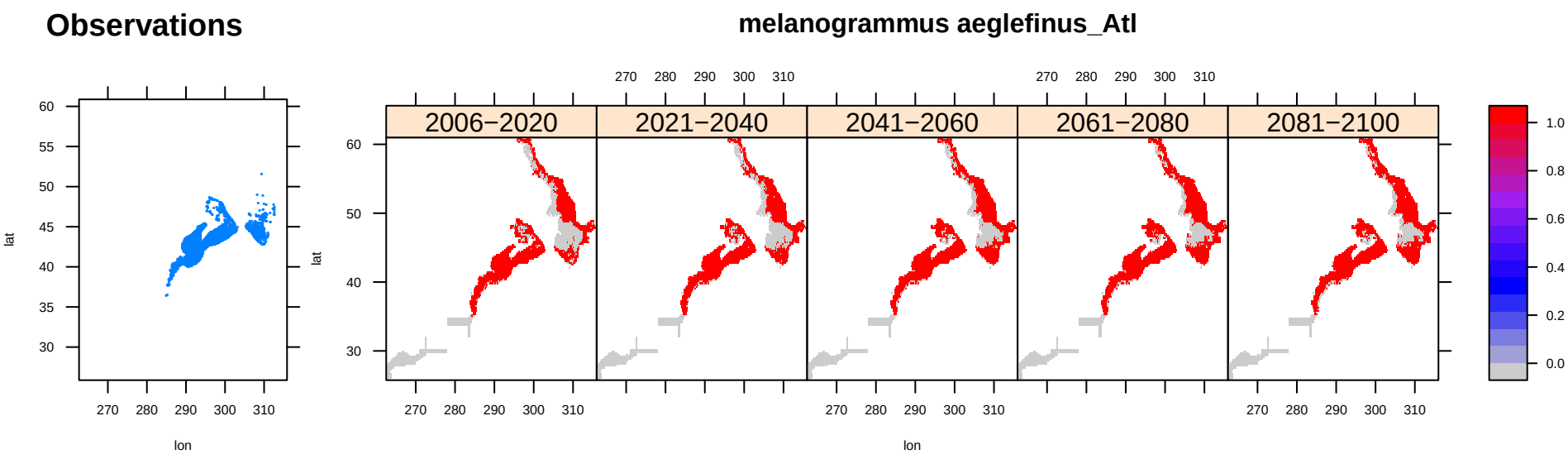
Observations
melanogrammus aeglefinus_Atl
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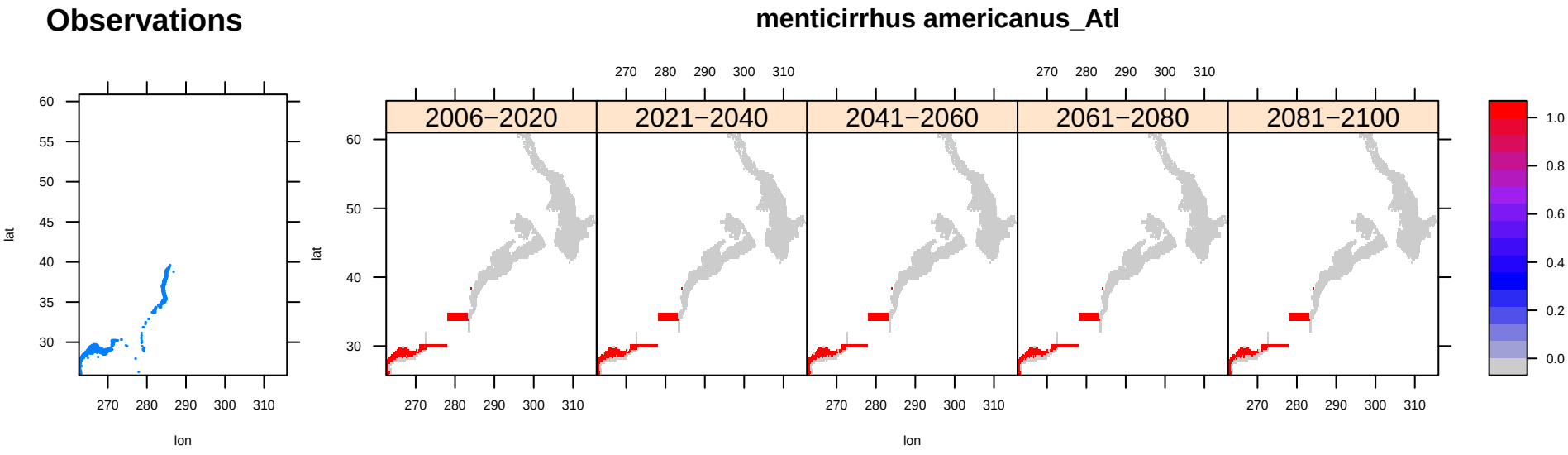
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menticirrhus americanus_Atl
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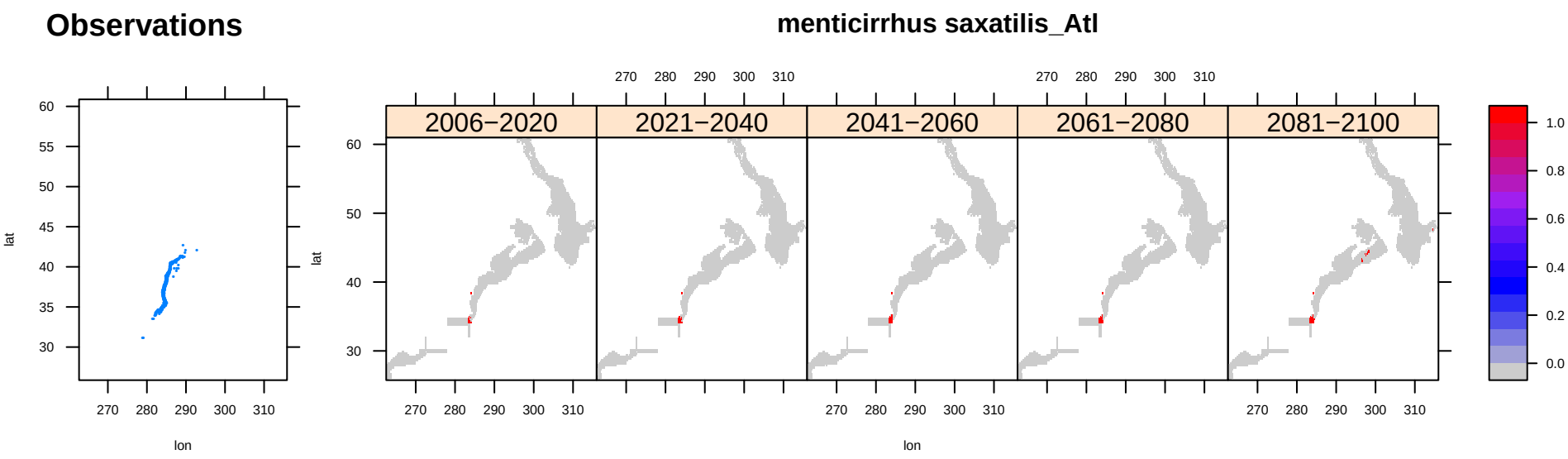
Observations
menticirrhus saxatilis_Atl
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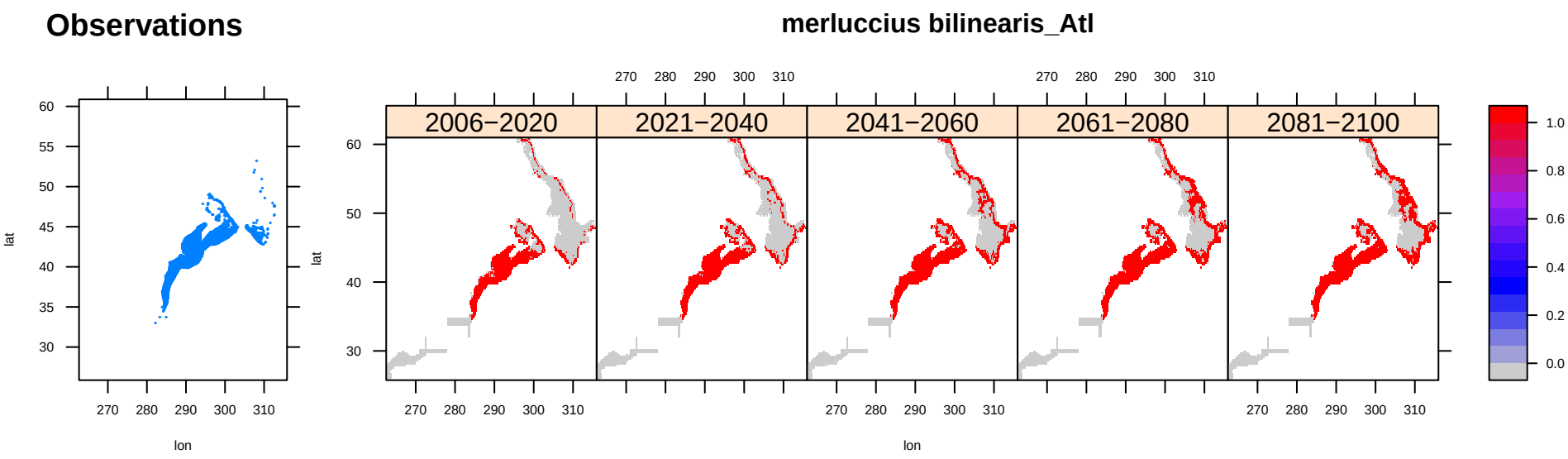
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merluccius bilinearis_Atl
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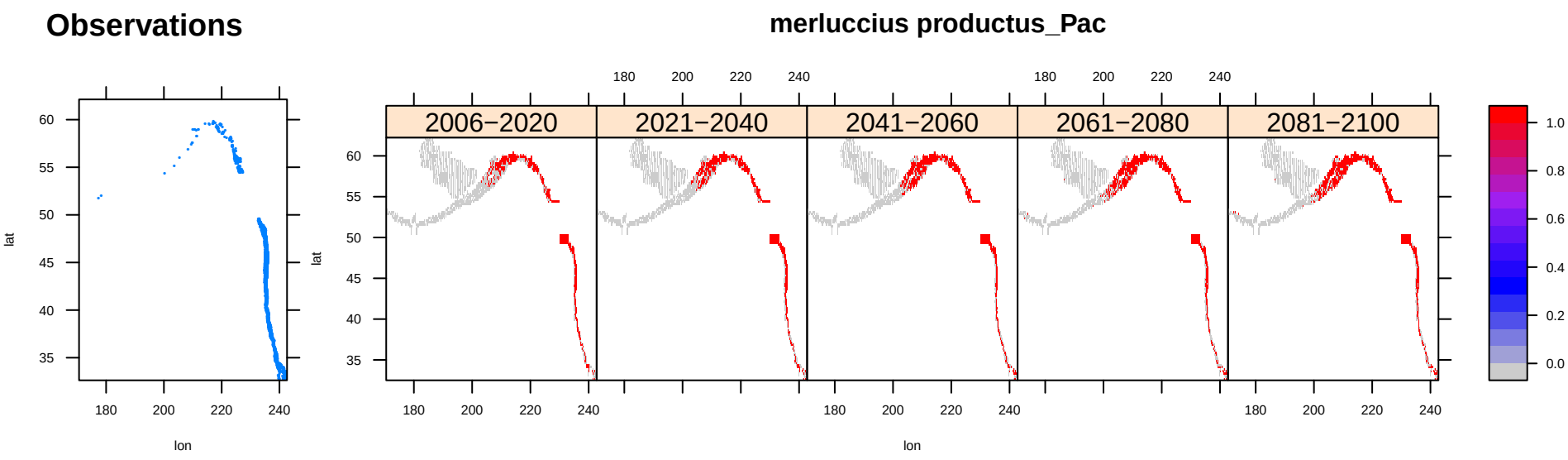
Observations
merluccius productus_Pac
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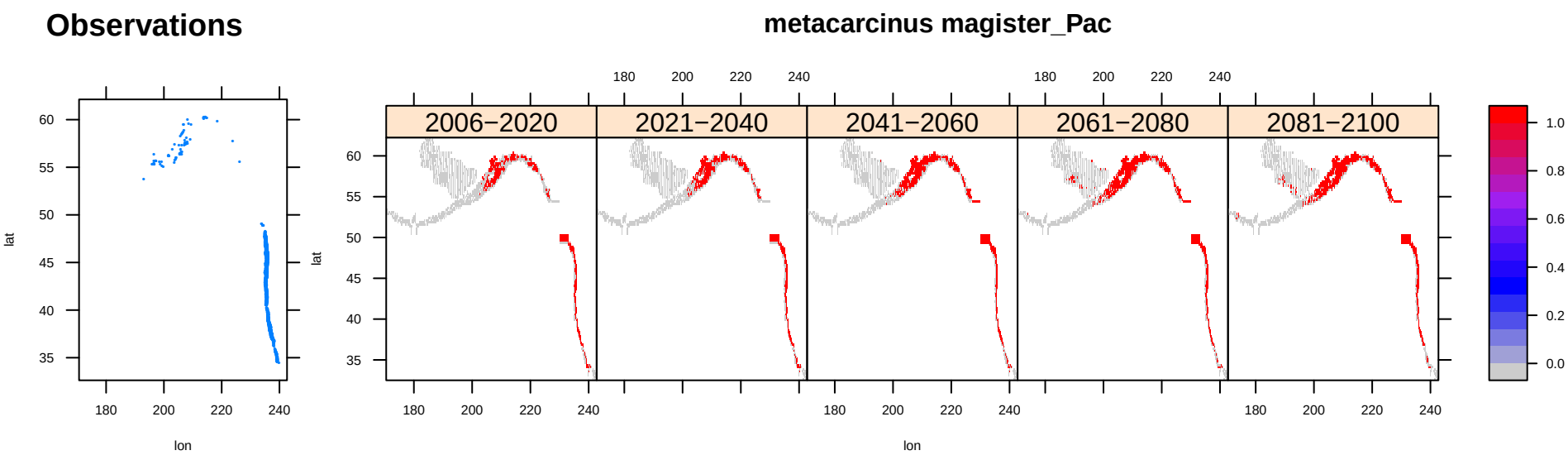
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metacarcinus magister_Pac
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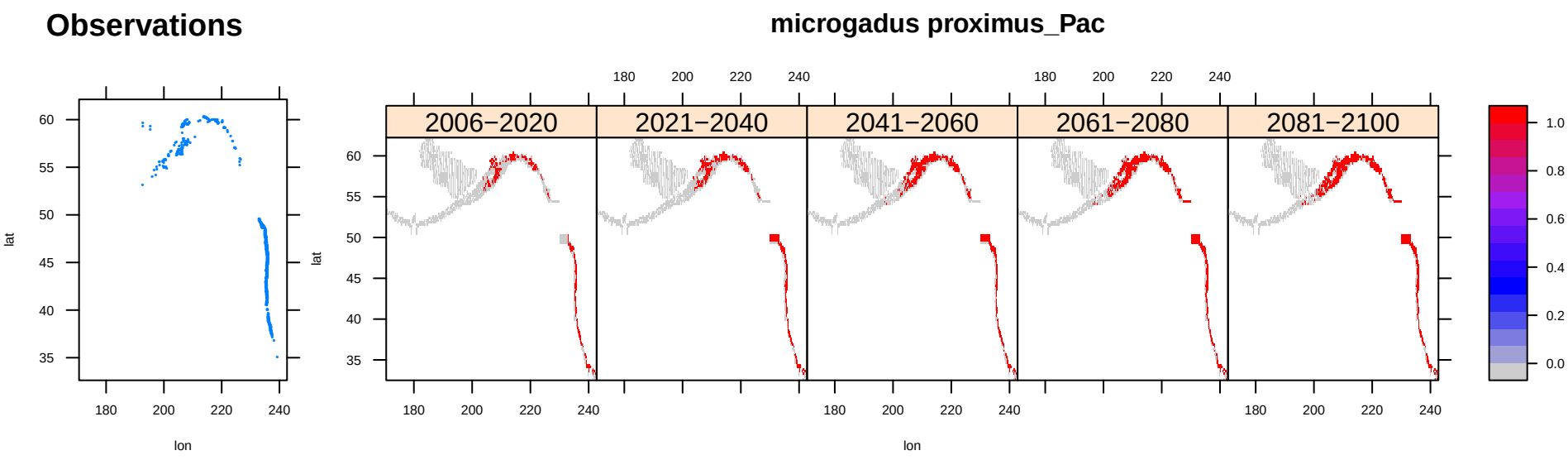
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microgadus proximus_Pac
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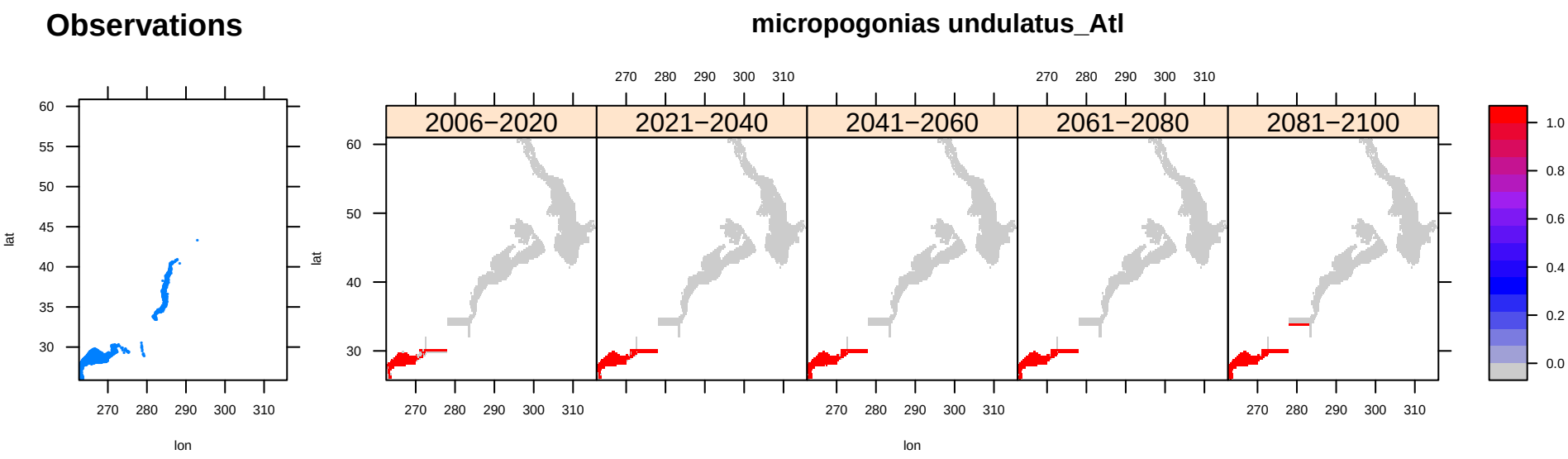
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micropogonias undulatus_Atl
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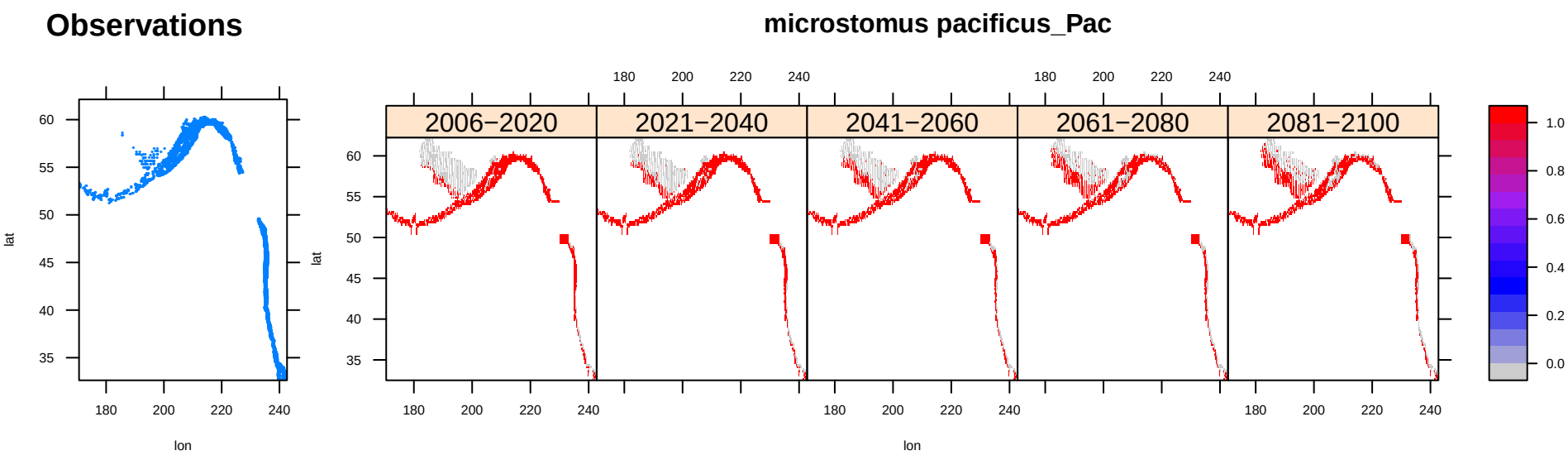
Observations
microstomus pacificus_Pac
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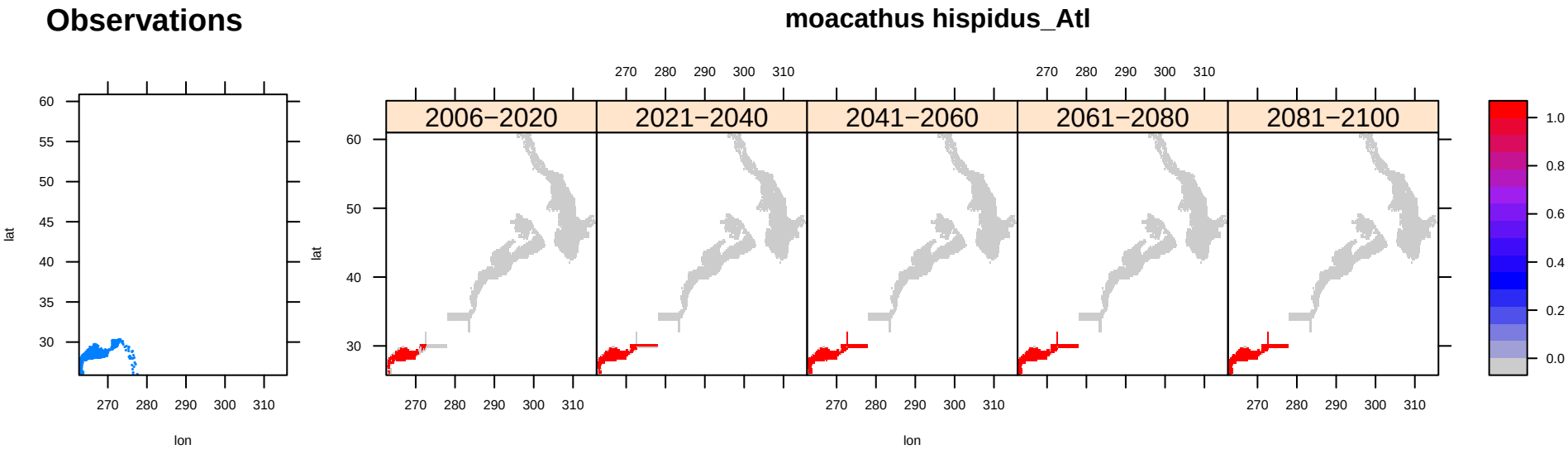
Observations
moacathus hispidus_Atl
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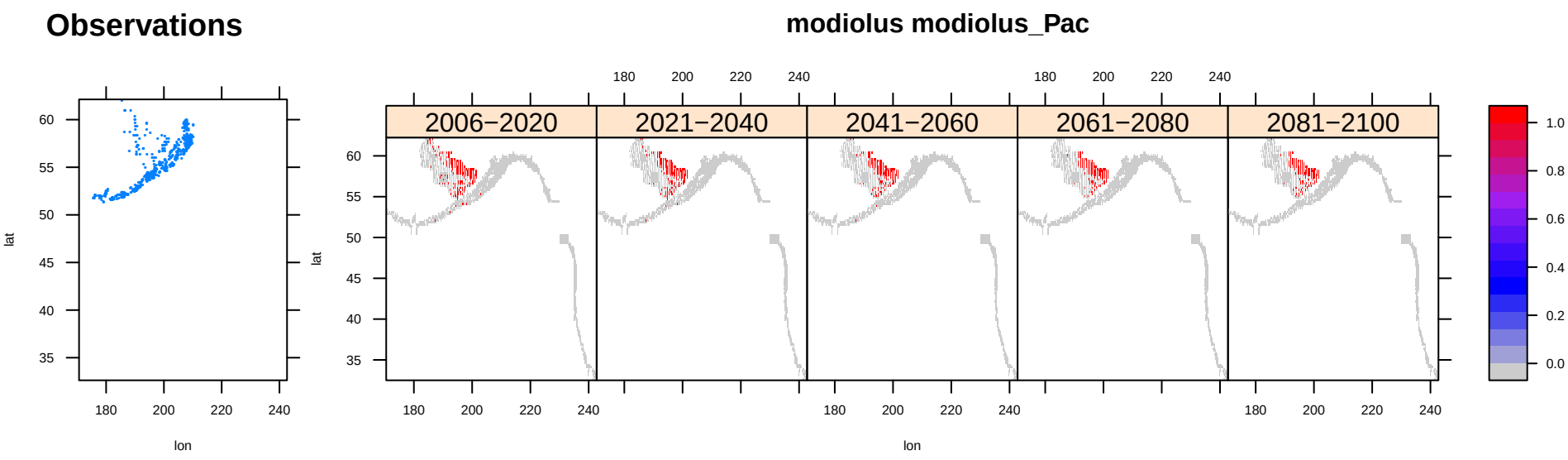
Observations
modiolus modiolus_Pac
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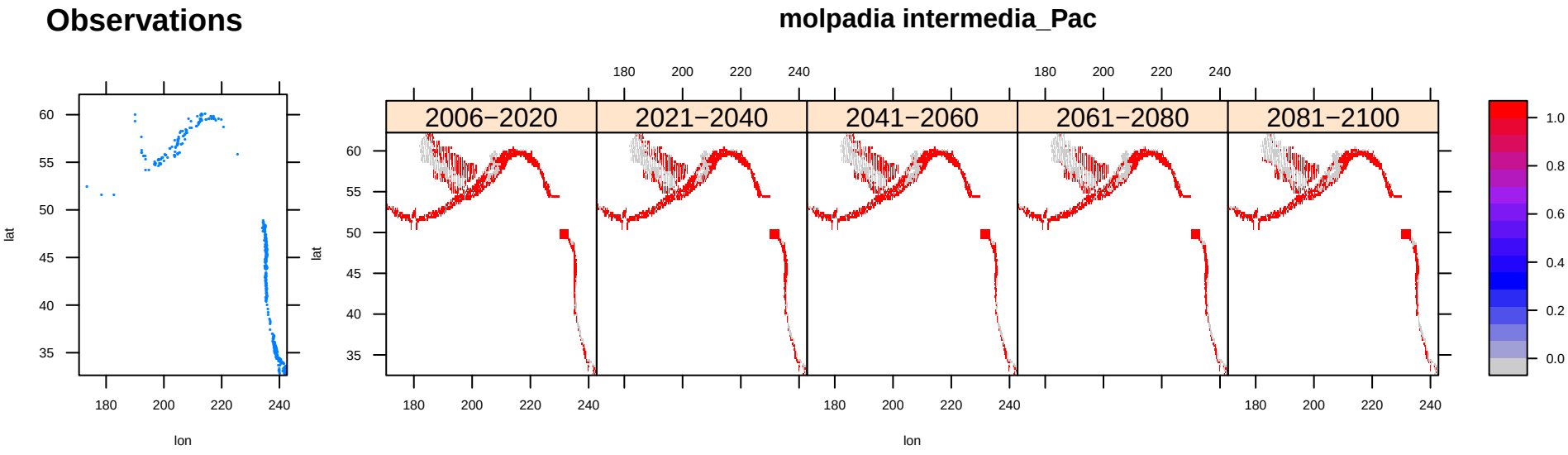
Observations
molpadia intermedia_Pac
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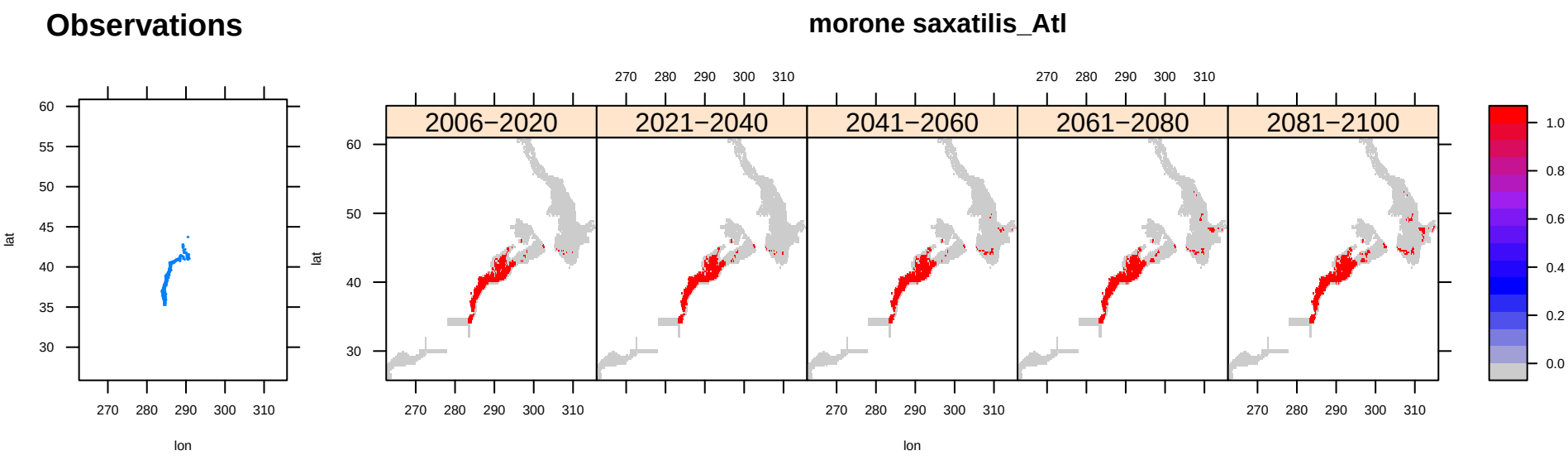
Observations
morone saxatilis_Atl
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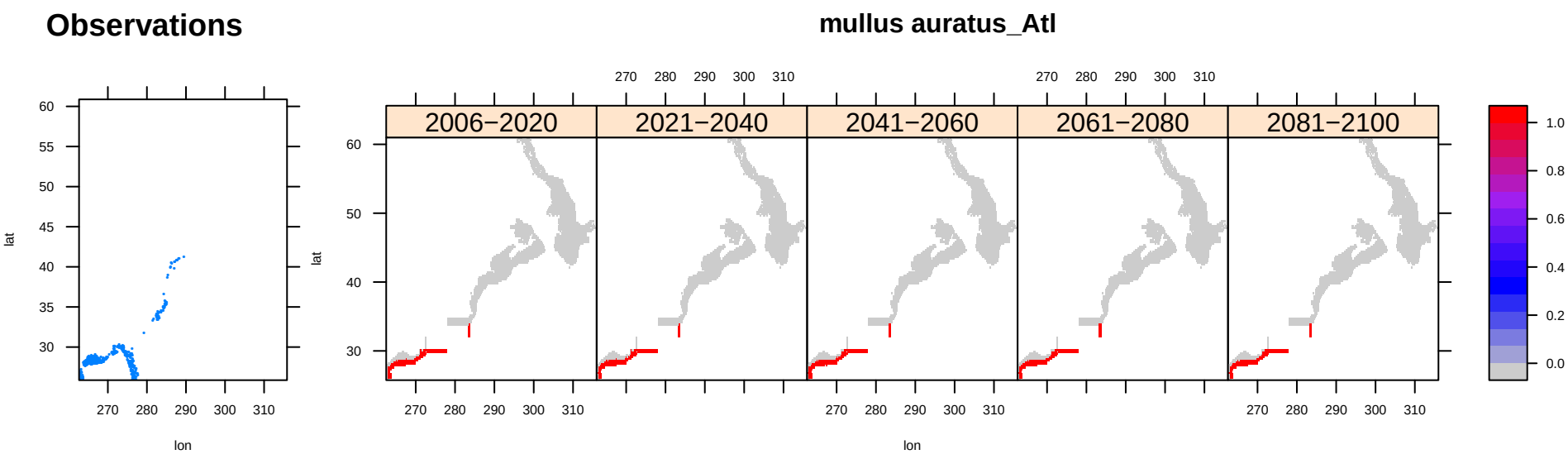
Observations
mullus auratus_Atl
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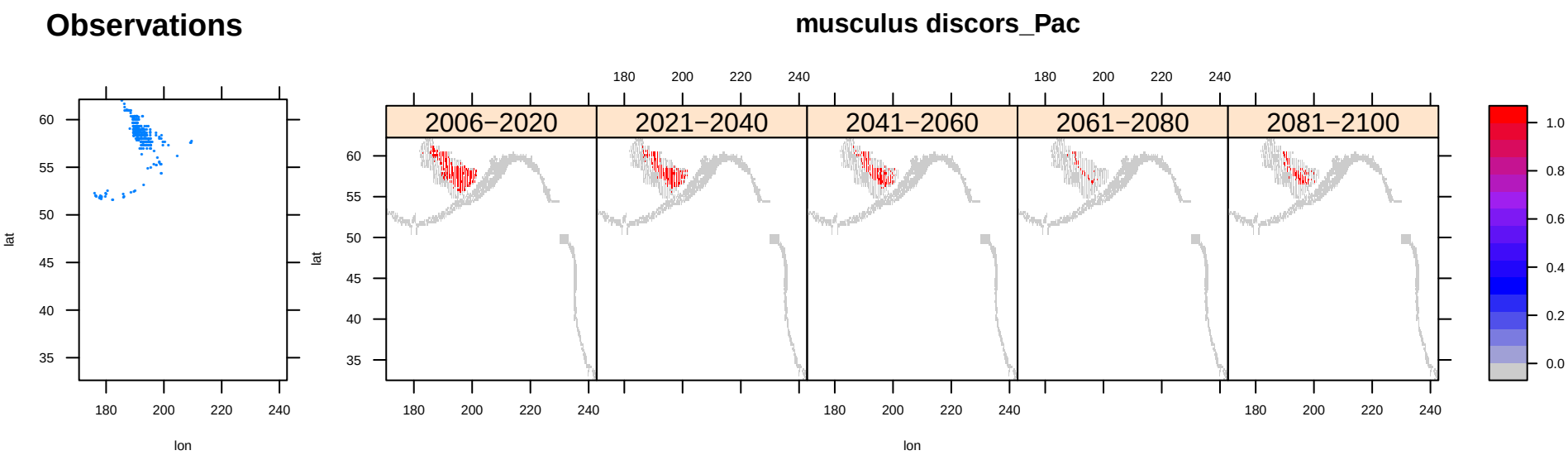
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musculus discors_Pac
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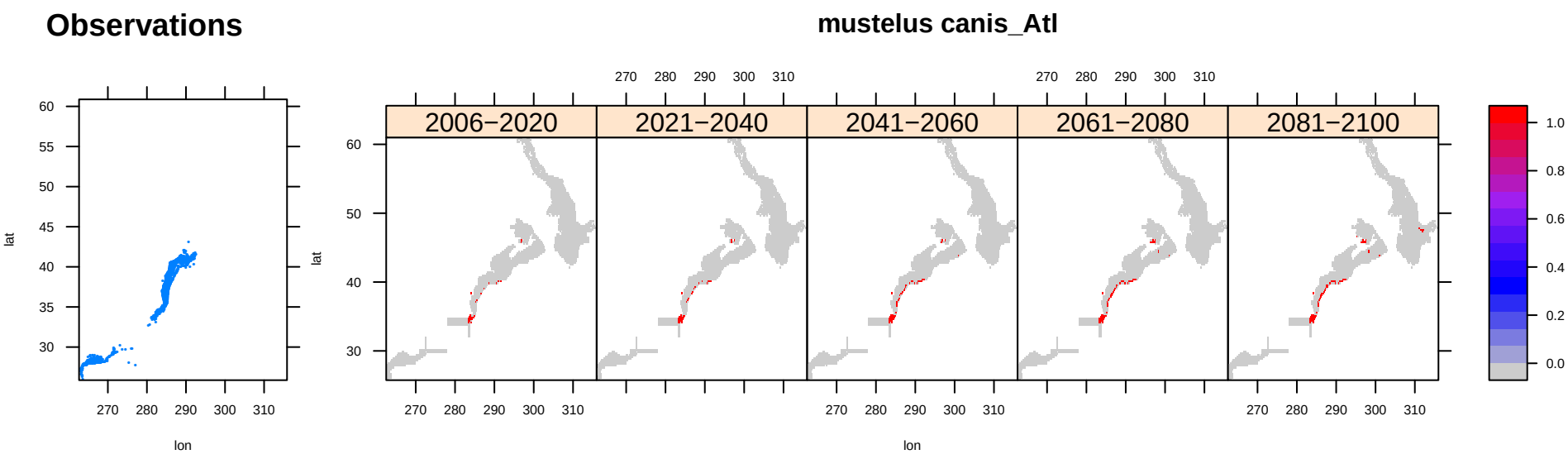
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mustelus canis_Atl
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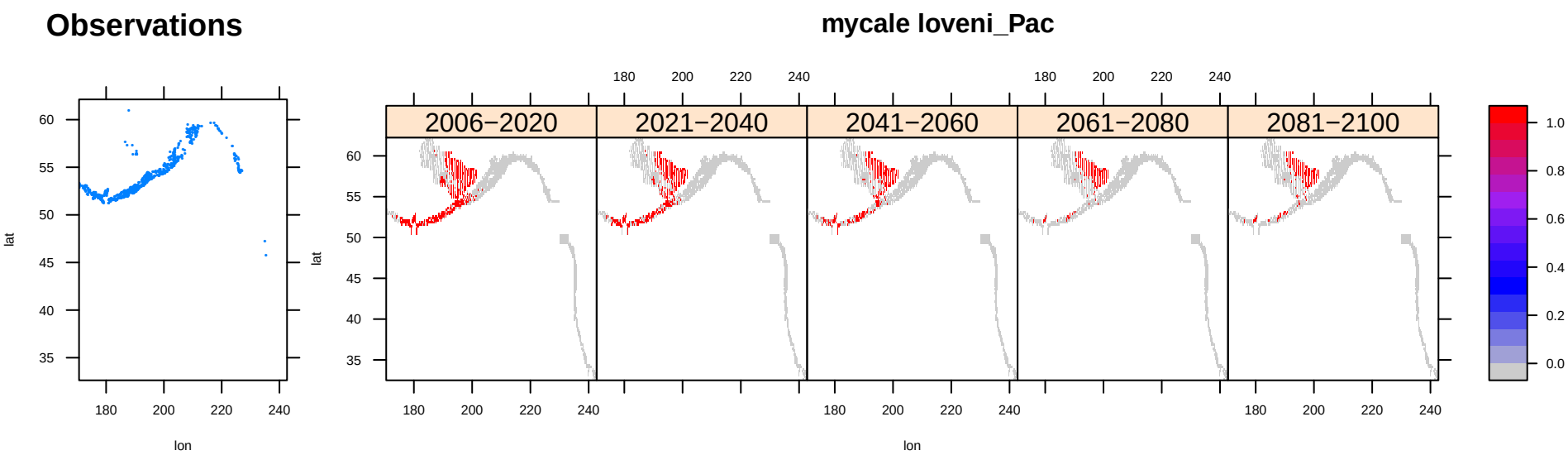
Observations
mycale loveni_Pac
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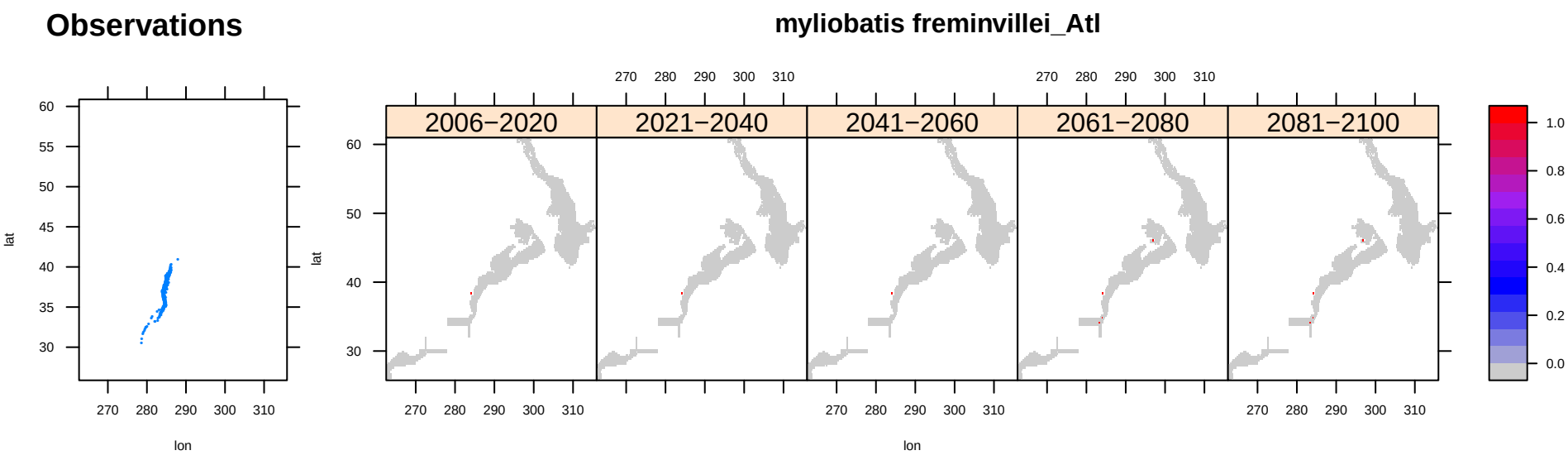
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myliobatis freminvillei_Atl
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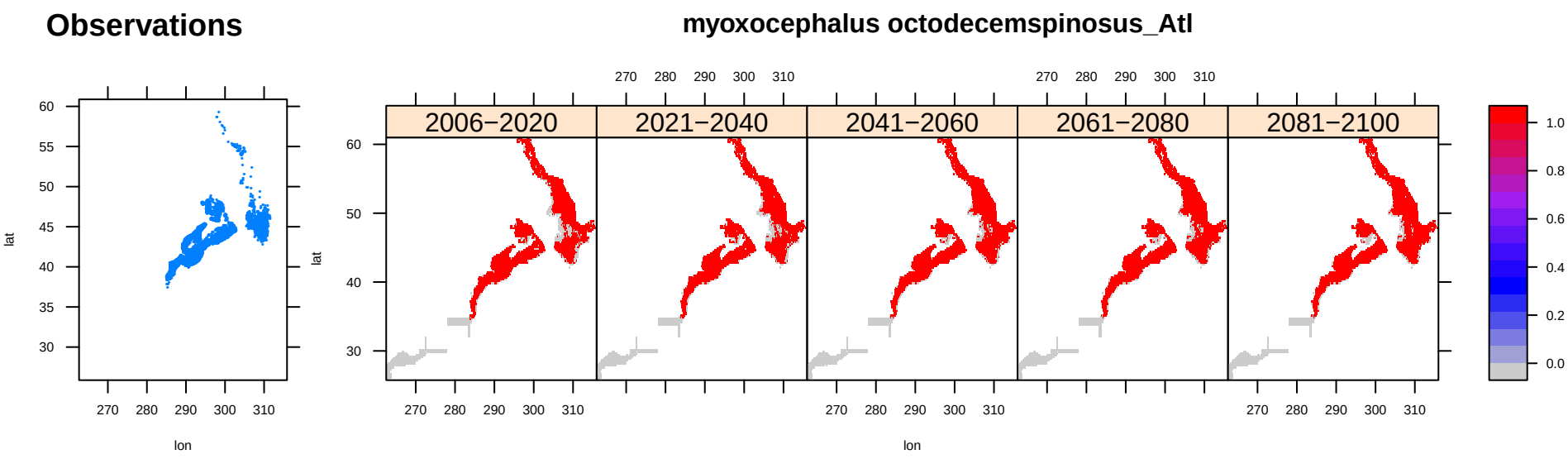
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myoxocephalus octodecemspinosus_Atl
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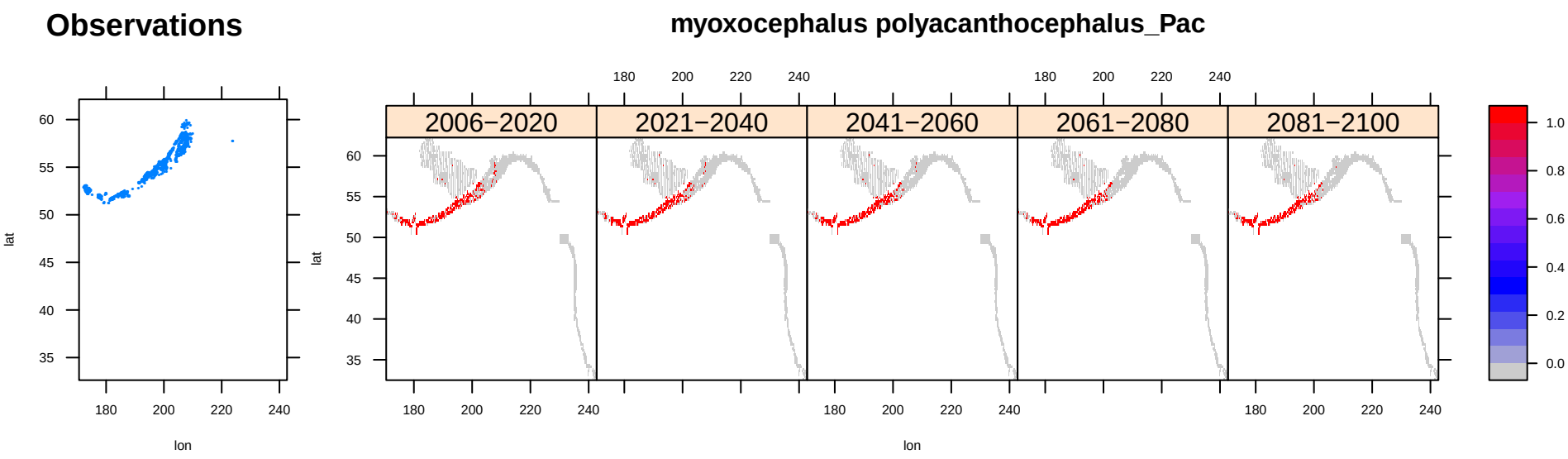
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myoxocephalus polyacanthocephalus_Pac
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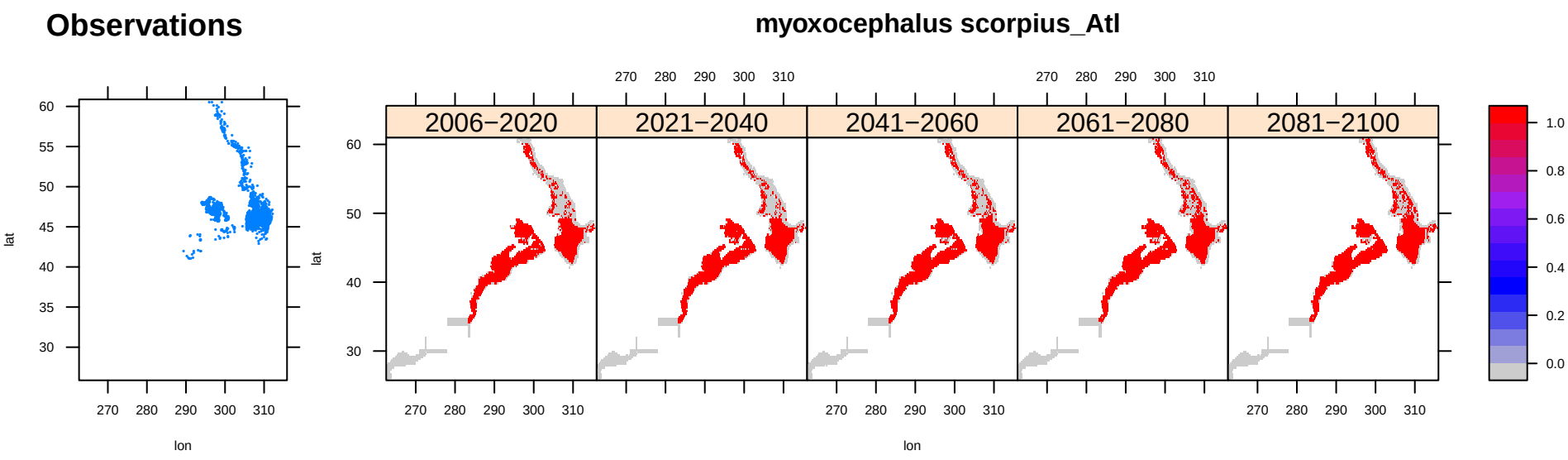
Observations
myoxocephalus scorpius_Atl
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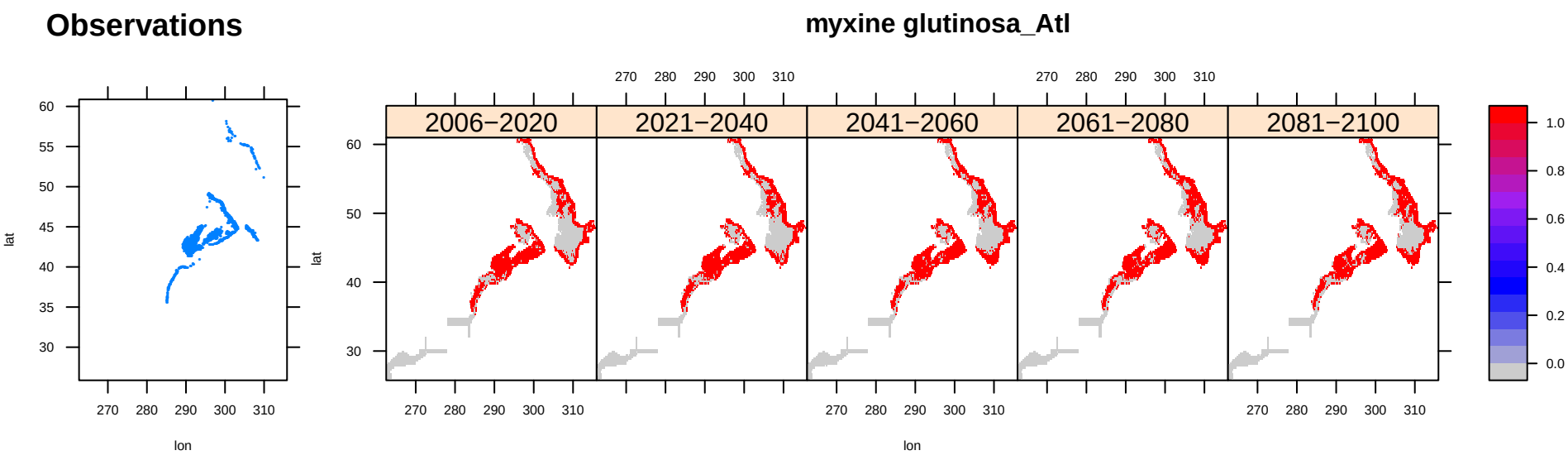
Observations
myxine glutinosa_Atl
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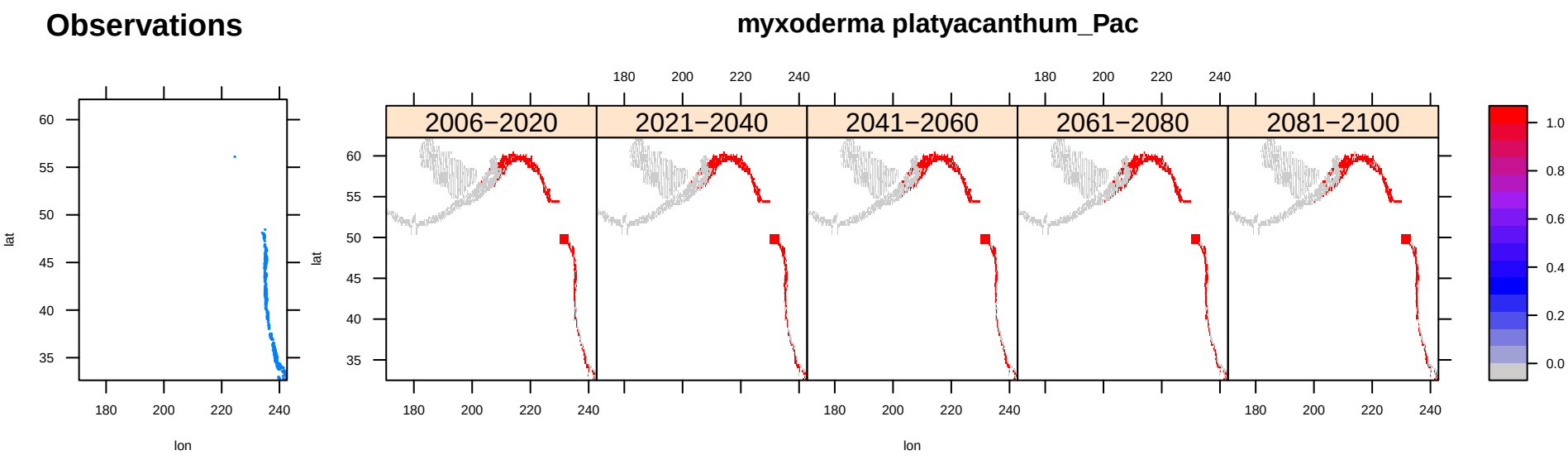
Observations
myxoderma platyacanthum_Pac
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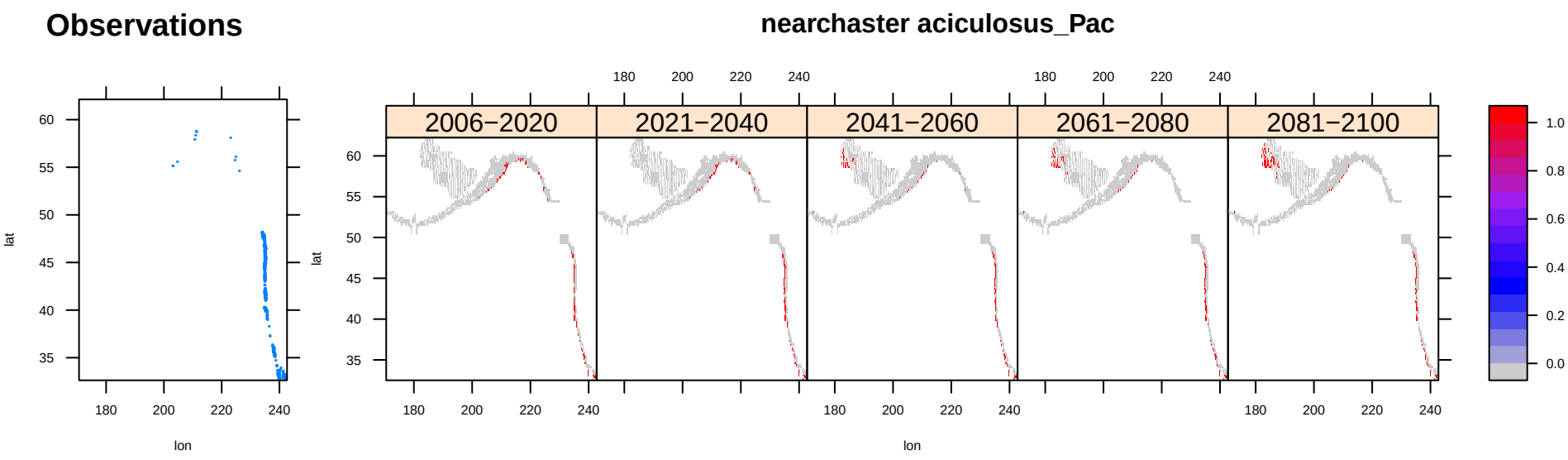
Observations
nearchaster aciculosus_Pac
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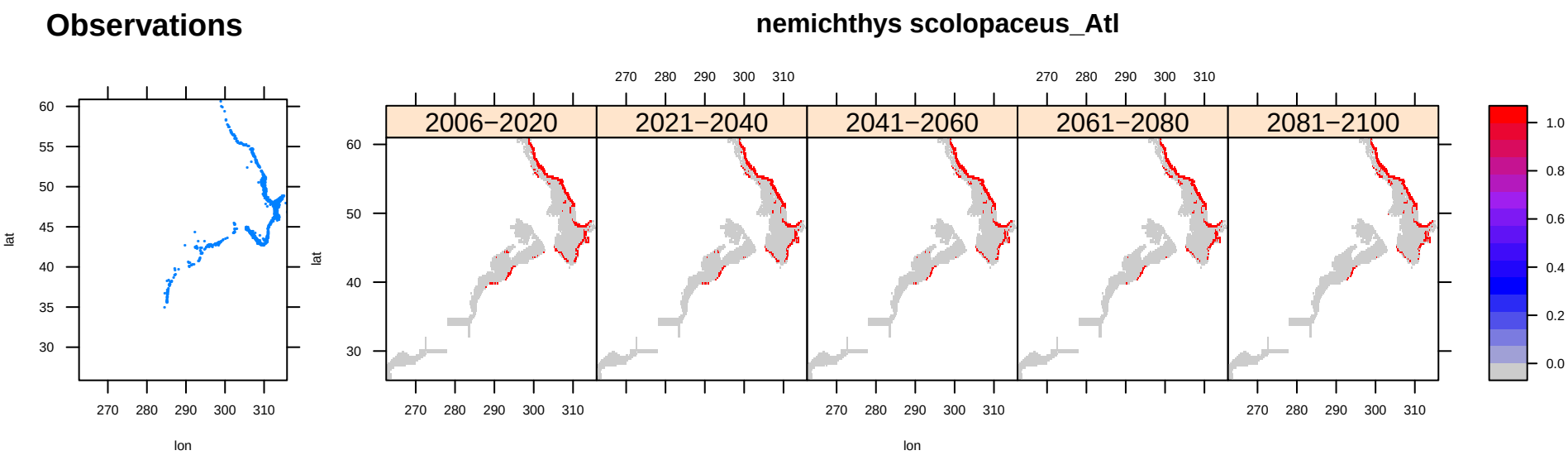
Observations
nemichthys scolopaceus_Atl
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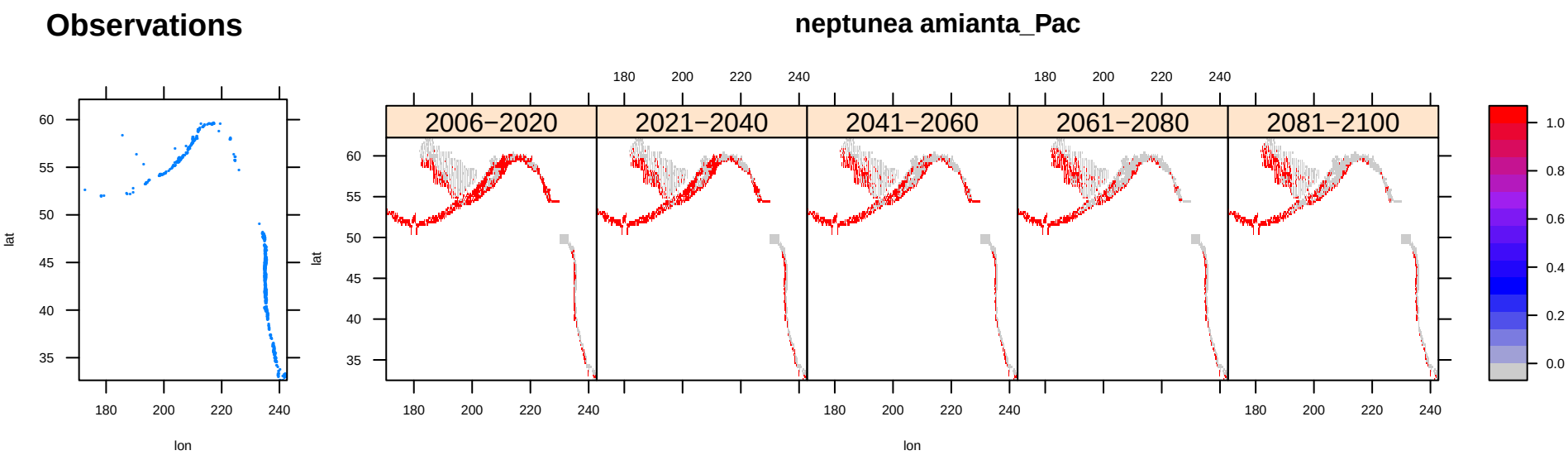
Observations
neptunea amianta_Pac
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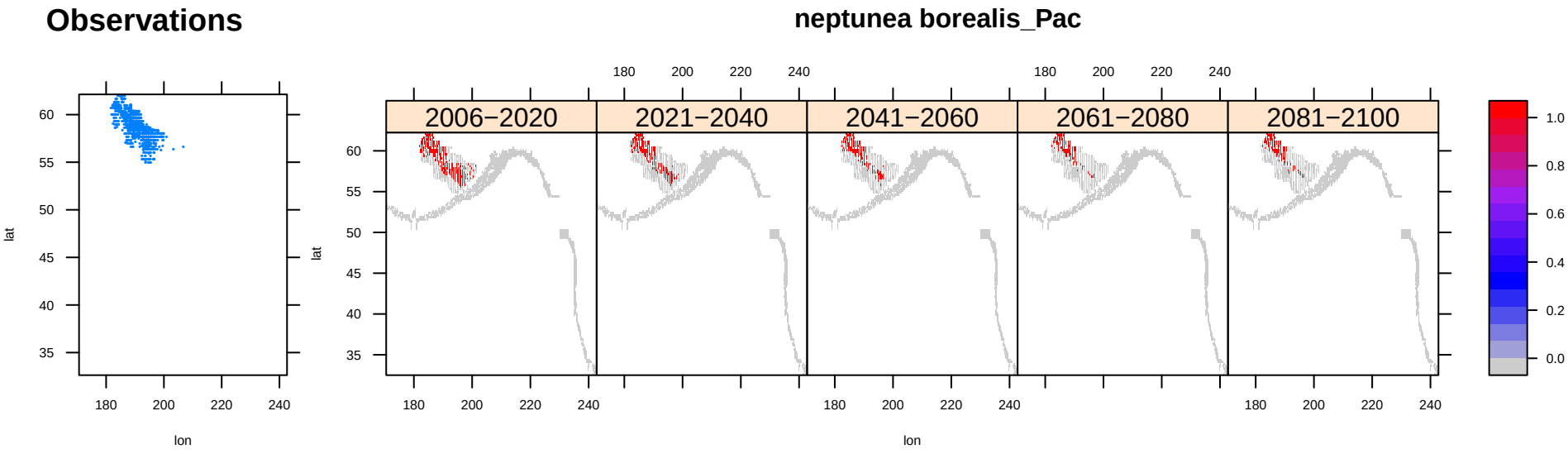
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neptunea borealis_Pac
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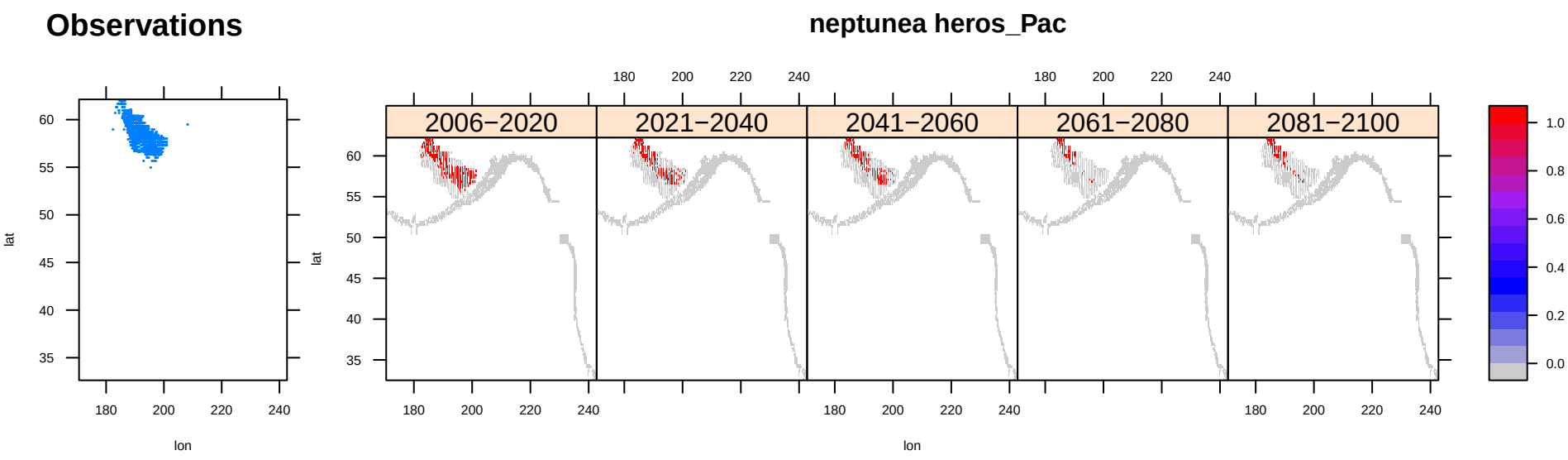
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neptunea heros_Pac
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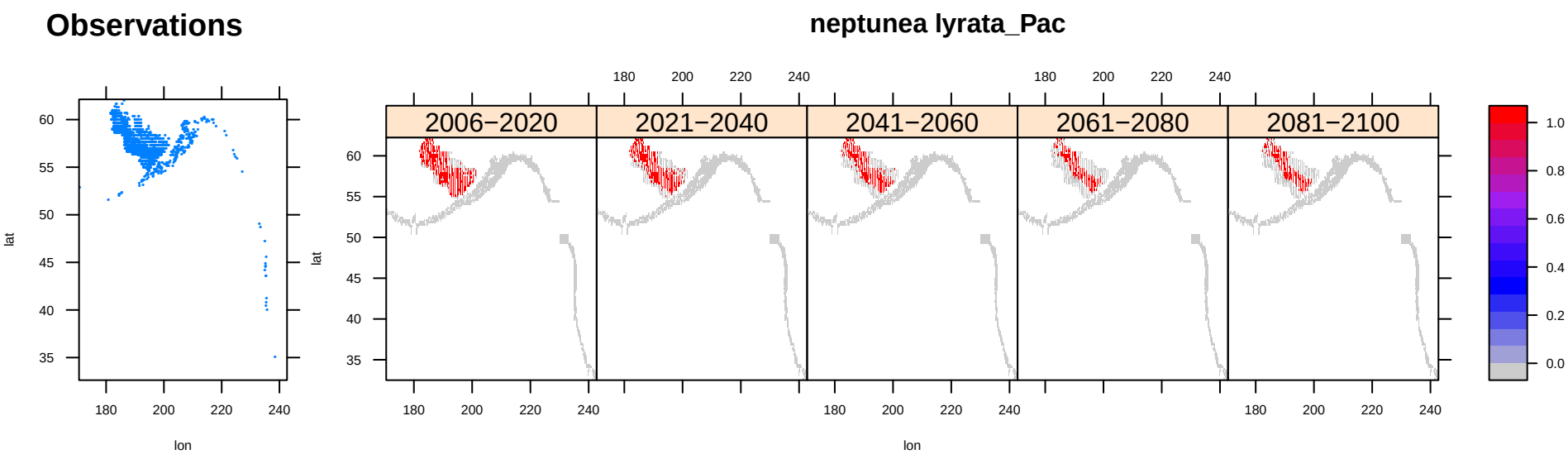
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neptunea lyrata_Pac
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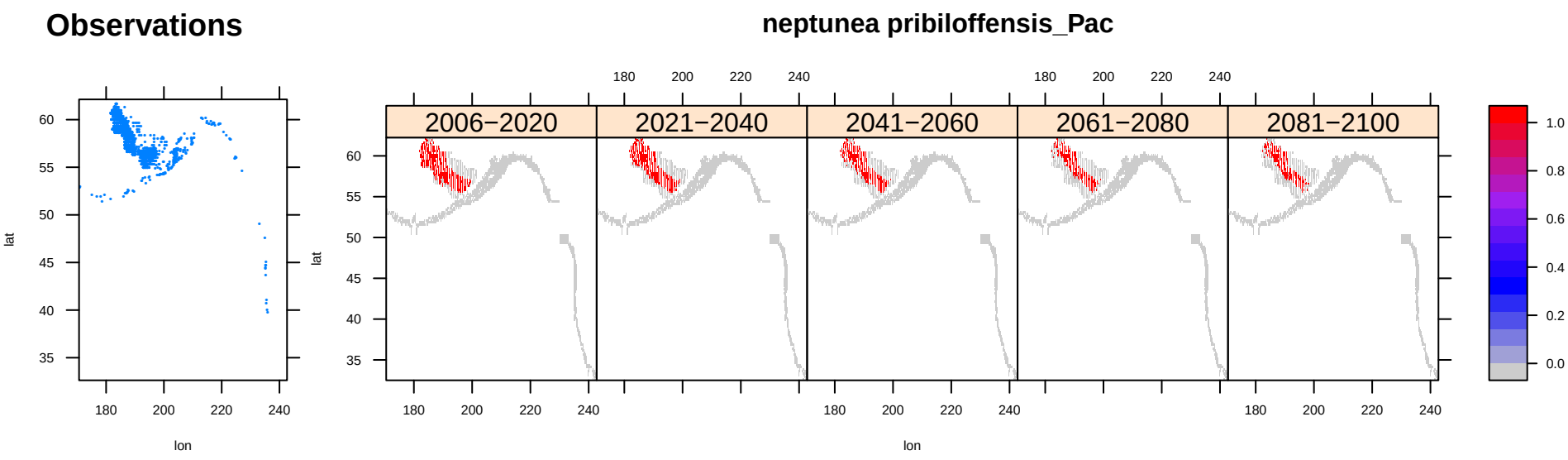
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neptunea pribiloffensis_Pac
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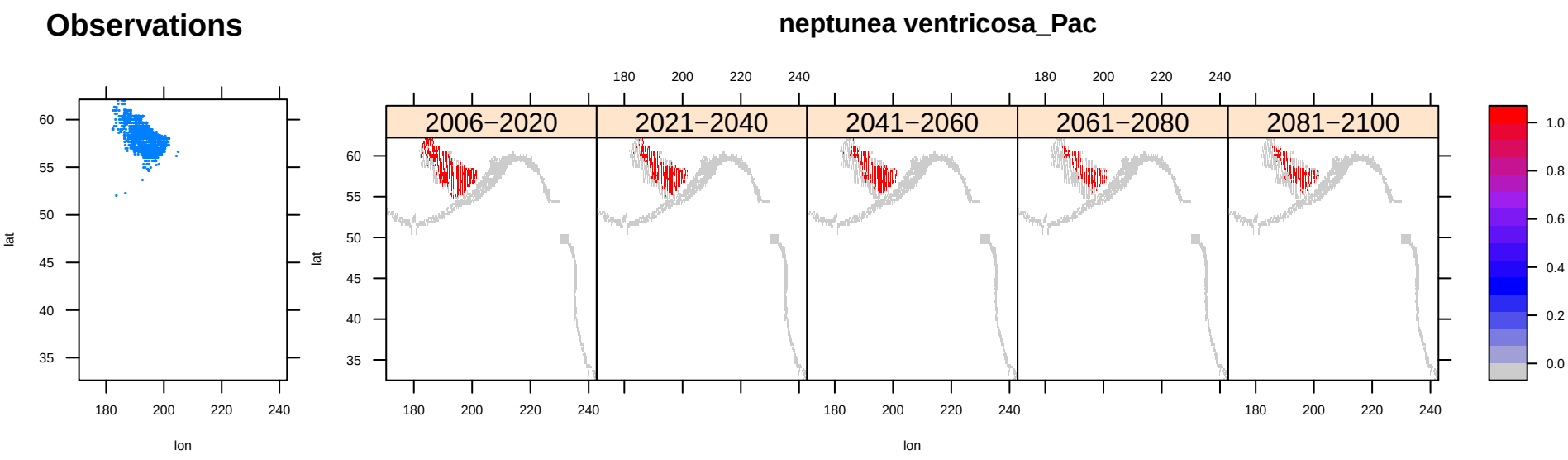
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neptunea ventricosa_Pac
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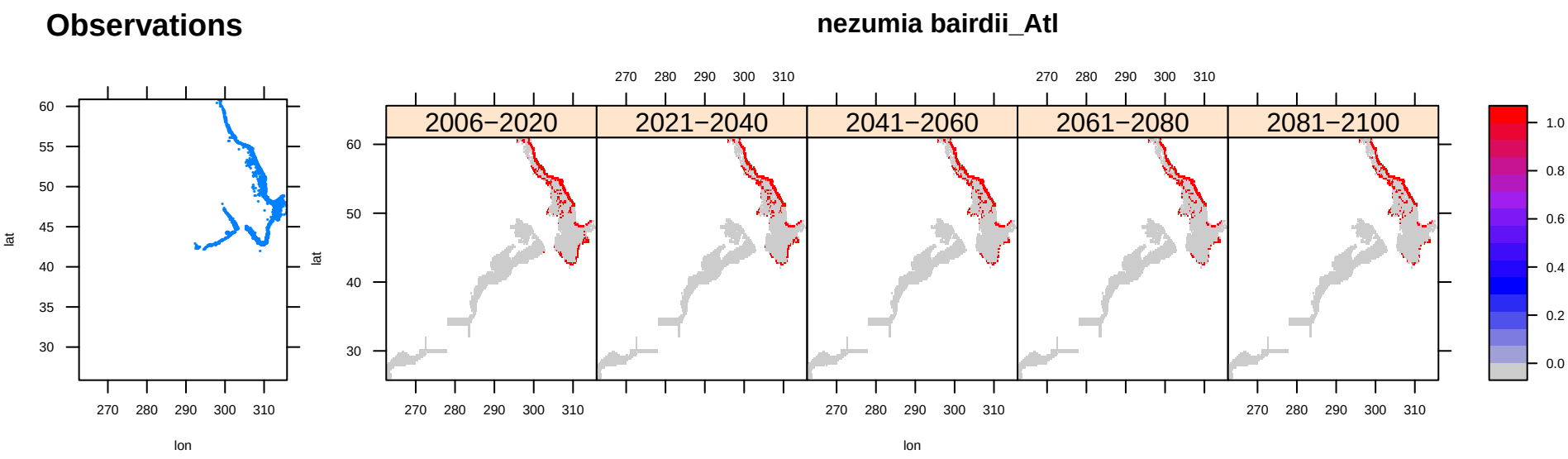
Observations
nezumia bairdii_Atl
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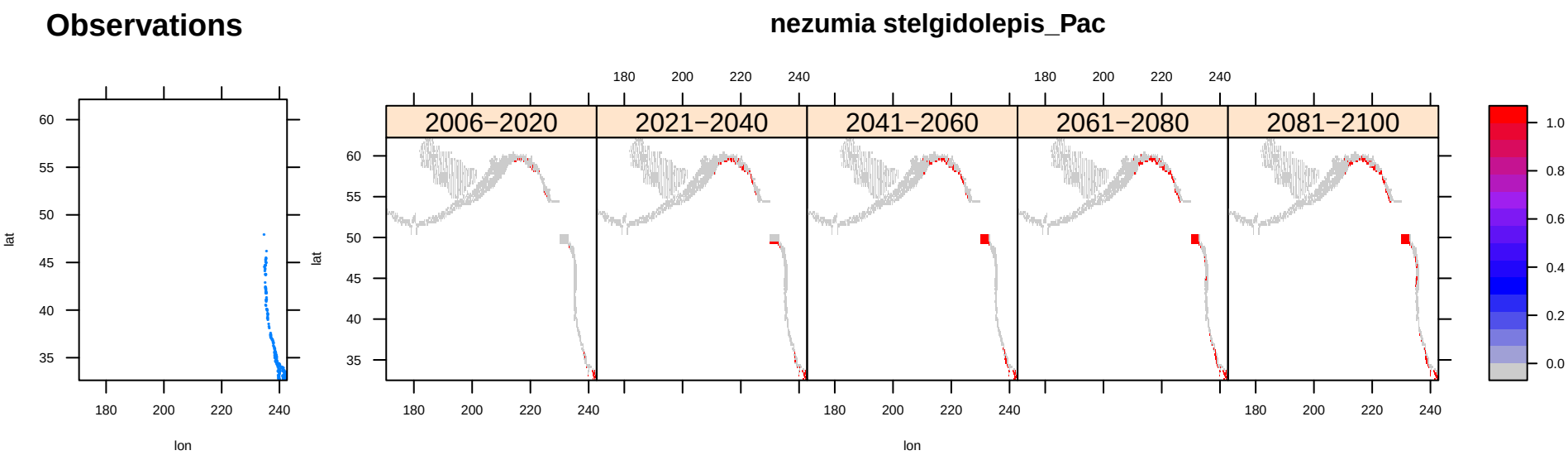
Observations
nezumia stelgidolepis_Pac
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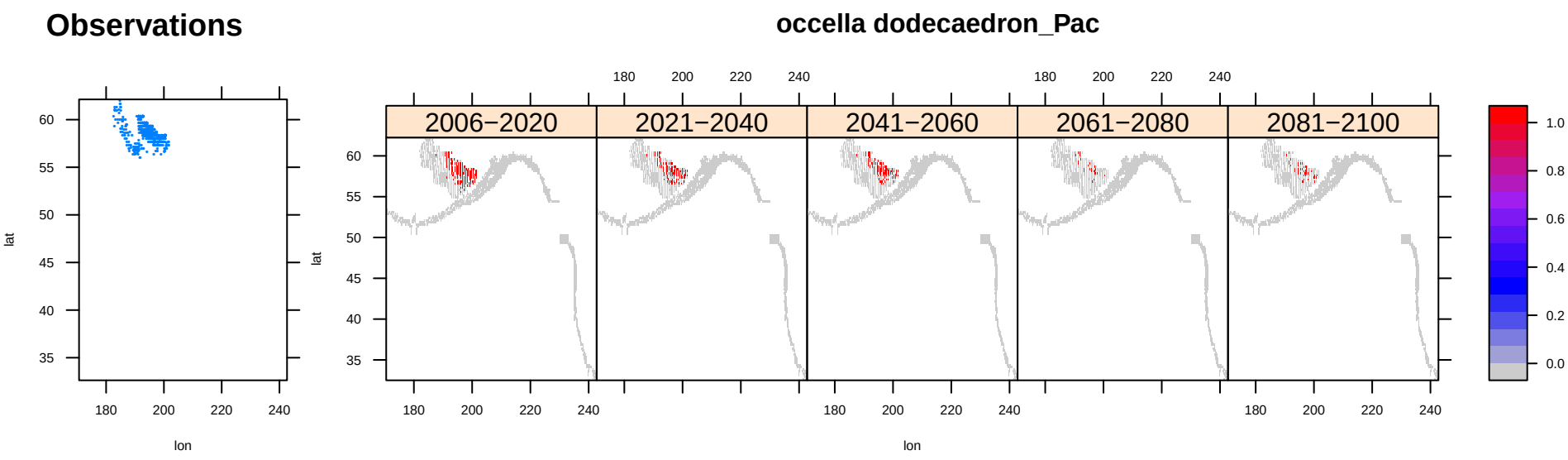
Observations
occella dodecaedron_Pac
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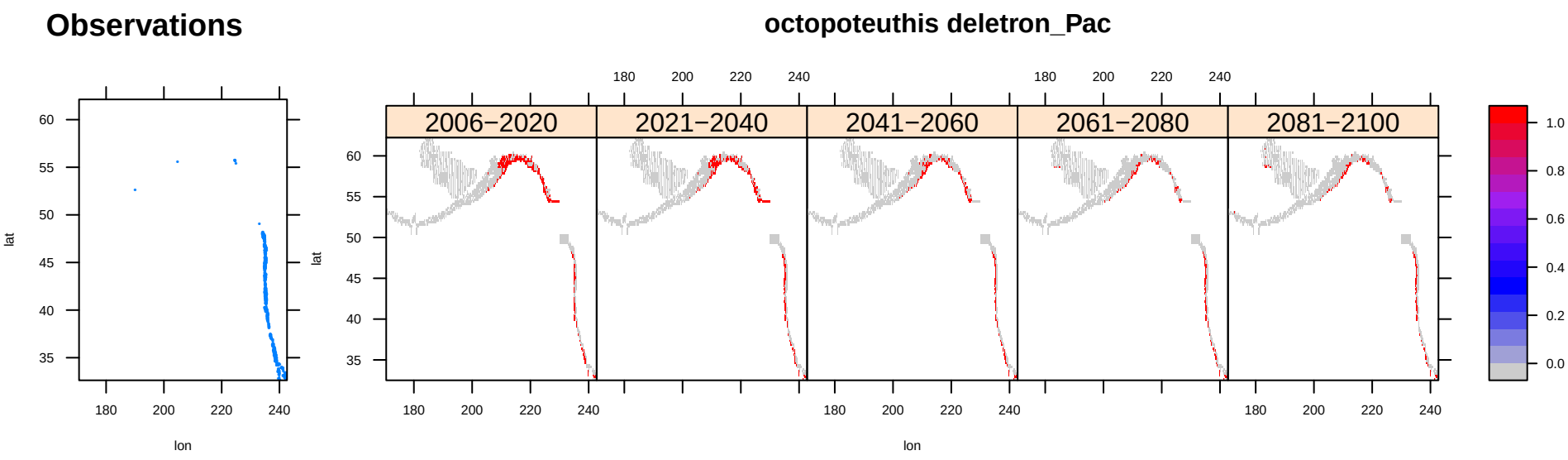
Observations
octopoteuthis deletron_Pac
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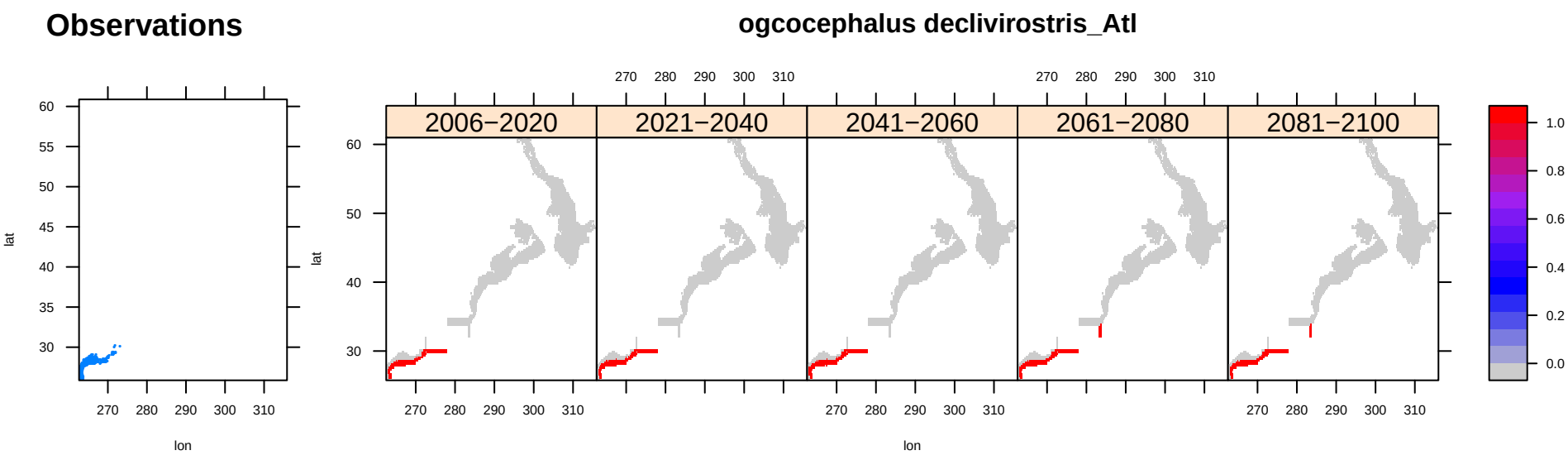
Observations
ogcocephalus declivirostris_Atl
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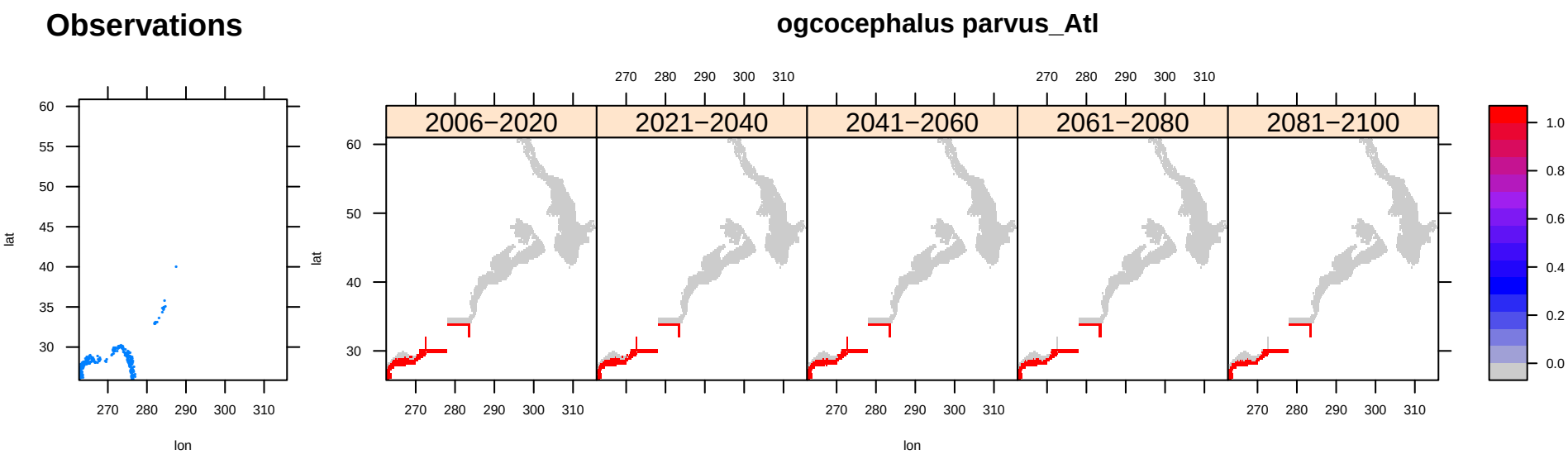
Observations
ogcocephalus parvus_Atl
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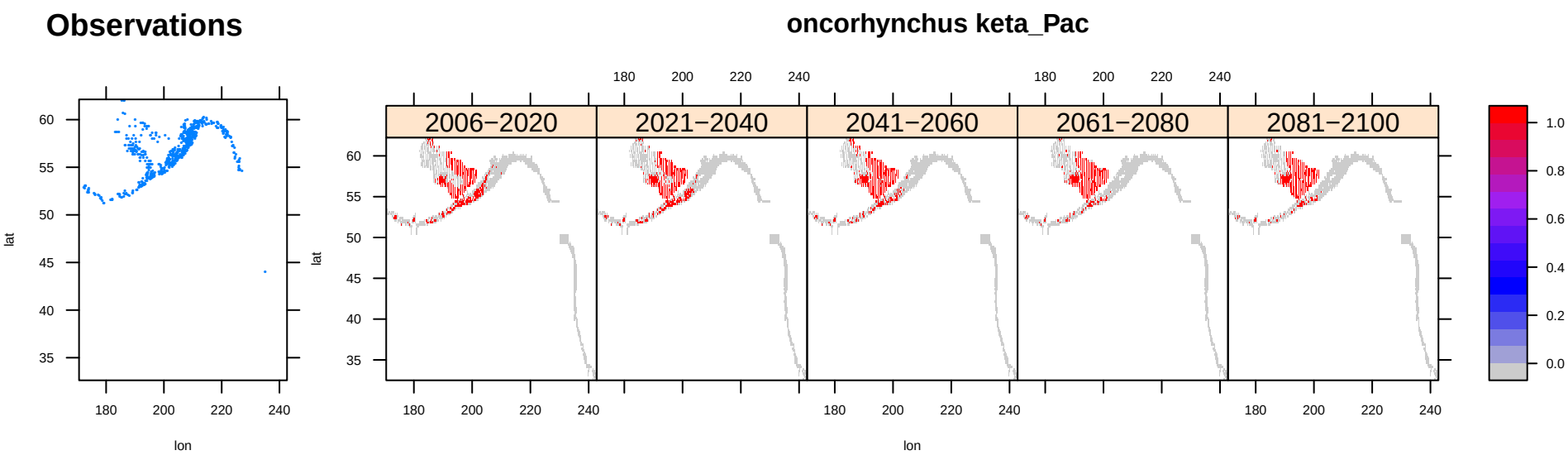
Observations
oncorhynchus keta_Pac
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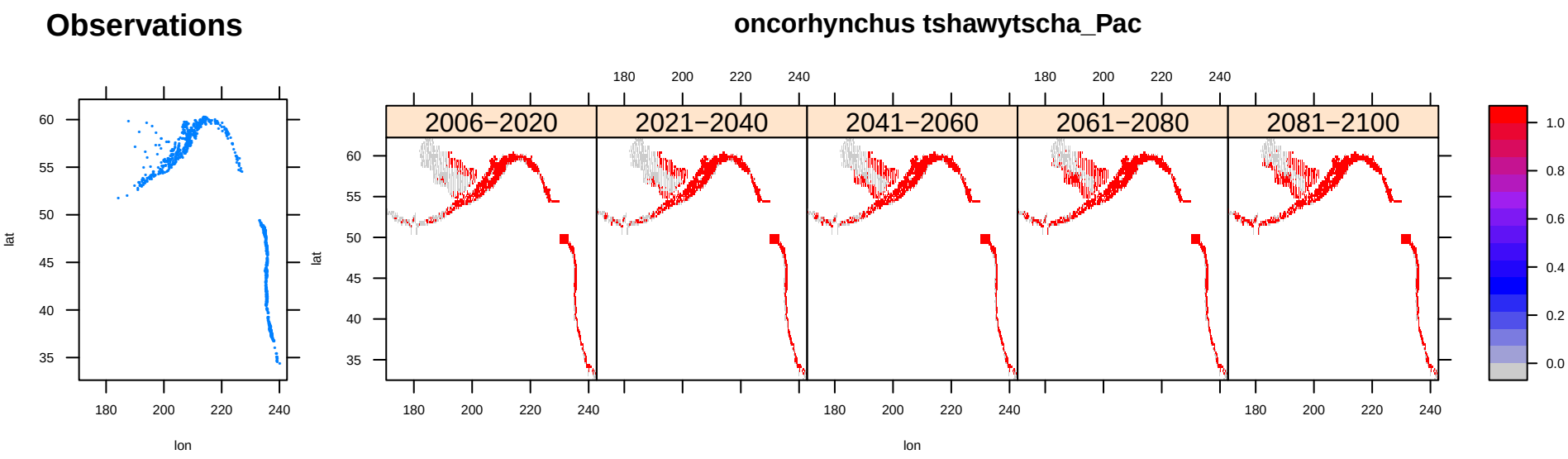
Observations
oncorhynchus tshawytscha_Pac
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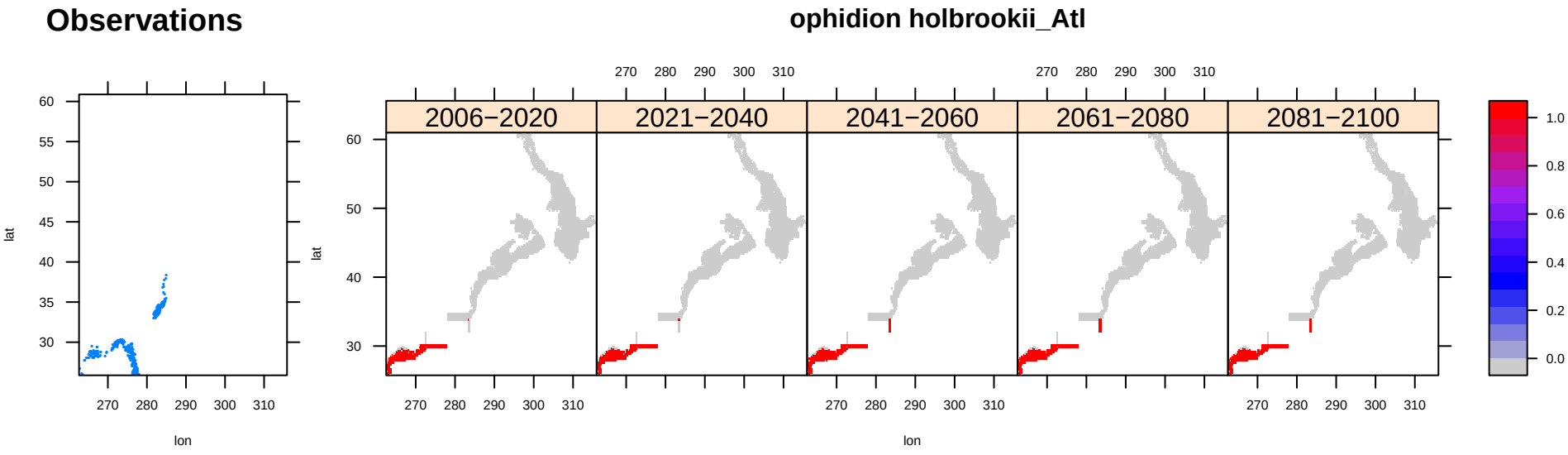
Observations
ophidion holbrookii_Atl
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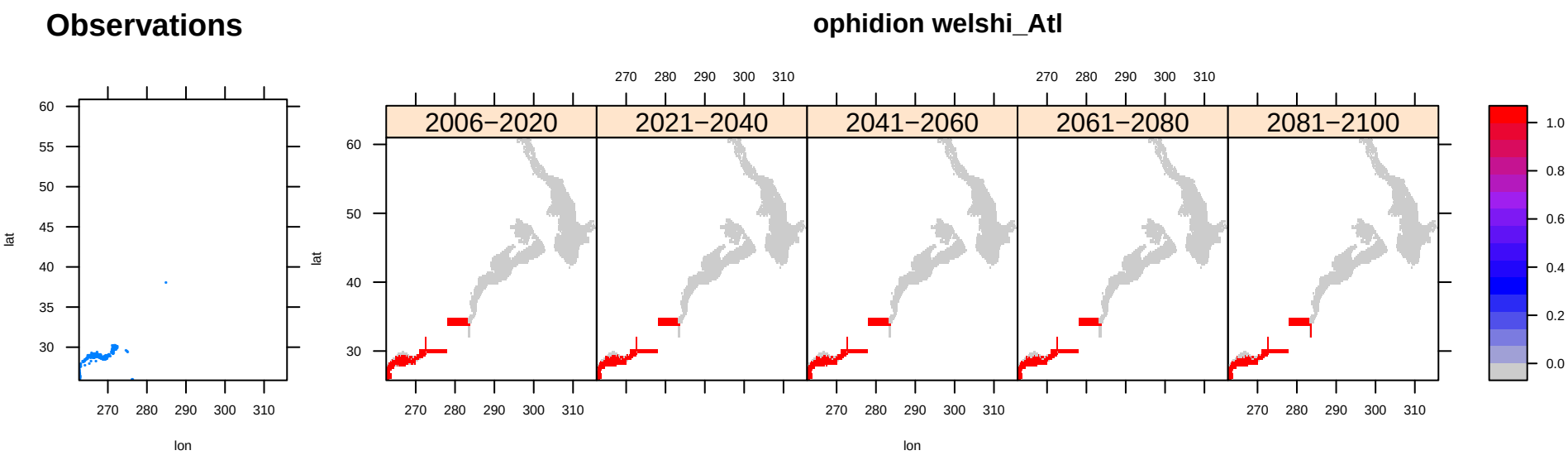
Observations
ophidion welshi_Atl
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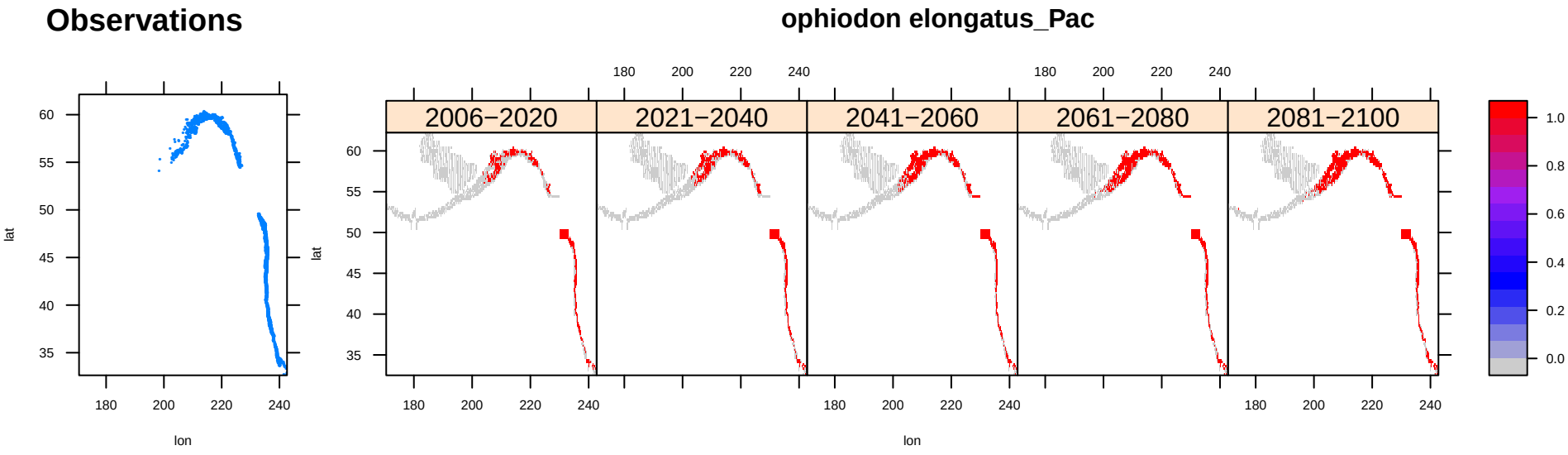
Observations
ophiodon elongatus_Pac
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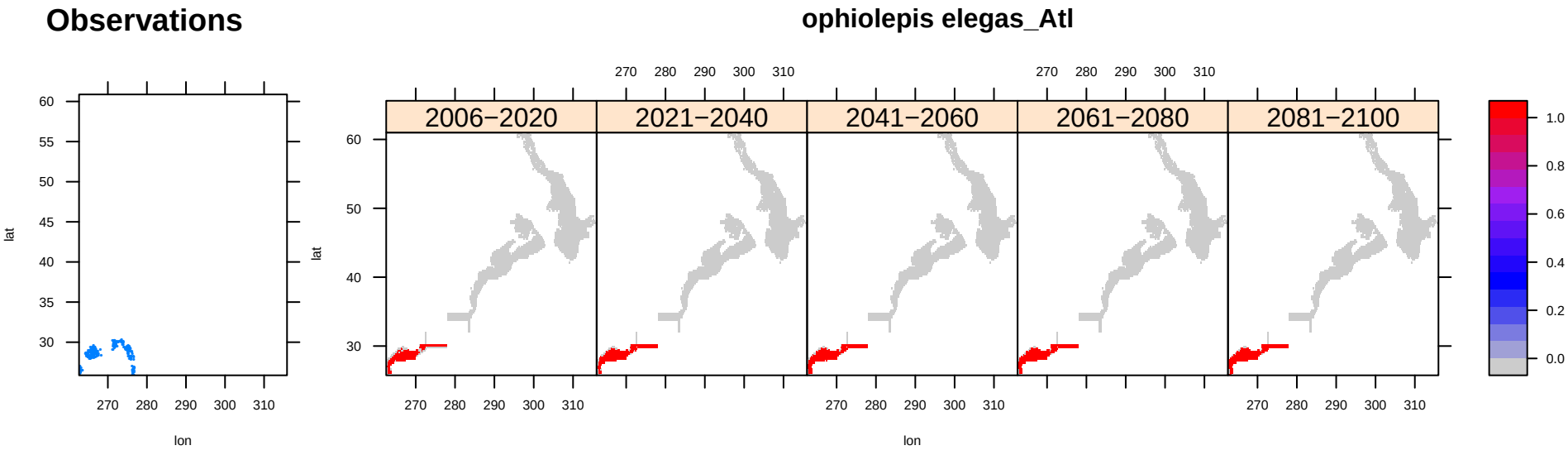
Observations
ophiolepis elegas_Atl
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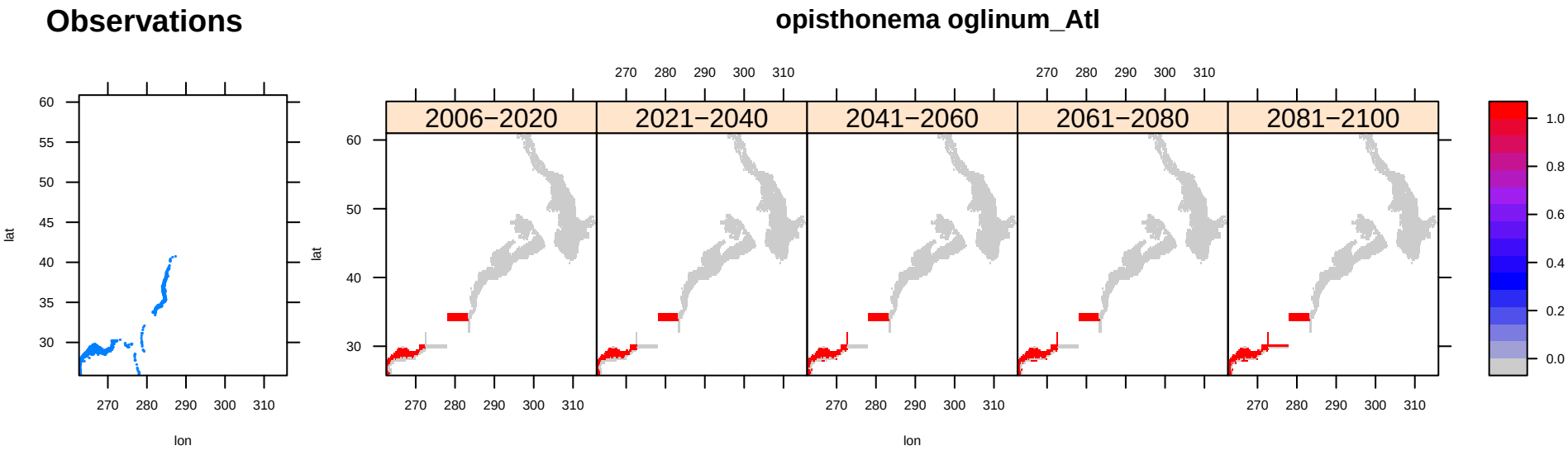
Observations
opisthonema oglinum_Atl
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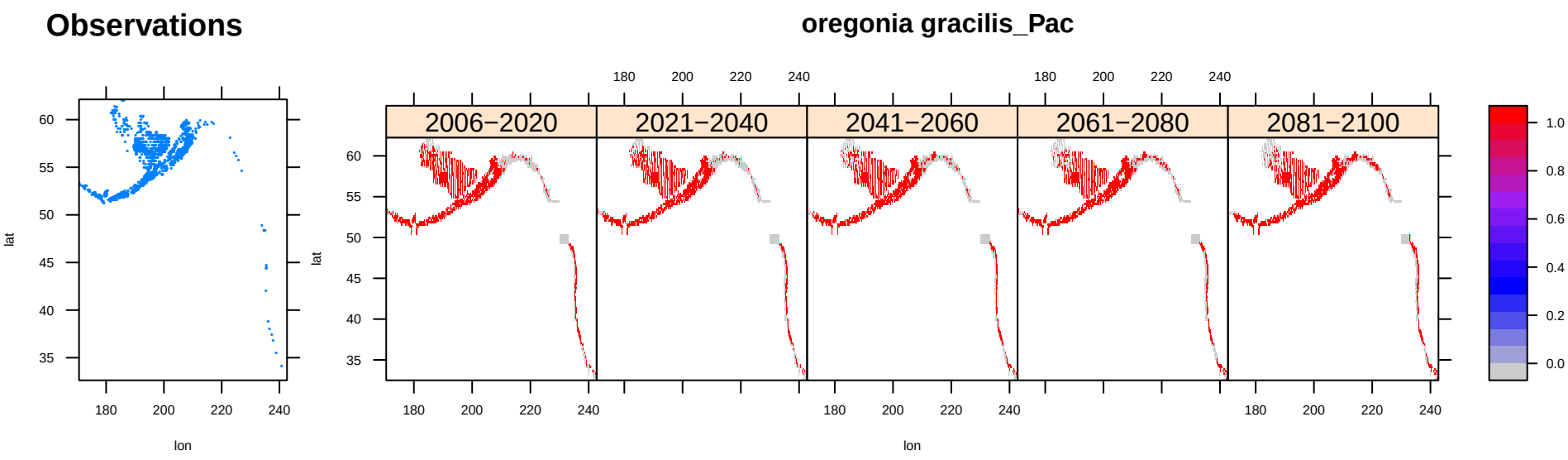
Observations
oregonia gracilis_Pac
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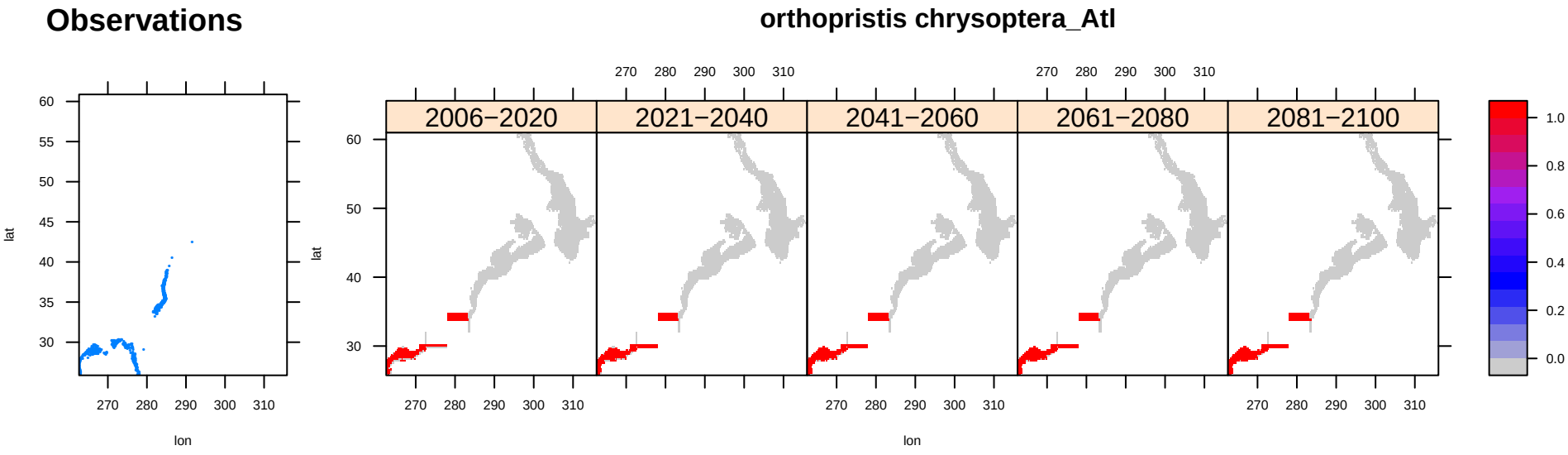
Observations
orthopristis chrysoptera_Atl
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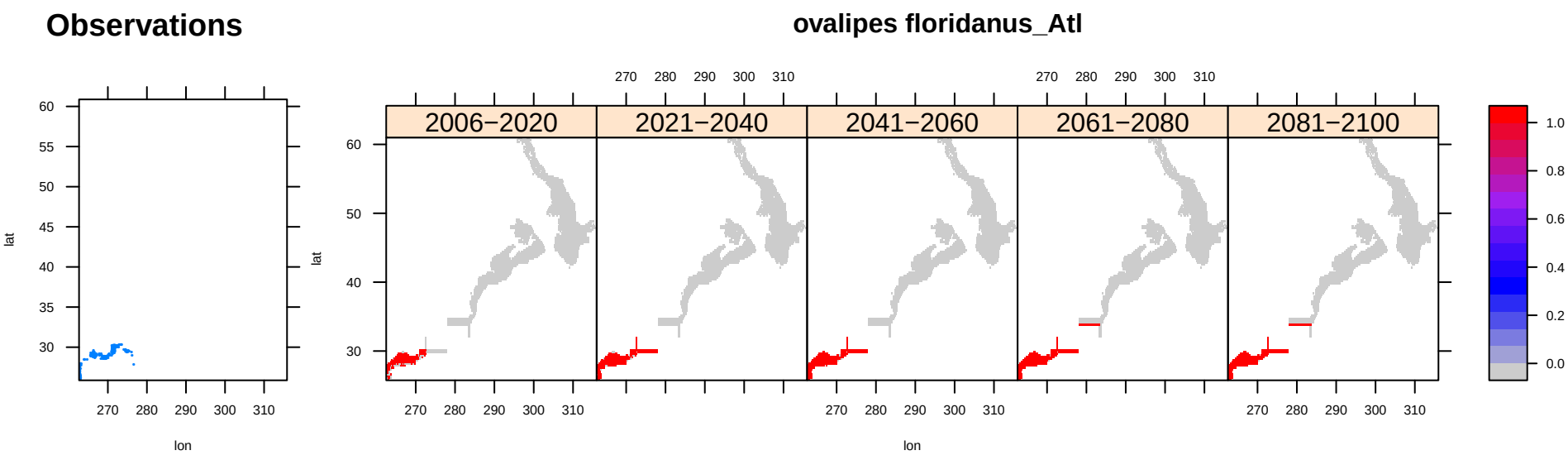
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ovalipes floridanus_Atl
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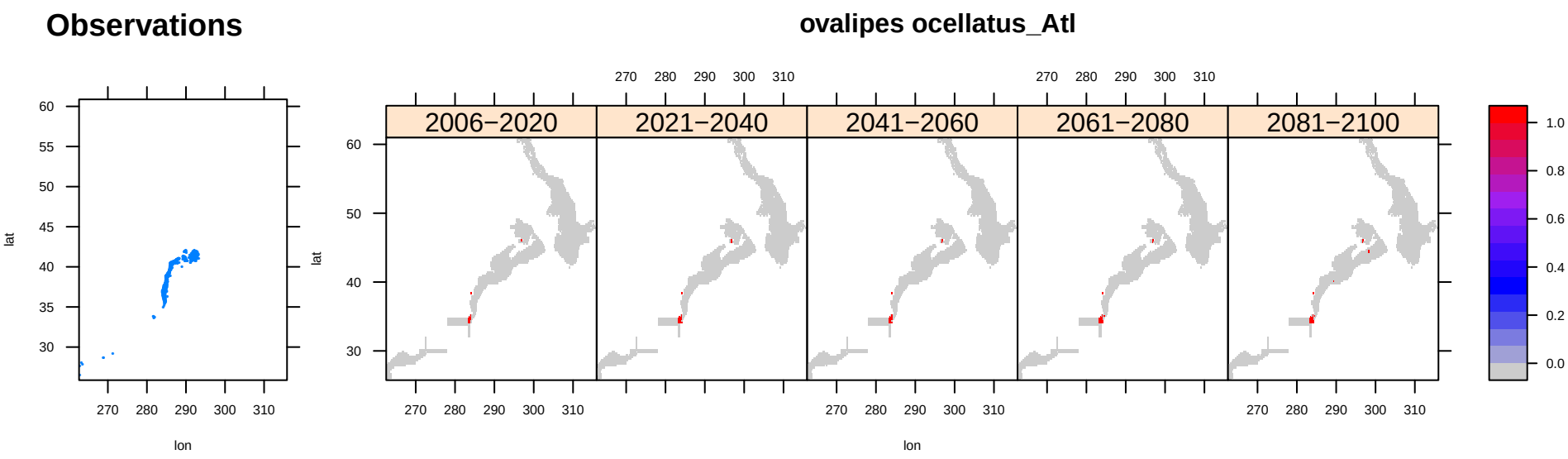
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ovalipes ocellatus_Atl
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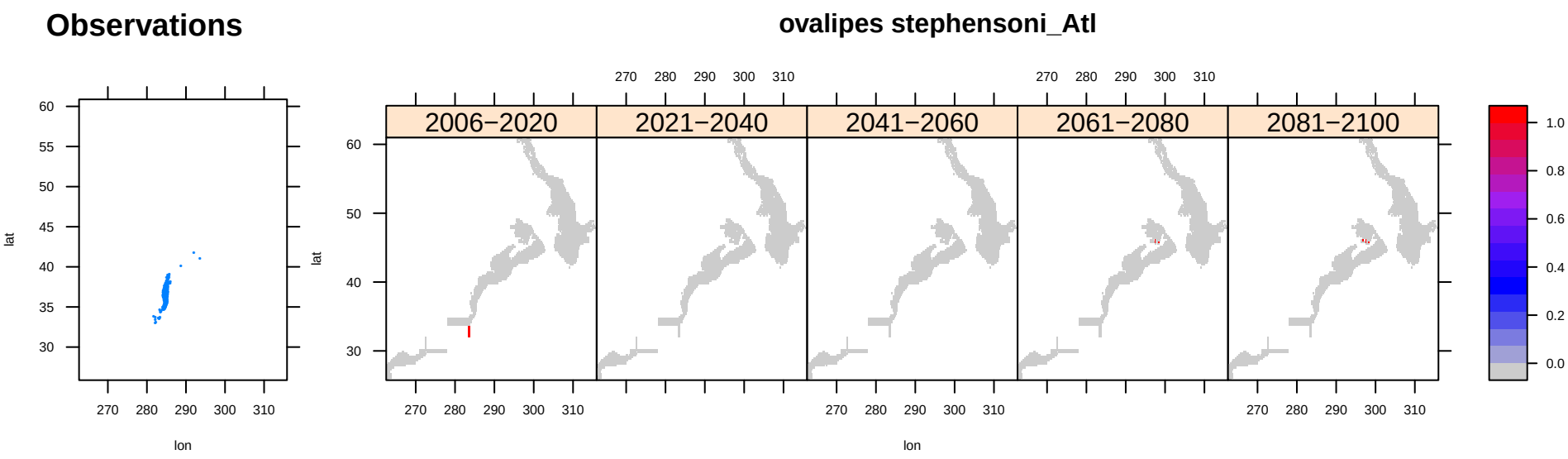
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ovalipes stephensoni_Atl
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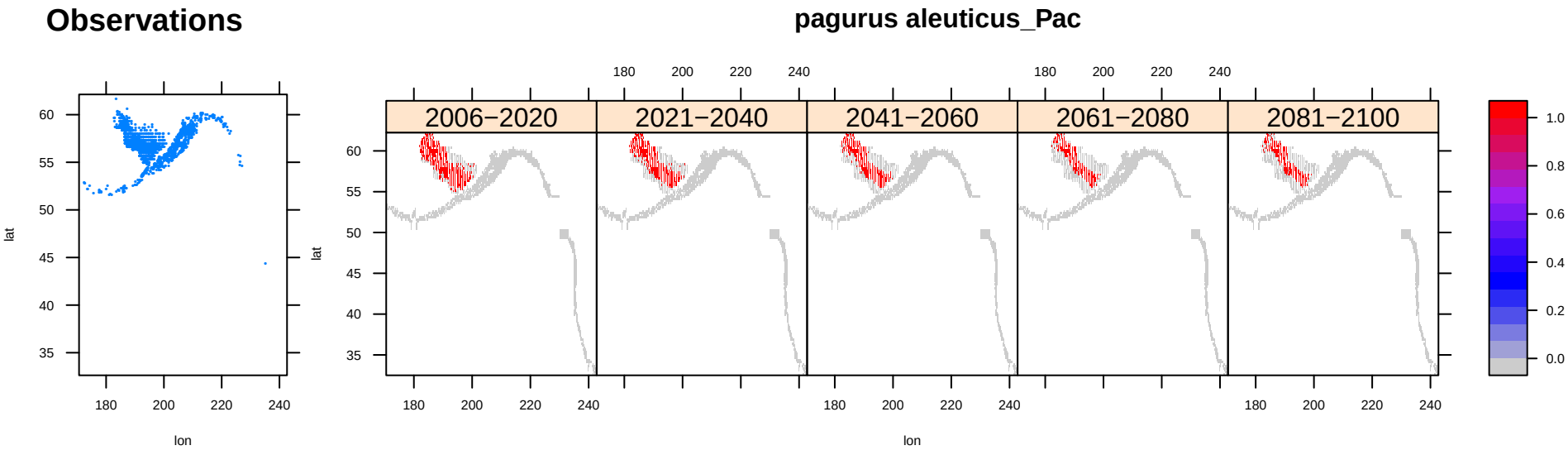
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pagurus aleuticus_Pac
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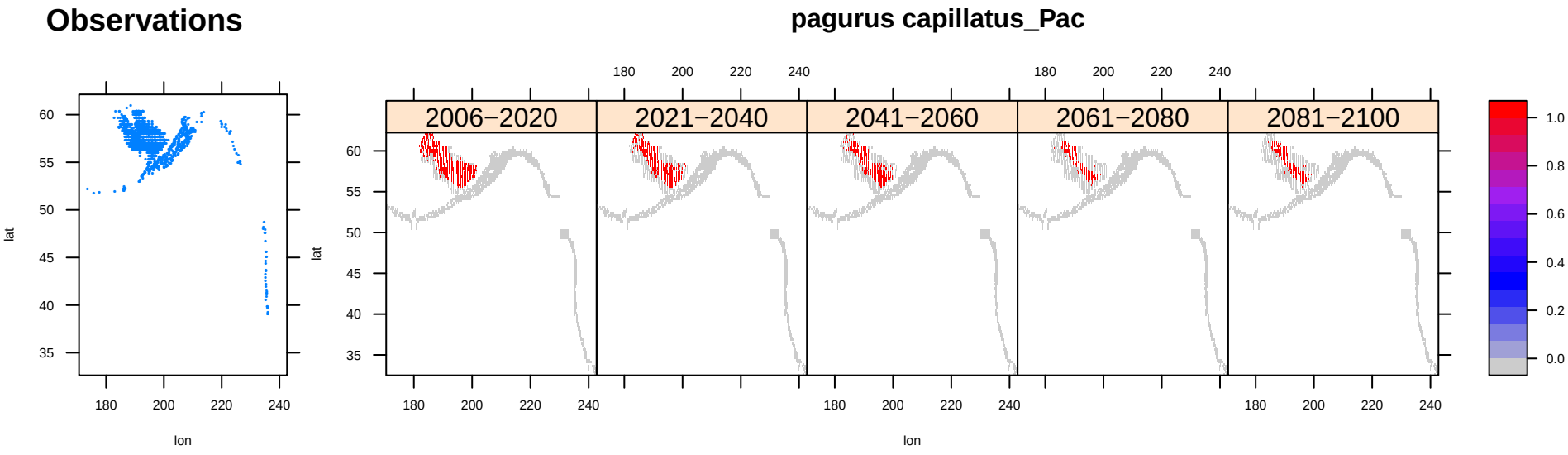
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pagurus capillatus_Pac
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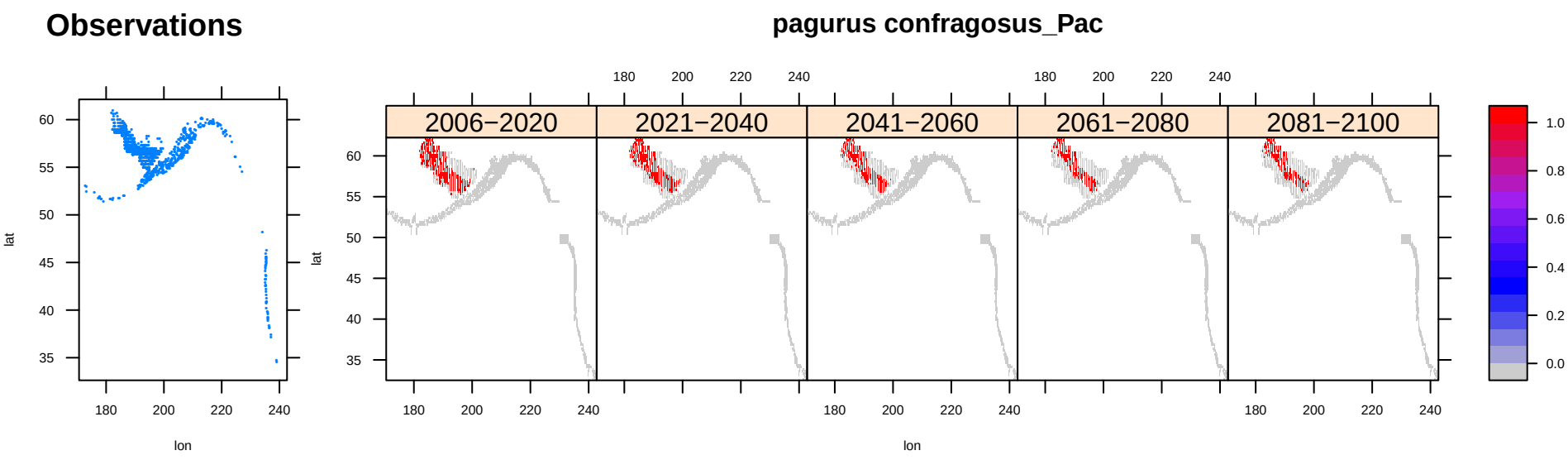
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pagurus confragosus_Pac
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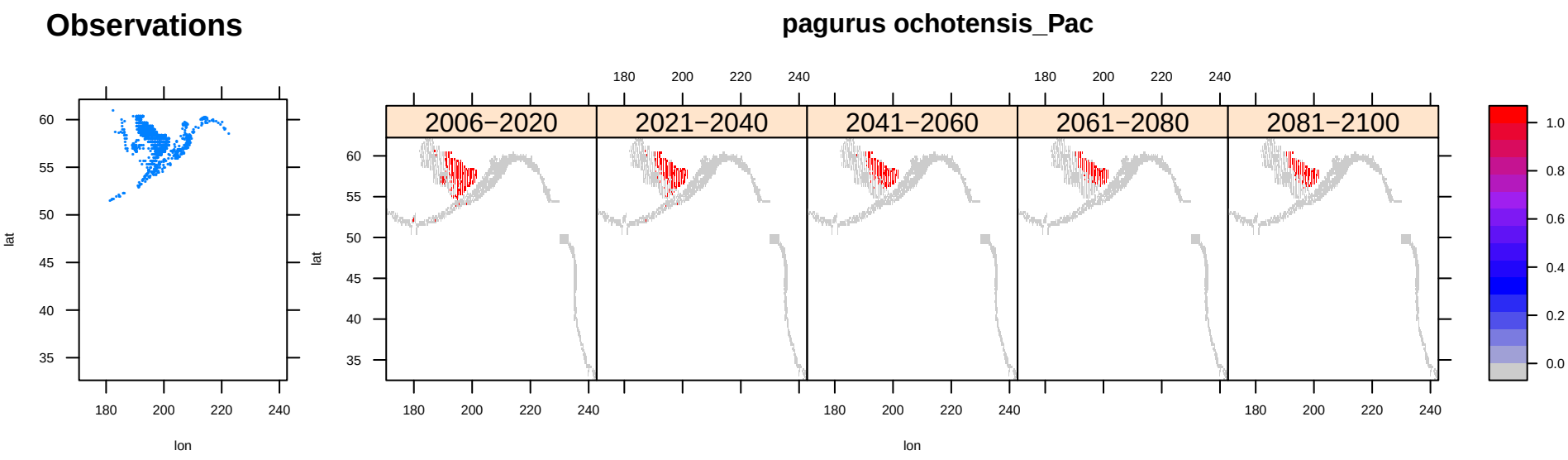
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pagurus ochotensis_Pac
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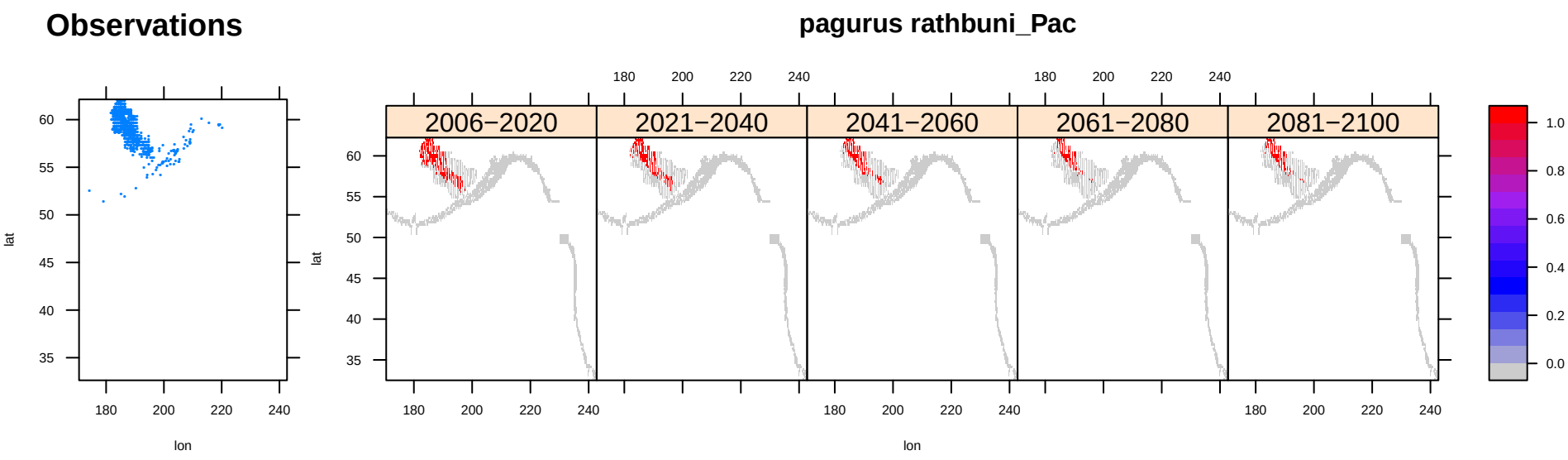
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pagurus rathbuni_Pac
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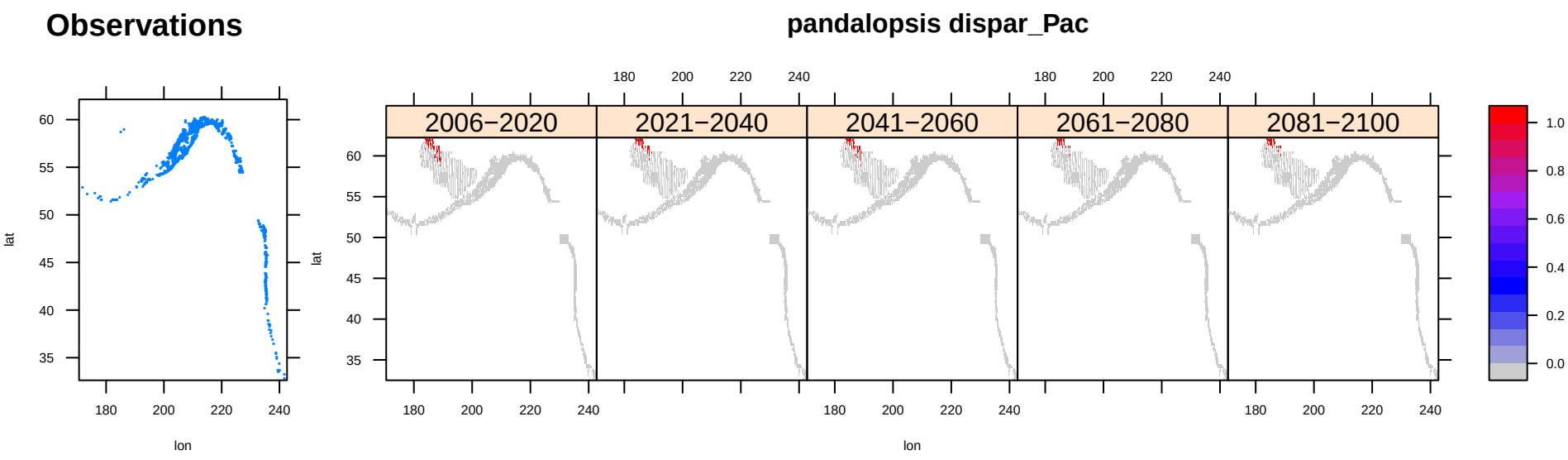
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pandalopsis dispar_Pac
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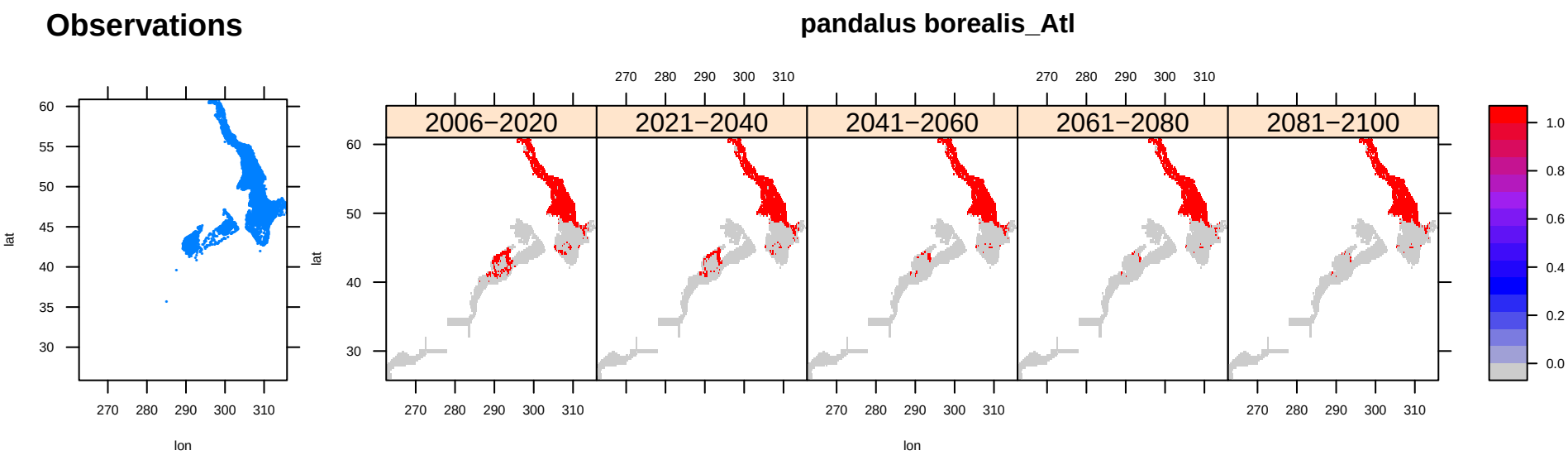
Observations
pandalus borealis_Atl
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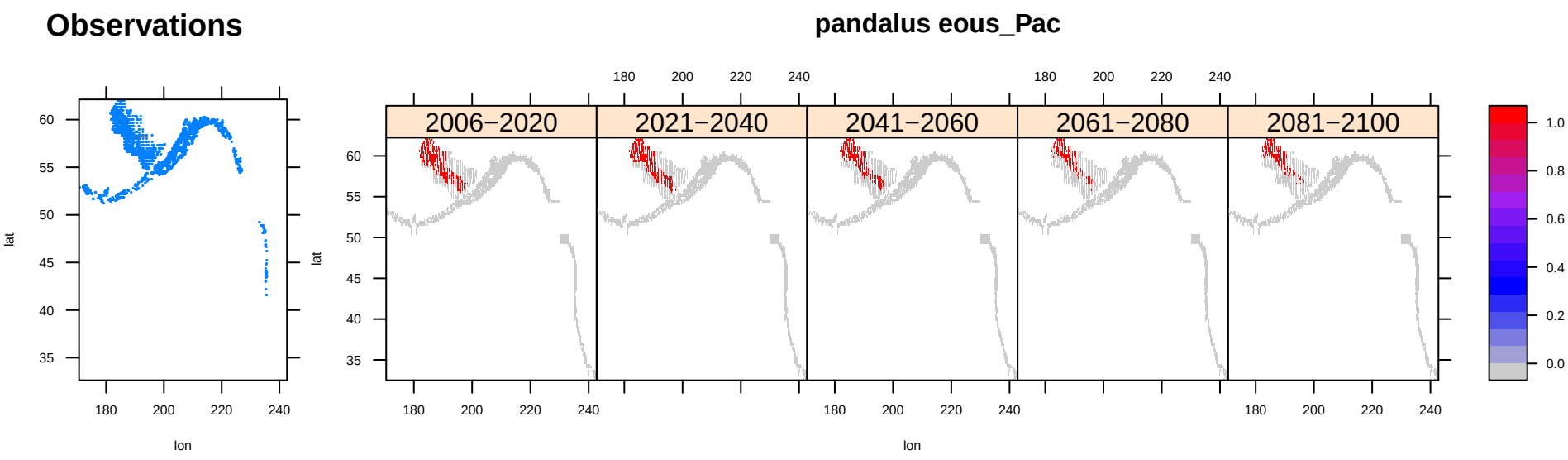
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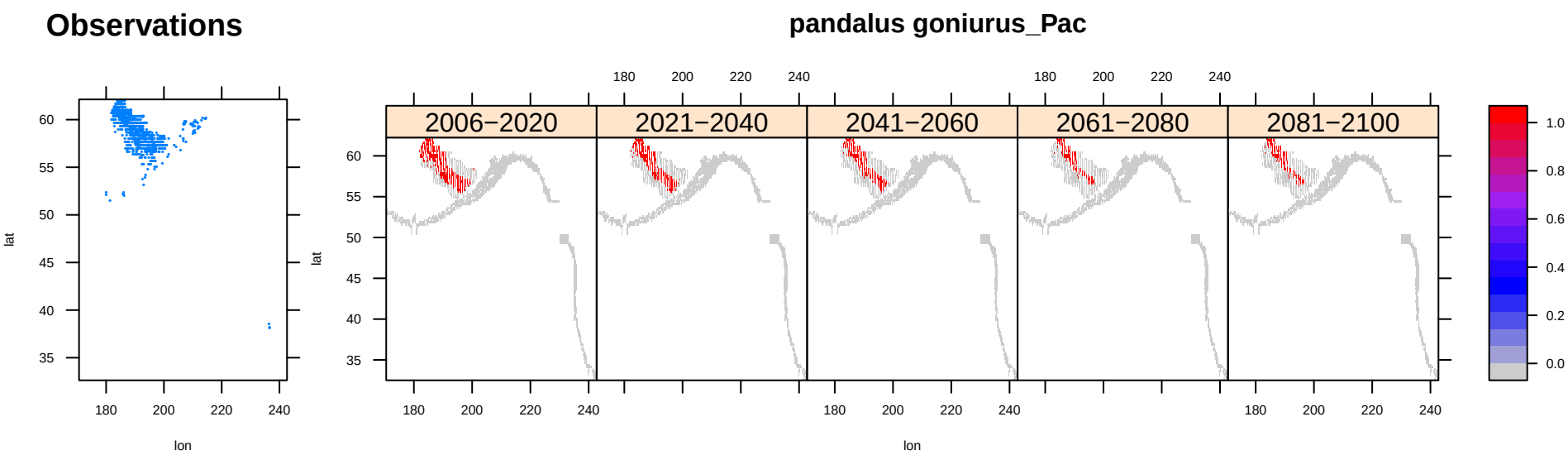
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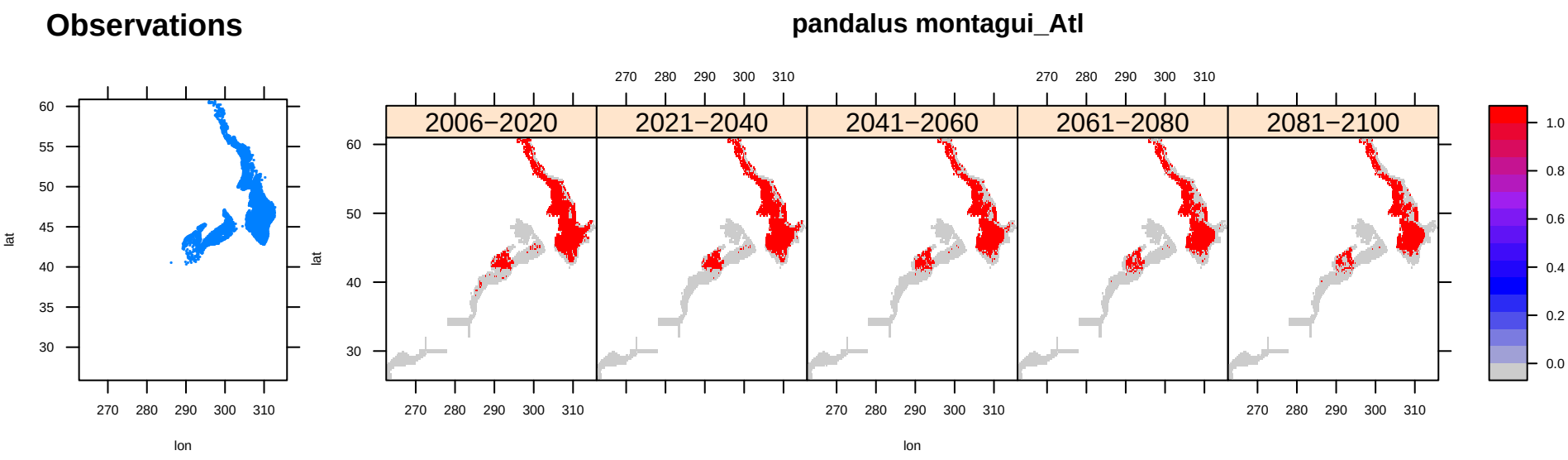
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pandalus montagui_Atl
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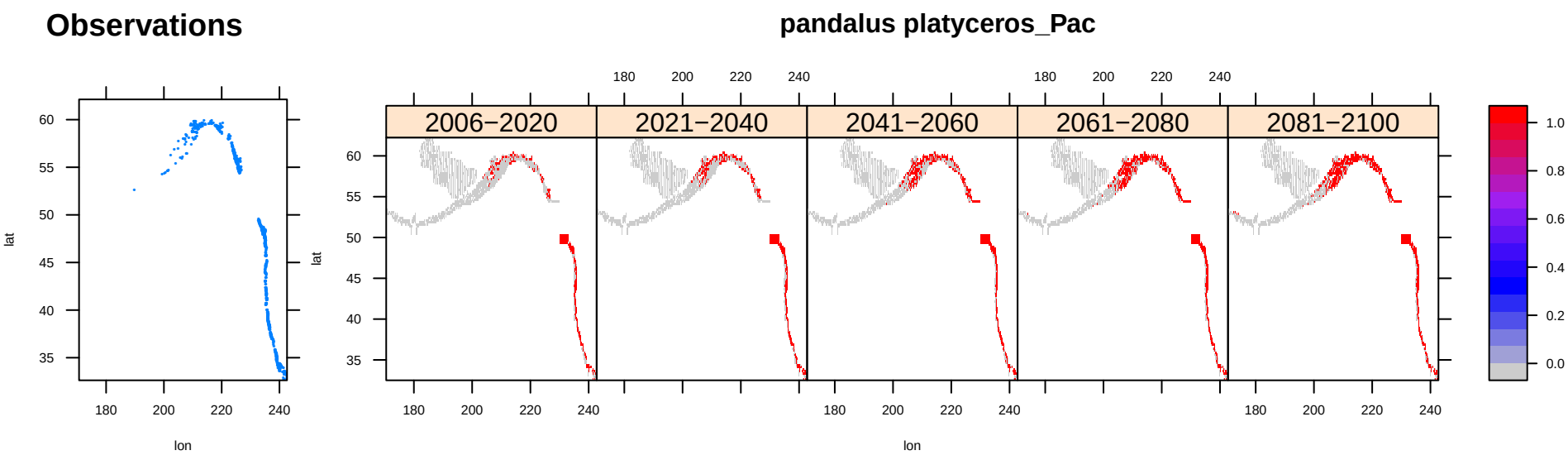
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pandalus platyceros_Pac
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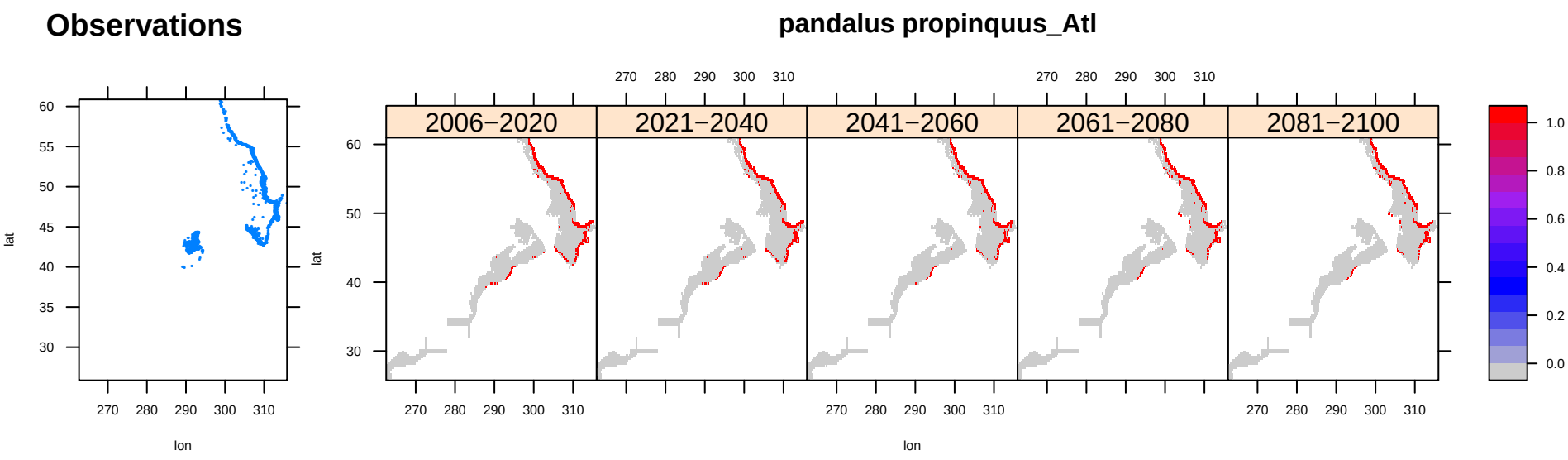
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pandalus propinquus_Atl
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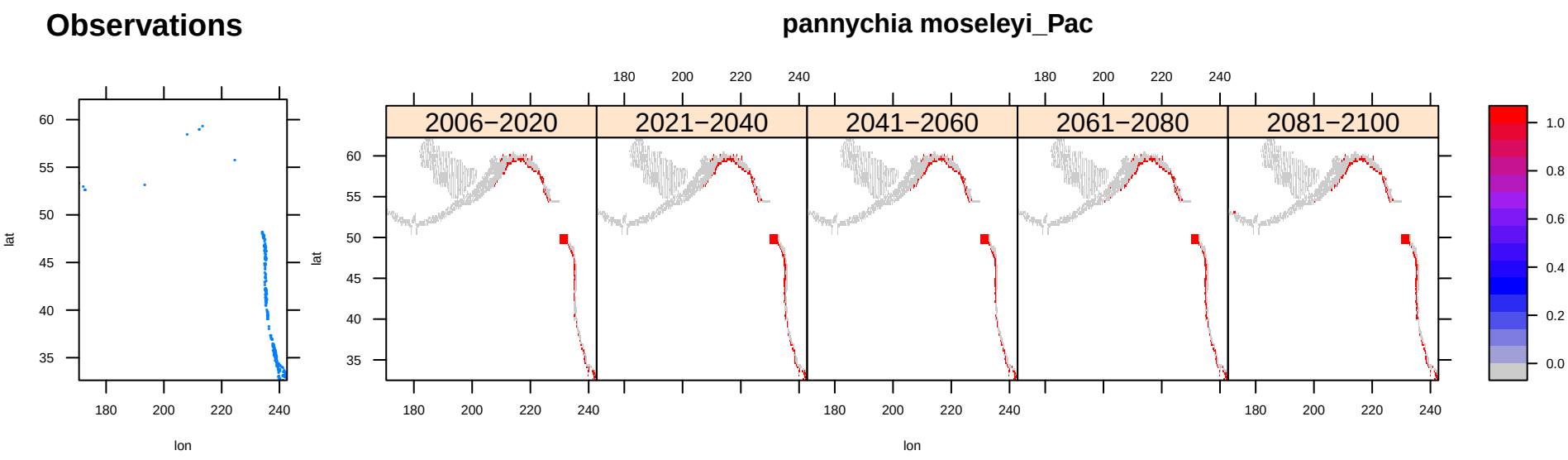
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pannychia moseleyi_Pac
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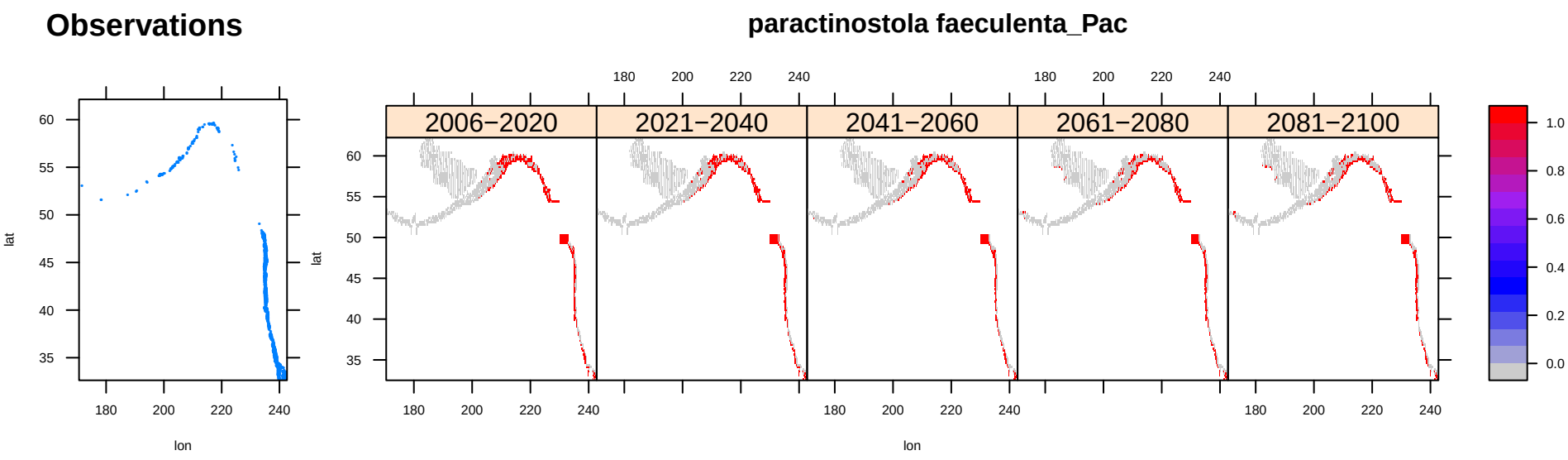
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paractinostola faeculenta_Pac
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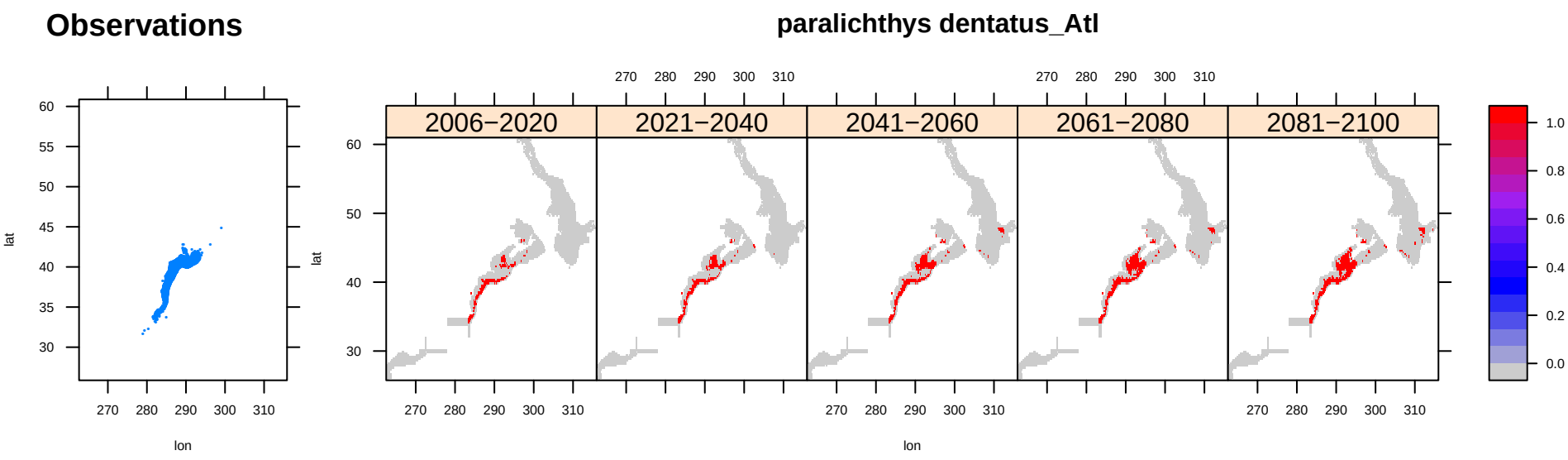
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paralichthys dentatus_Atl
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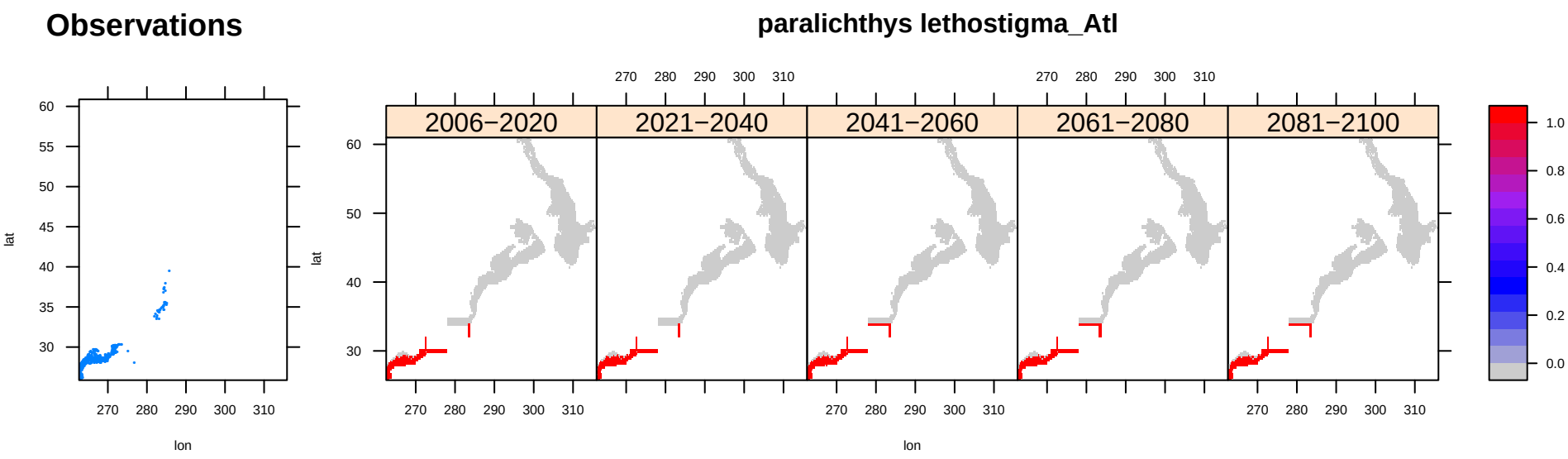
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paralichthys lethostigma_Atl
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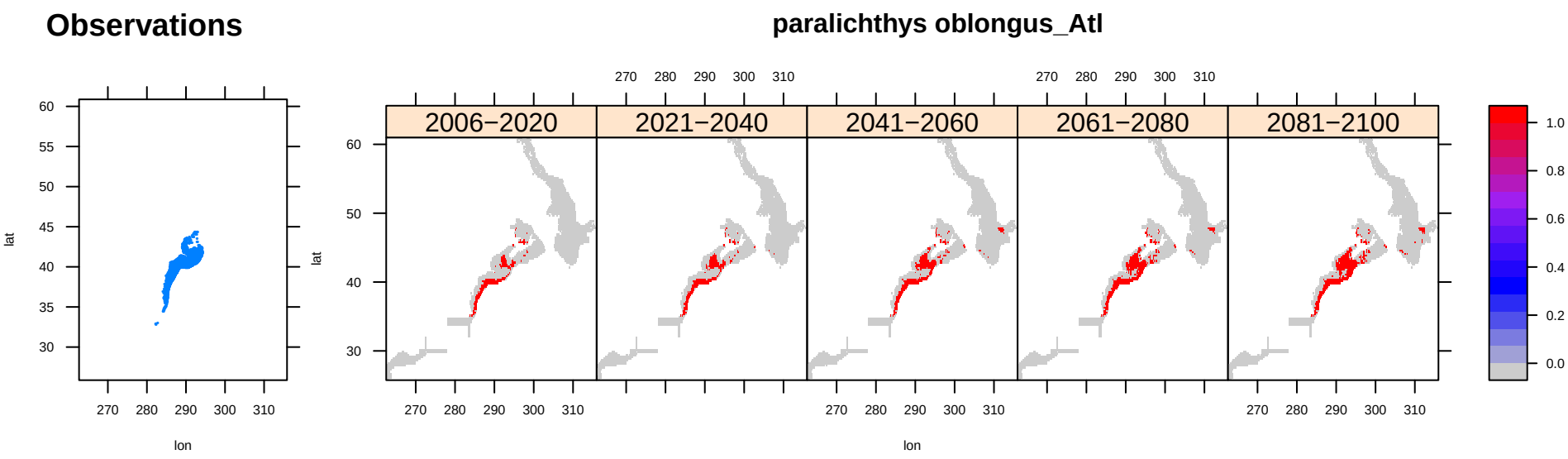
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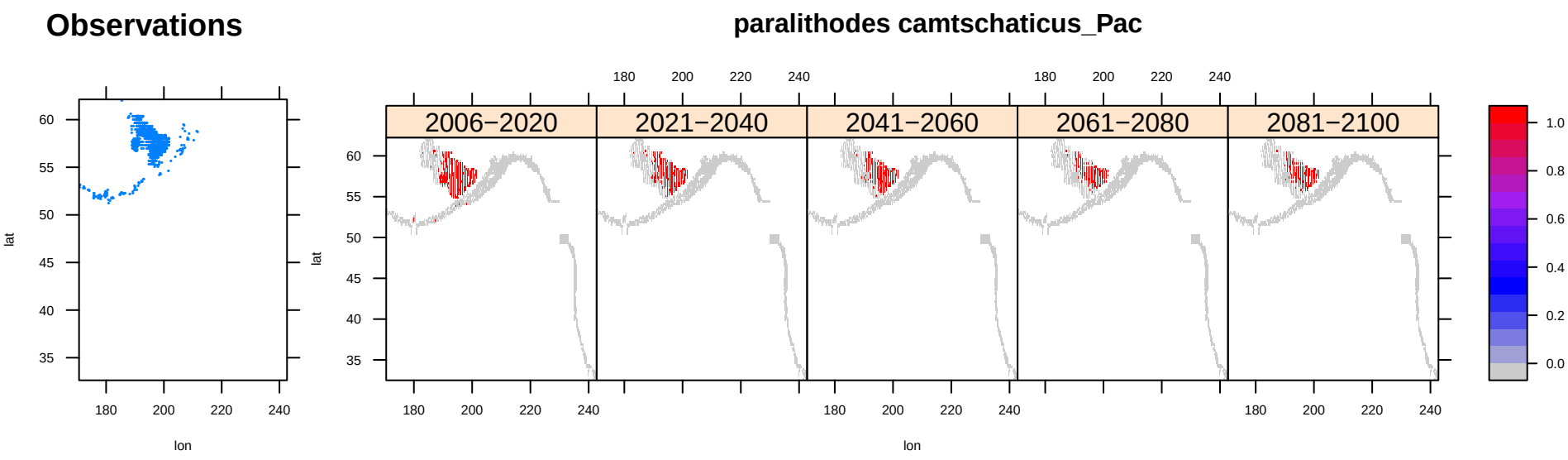
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paralithodes camtschaticus_Pac
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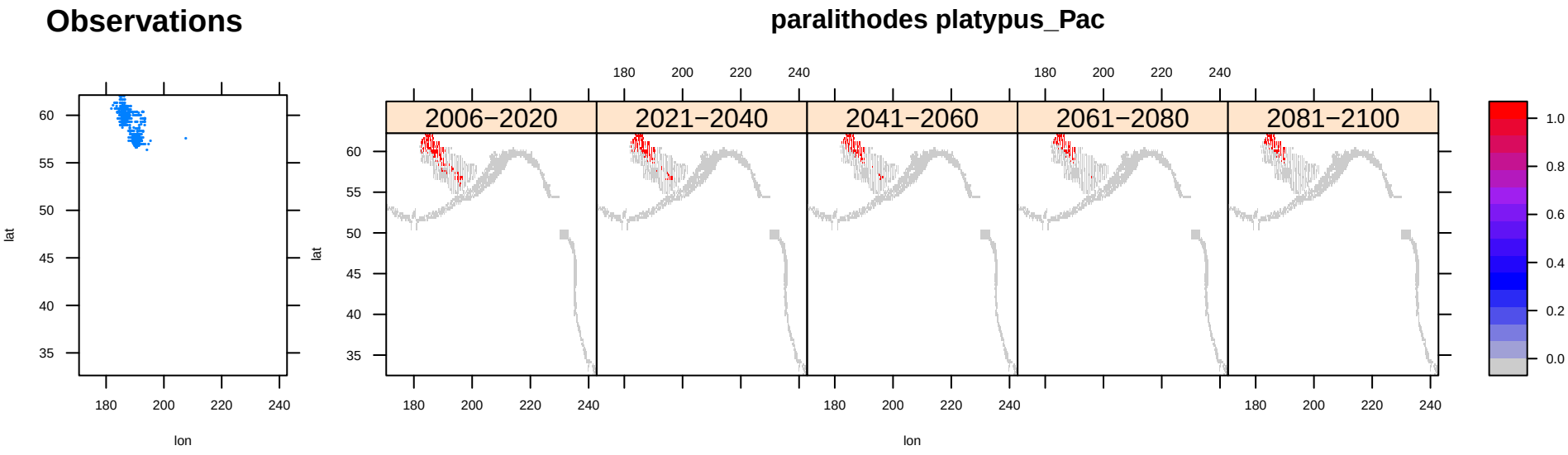
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paralithodes platypus_Pac
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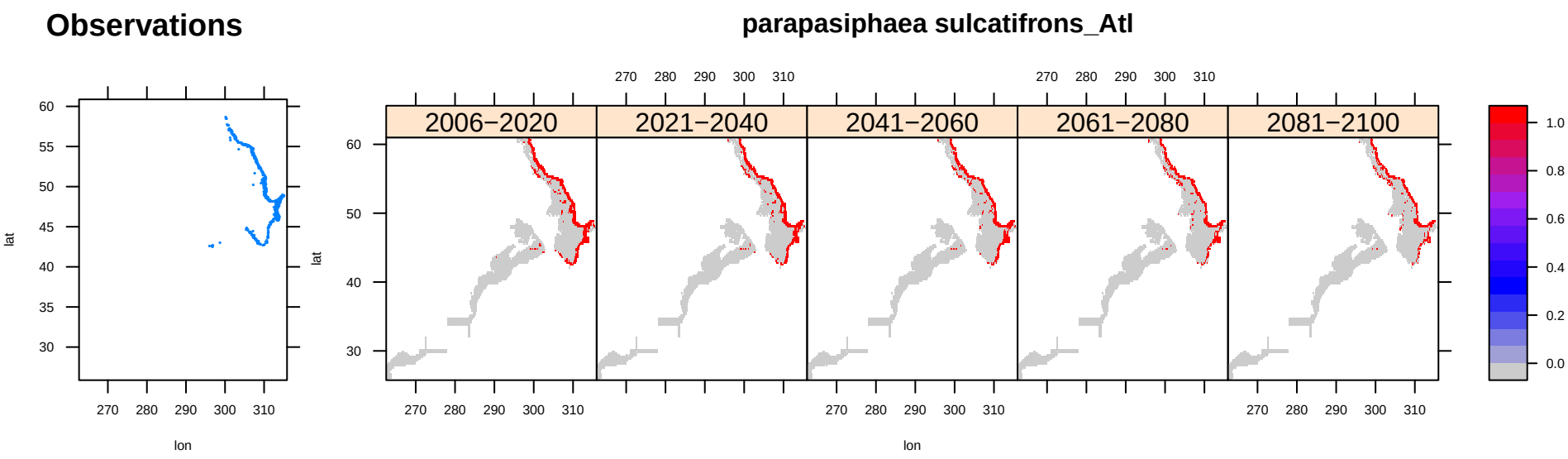
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parapasiphaea sulcatifrons_Atl
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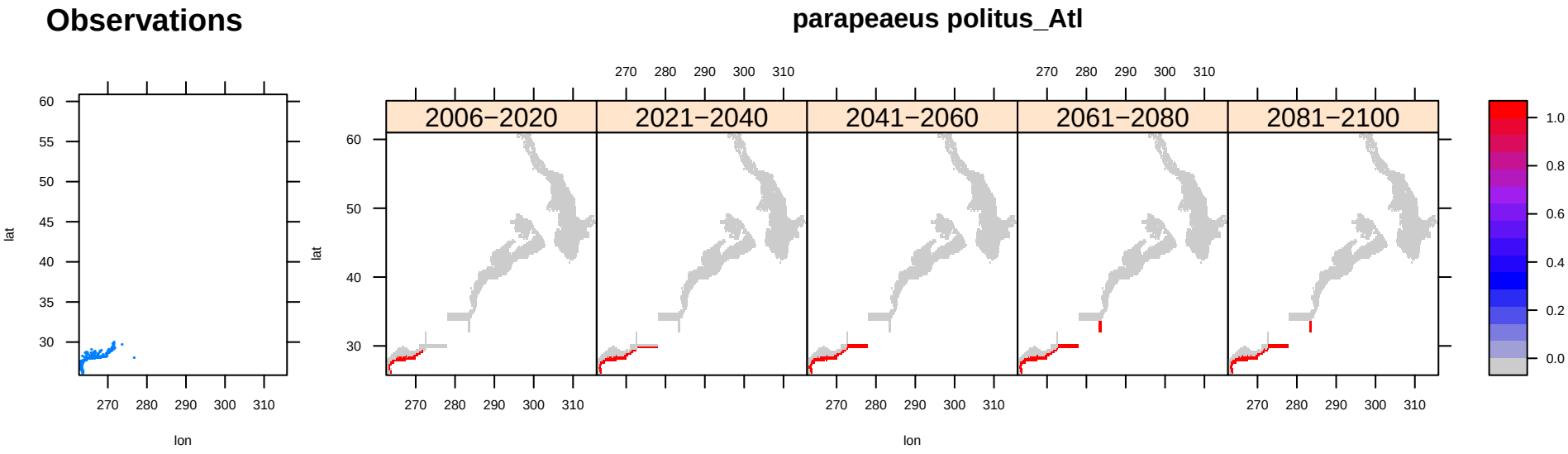
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parapeaeus politus_Atl
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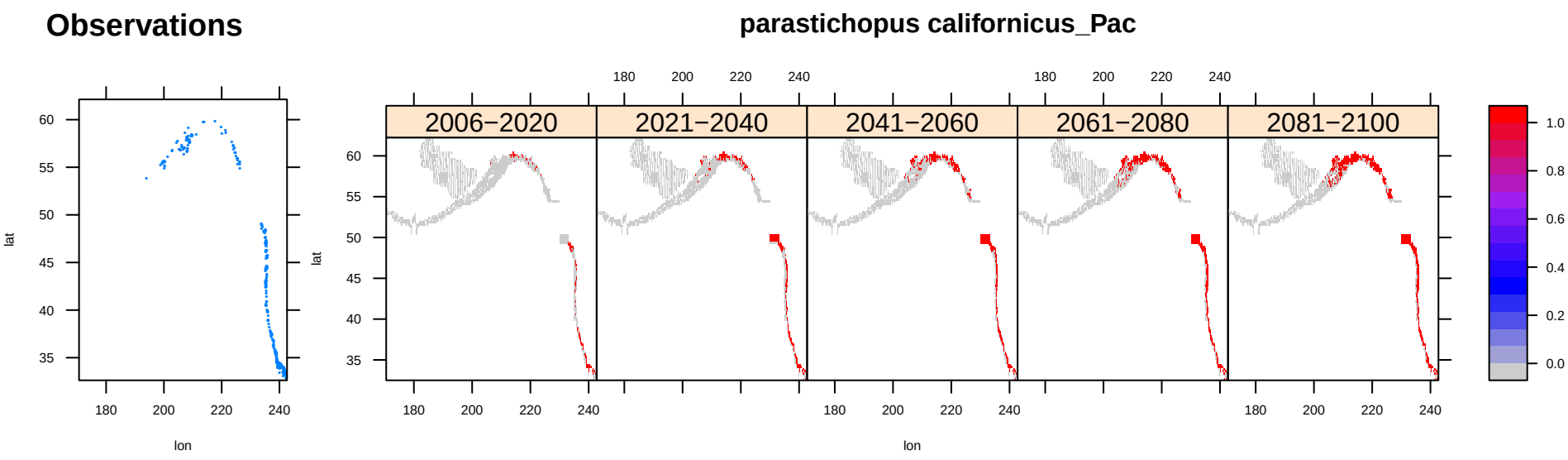
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parastichopus californicus_Pac
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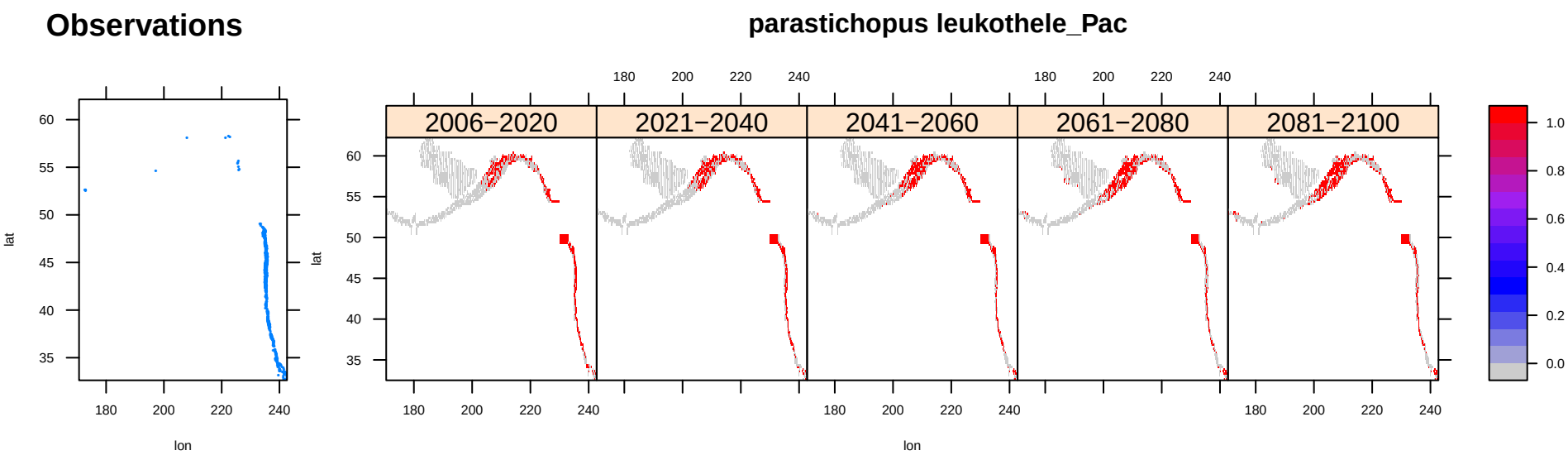
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parastichopus leukothele_Pac
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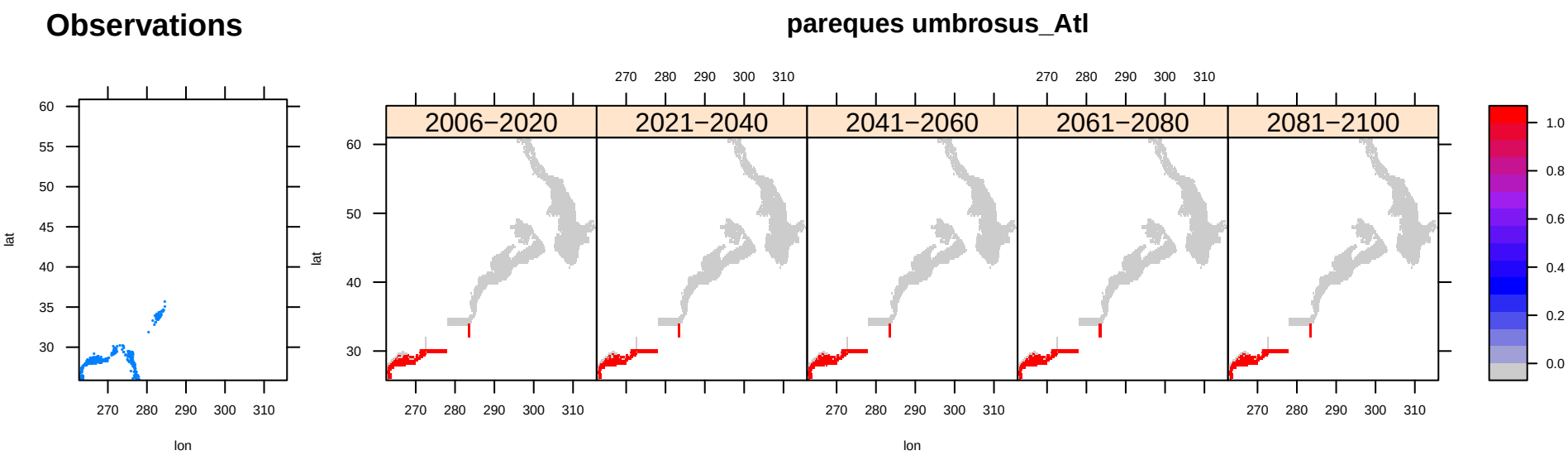
Observations
pareques umbrosus_Atl
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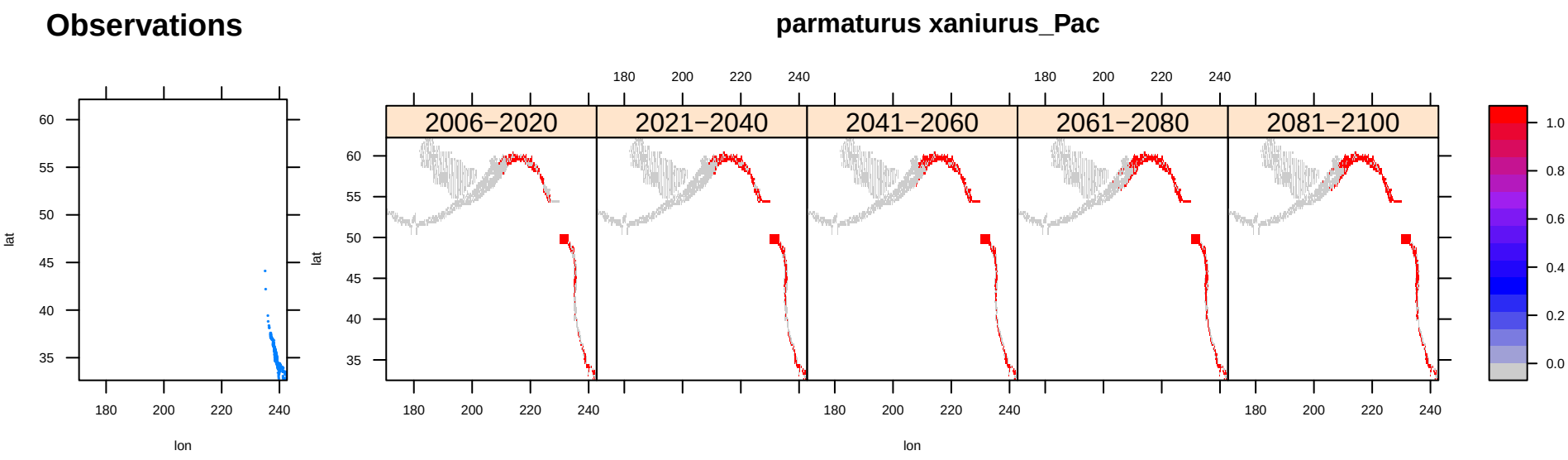
Observations
parmaturus xaniurus_Pac
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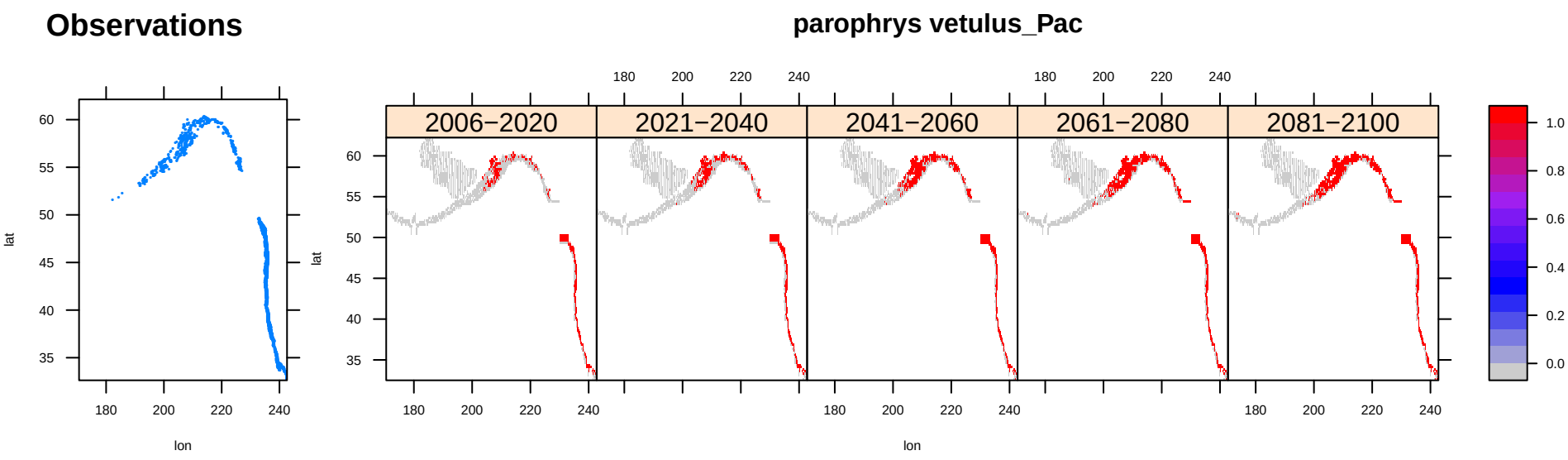
Observations
parophrys vetulus_Pac
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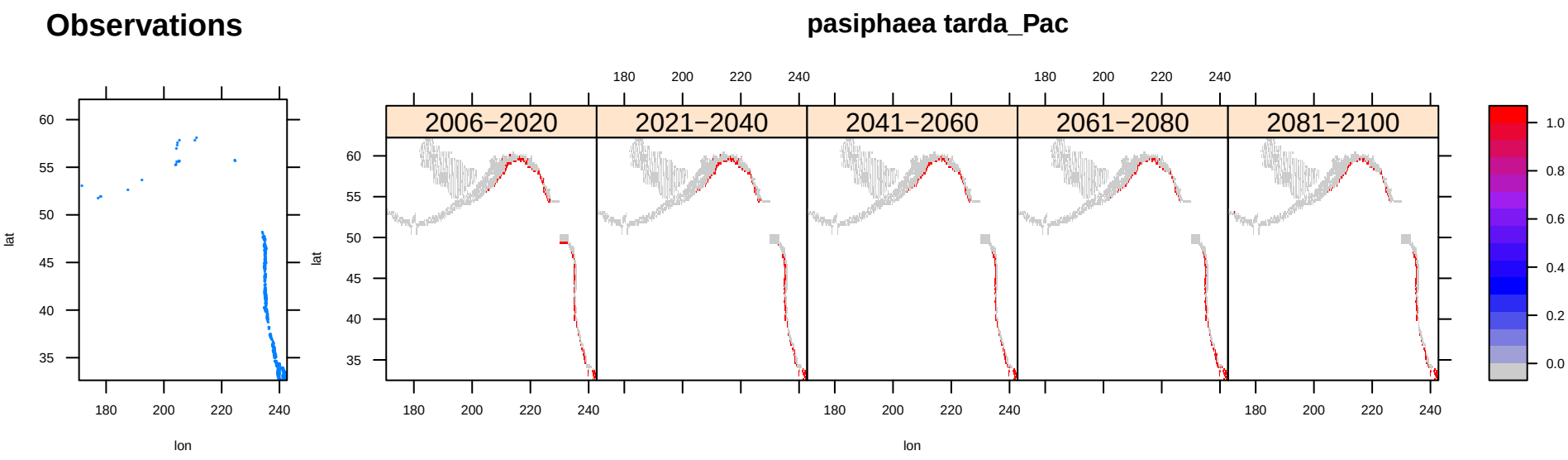
Observations
pasiphaea tarda_Pac
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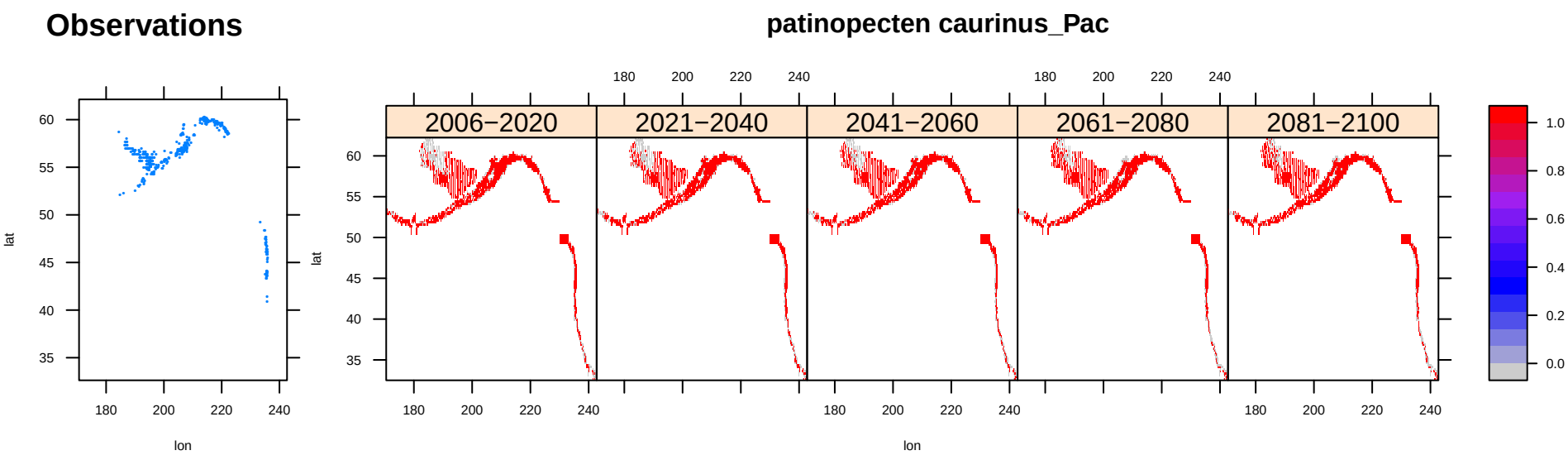
Observations
patinopecten caurinus_Pac
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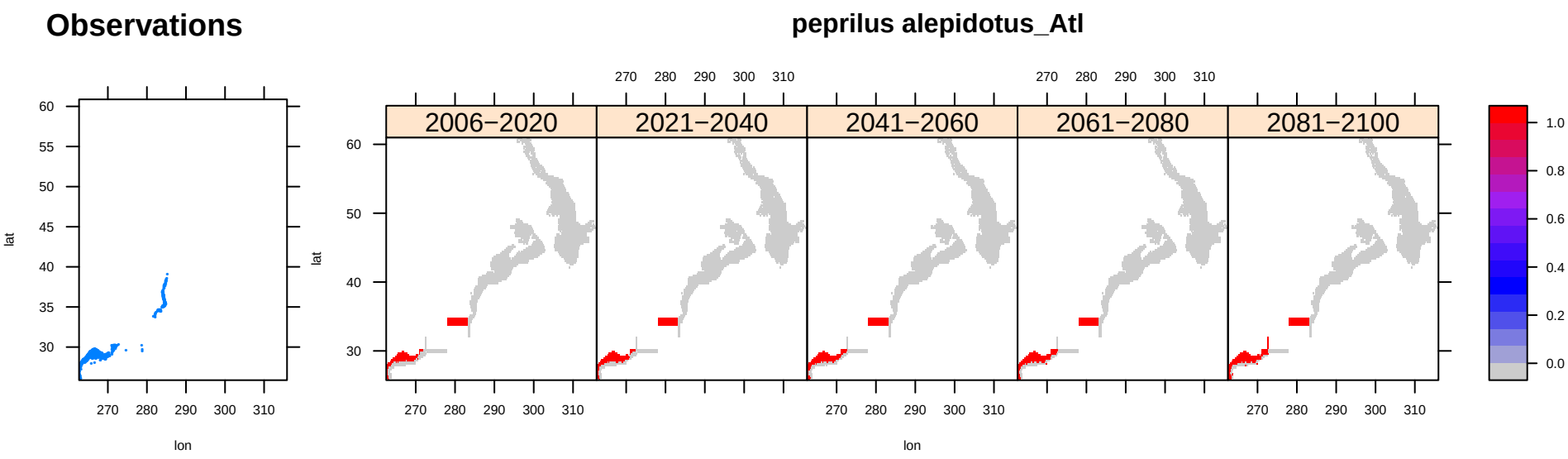
Observations
peprilus alepidotus_Atl
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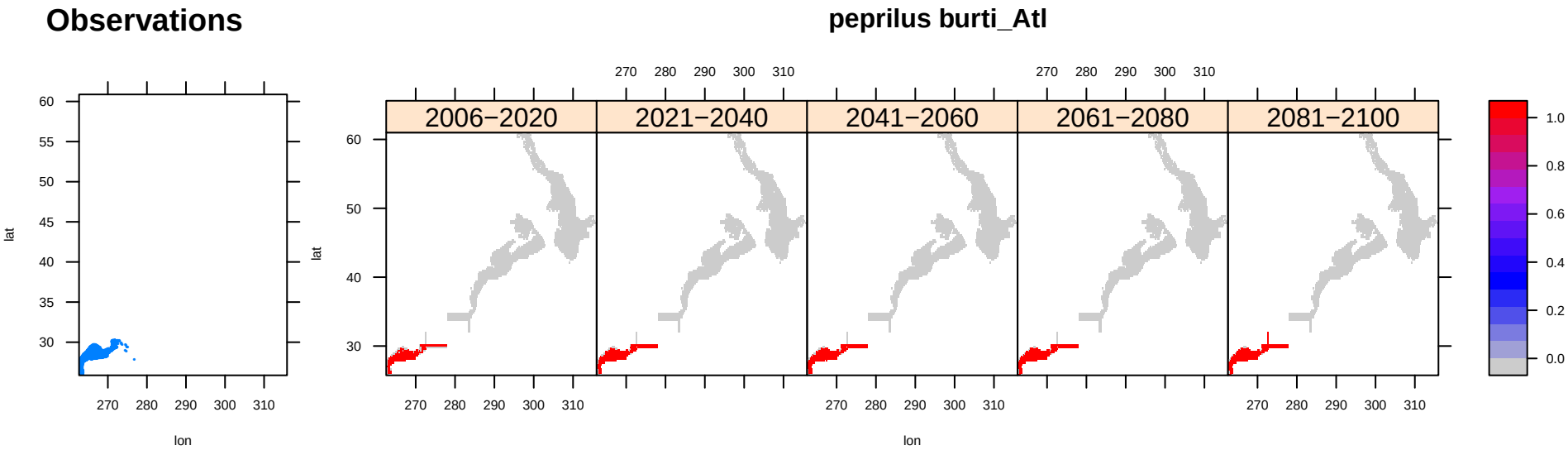
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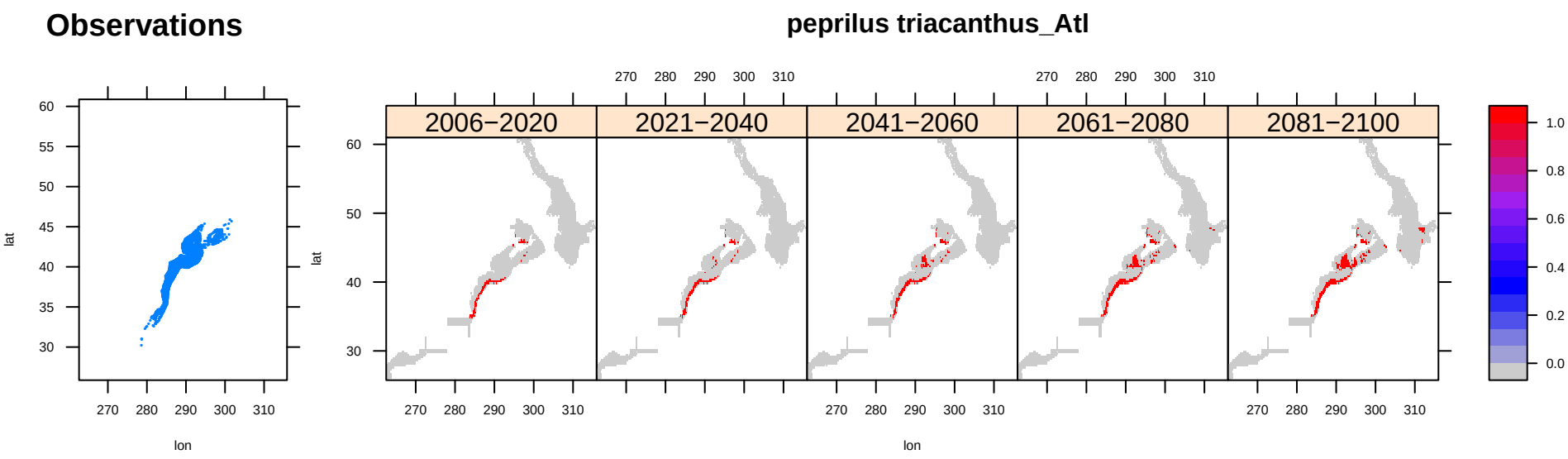
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peprilus triacanthus_Atl
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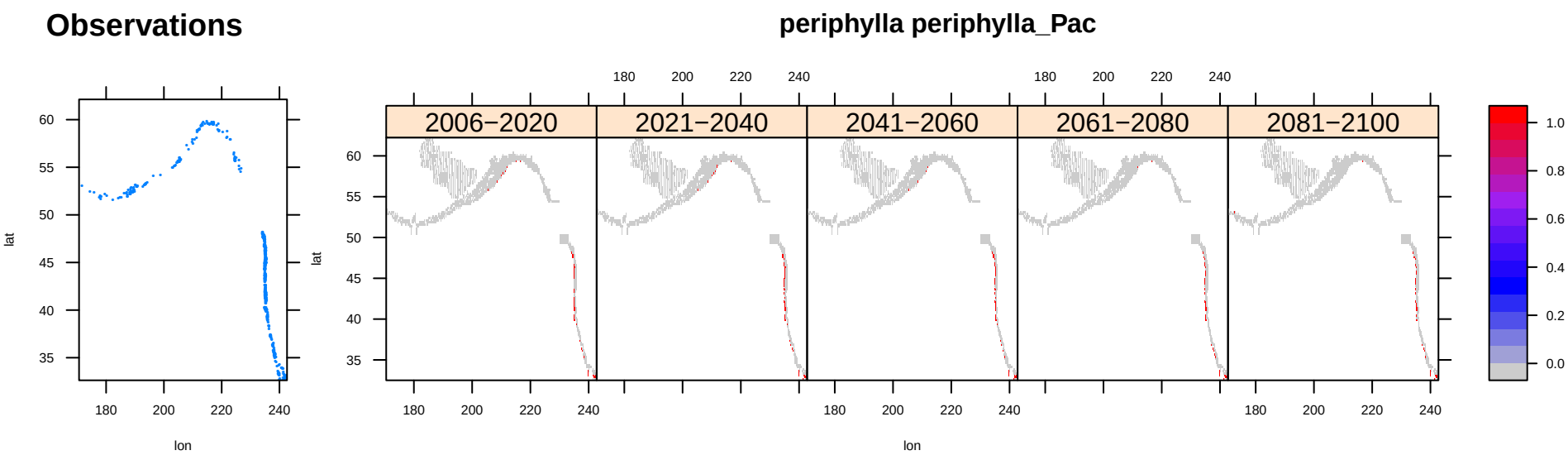
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periphylla periphylla_Pac
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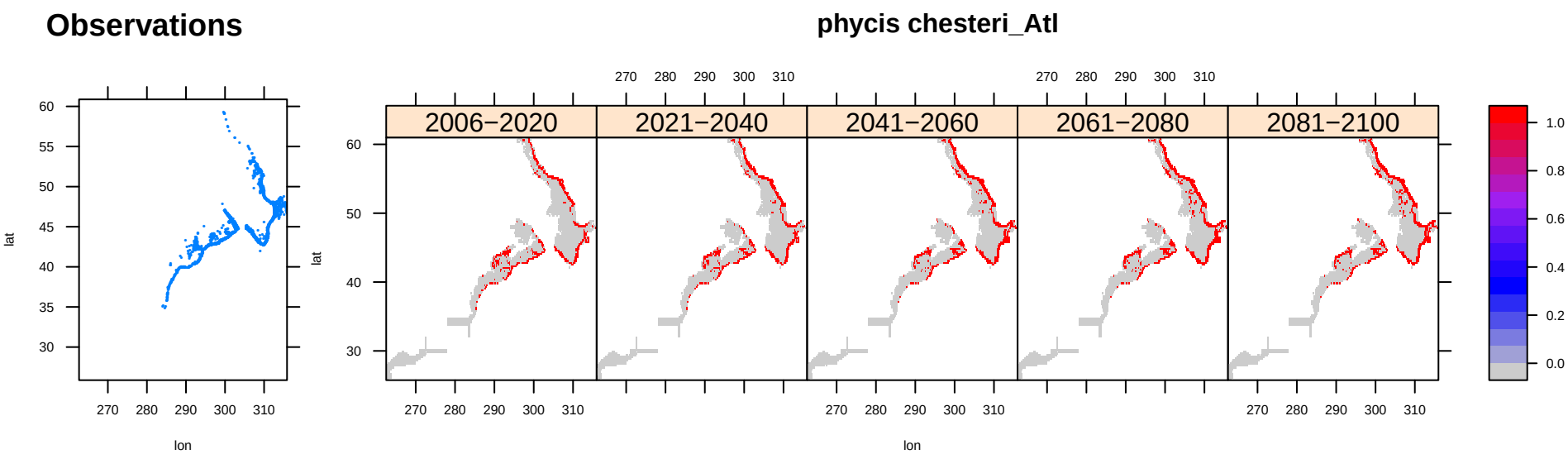
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phycis chesteri_Atl
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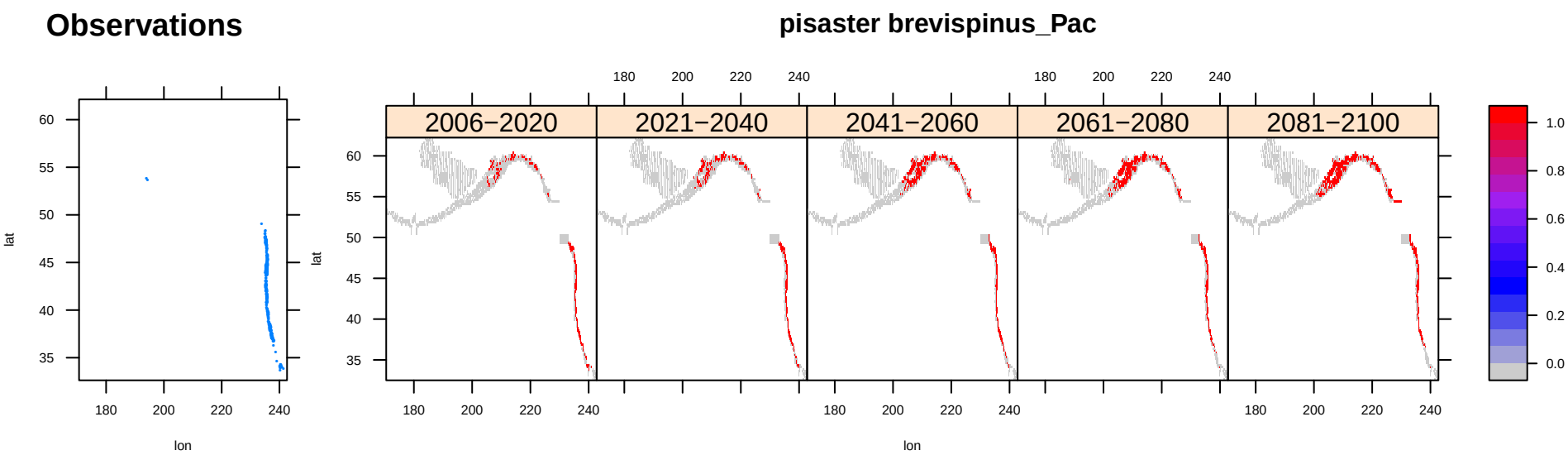
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pisaster brevispinus_Pac
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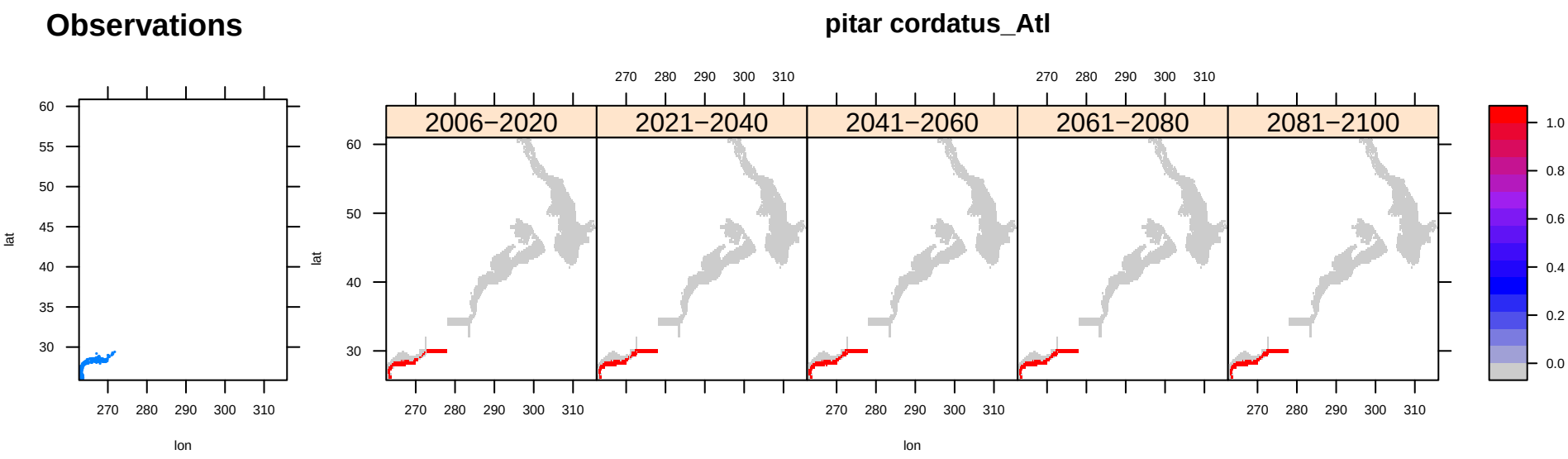
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pitar cordatus_Atl
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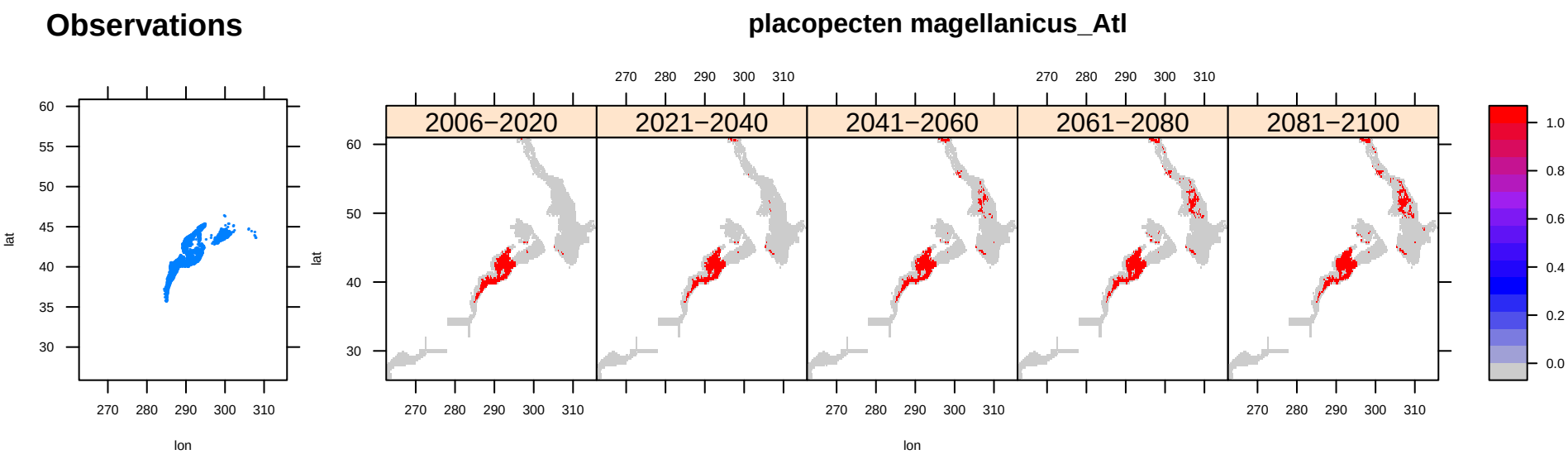
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placopecten magellanicus_Atl
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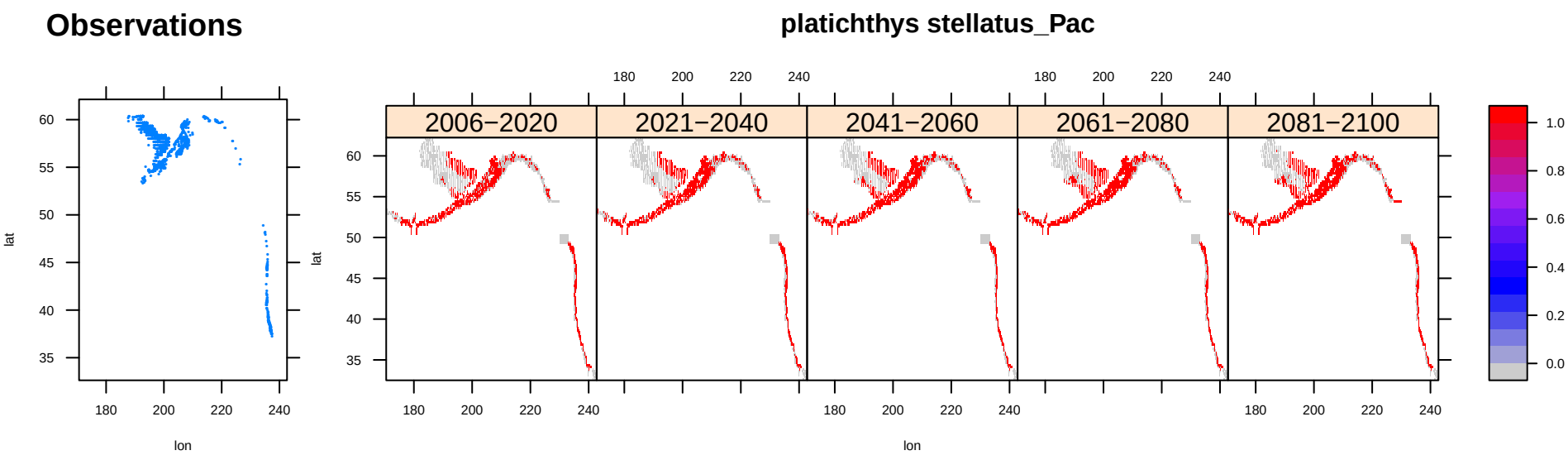
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platichthys stellatus_Pac
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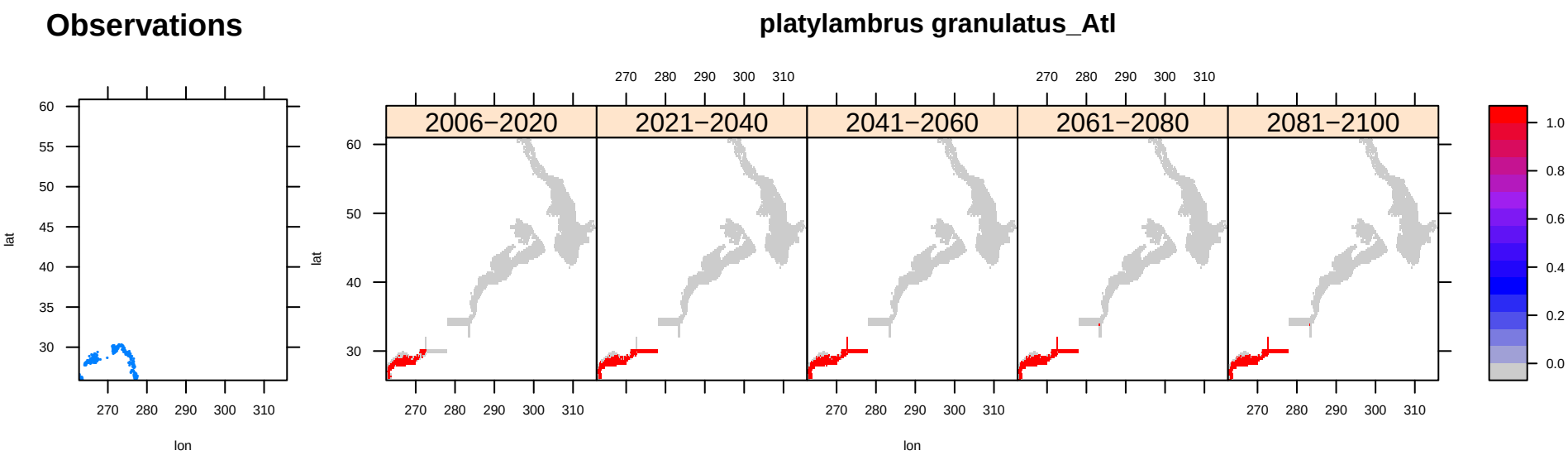
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platylambrus granulatus_Atl
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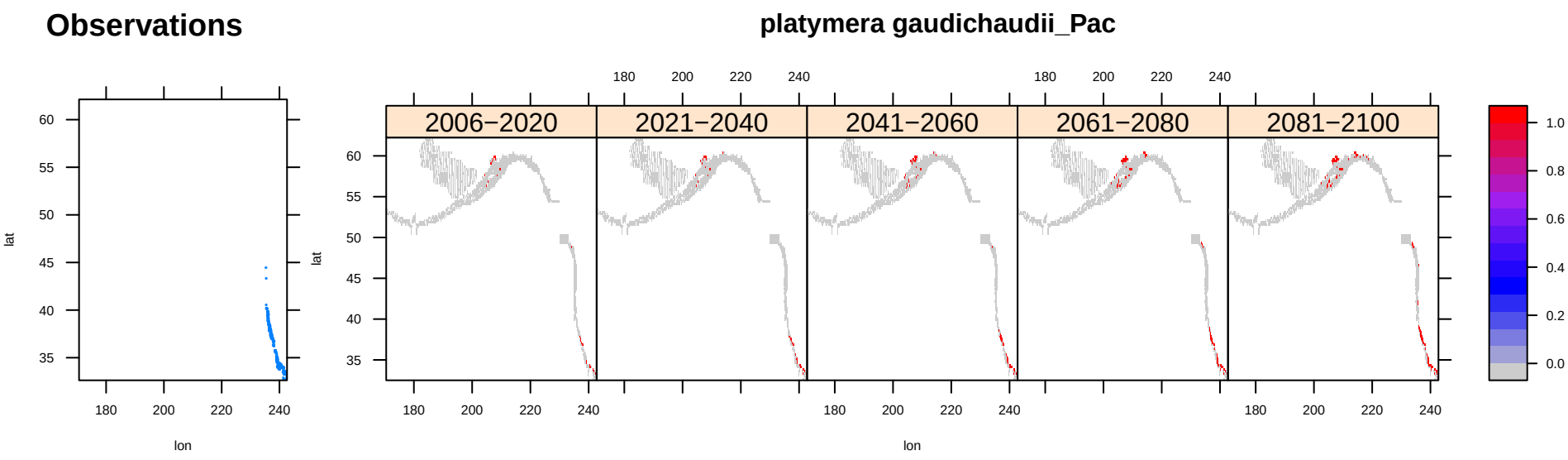
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platymera gaudichaudii_Pac
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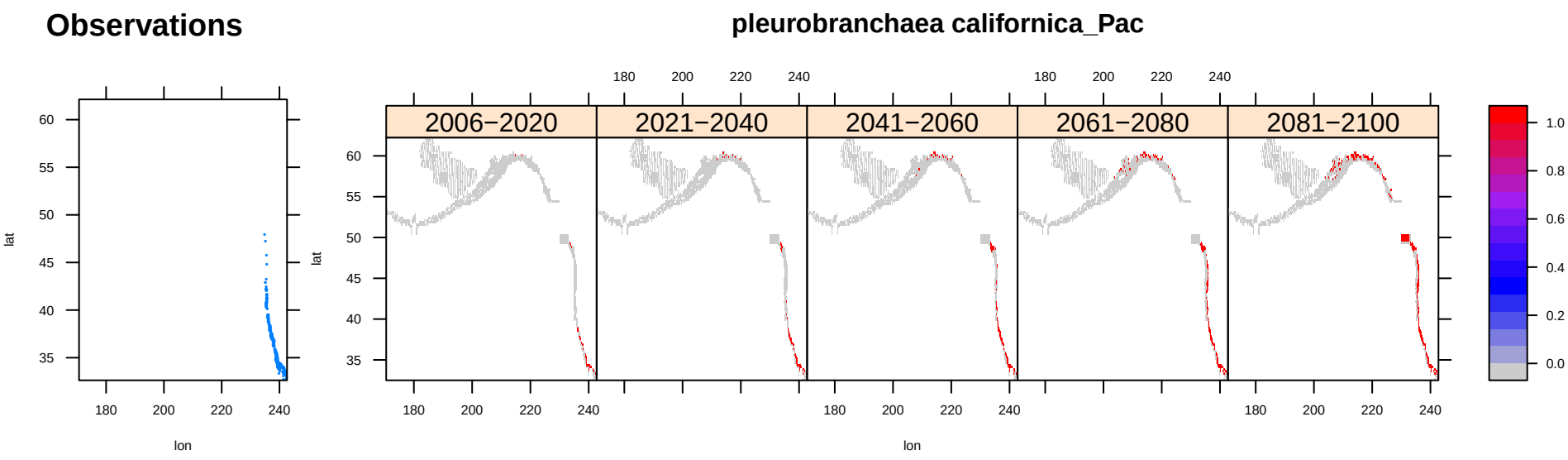
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pleurobranchaea californica_Pac
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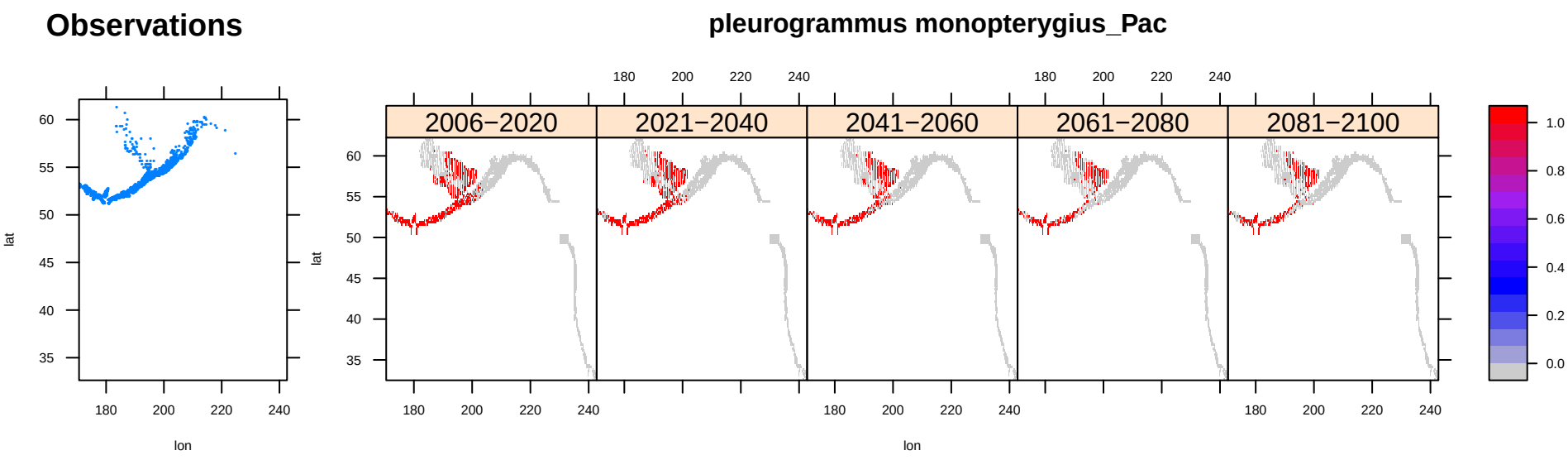
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pleurogrammus monopterygius_Pac
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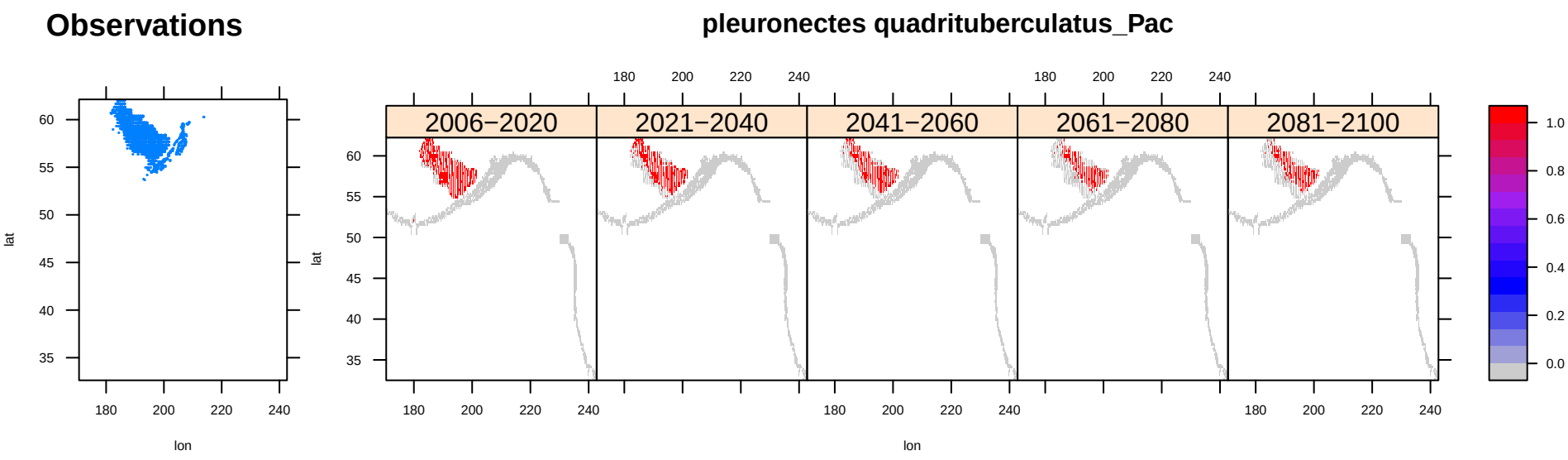
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pleuronectes quadrituberculatus_Pac
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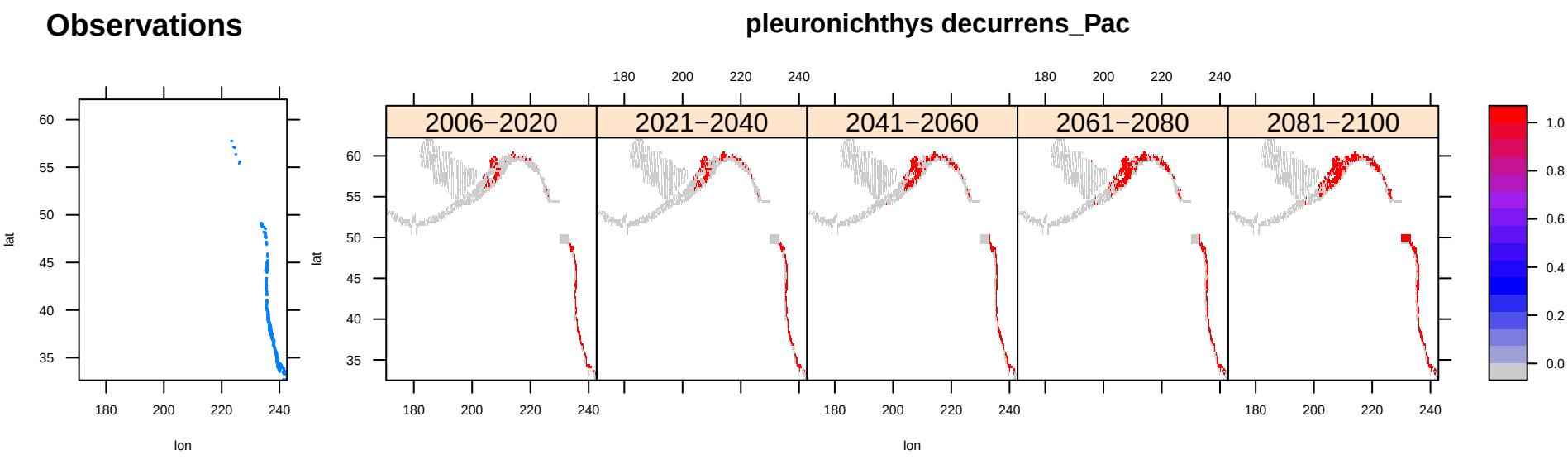
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pleuronichthys decurrens_Pac
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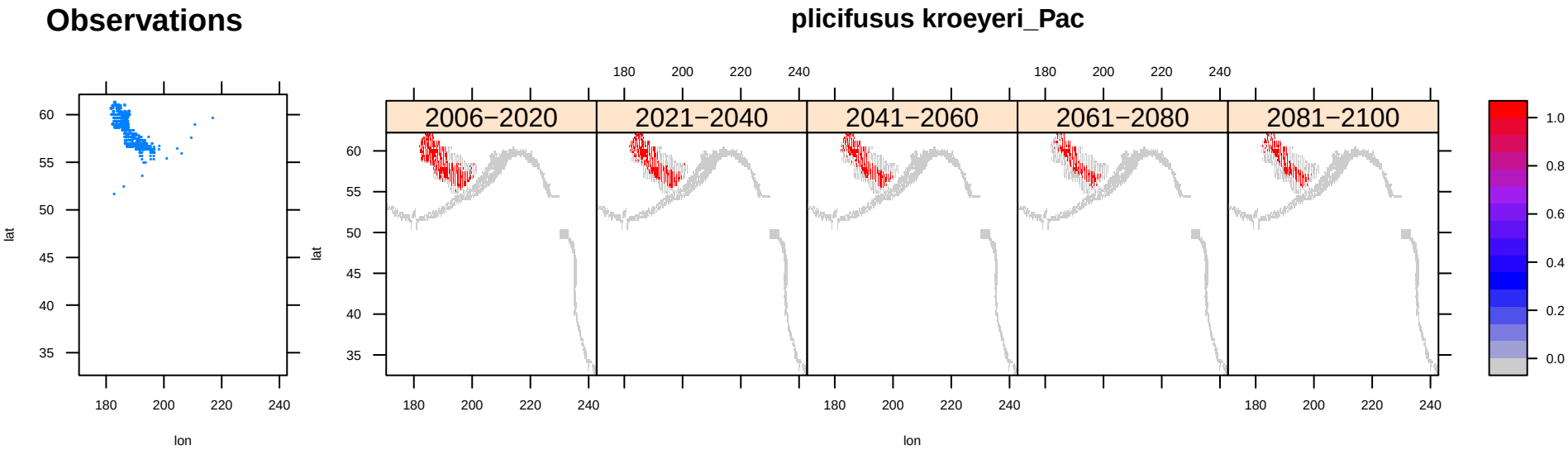
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plicifusus kroeyeri_Pac
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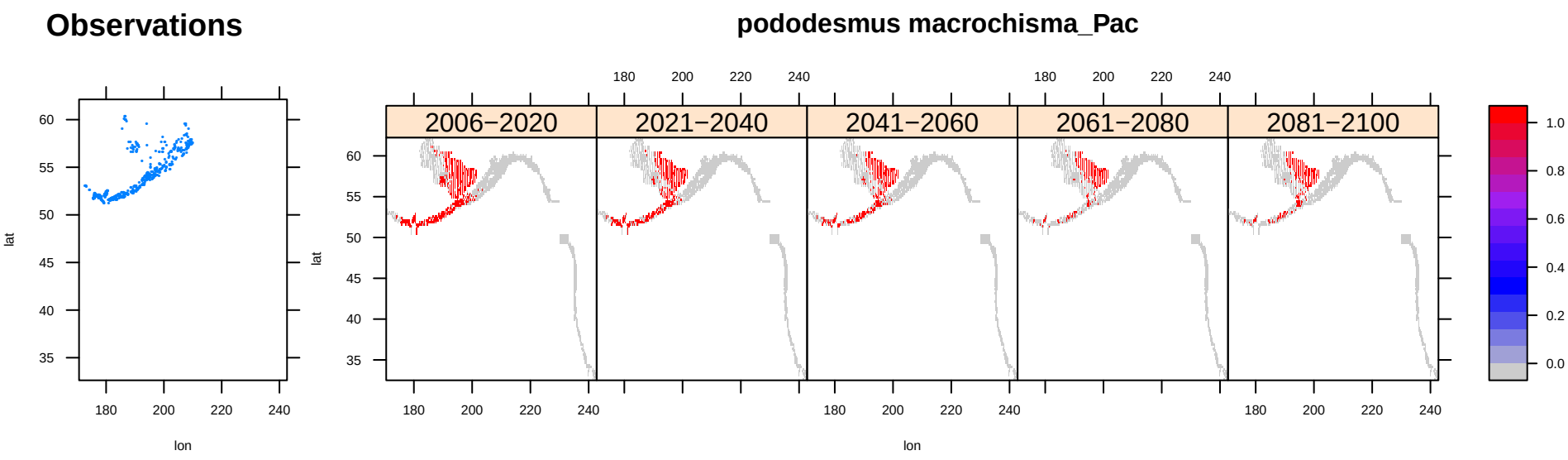
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pododesmus macrochisma_Pac
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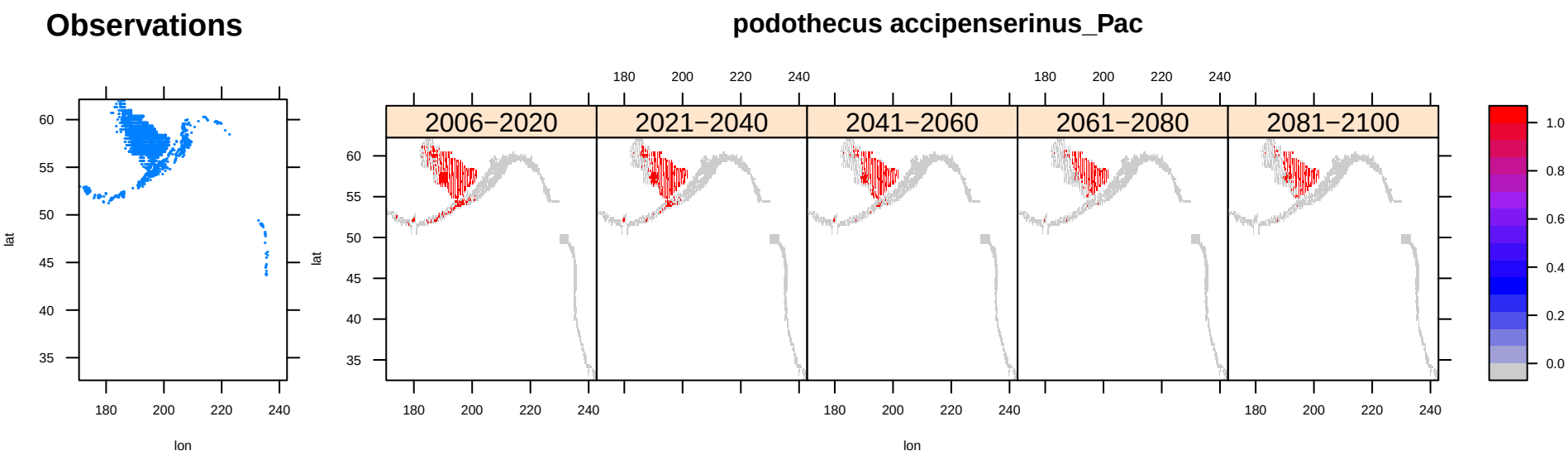
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podothecus accipenserinus_Pac
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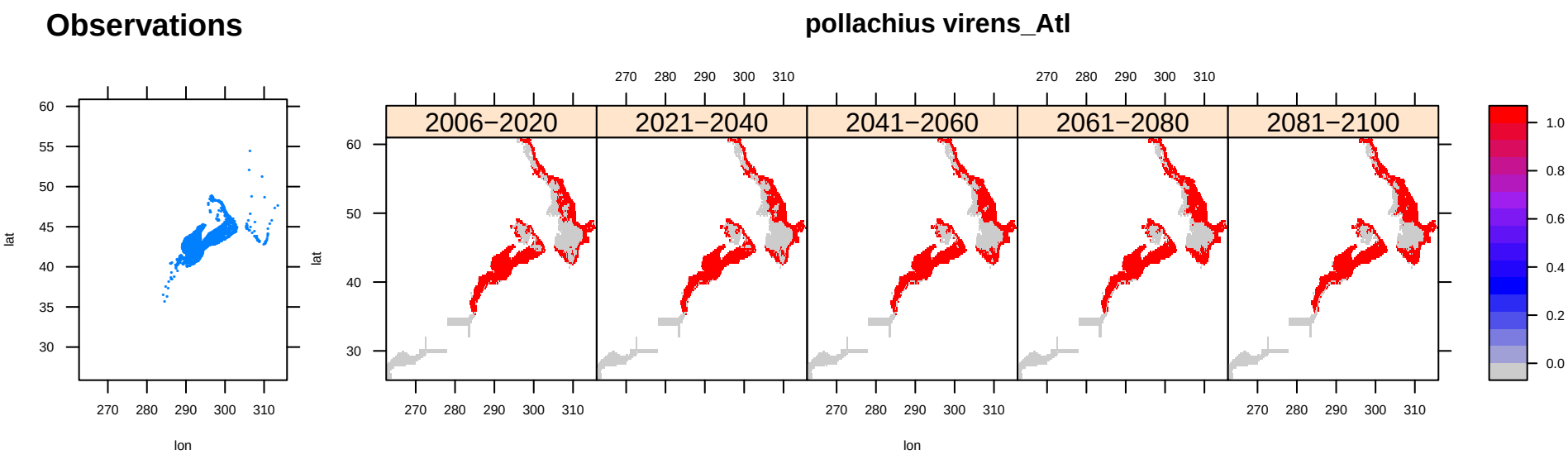
Observations
pollachius virens_Atl
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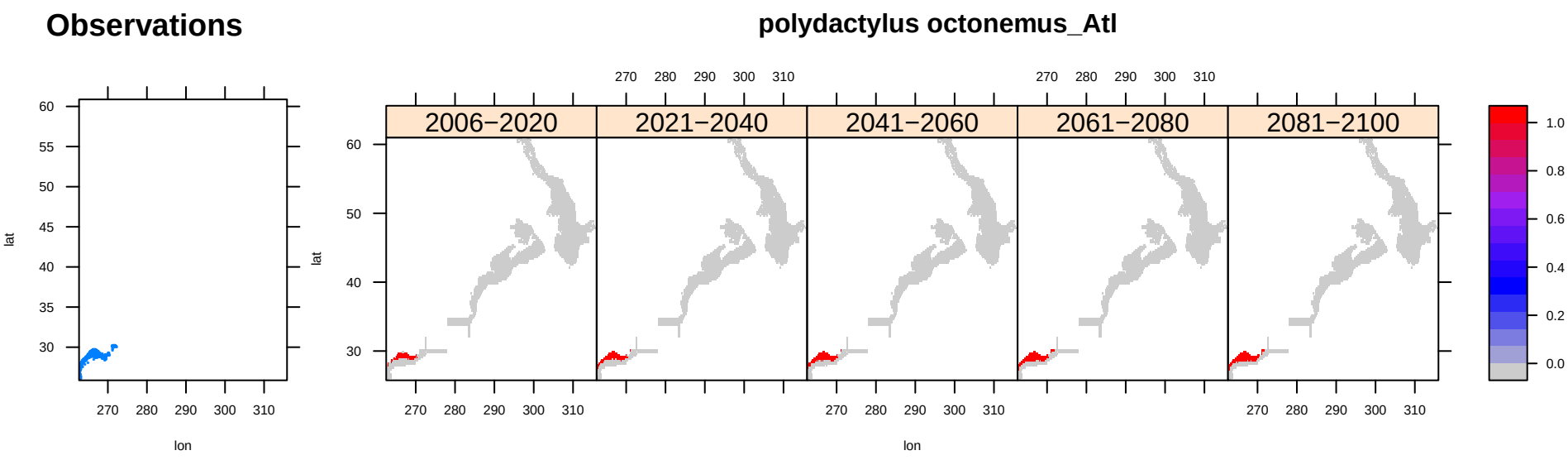
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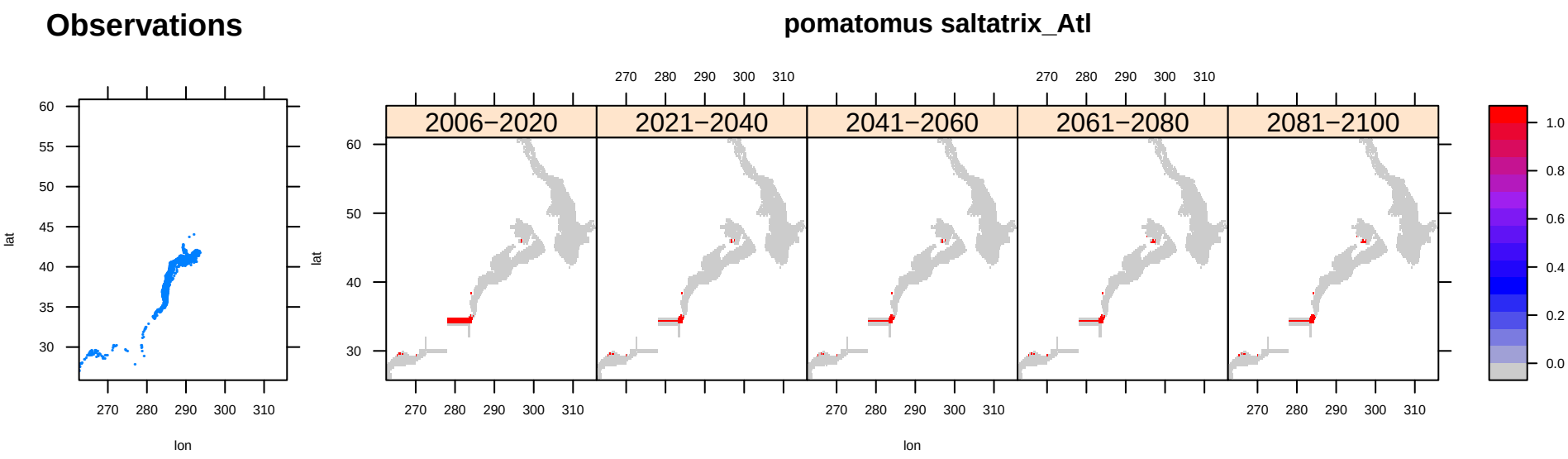
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pomatomus saltatrix_Atl
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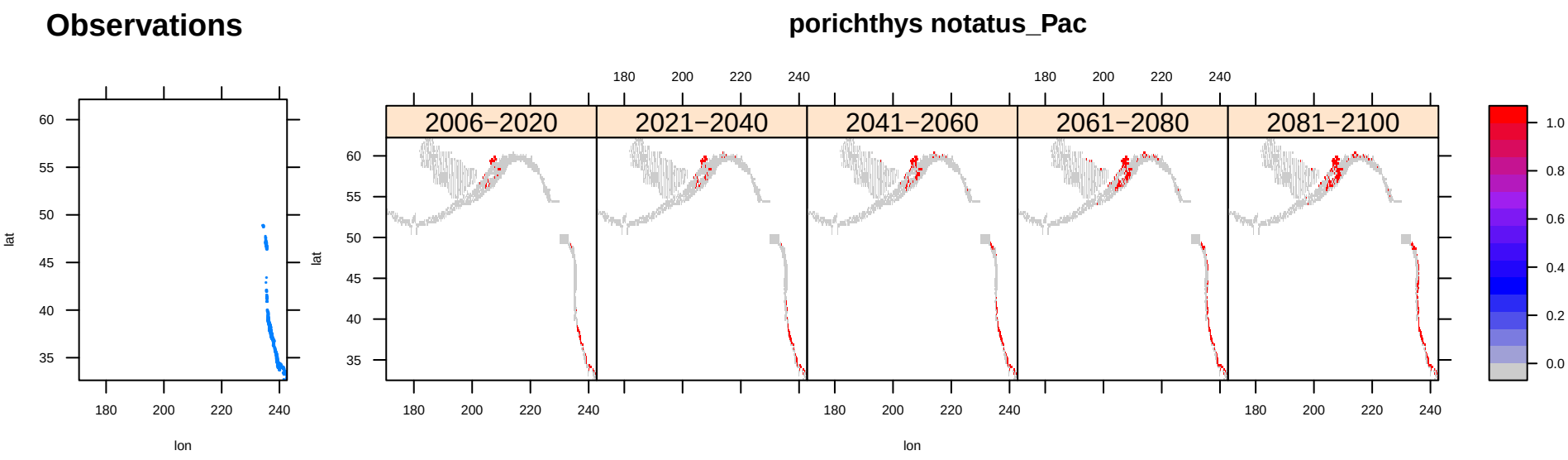
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porichthys notatus_Pac
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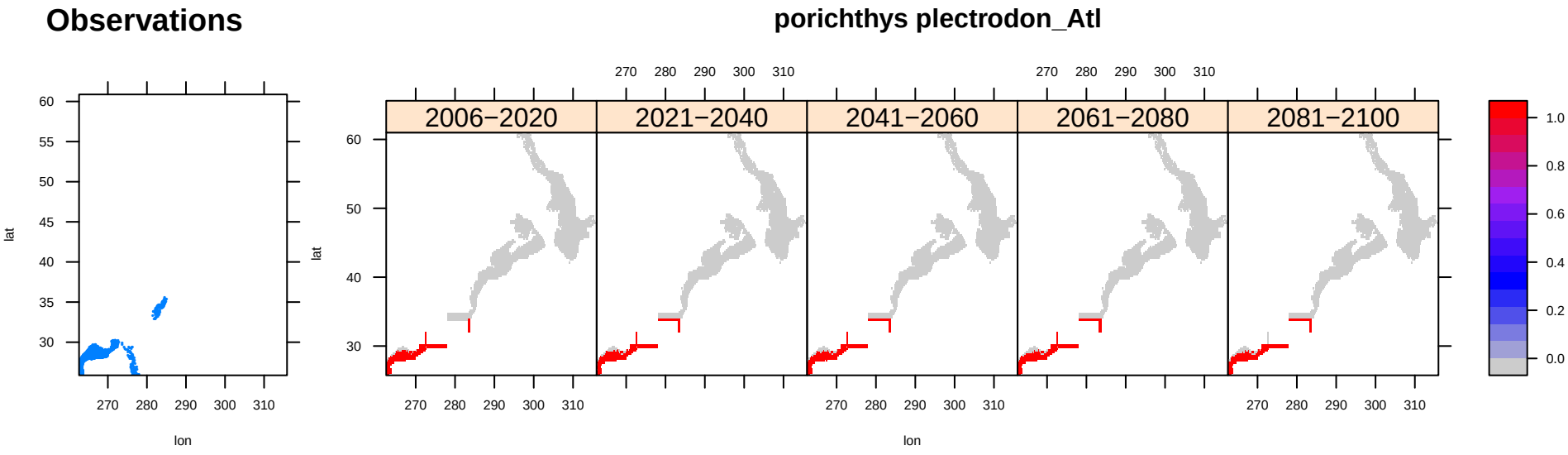
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porichthys plectrodon_Atl
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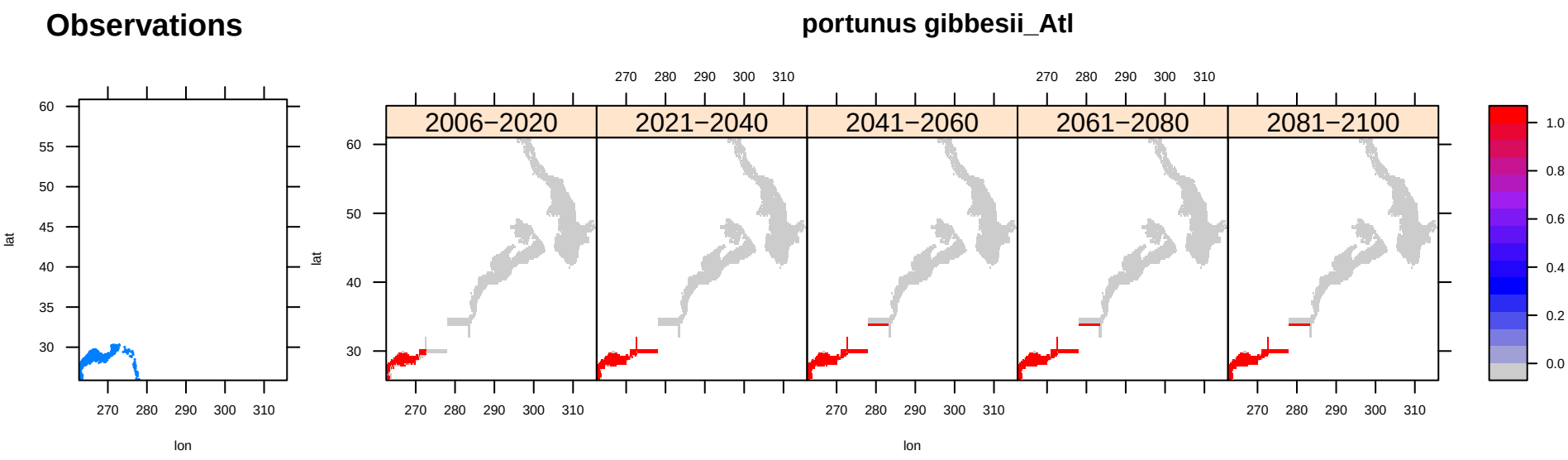
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portunus gibbesii_Atl
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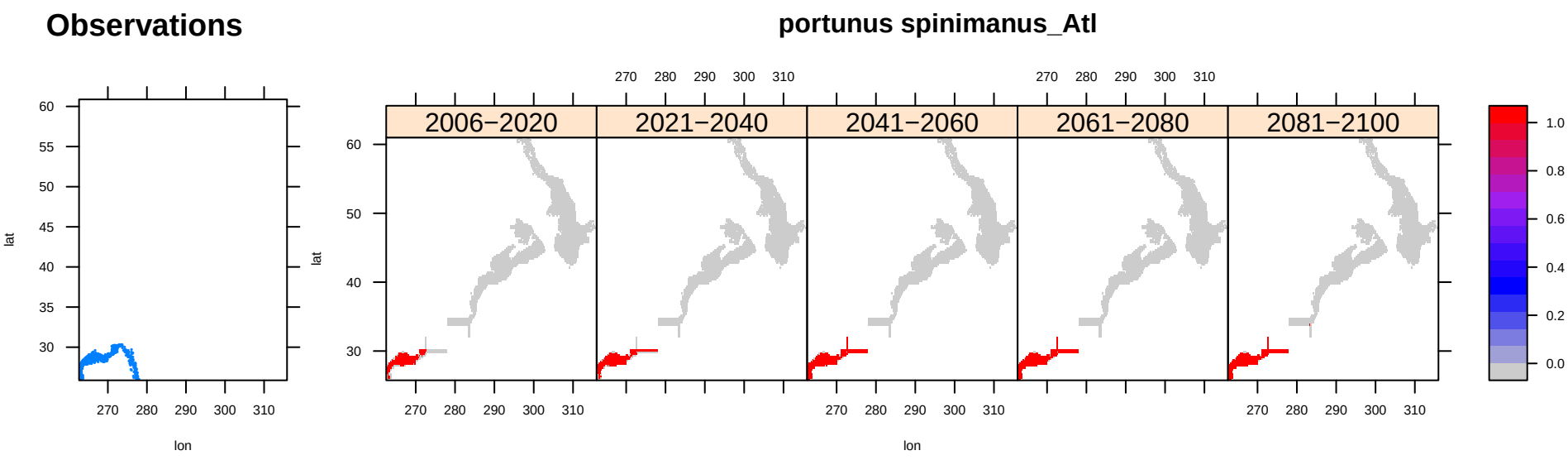
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portunus spinimanus_Atl
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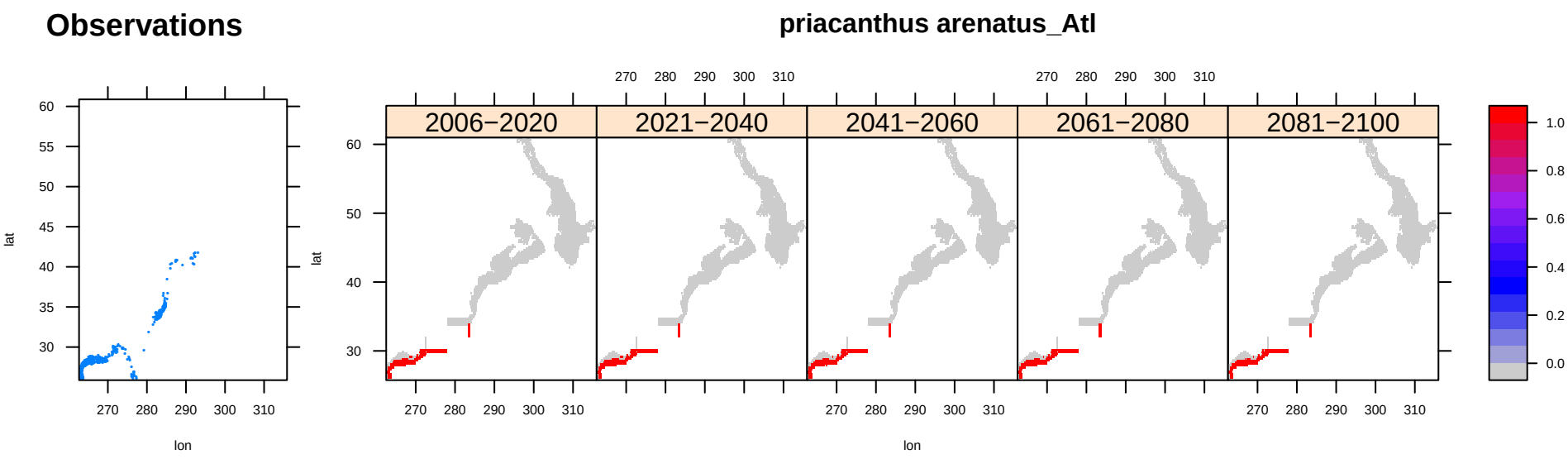
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priacanthus arenatus_Atl
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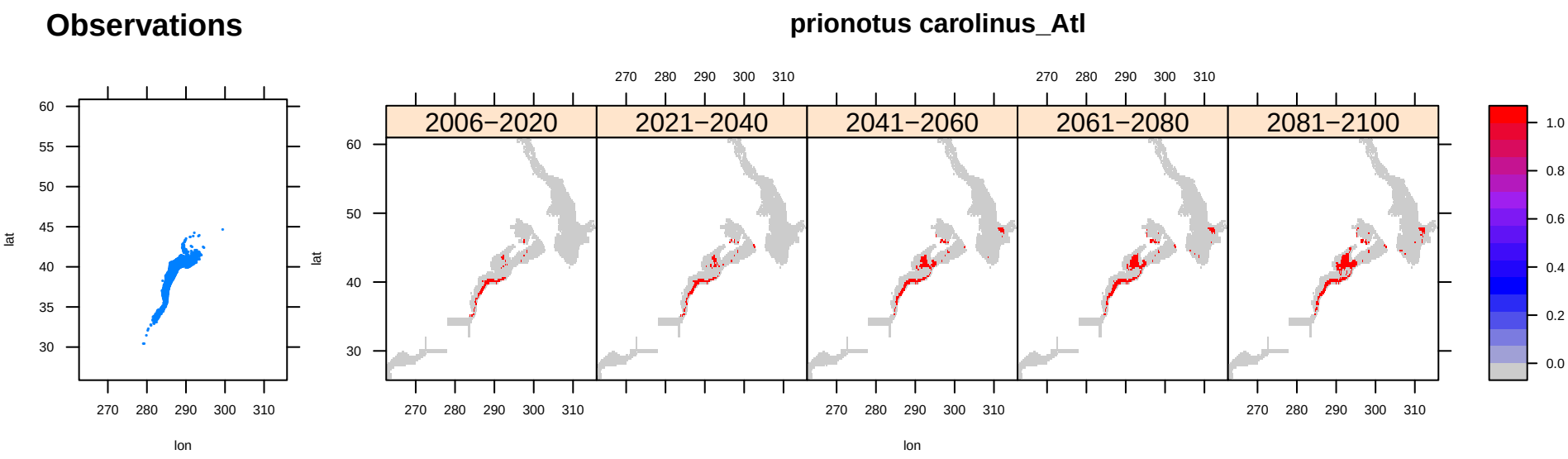
Observations
prionotus carolinus_Atl
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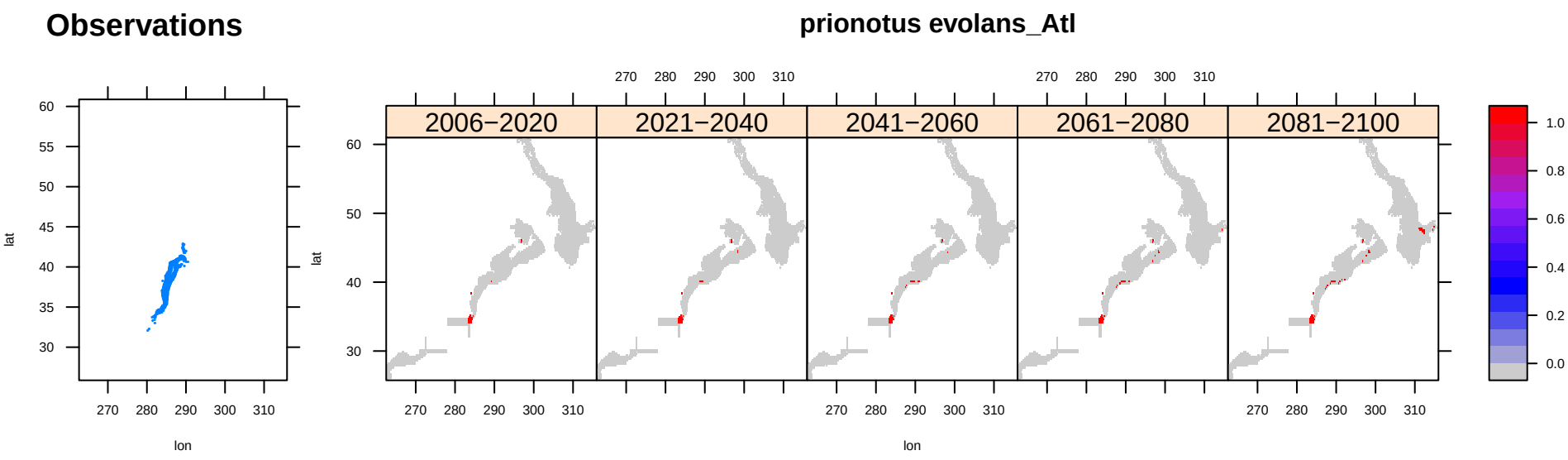
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prionotus evolans_Atl
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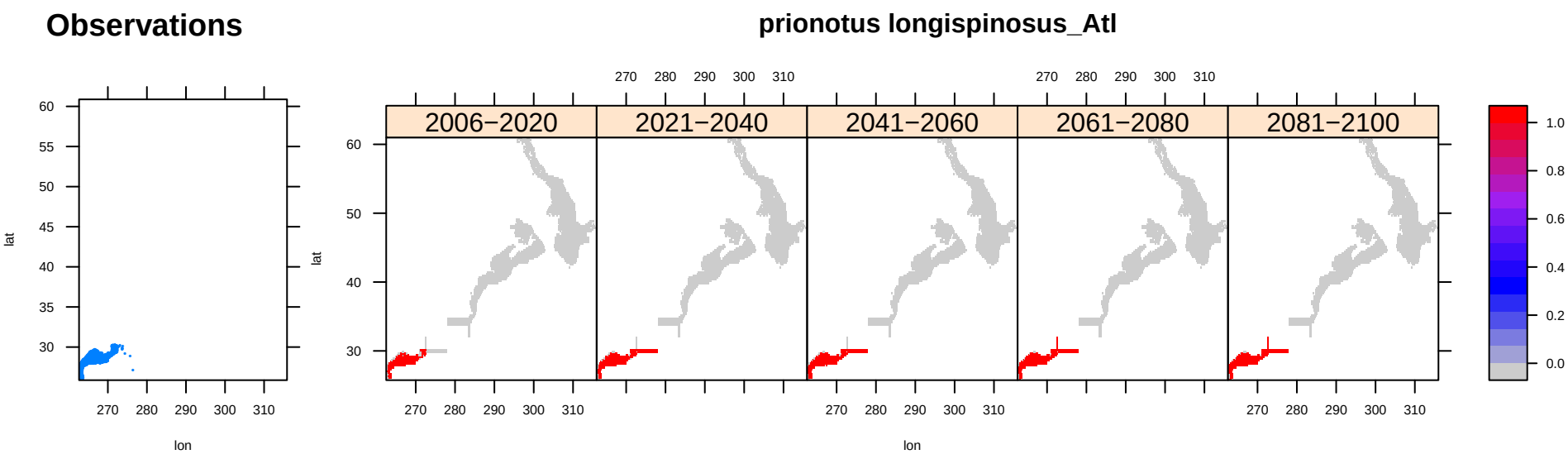
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prionotus longispinosus_Atl
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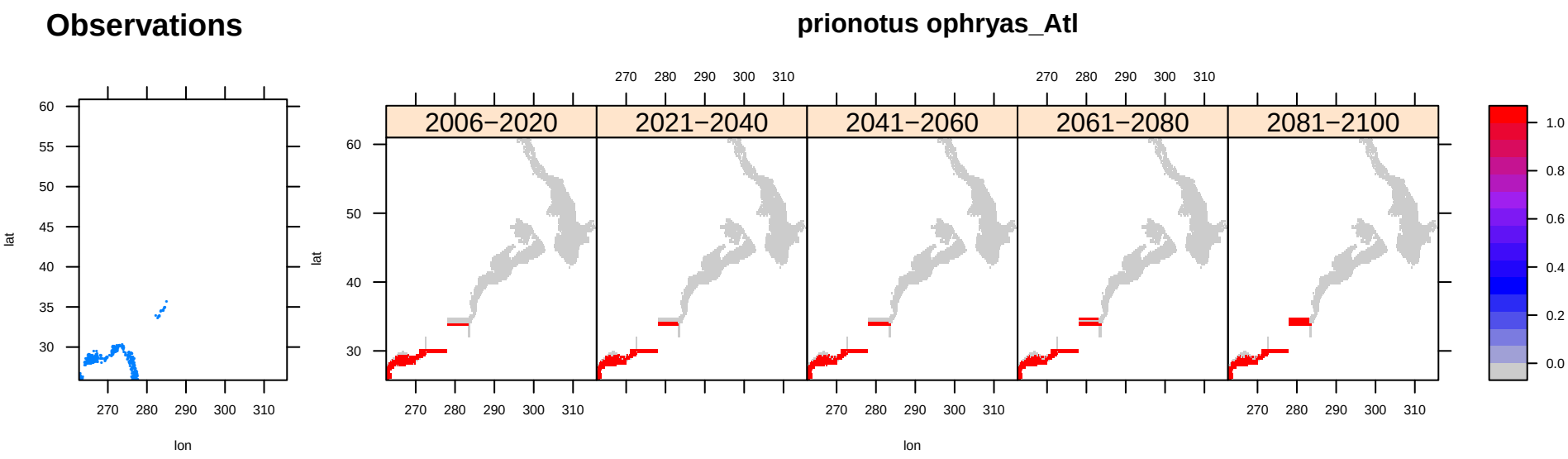
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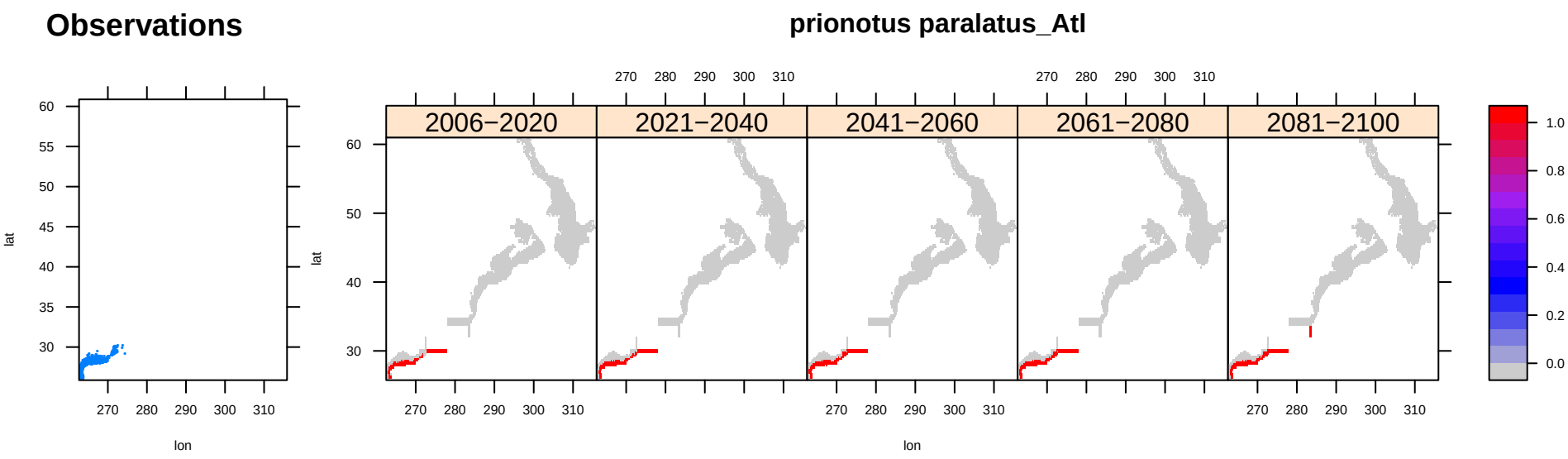
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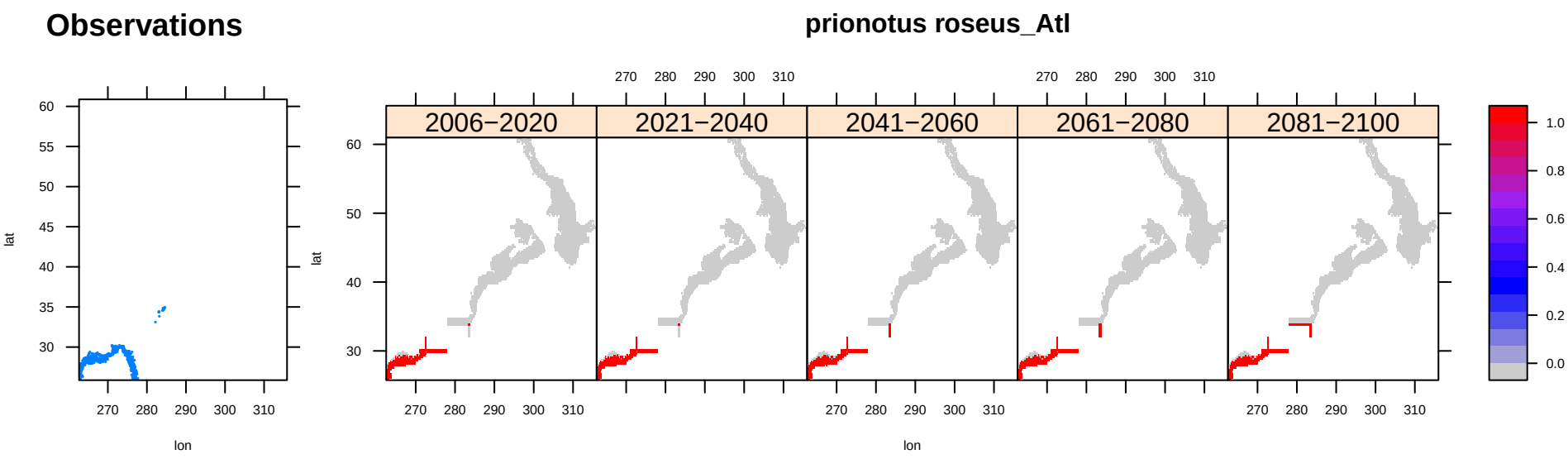
Observations
prionotus roseus_Atl
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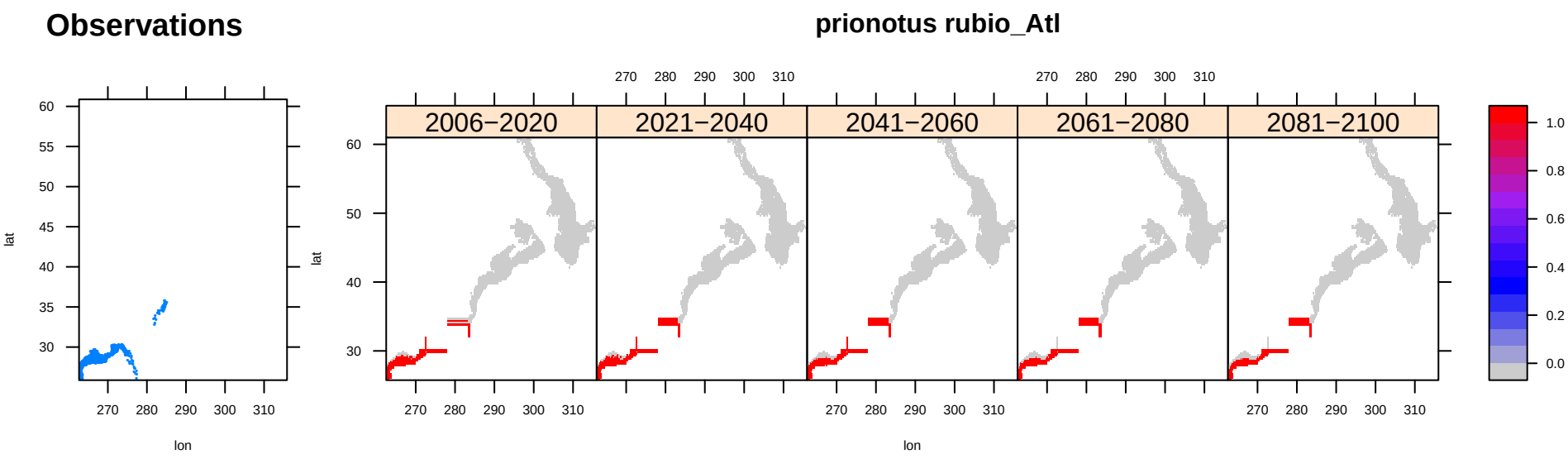
Observations
prionotus rubio_Atl
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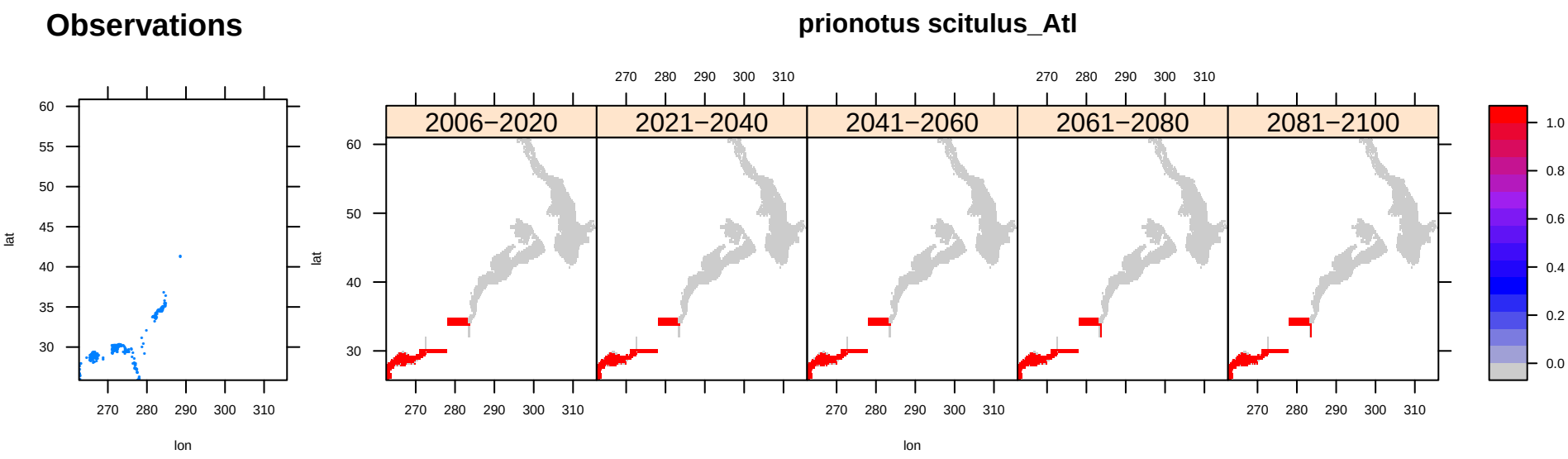
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prionotus scitulus_Atl
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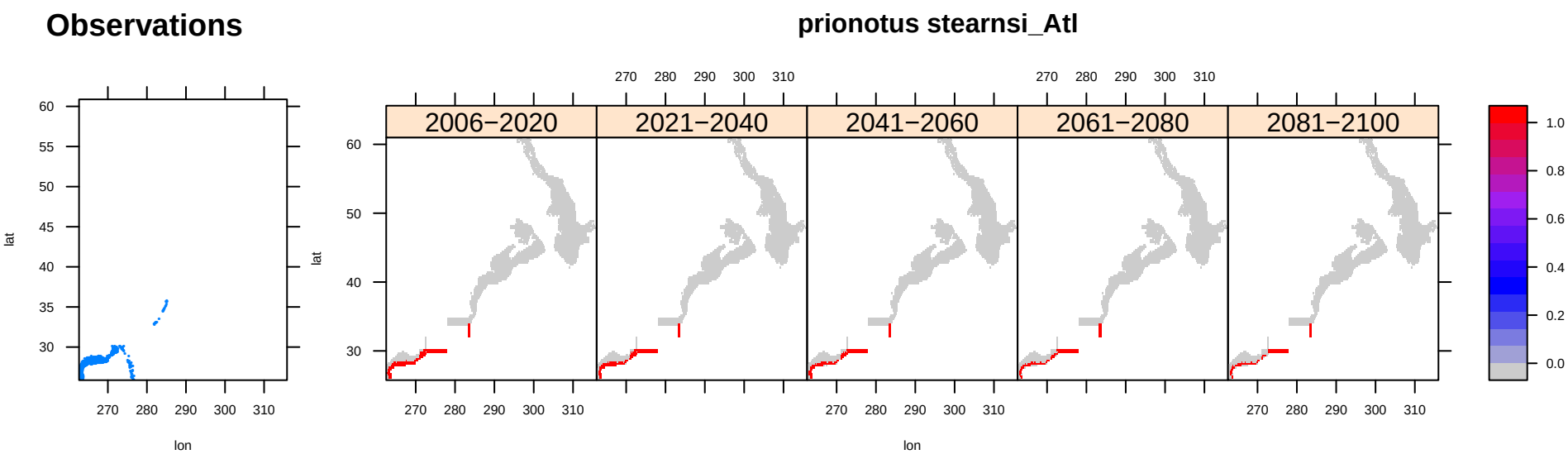
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prionotus stearnsi_Atl
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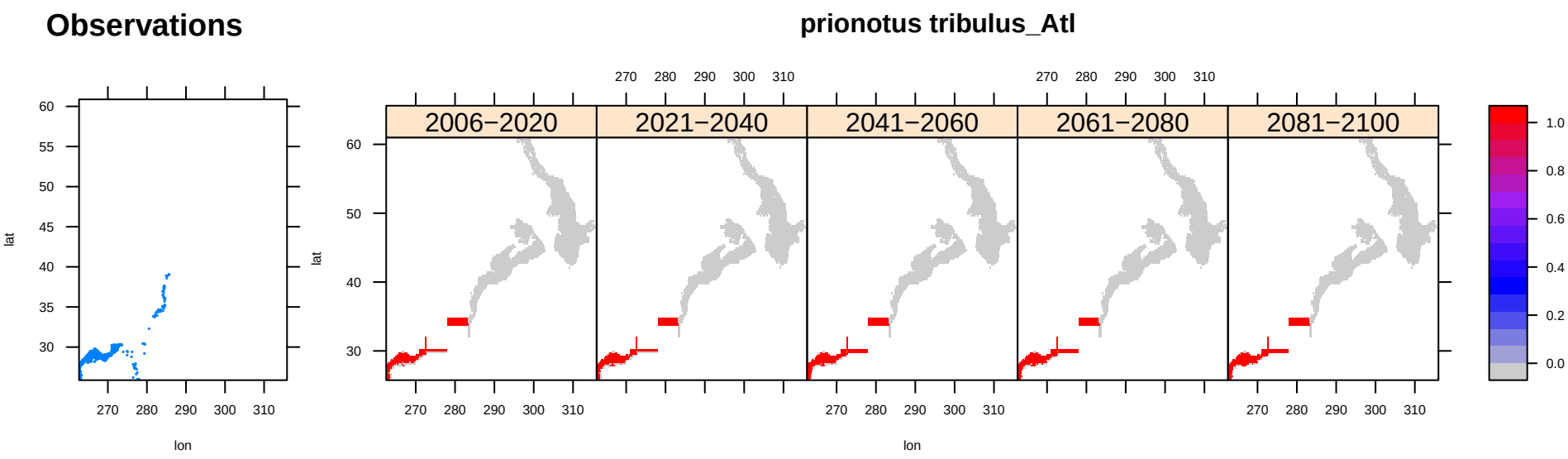
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prionotus tribulus_Atl
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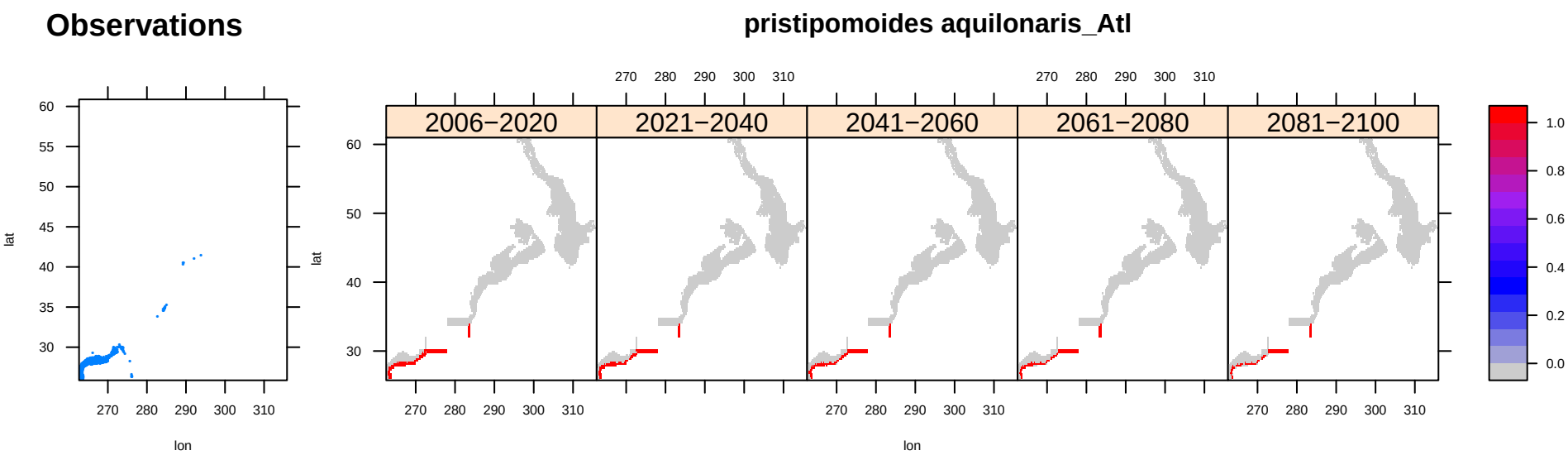
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pristipomoides aquilonaris_Atl
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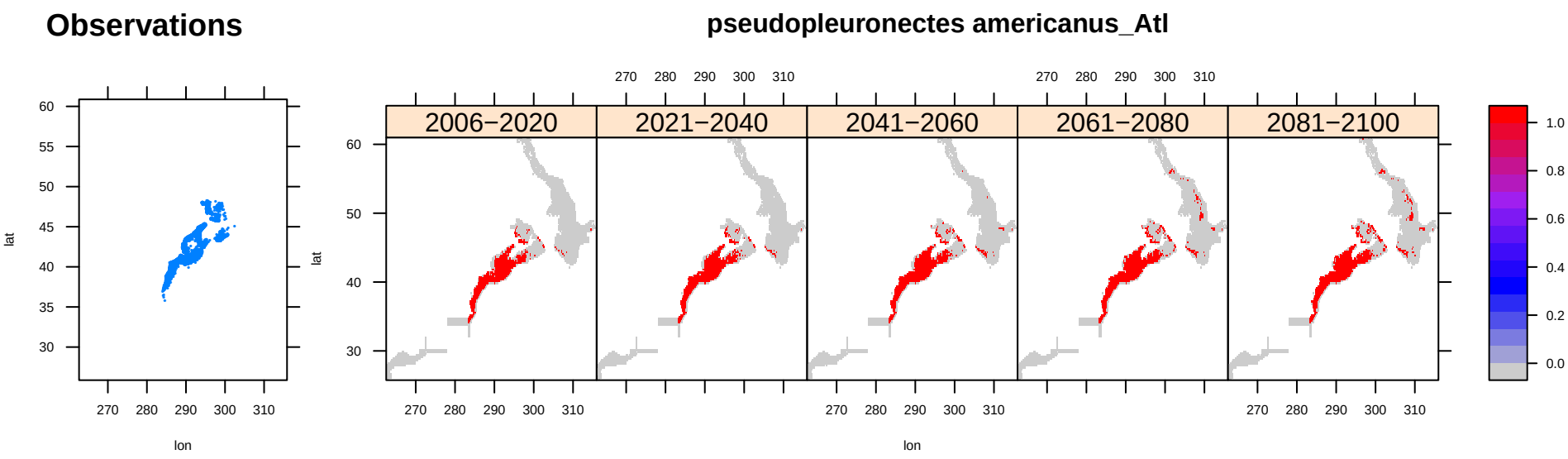
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pseudopleuronectes americanus_Atl
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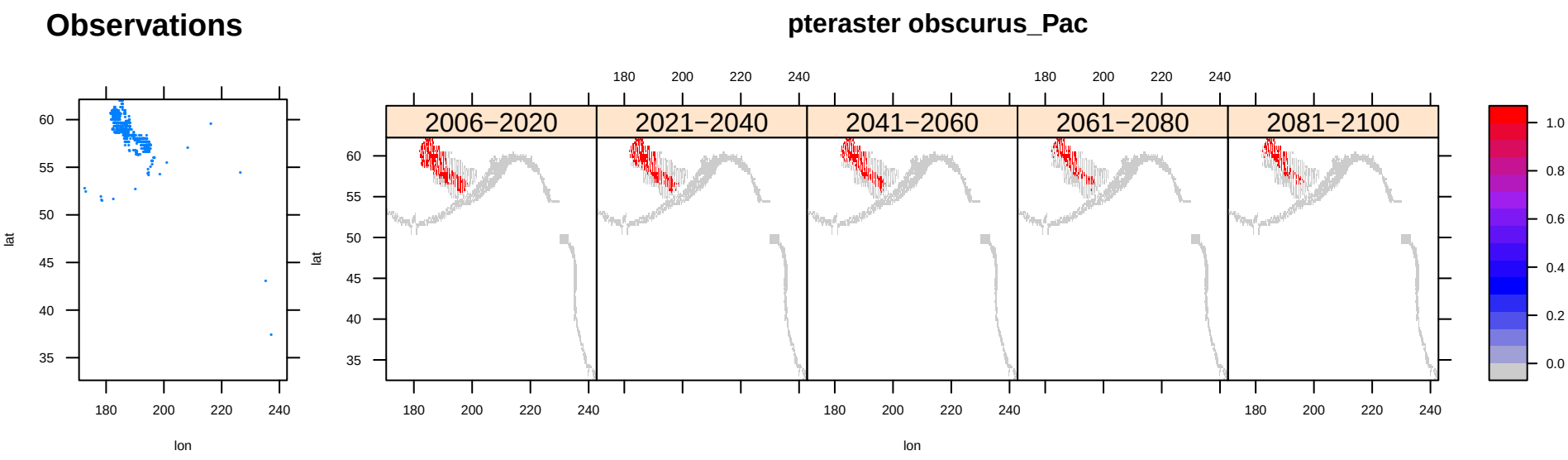
Observations
pteraster obscurus_Pac
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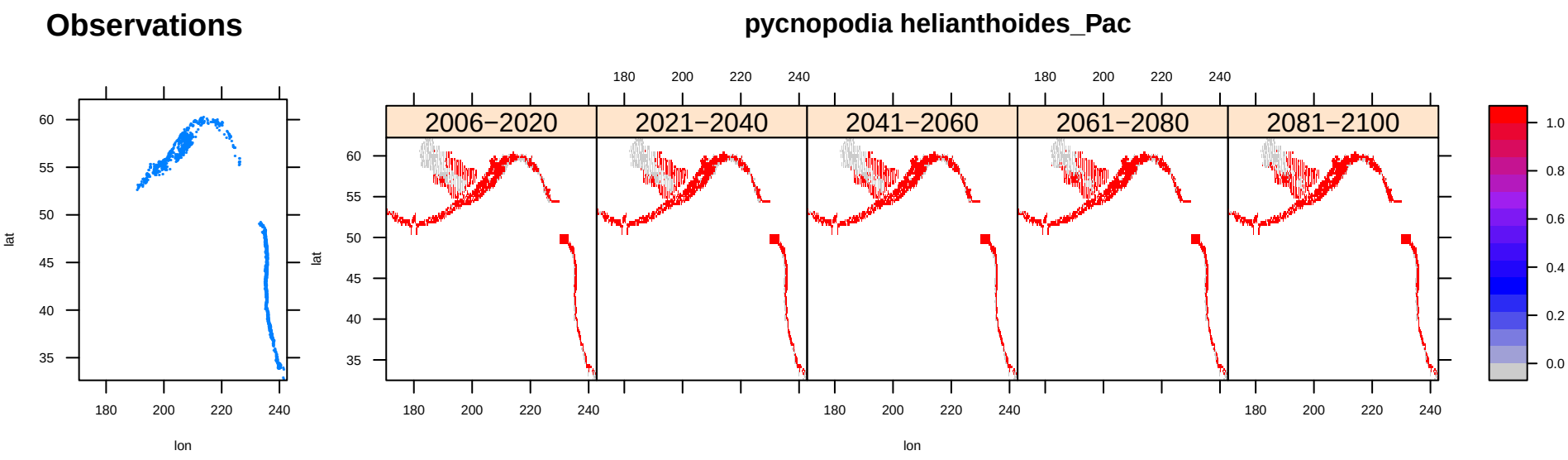
Observations
pycnopodia helianthoides_Pac
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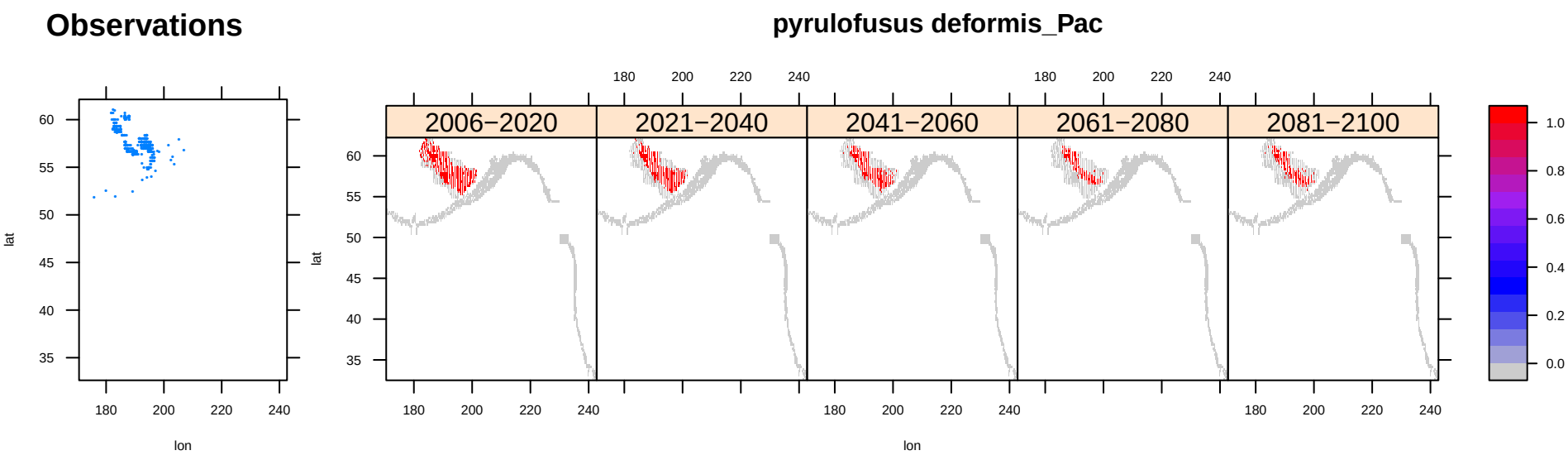
Observations
pyrulofusus deformis_Pac
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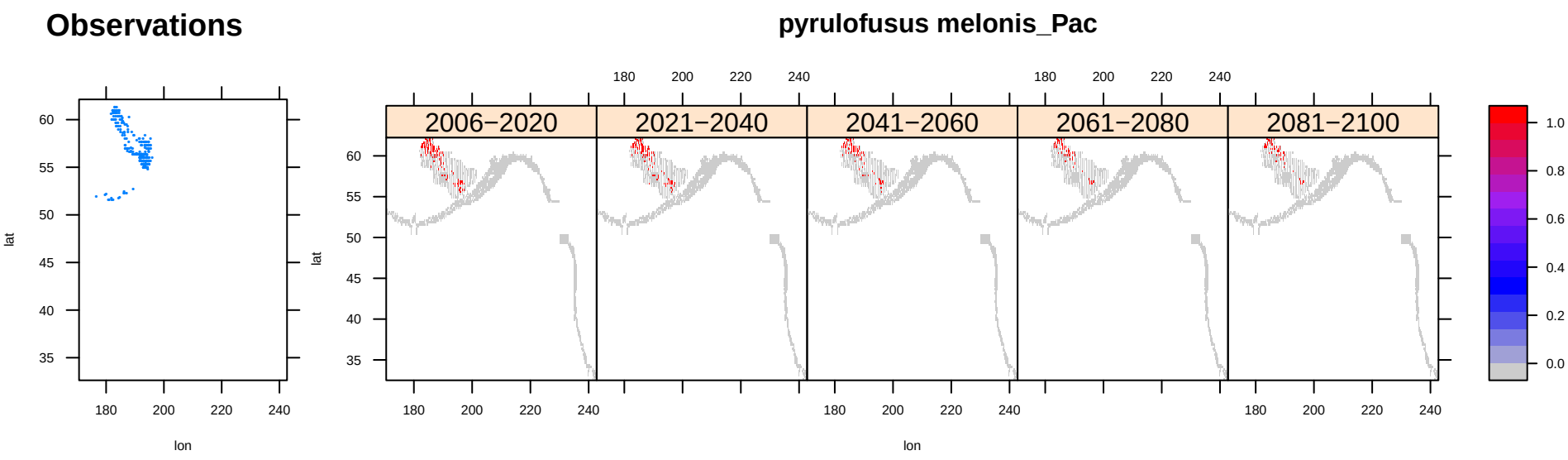
Observations
pyrulofusus melonis_Pac
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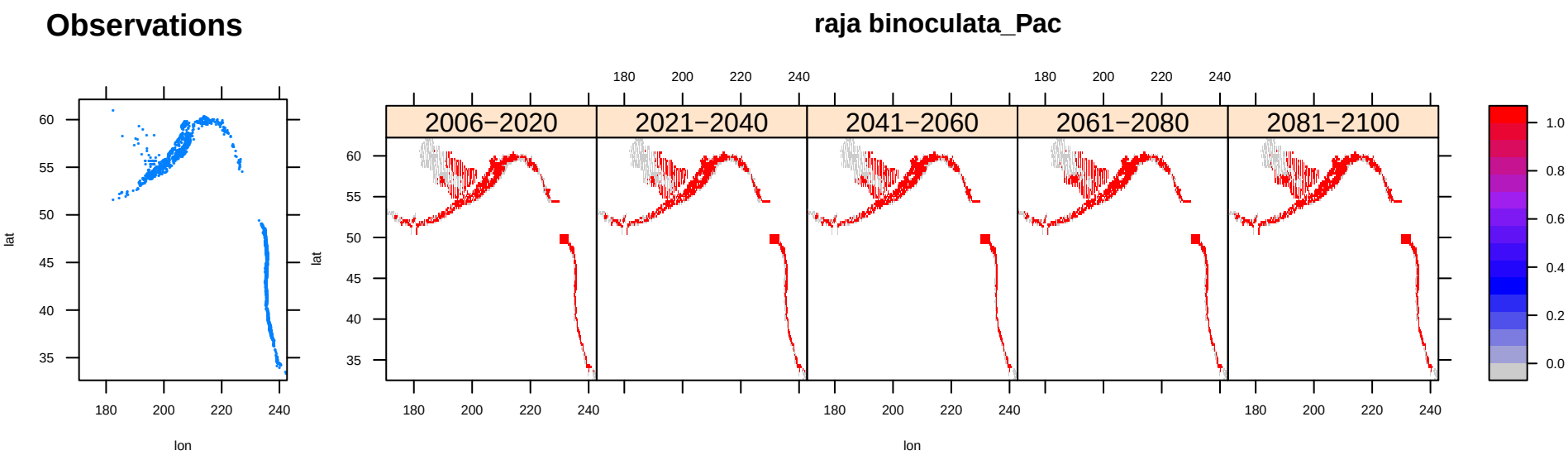
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raja binoculata_Pac
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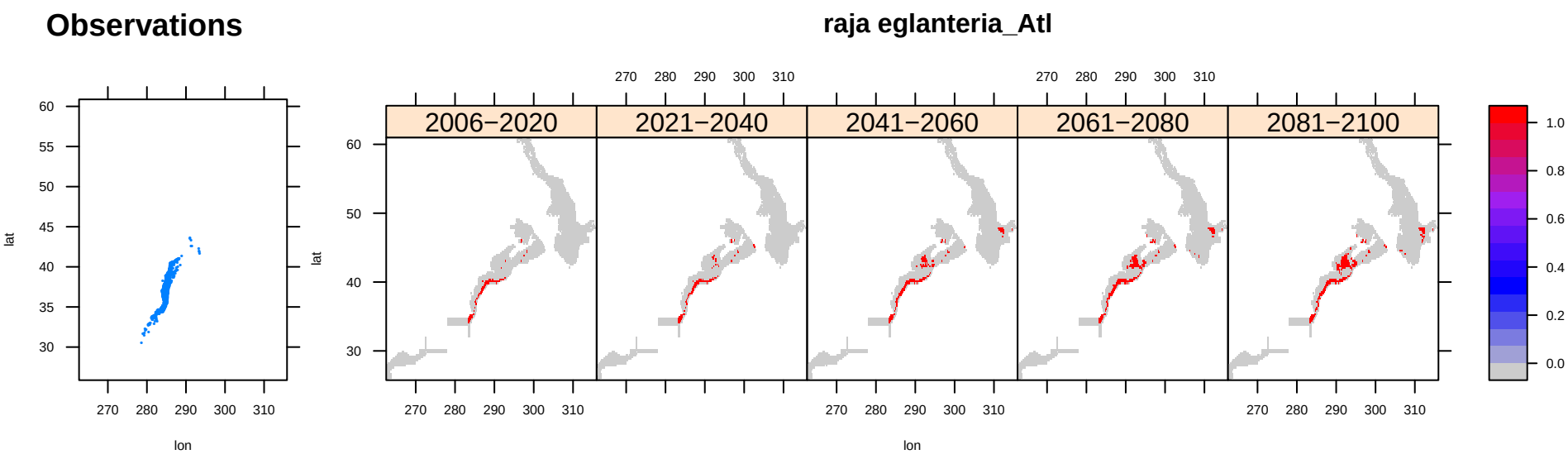
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raja eglanteria_Atl
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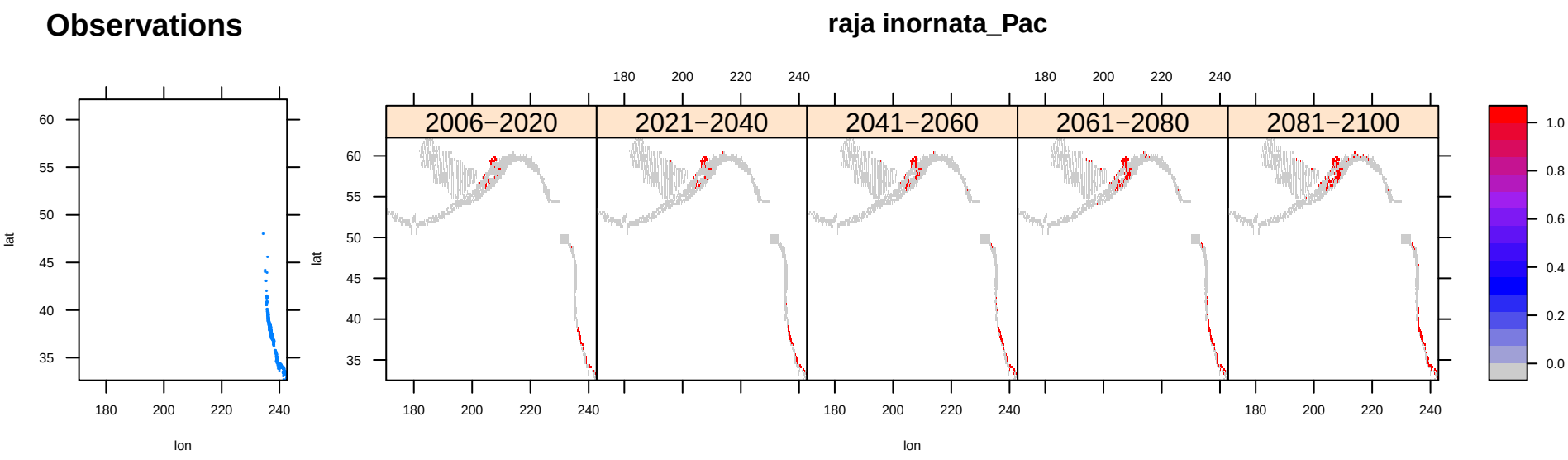
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raja inornata_Pac
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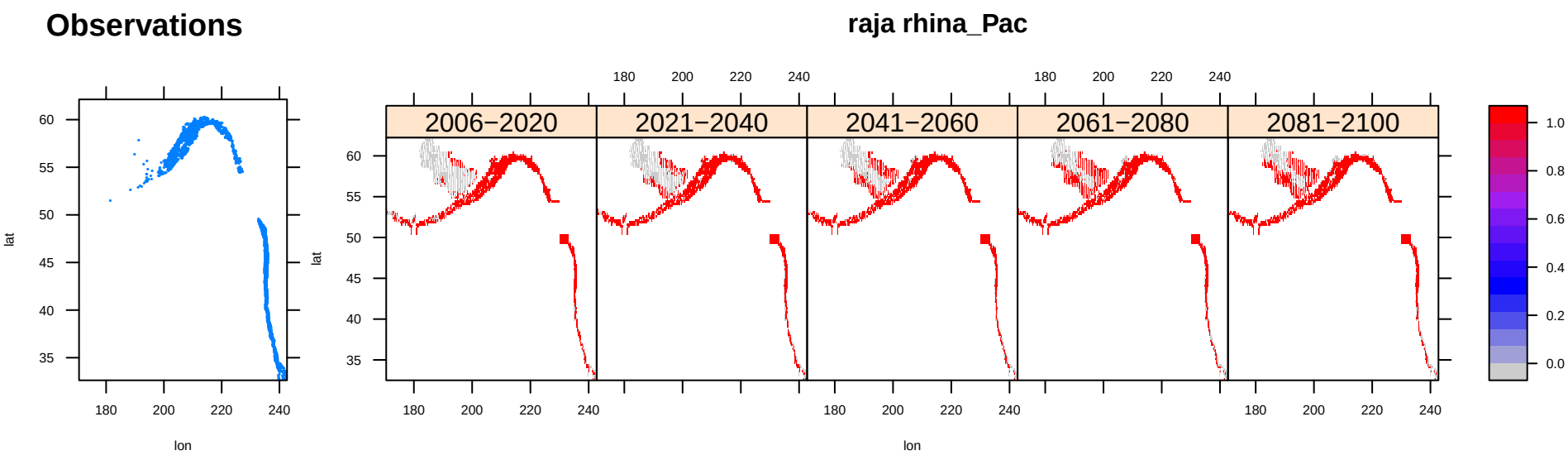
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raja rhina_Pac
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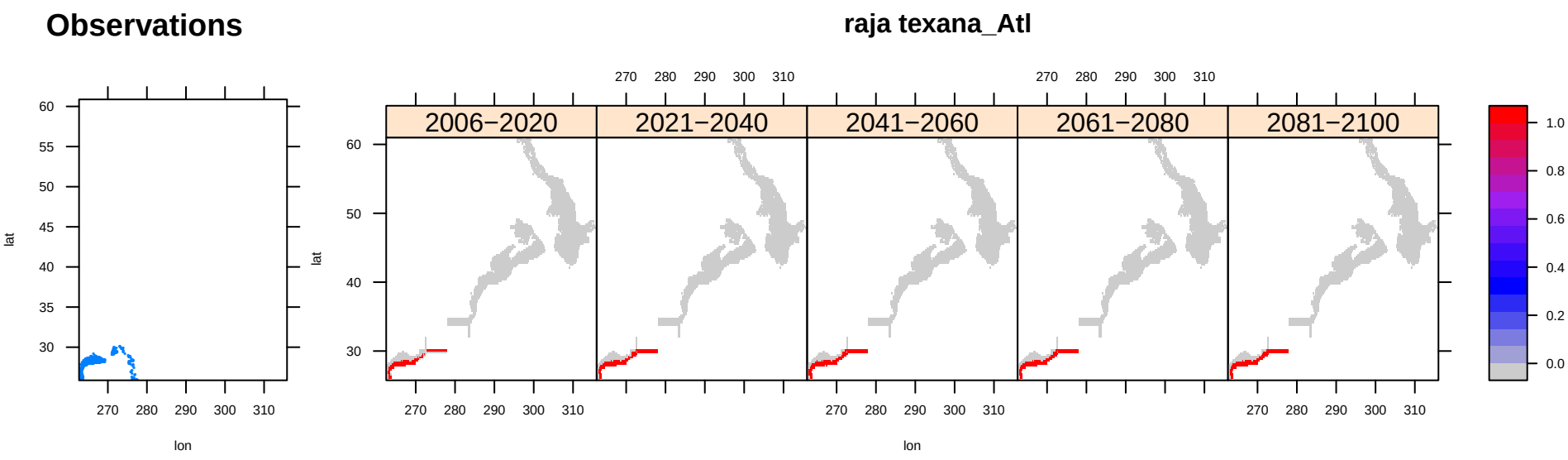
Observations
raja texana_Atl
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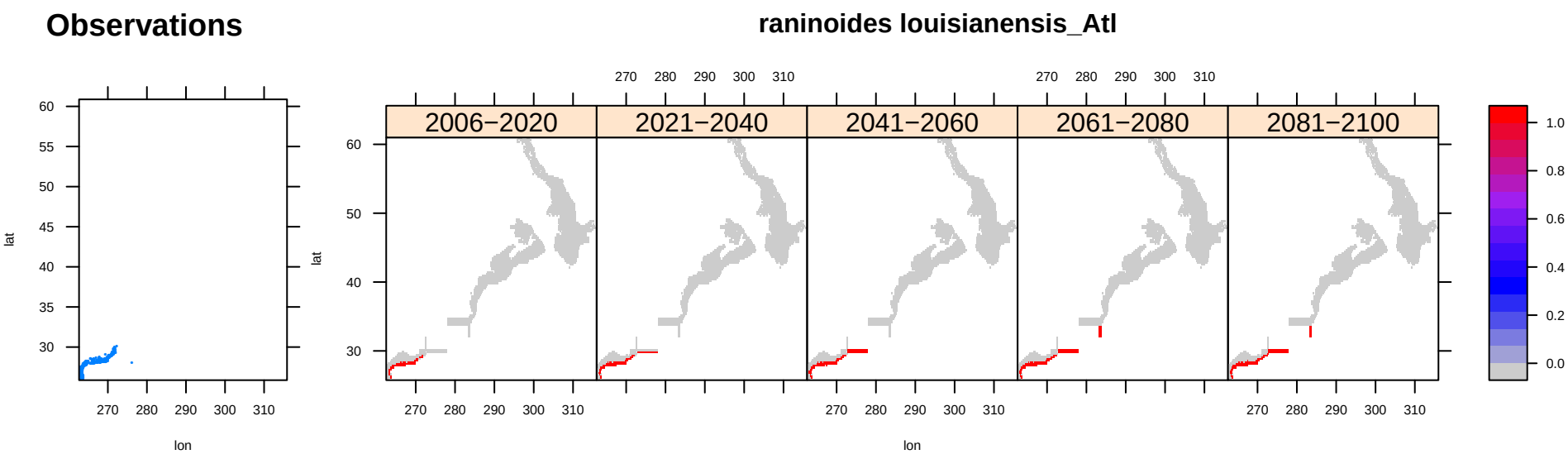
Observations
raninoides louisianensis_Atl
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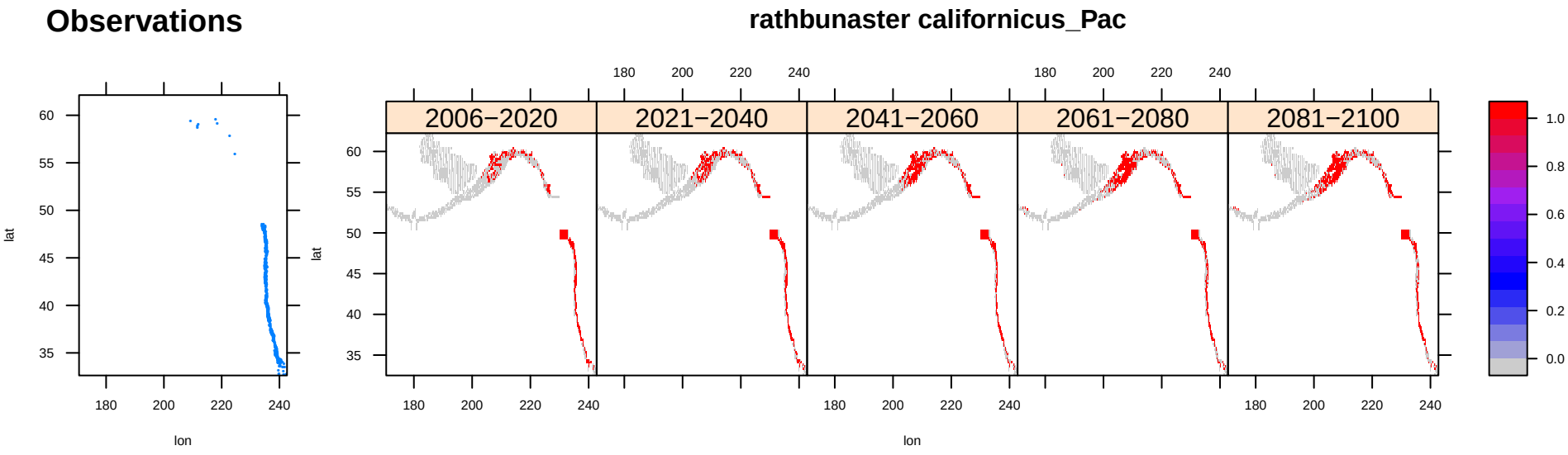
Observations
rathbunaster californicus_Pac
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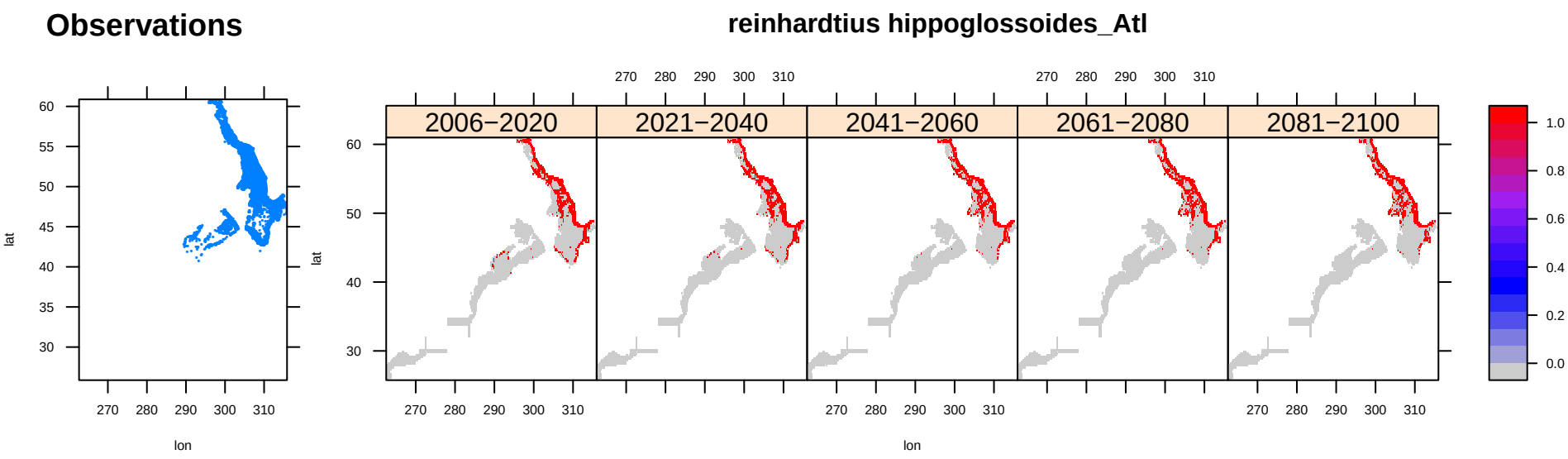
Observations
reinhardtius hippoglossoides_Atl
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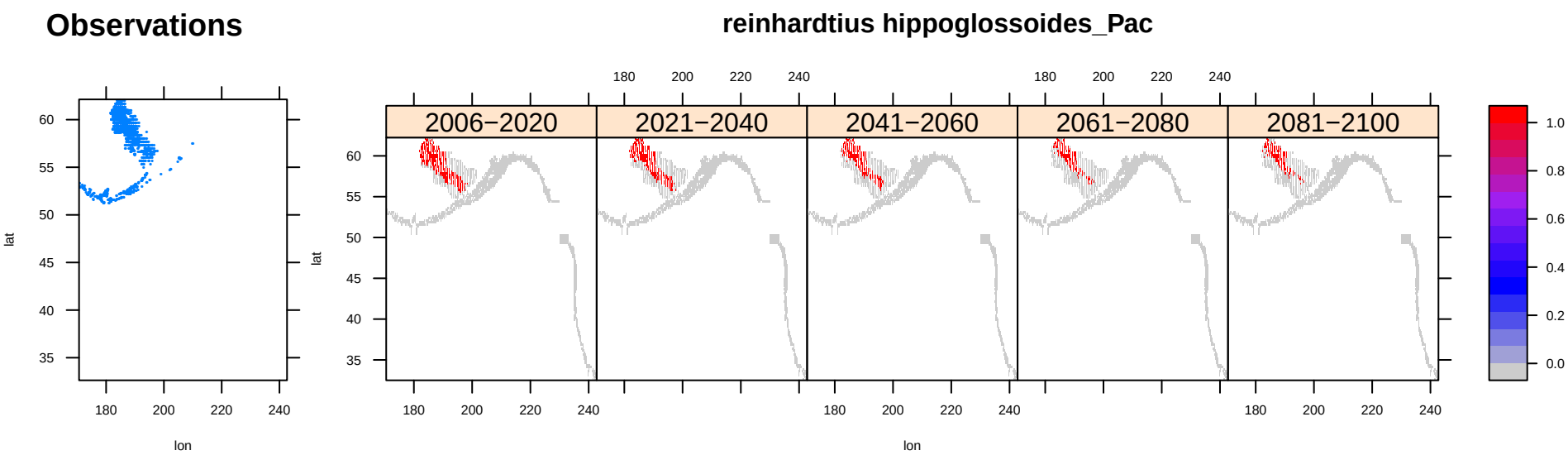
Observations
reinhardtius hippoglossoides_Pac
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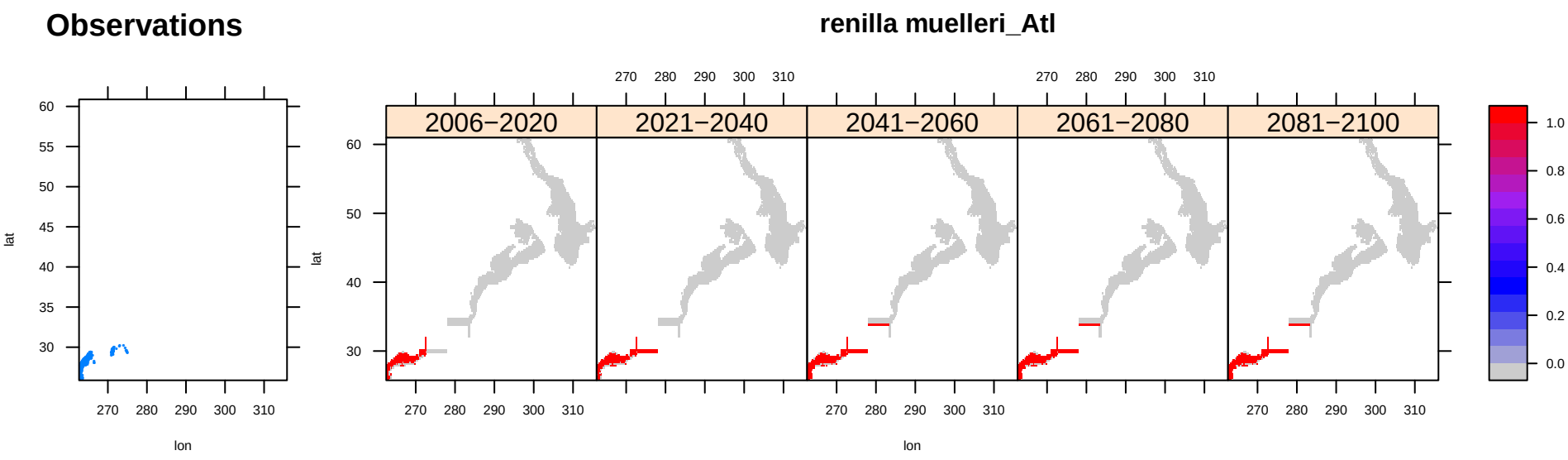
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renilla muelleri_Atl
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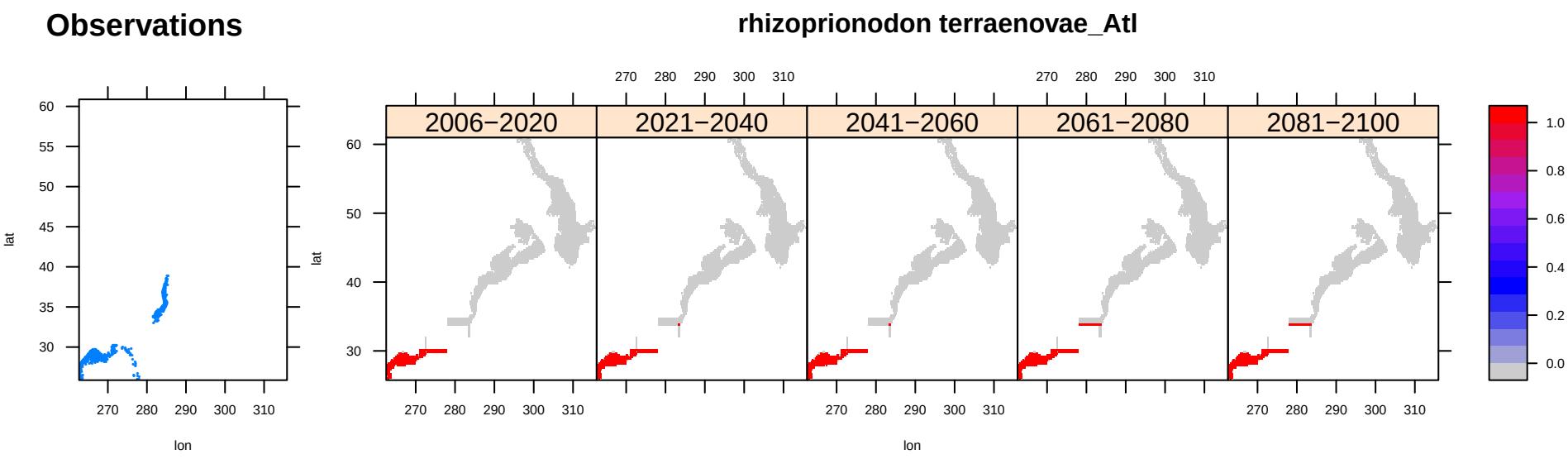
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rhizoprionodon terraenovae_Atl
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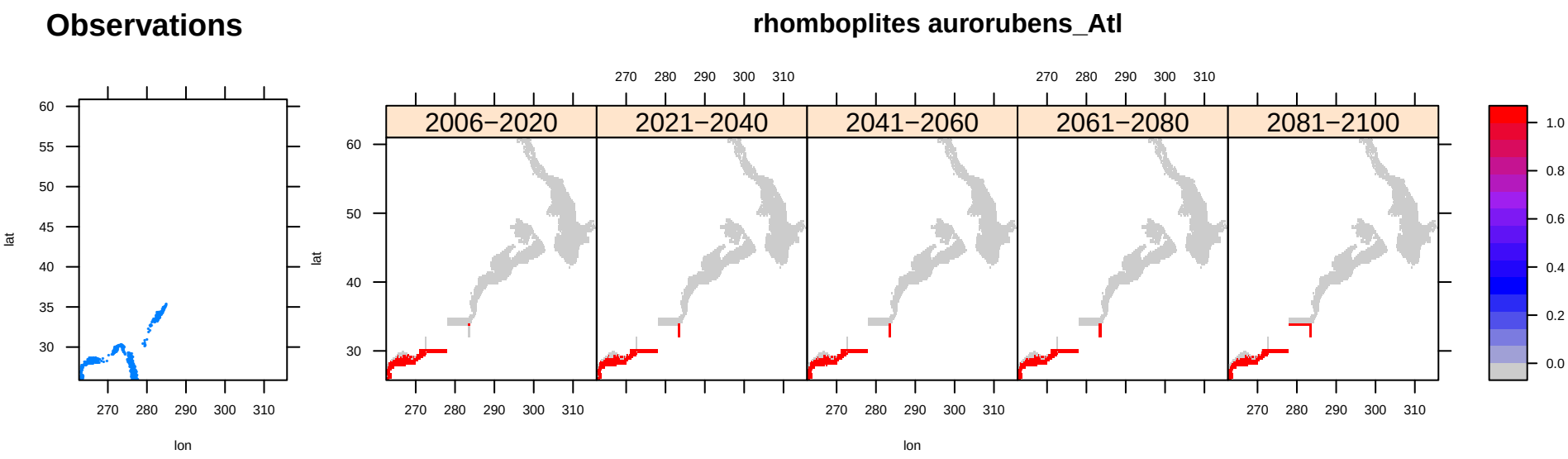
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rhomboplites aurorubens_Atl
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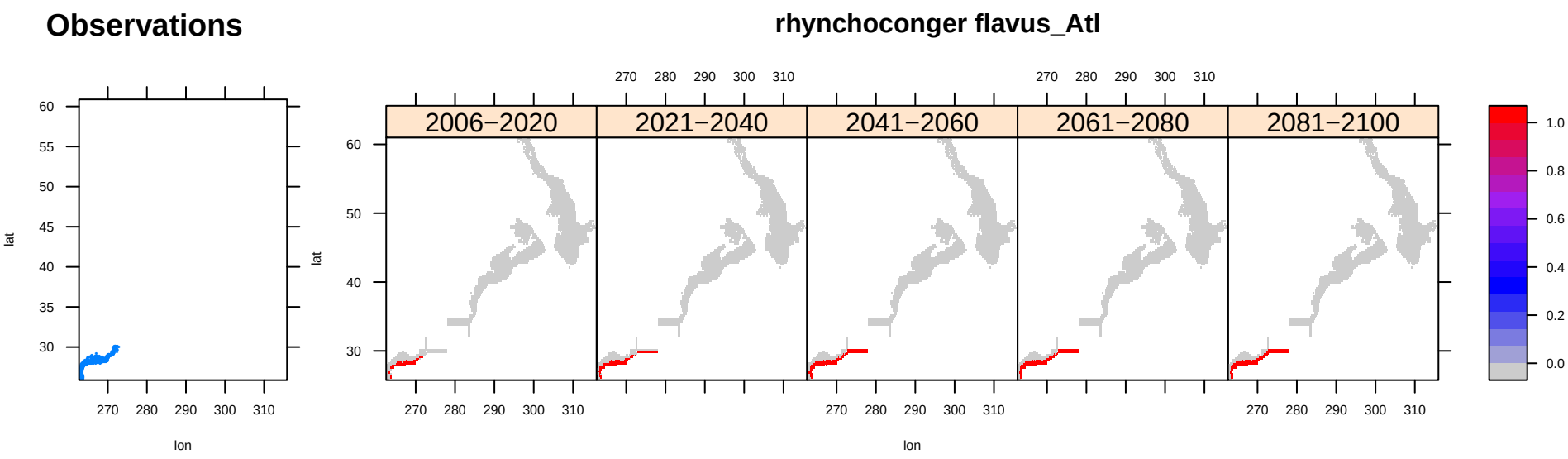
Observations
rhynchoconger flavus_Atl
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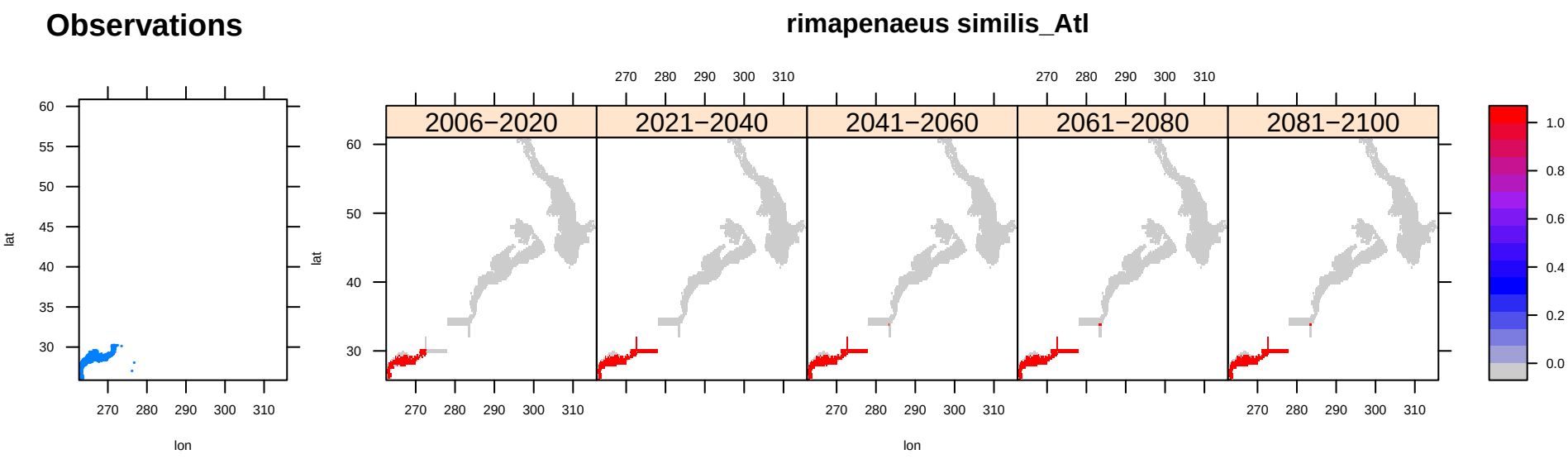
Observations
rimapenaeus similis_Atl
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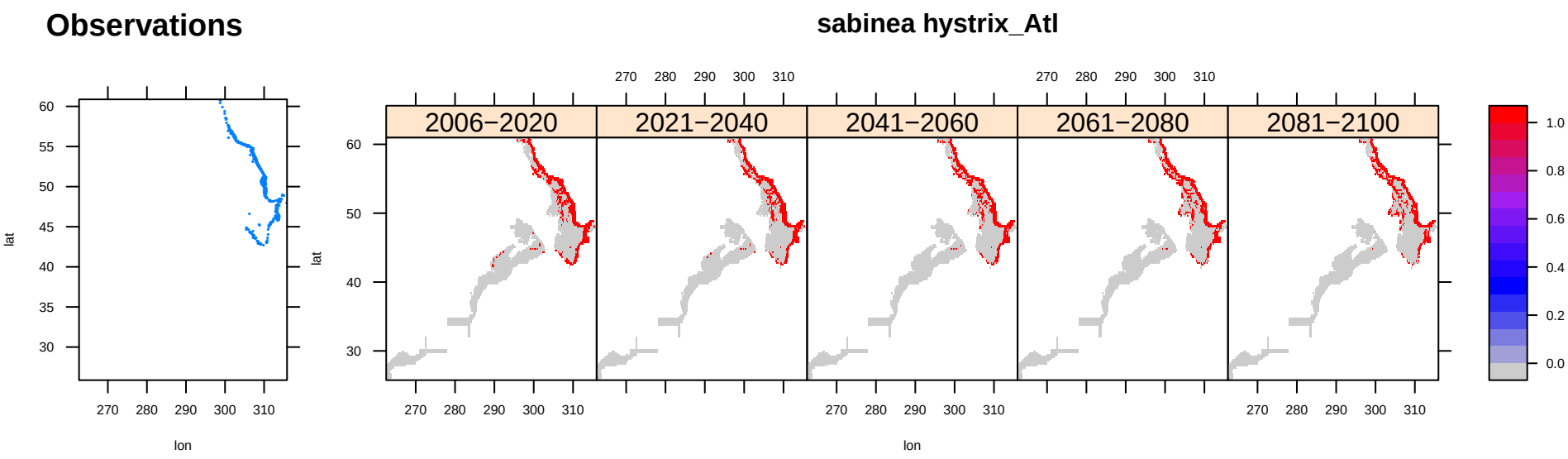
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sabinea hystrix_Atl
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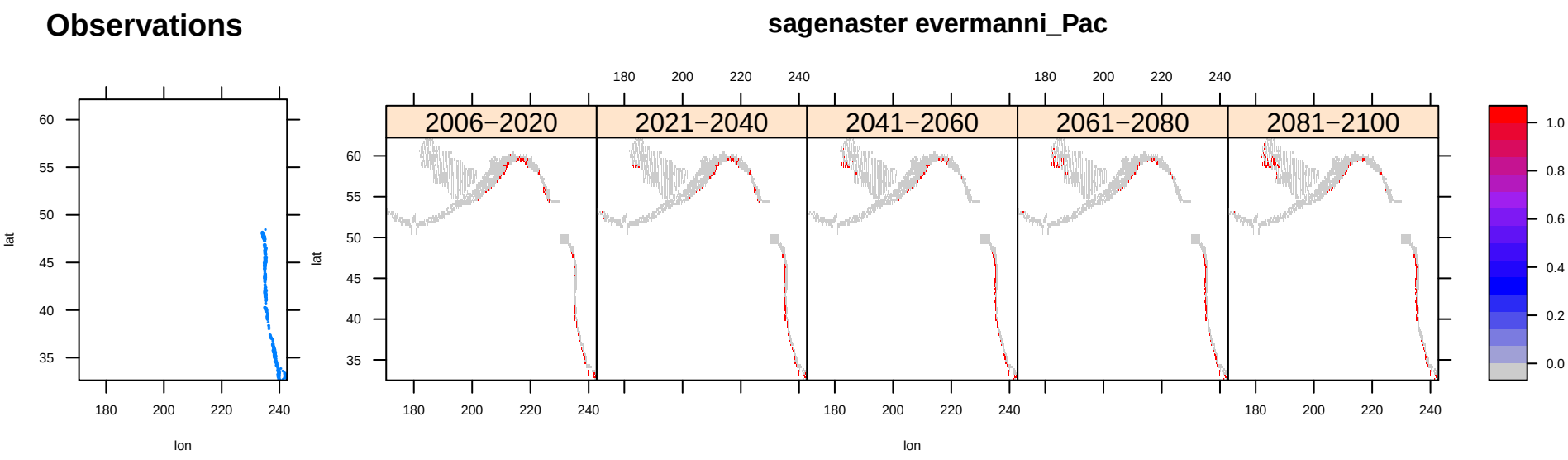
Observations
sagenaster evermanni_Pac
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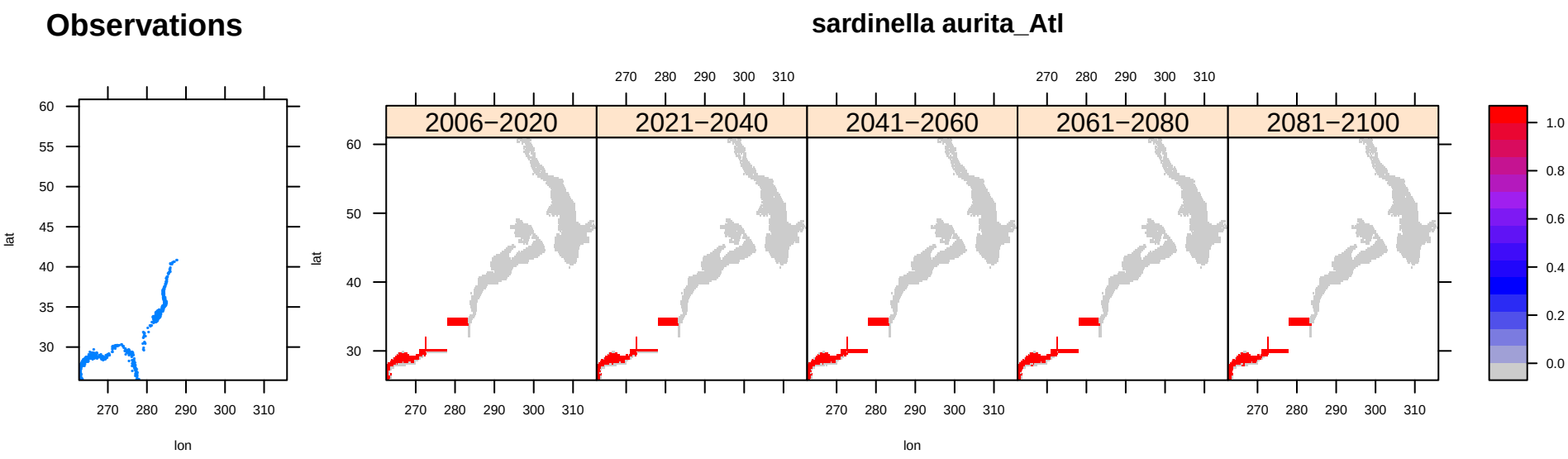
Observations
sardinella aurita_Atl
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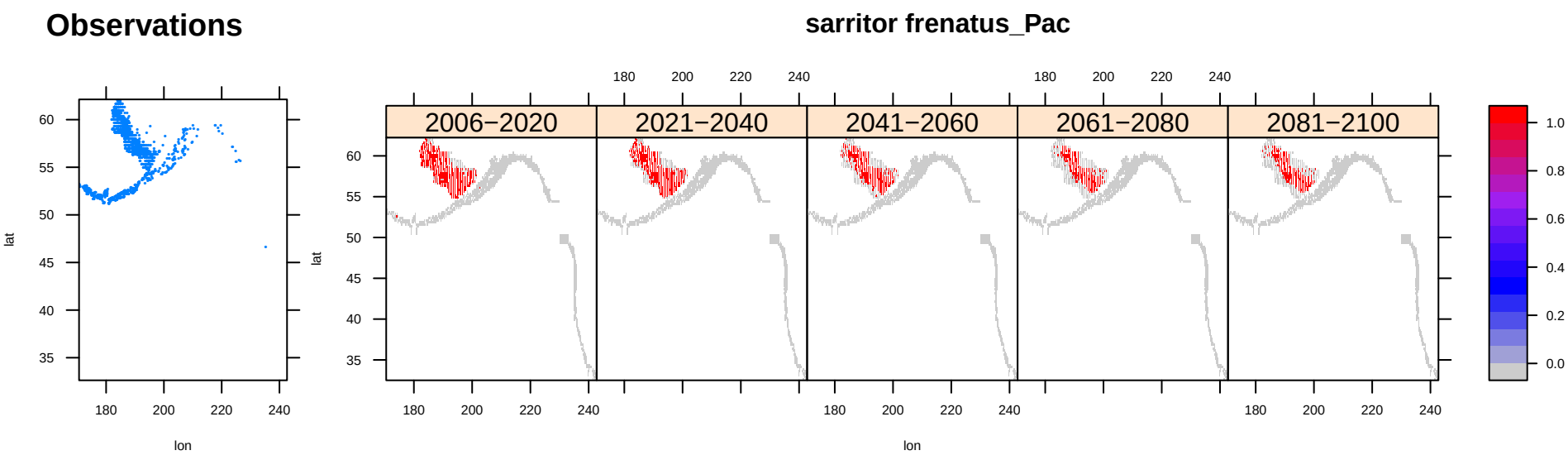
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sarritor frenatus_Pac
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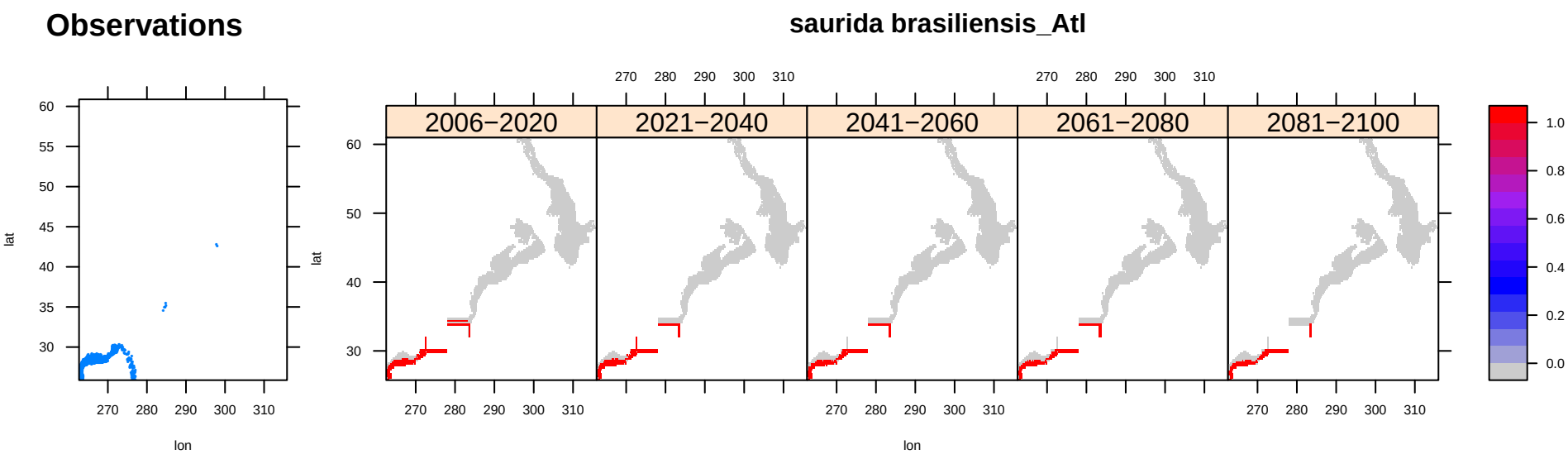
Observations
saurida brasiliensis_Atl
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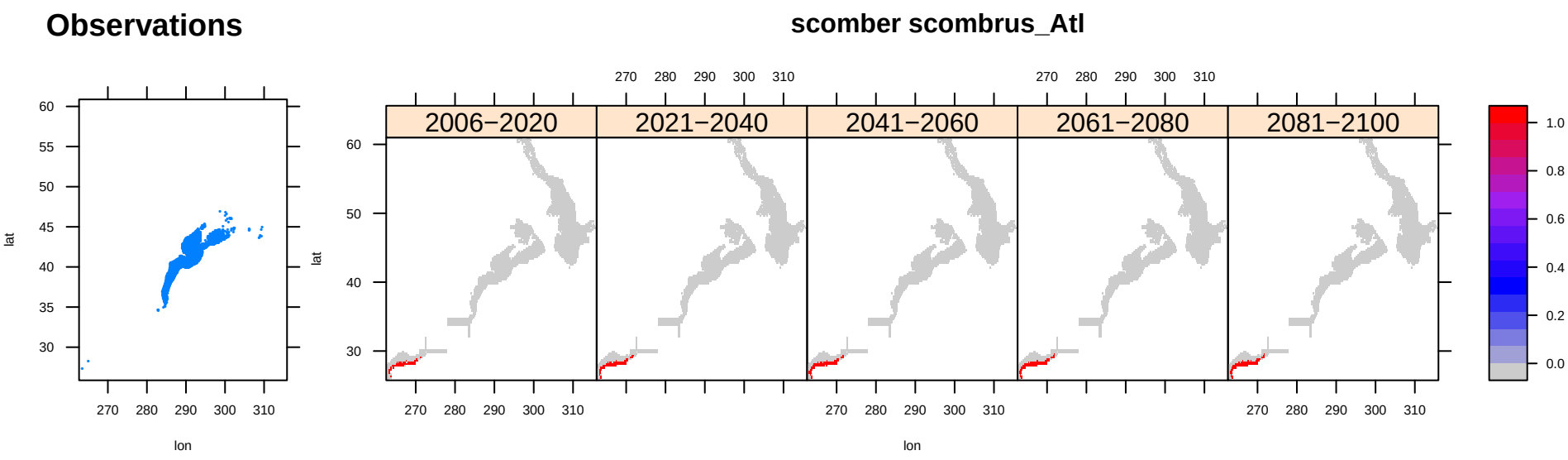
Observations
scomber scombrus_Atl
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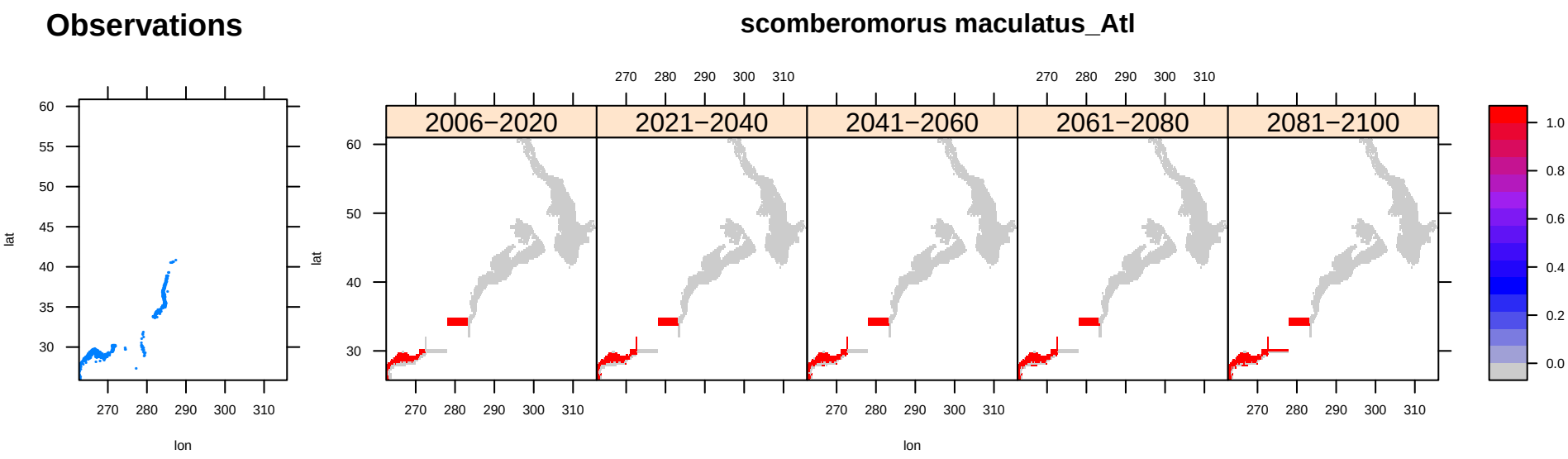
Observations
scomberomorus maculatus_Atl
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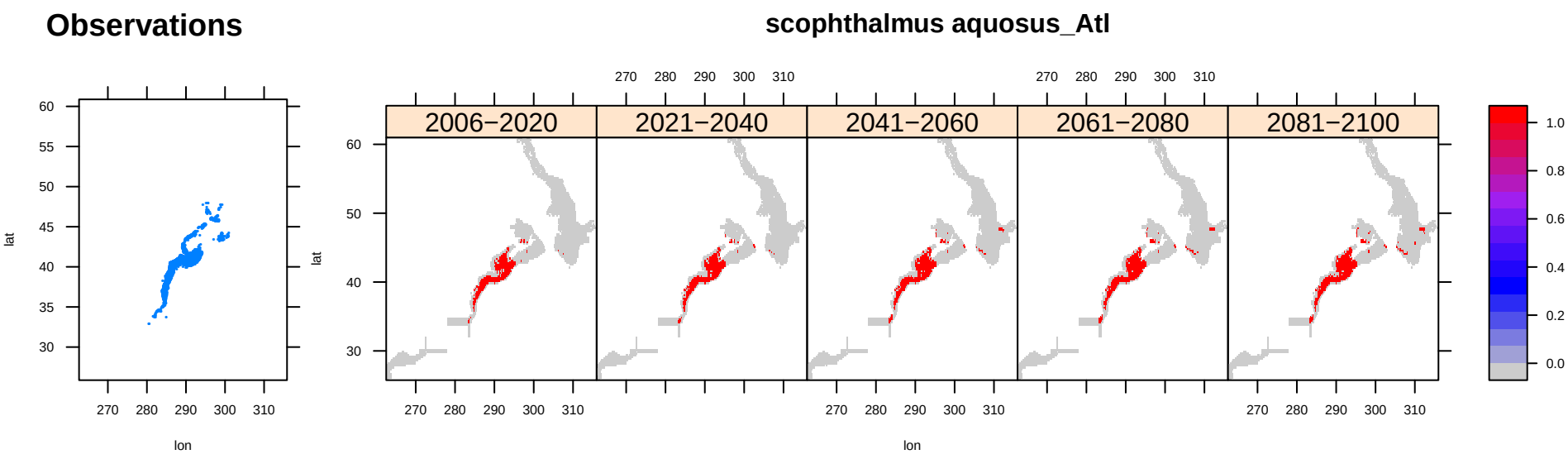
Observations
scophthalmus aquosus_Atl
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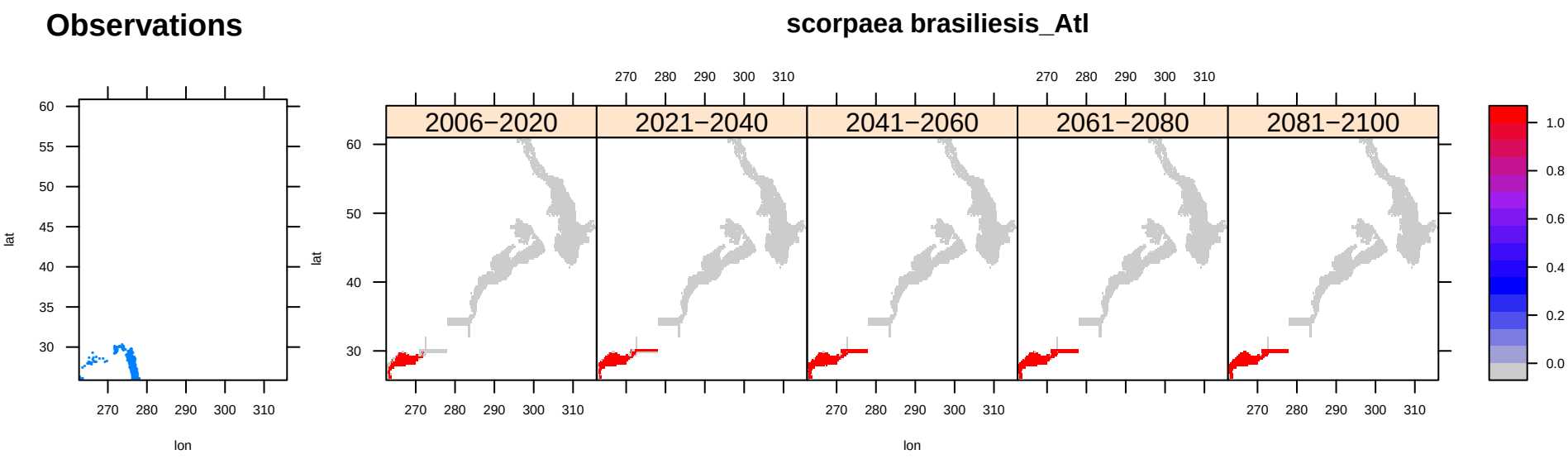
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scorpaea brasiliesis_Atl
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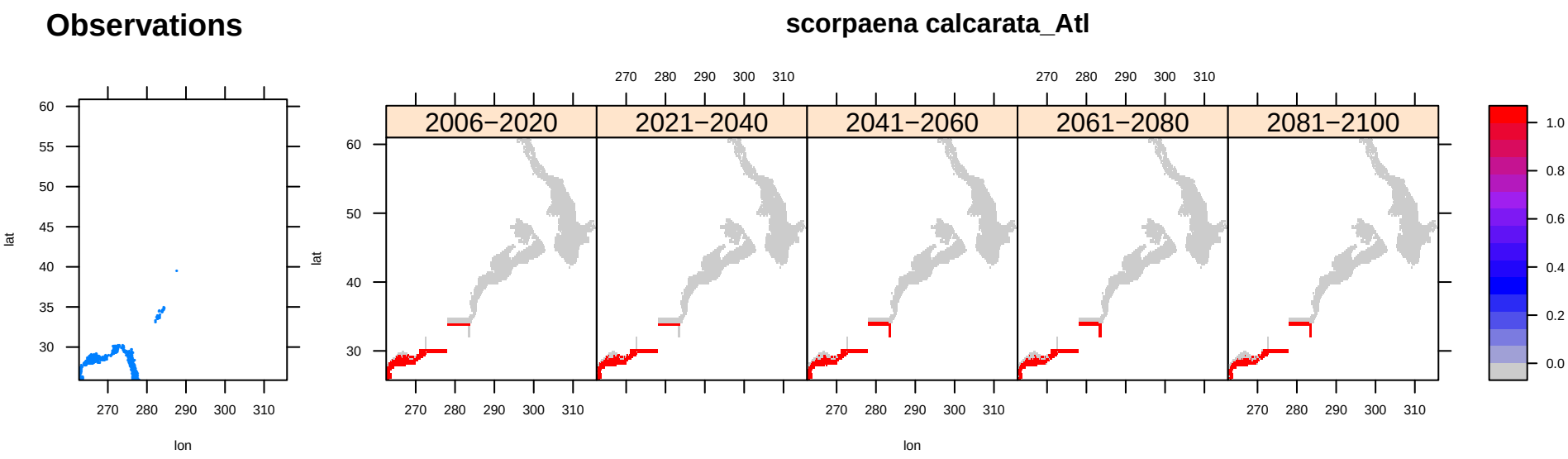
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scorpaena calcarata_Atl
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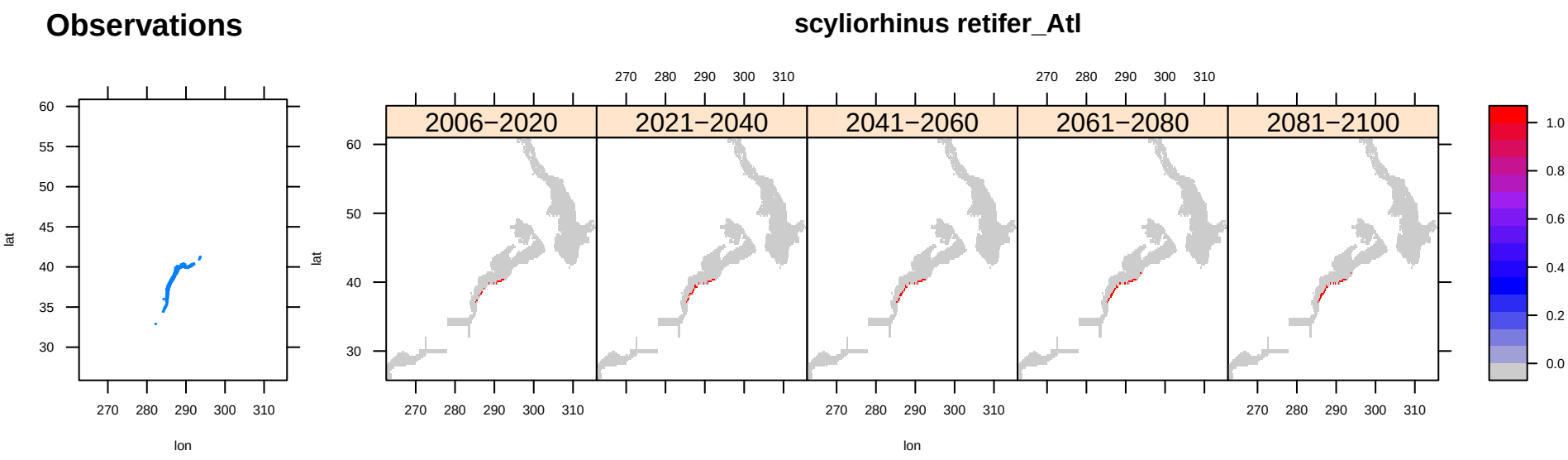
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scyliorhinus retifer_Atl
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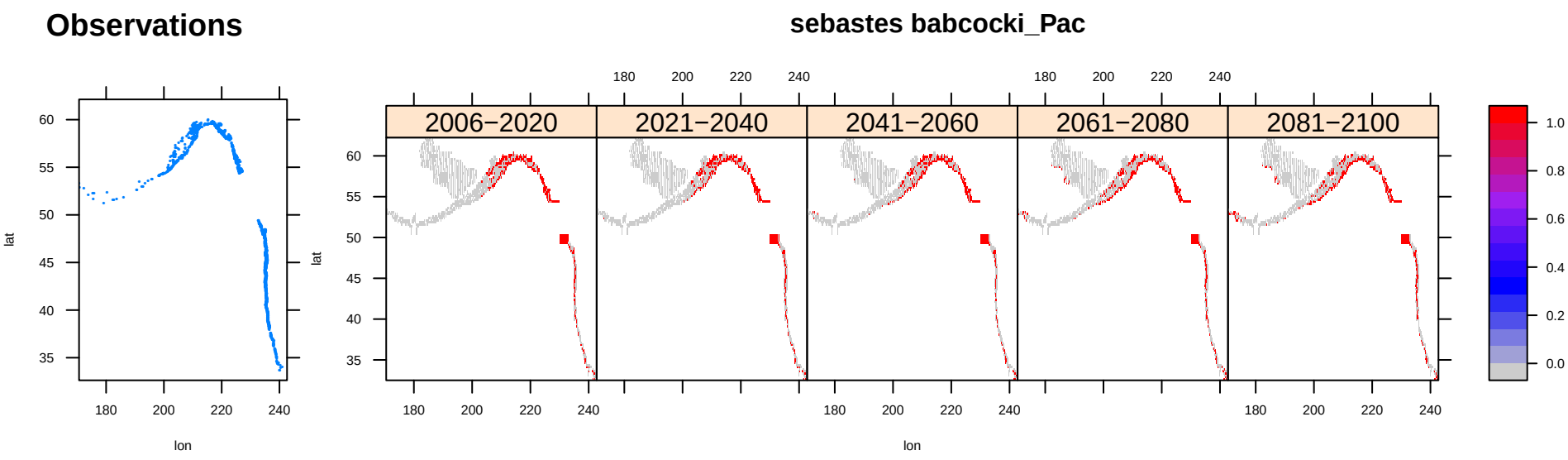
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sebastes babcocki_Pac
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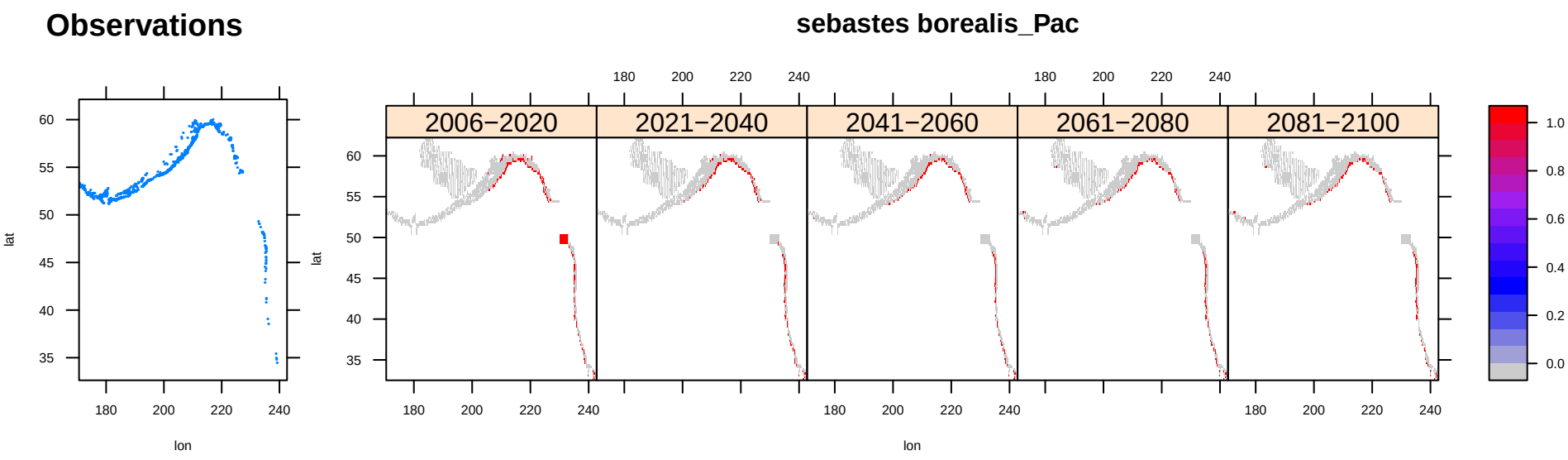
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sebastes borealis_Pac
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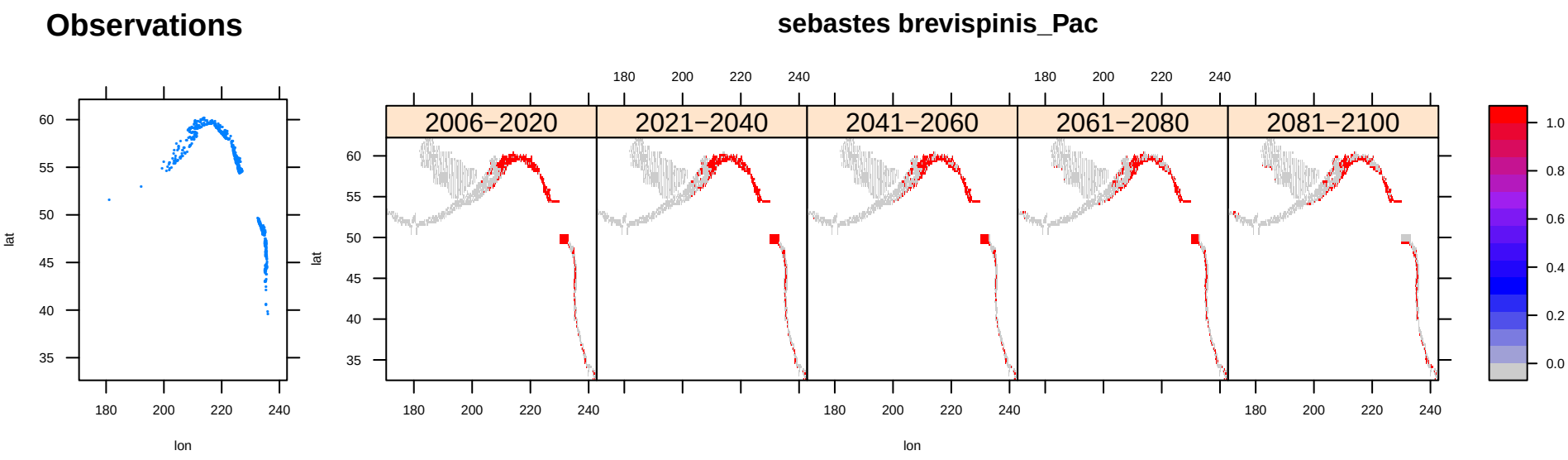
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sebastes brevispinis_Pac
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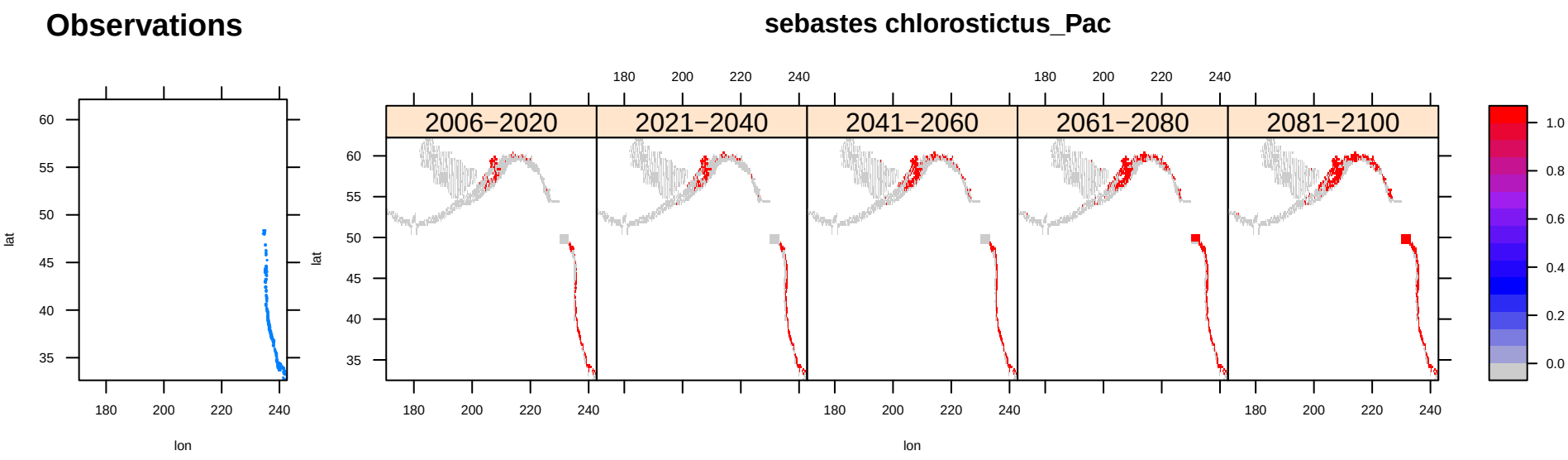
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sebastes chlorostictus_Pac
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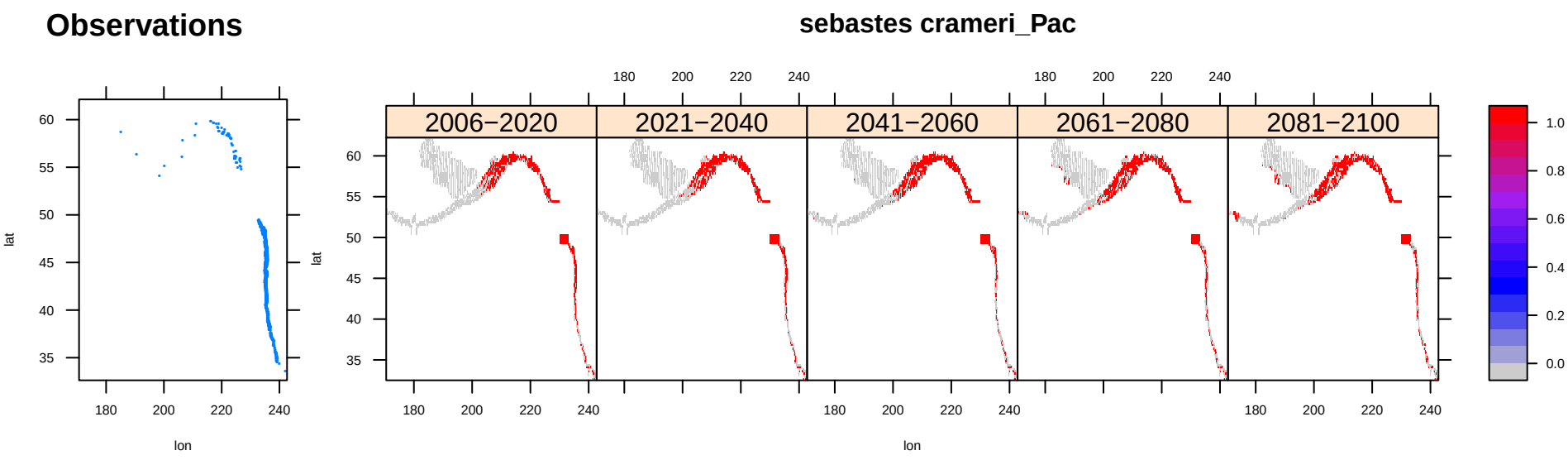
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sebastes crameri_Pac
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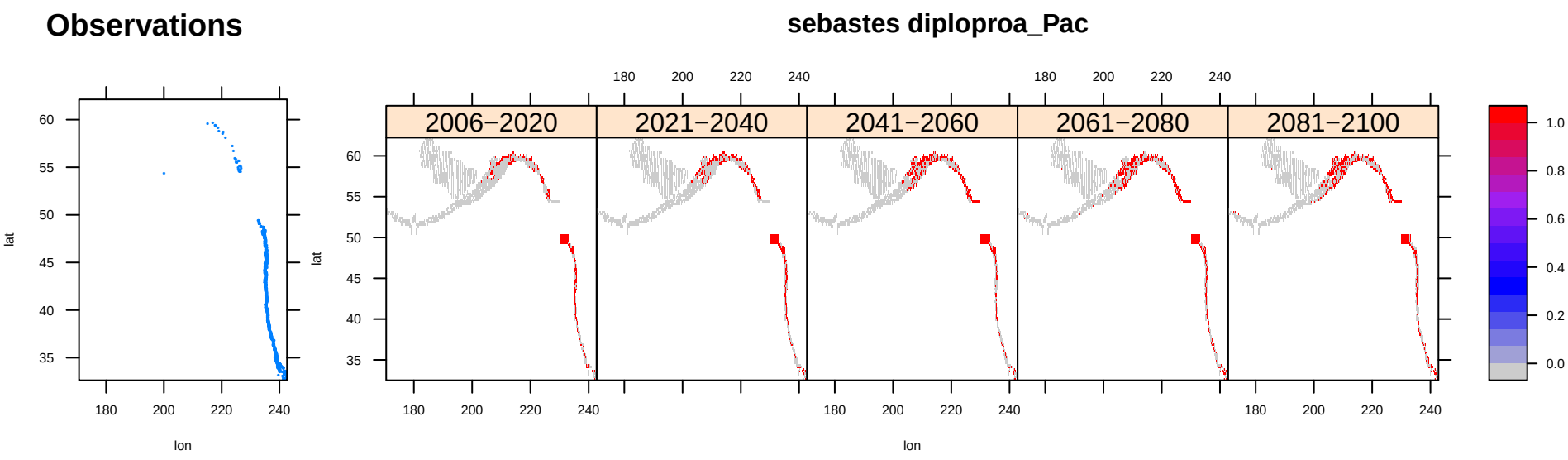
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sebastes diploproa_Pac
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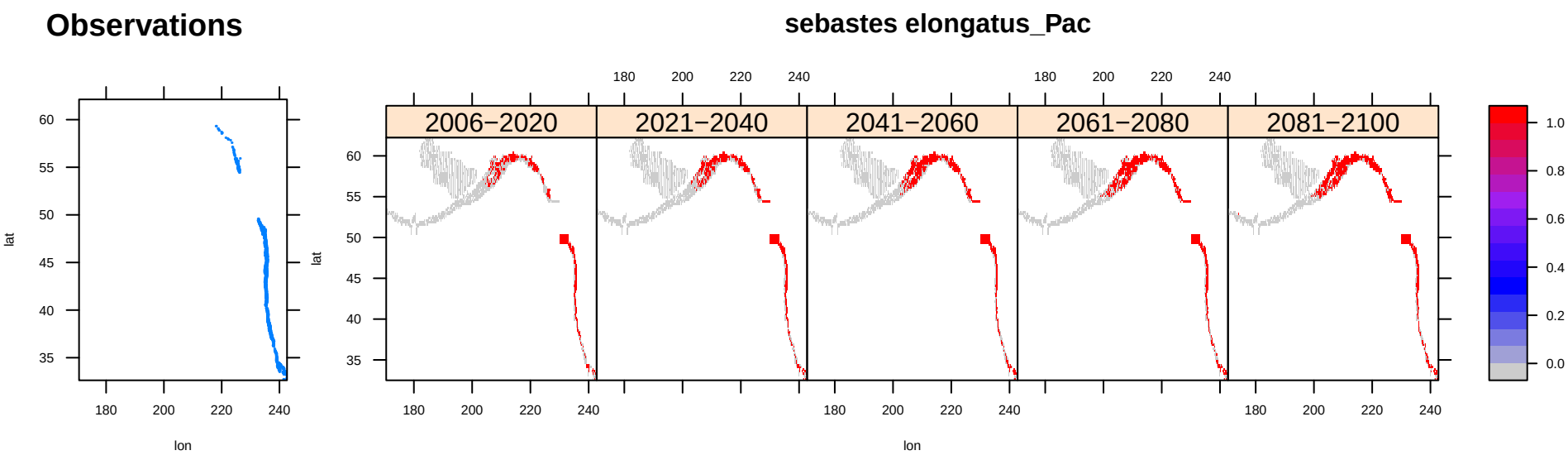
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sebastes elongatus_Pac
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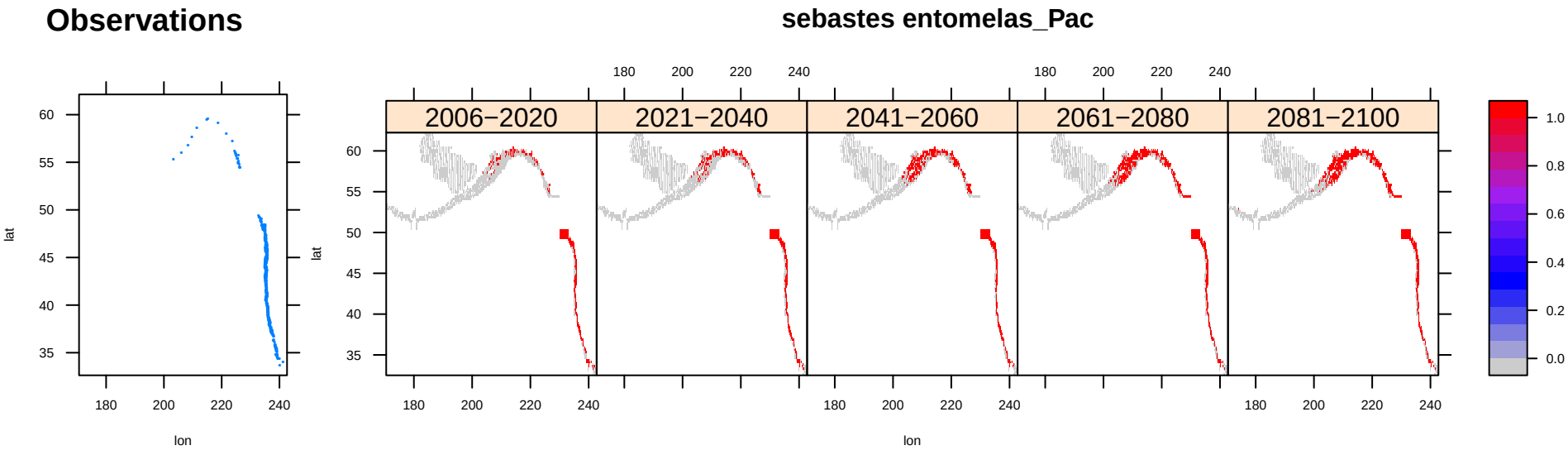
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sebastes entomelas_Pac
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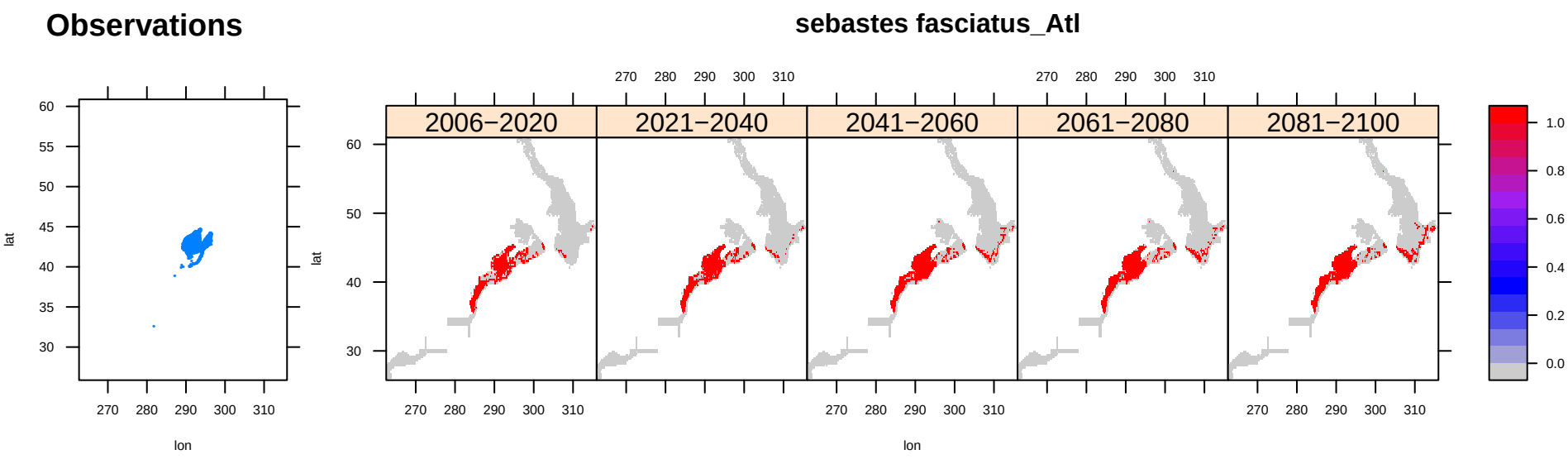
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sebastes fasciatus_Atl
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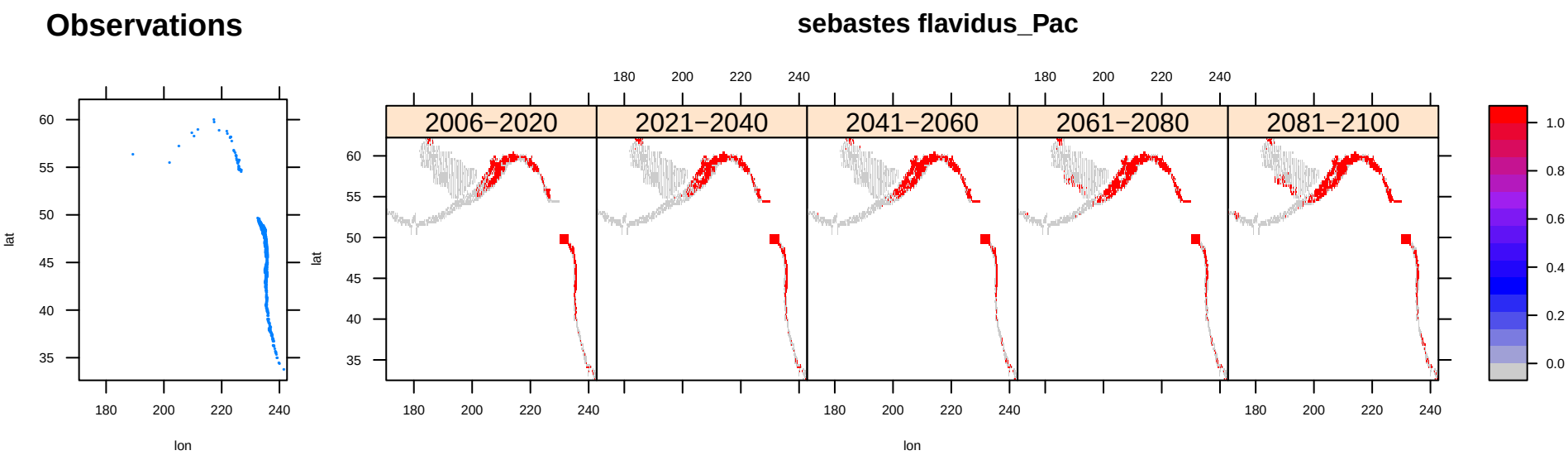
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sebastes flavidus_Pac
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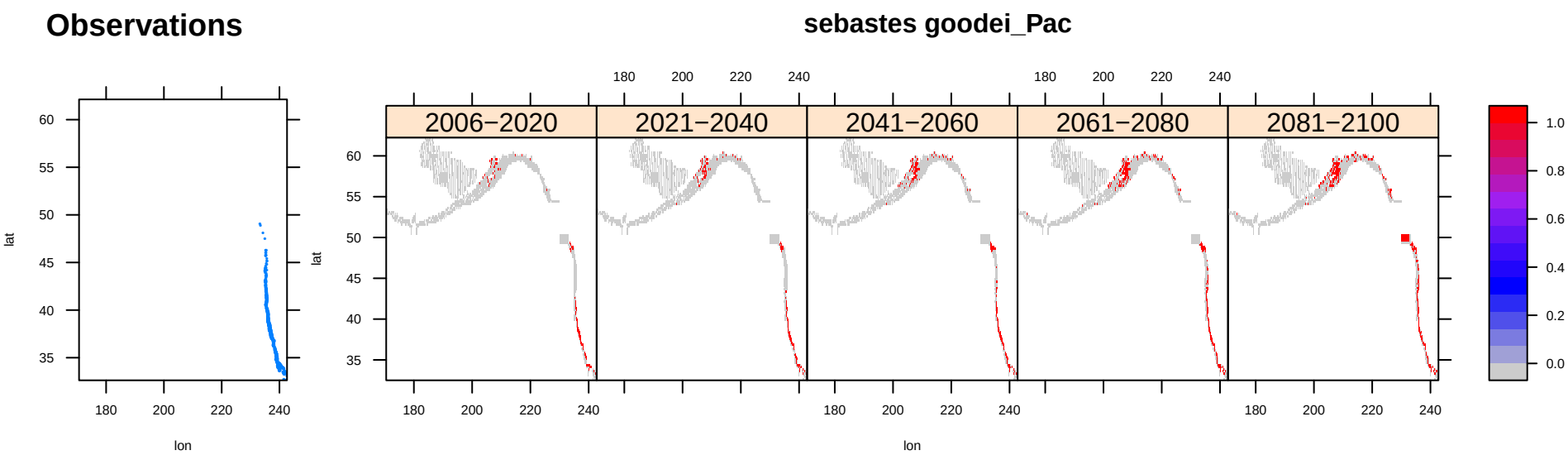
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sebastes goodei_Pac
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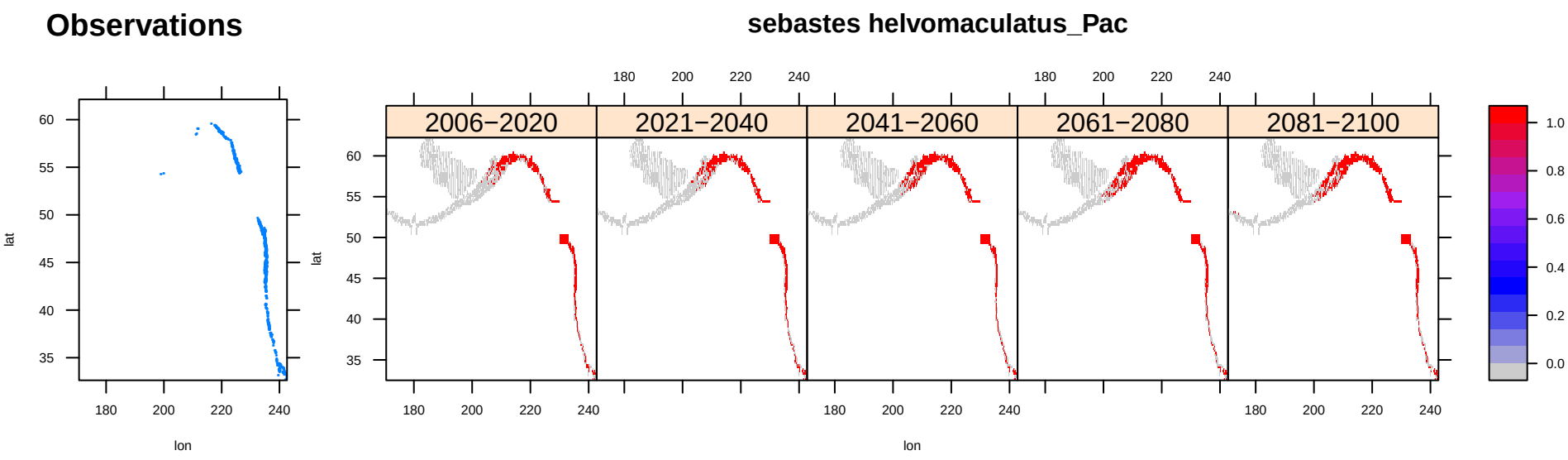
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sebastes helvomaculatus_Pac
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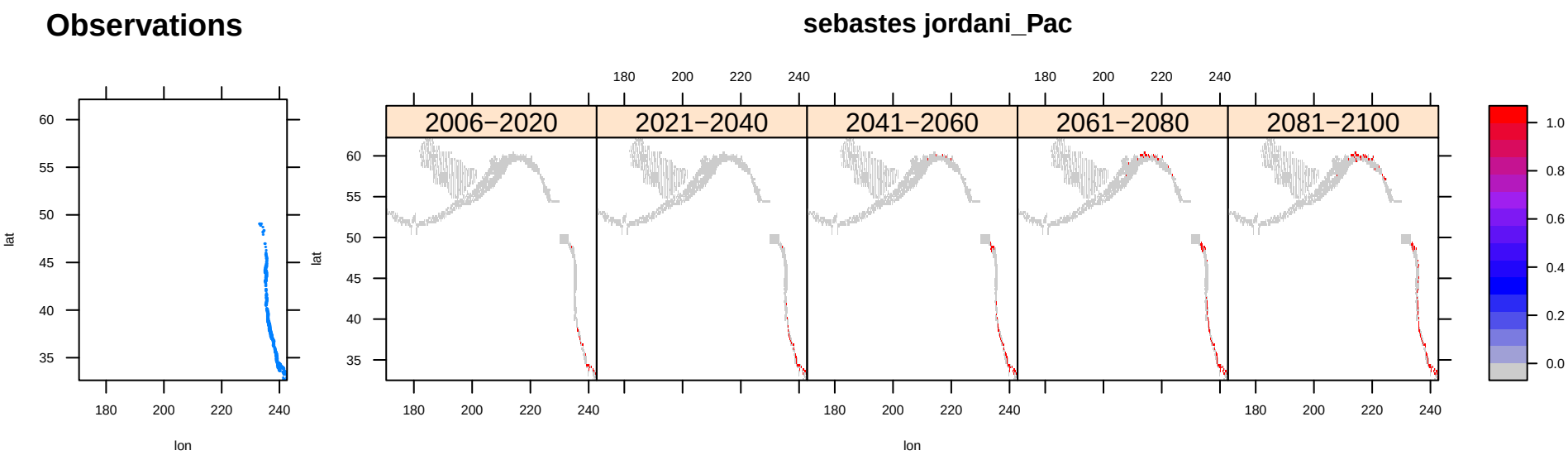
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sebastes jordani_Pac
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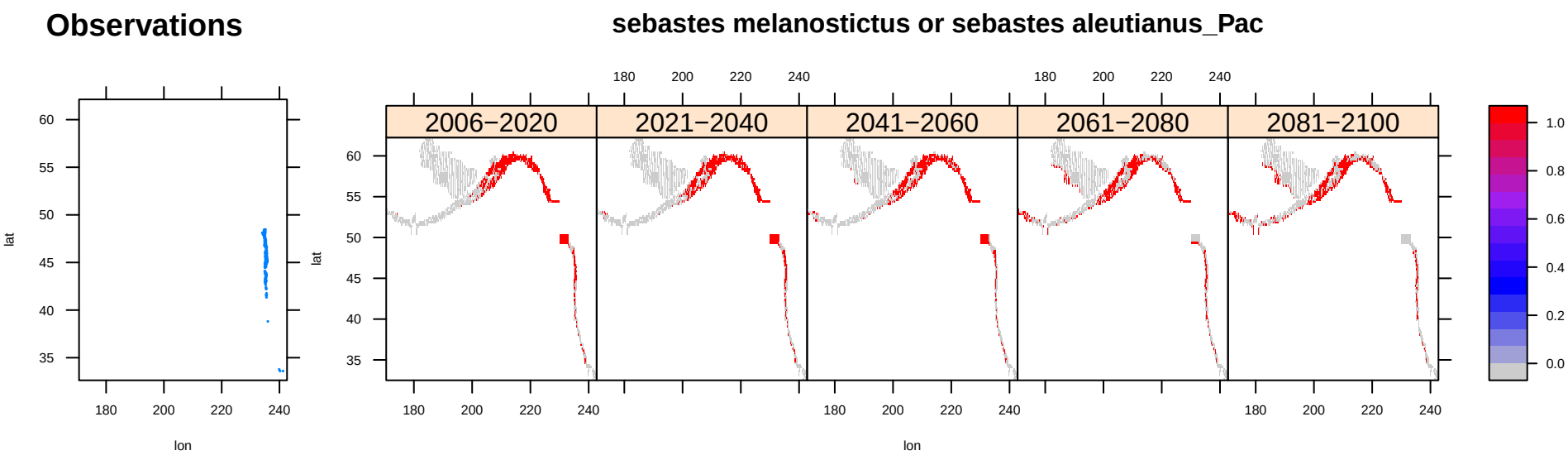
Observations
sebastes melanostictus or sebastes aleutianus_Pac
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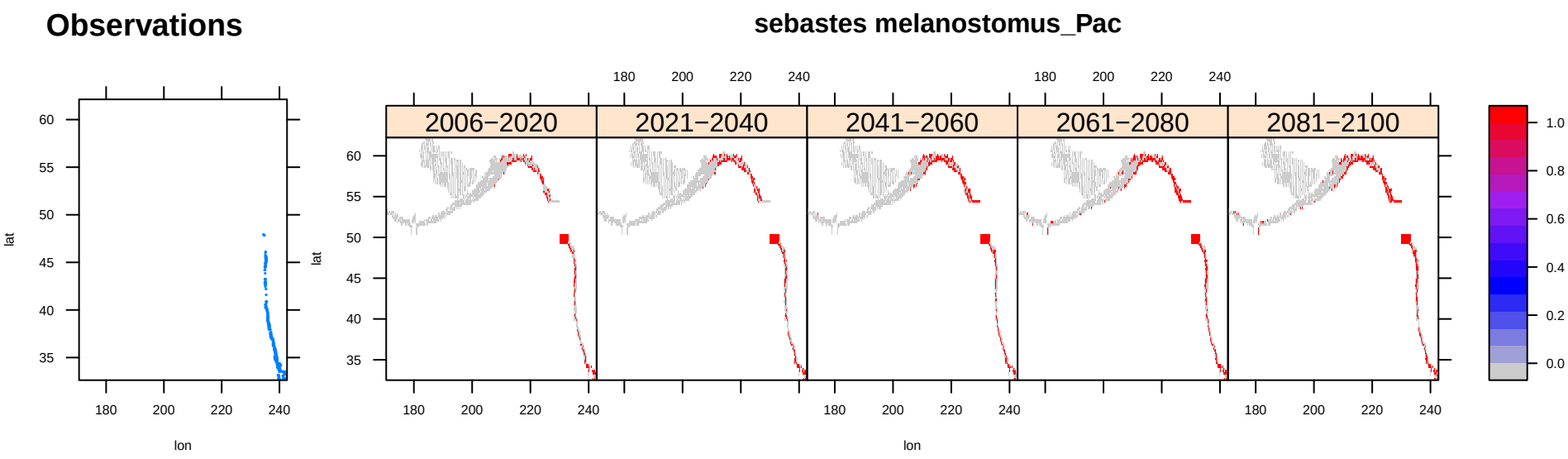
Observations
sebastes melanostomus_Pac
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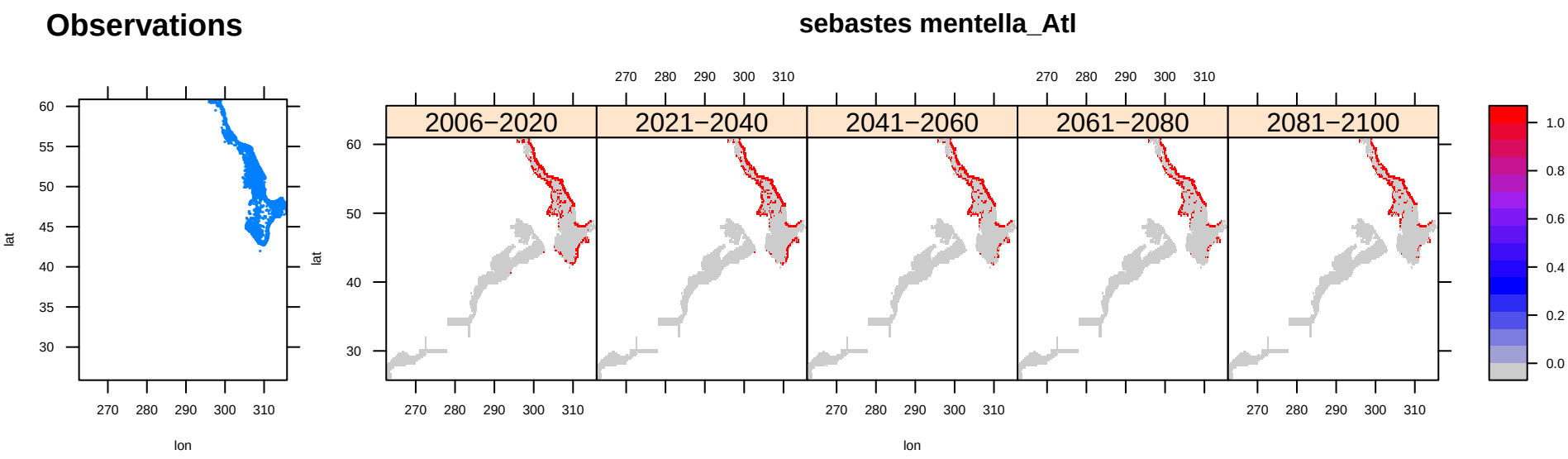
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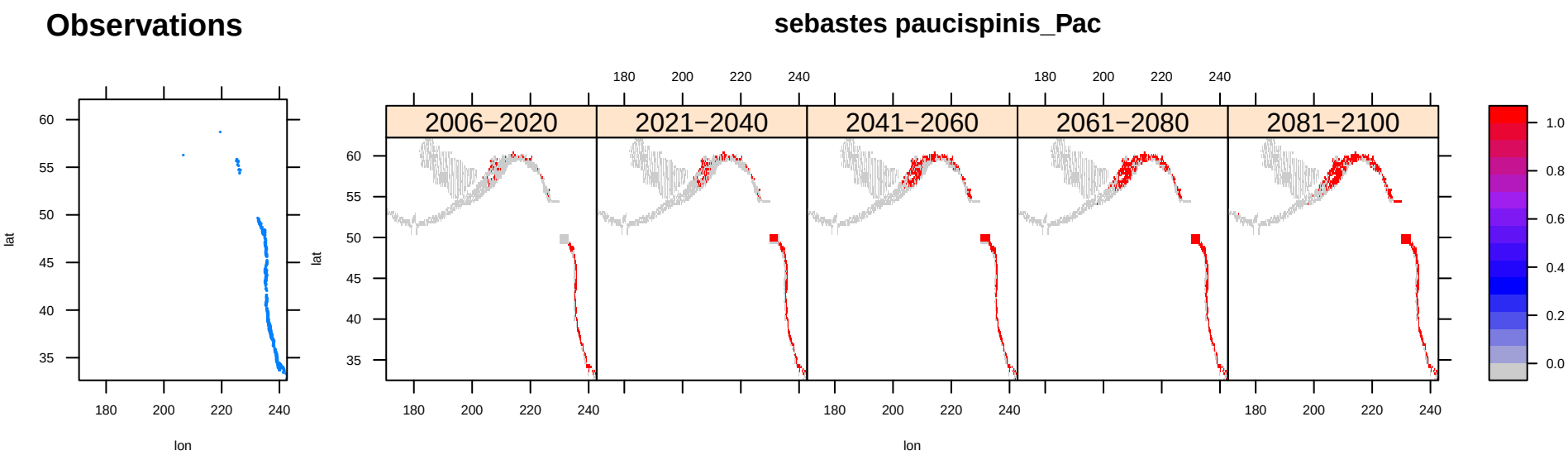
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sebastes paucispinis_Pac
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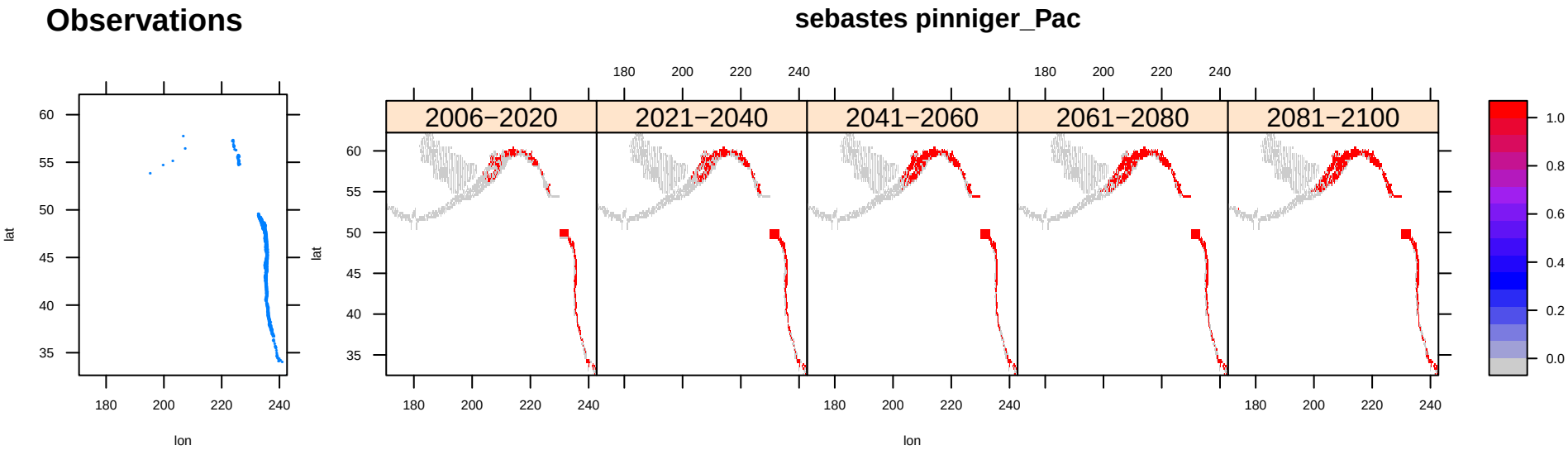
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sebastes pinniger_Pac
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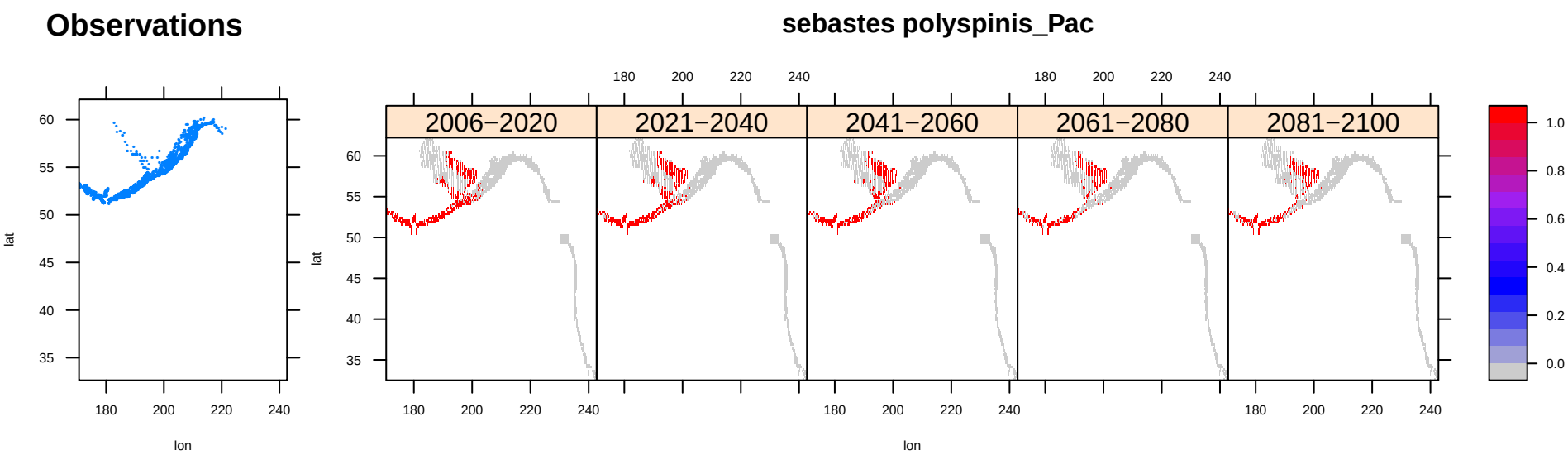
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sebastes polyspinis_Pac
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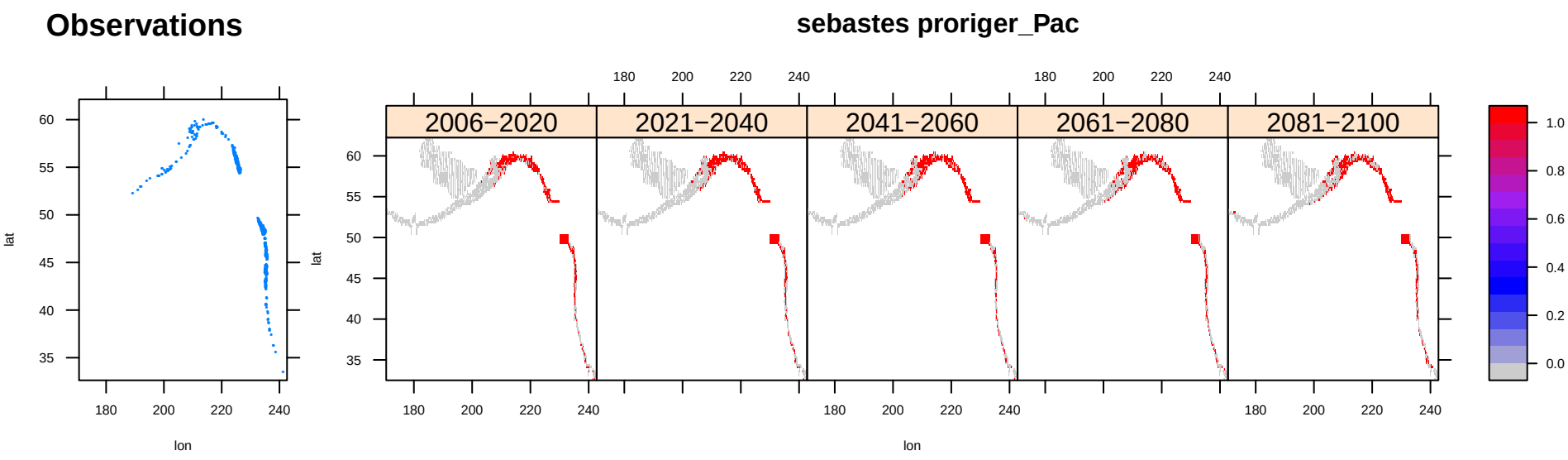
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sebastes proriger_Pac
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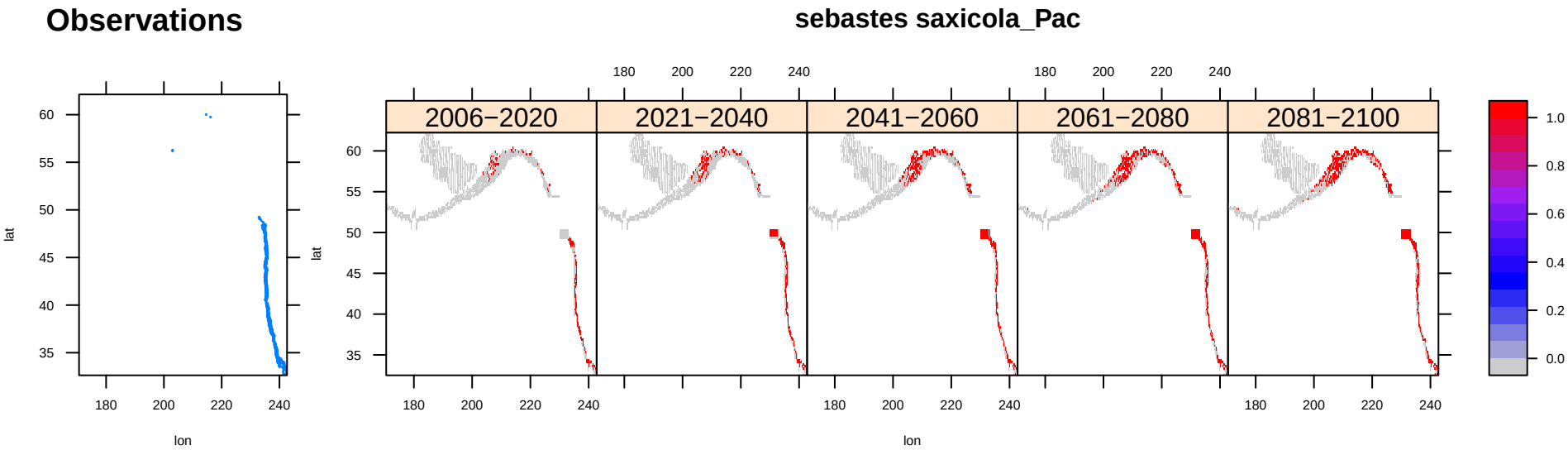
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sebastes saxicola_Pac
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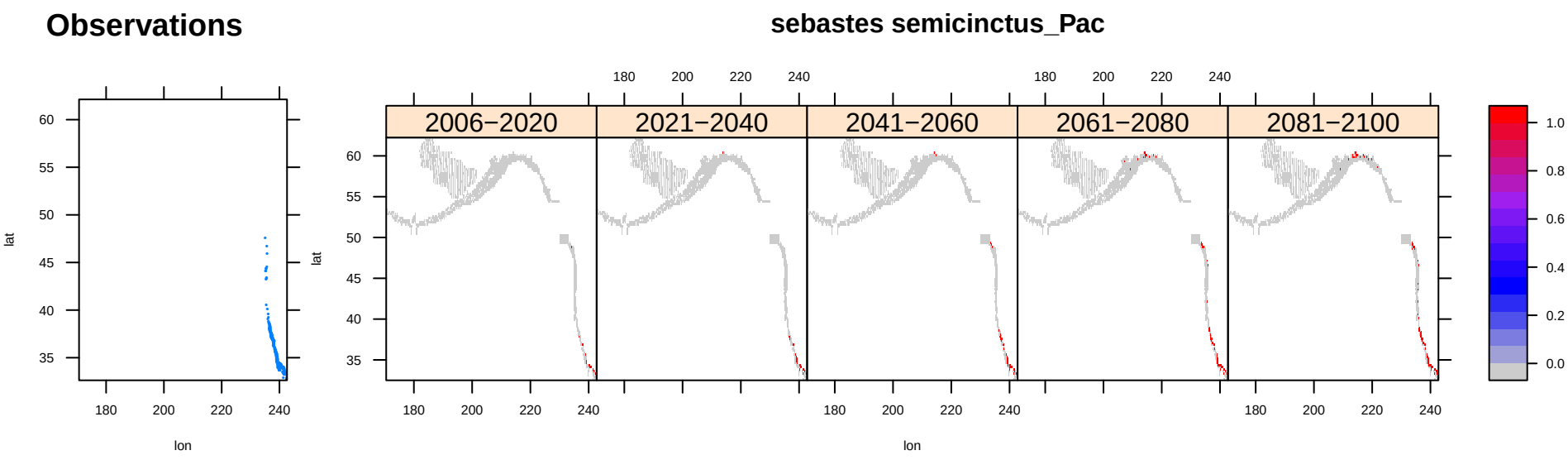
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sebastes semicinctus_Pac
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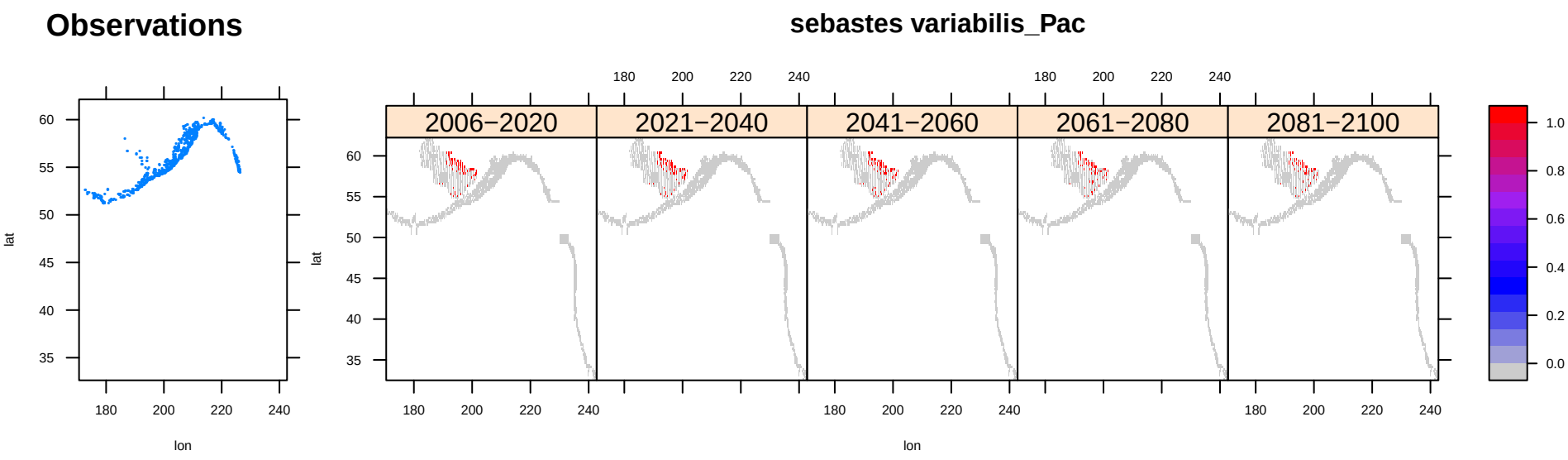
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sebastes variabilis_Pac
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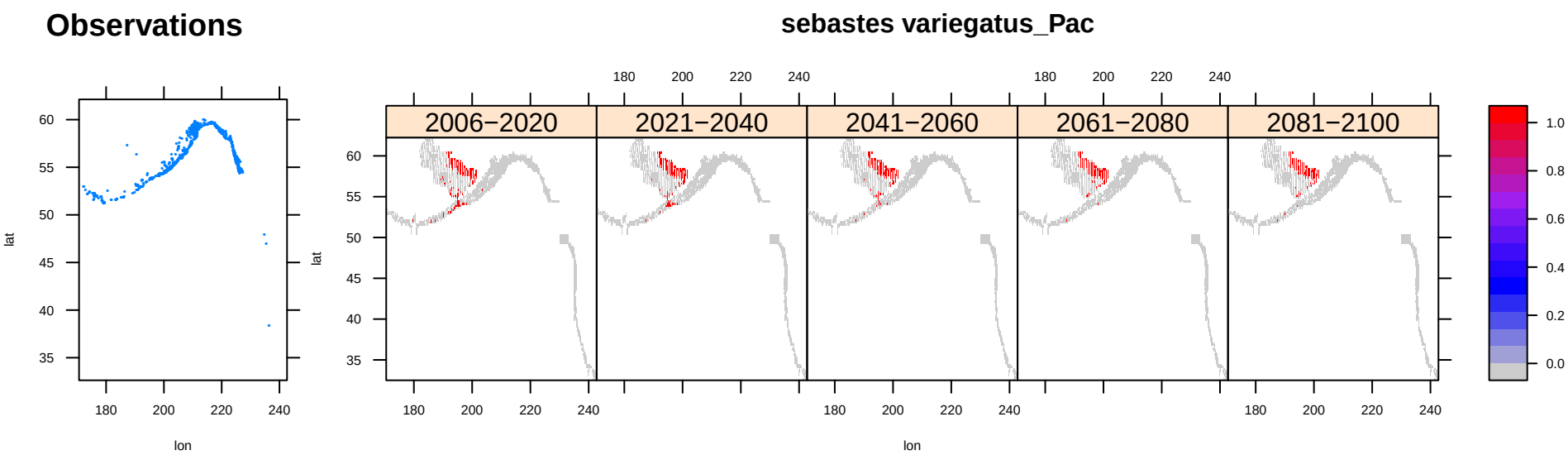
Observations
sebastes variegatus_Pac
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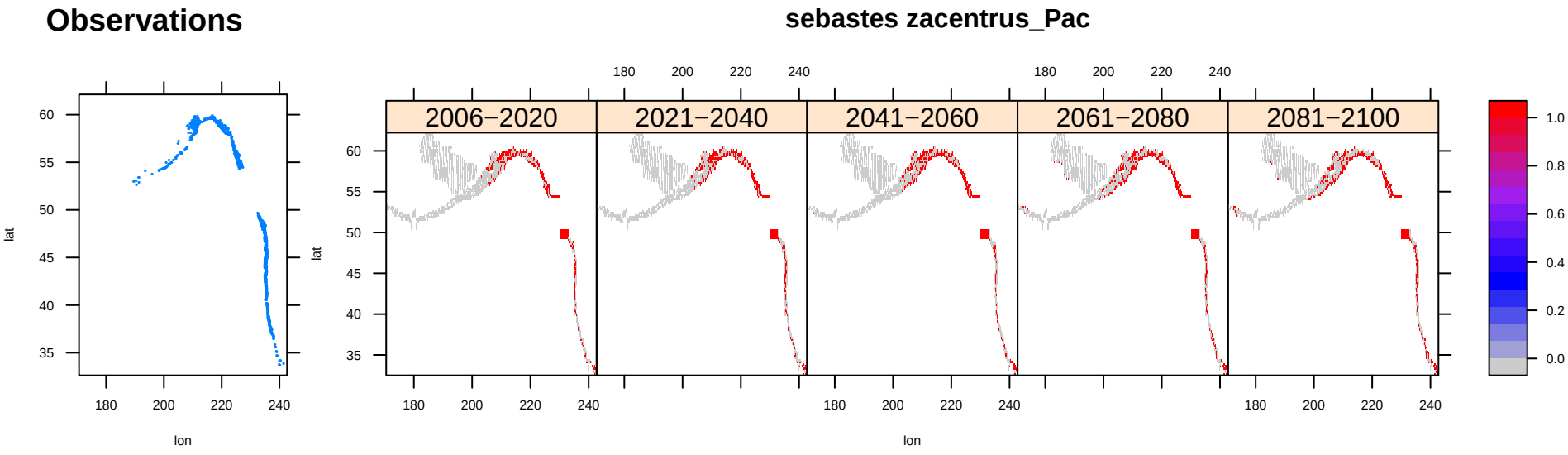
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sebastes zacentrus_Pac
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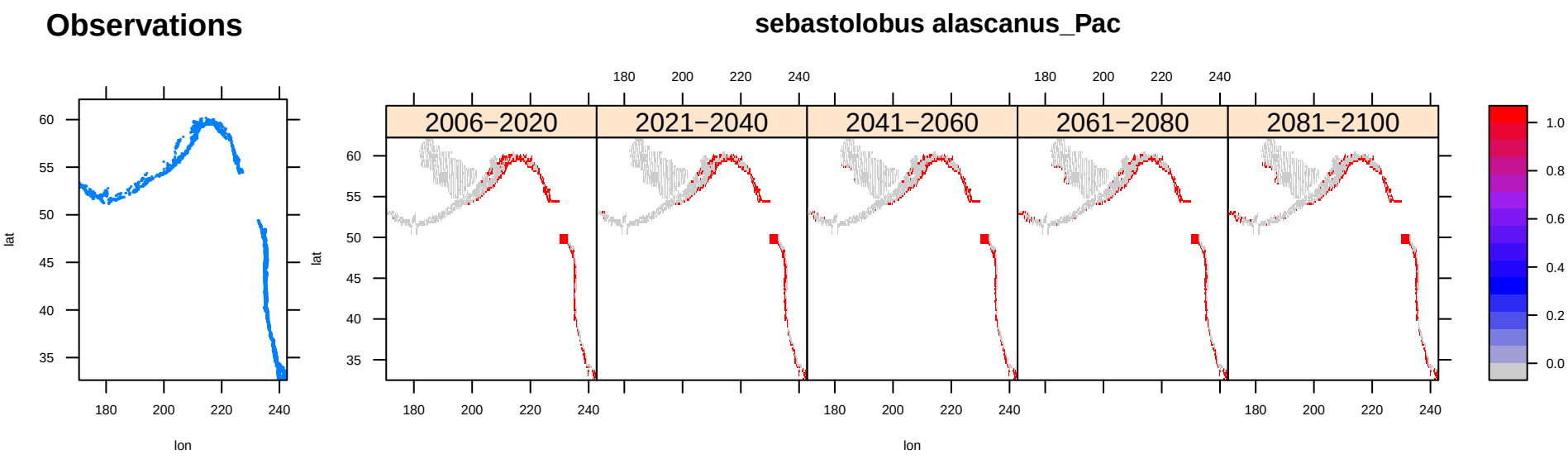
Observations
sebastolobus alascanus_Pac
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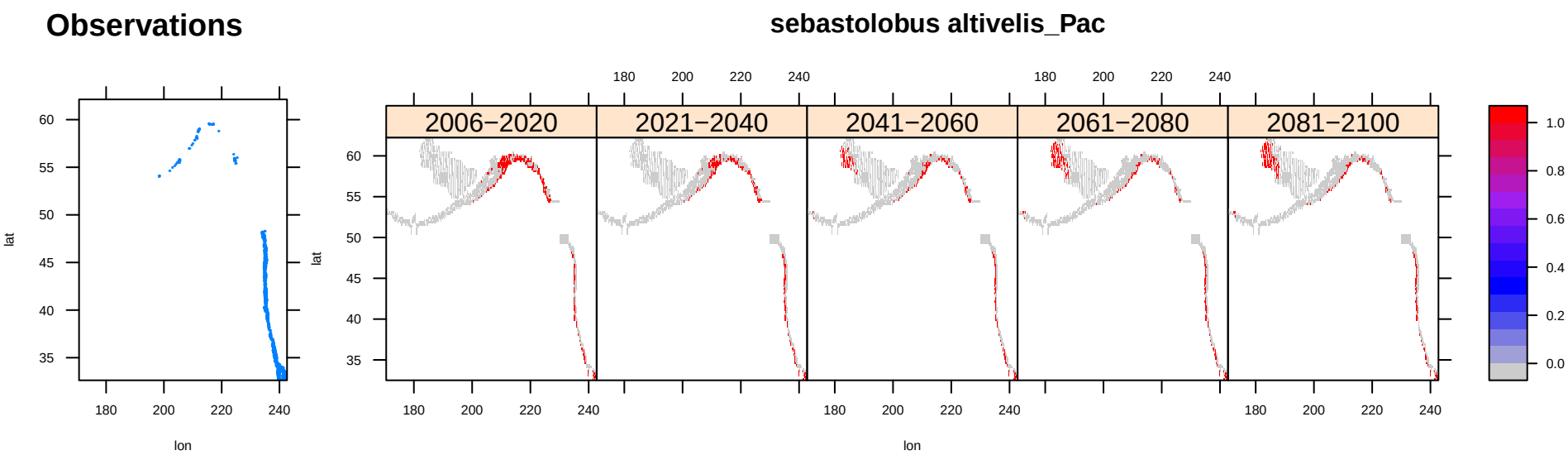
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sebastolobus altivelis_Pac
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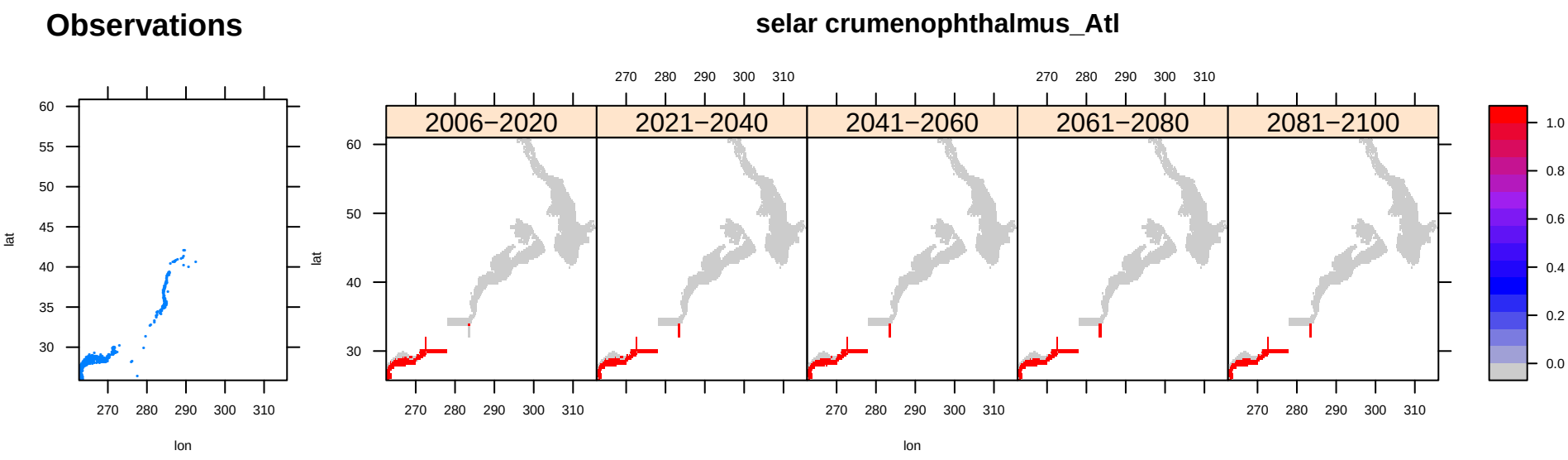
Observations
selar crumenophthalmus_Atl
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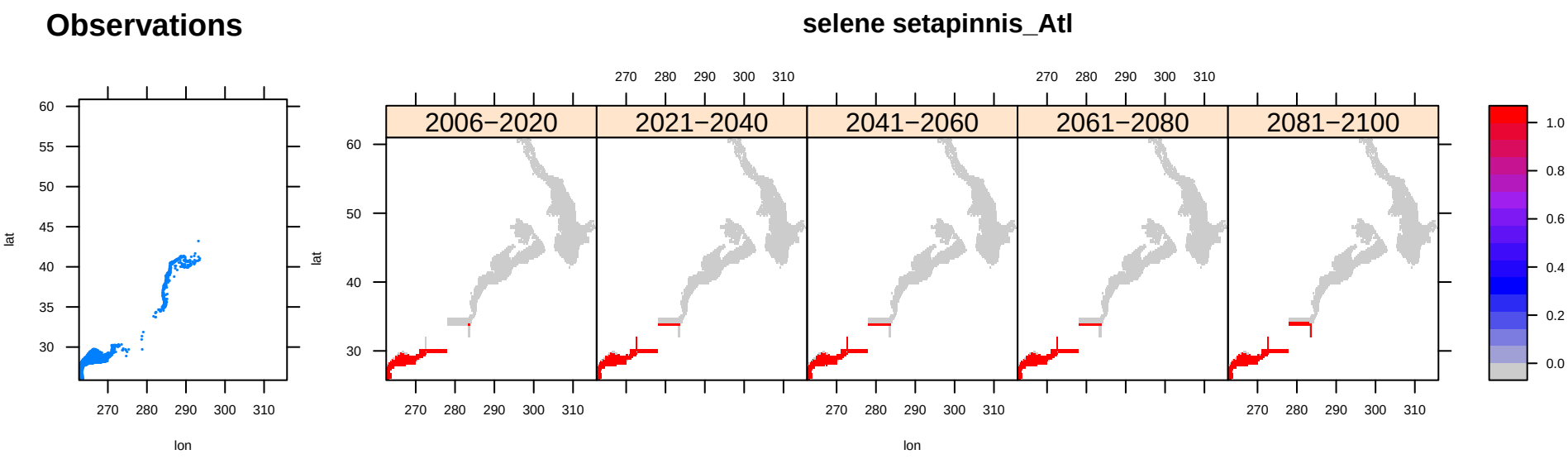
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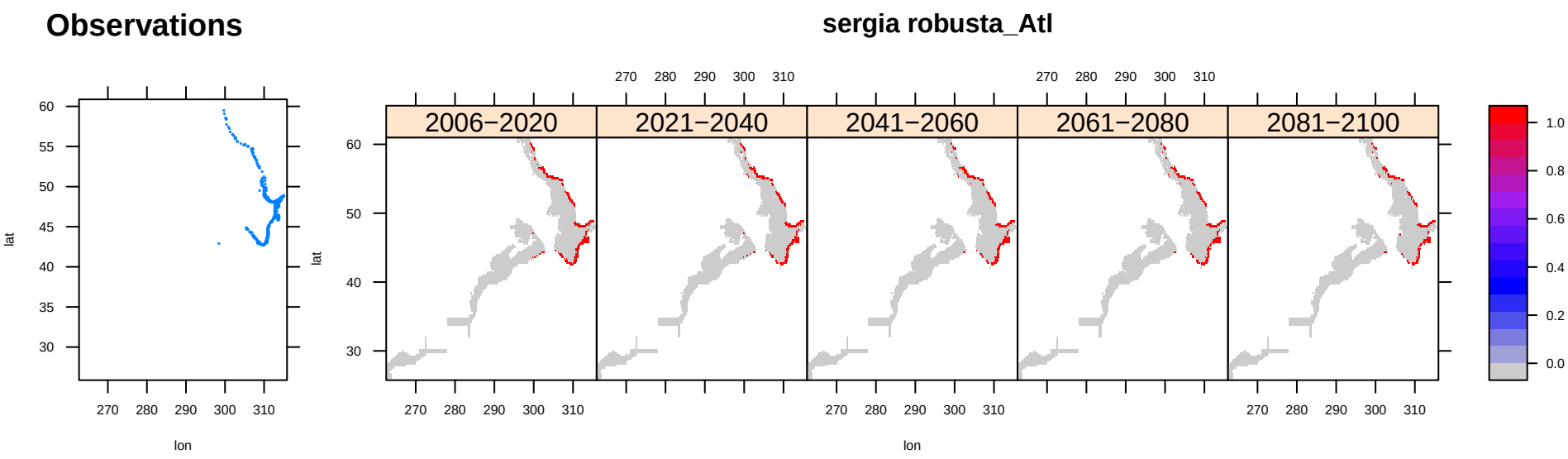
Observations
sergia robusta_Atl
2006−2020
2021−2040
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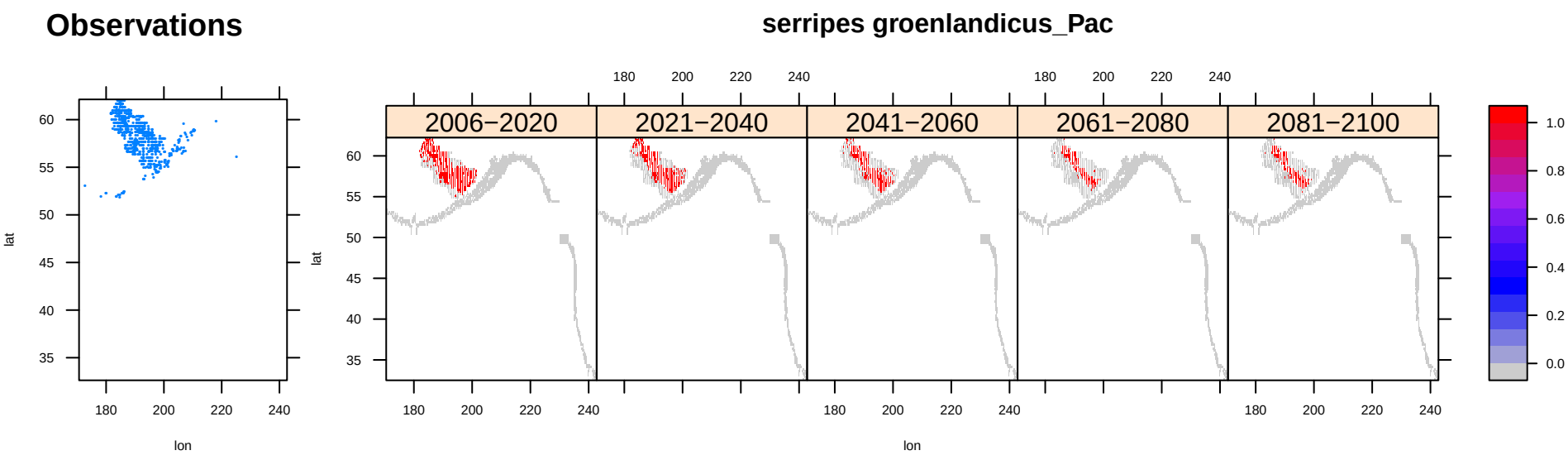
Observations
serripes groenlandicus_Pac
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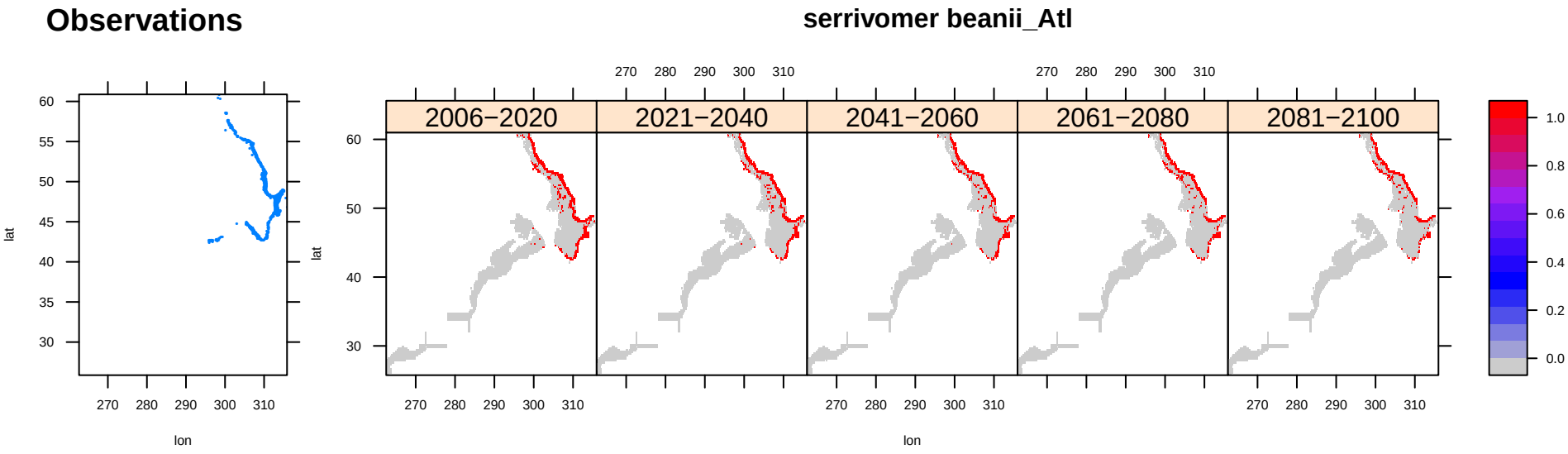
Observations
serrivomer beanii_Atl
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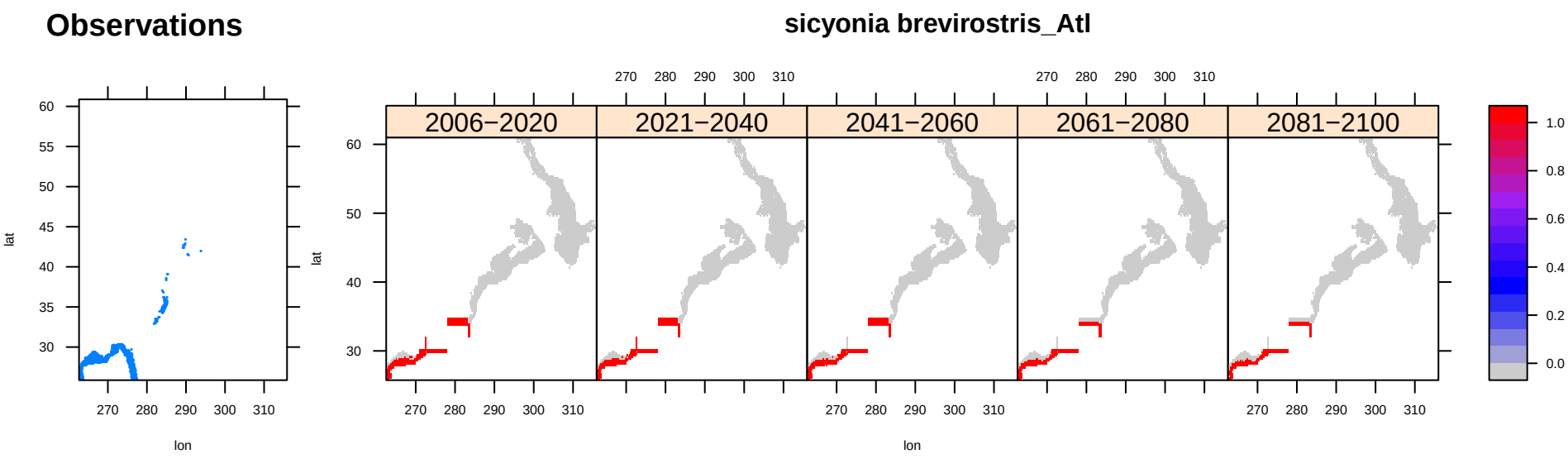
Observations
sicyonia brevirostris_Atl
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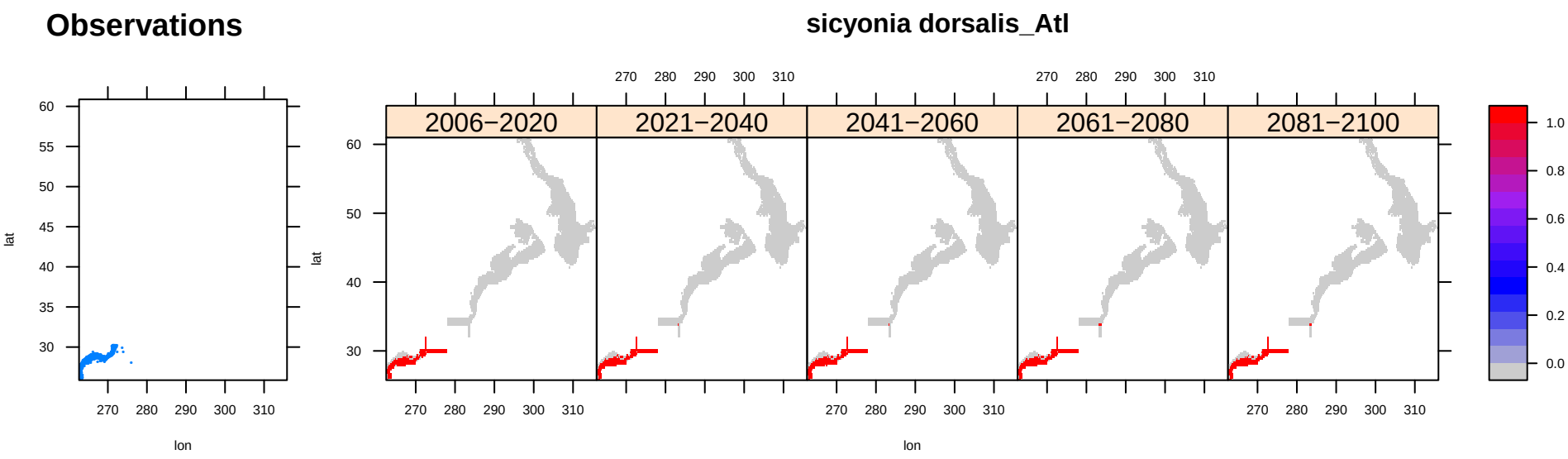
Observations
sicyonia dorsalis_Atl
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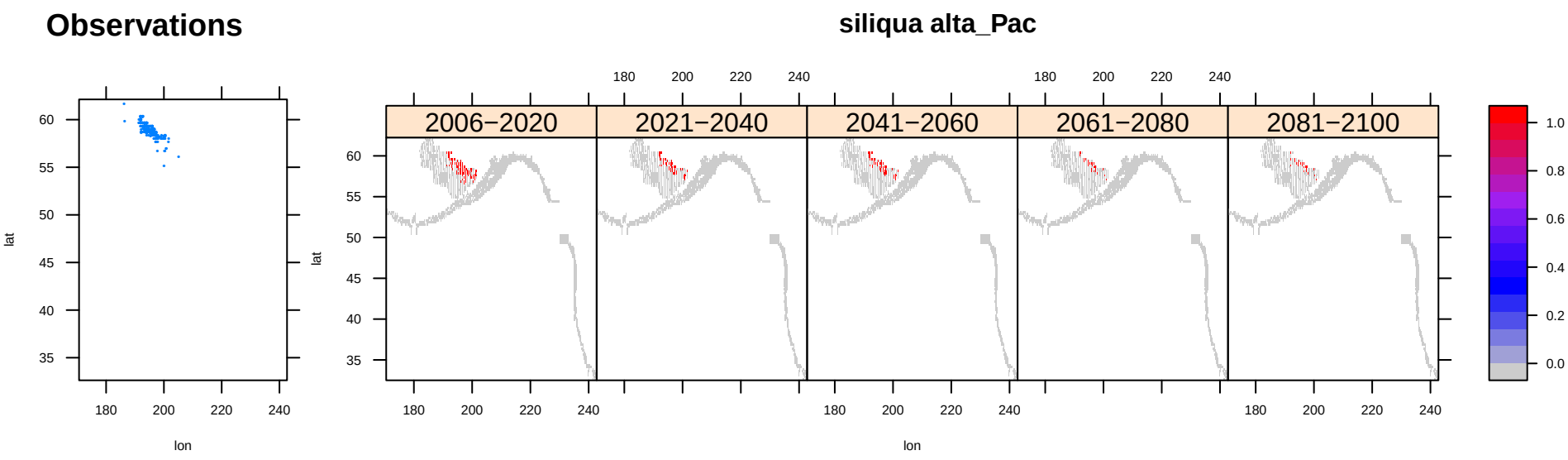
Observations
siliqua alta_Pac
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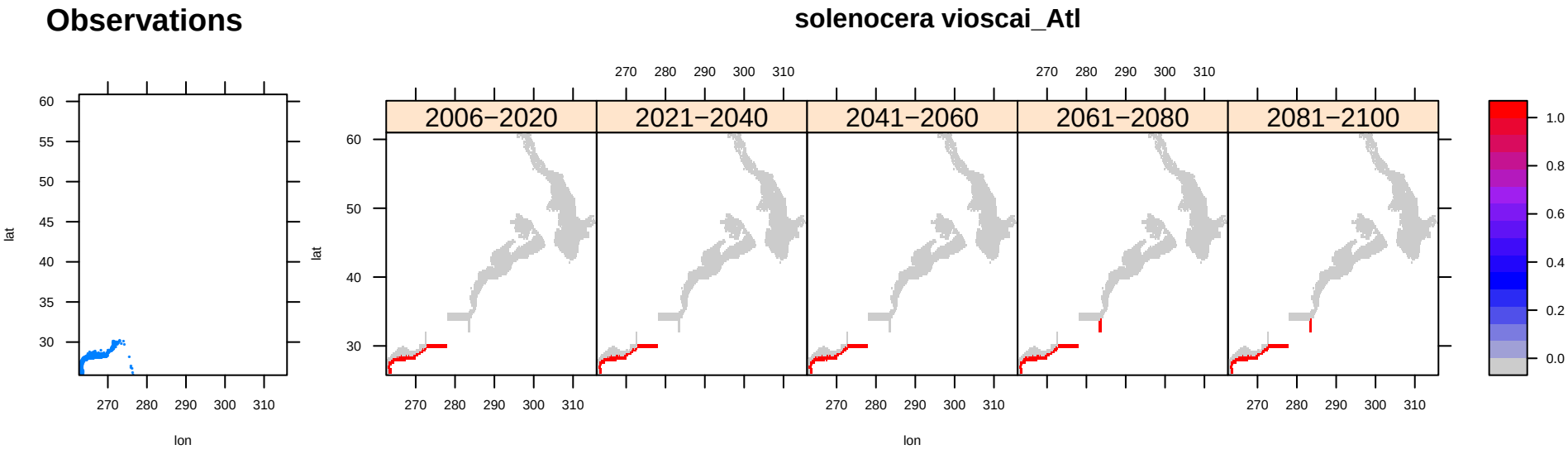
Observations
solenocera vioscai_Atl
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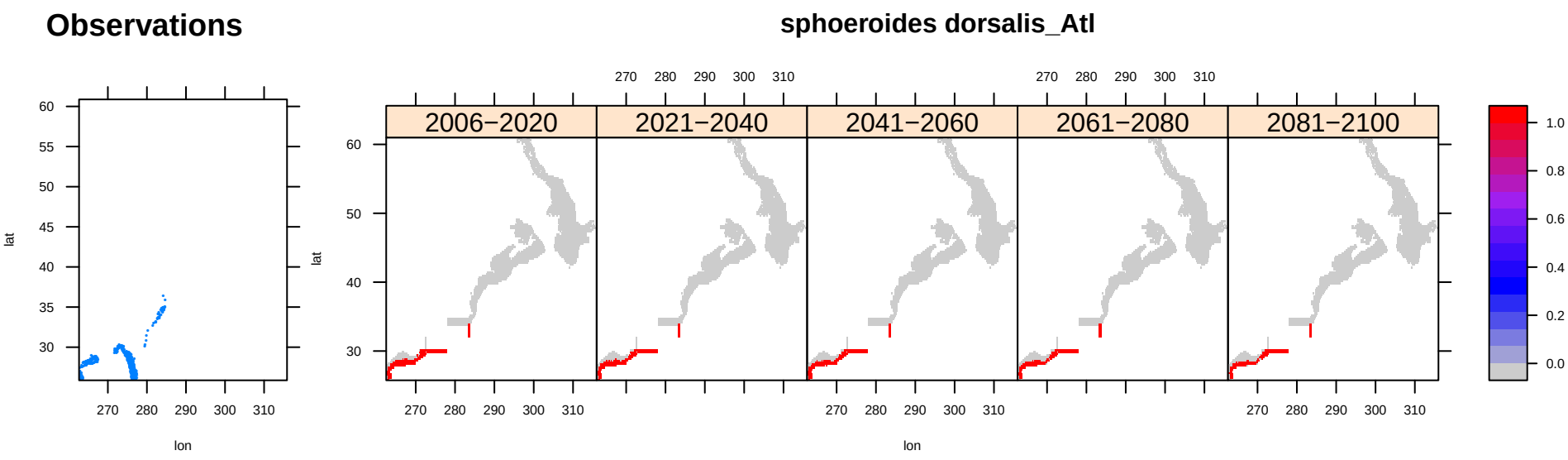
Observations
sphoeroides dorsalis_Atl
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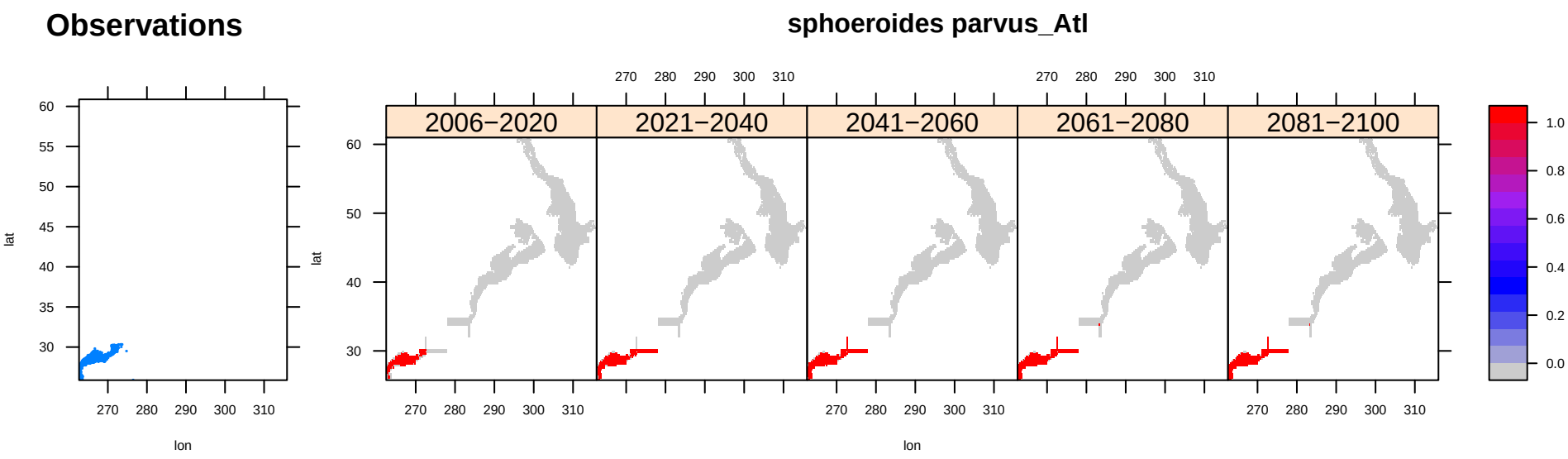
Observations
sphoeroides parvus_Atl
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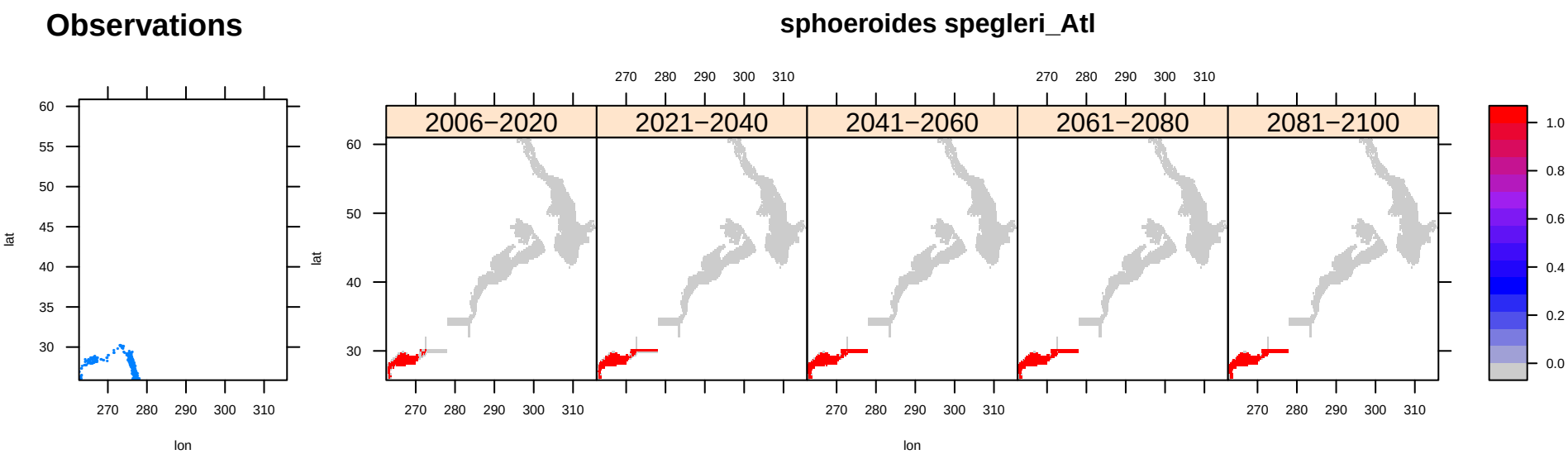
Observations
sphoeroides spegleri_Atl
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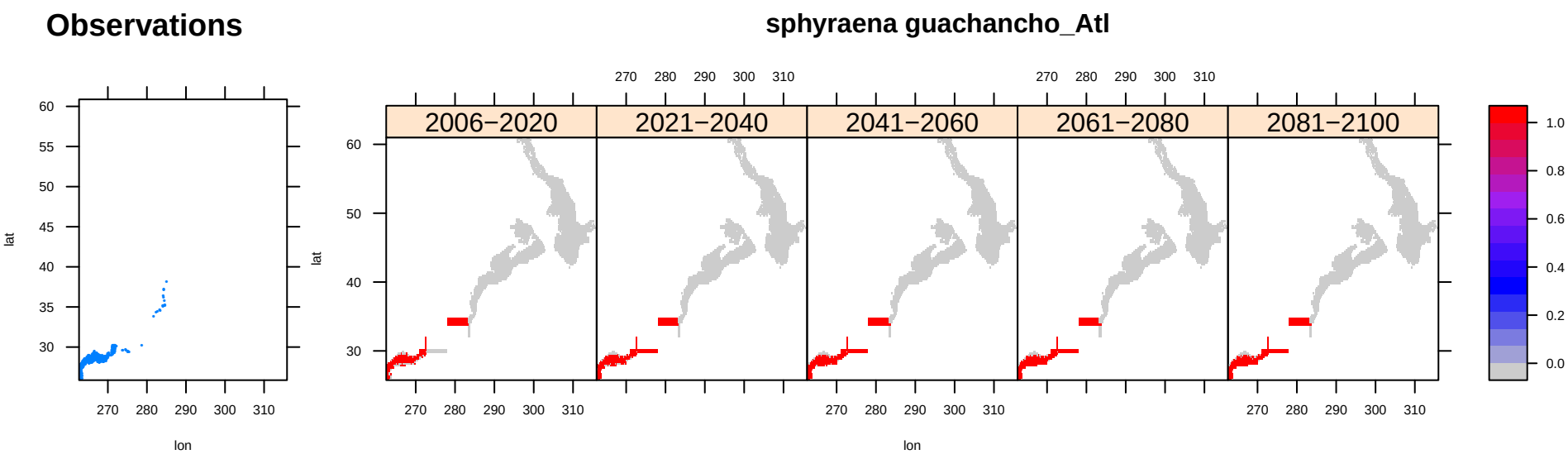
Observations
sphyraena guachancho_Atl
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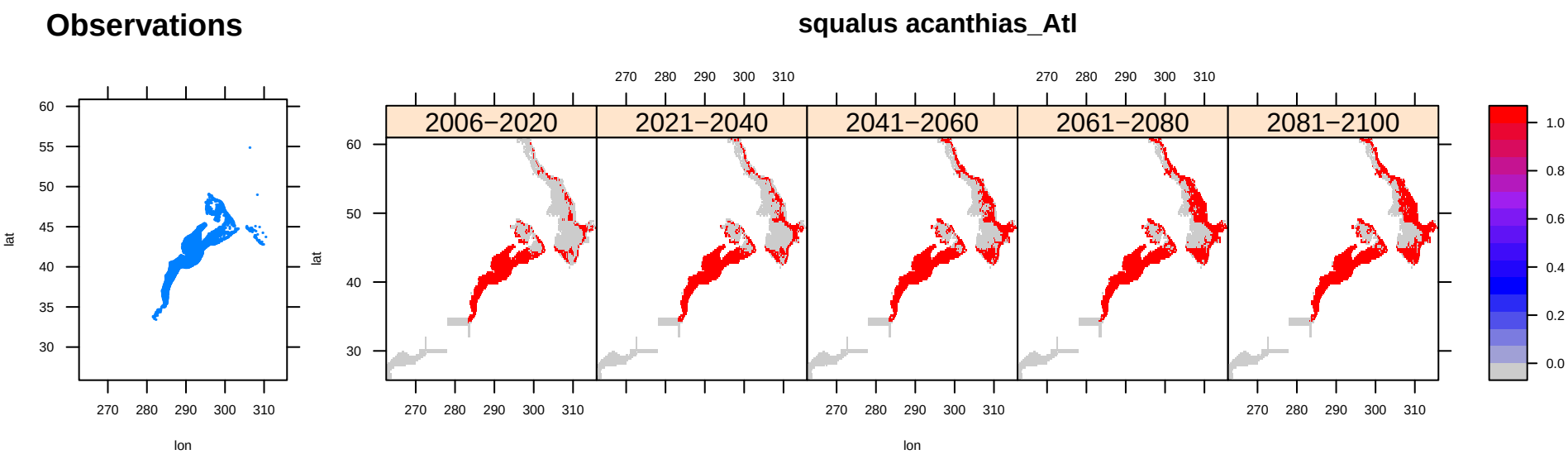
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squalus acanthias_Atl
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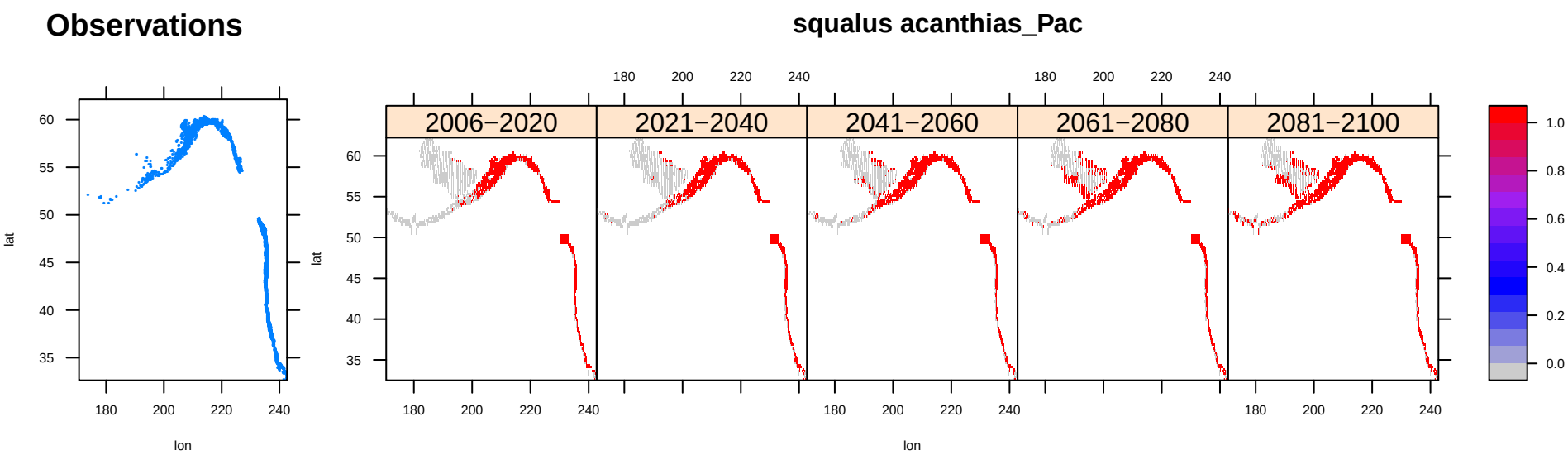
Observations
squalus acanthias_Pac
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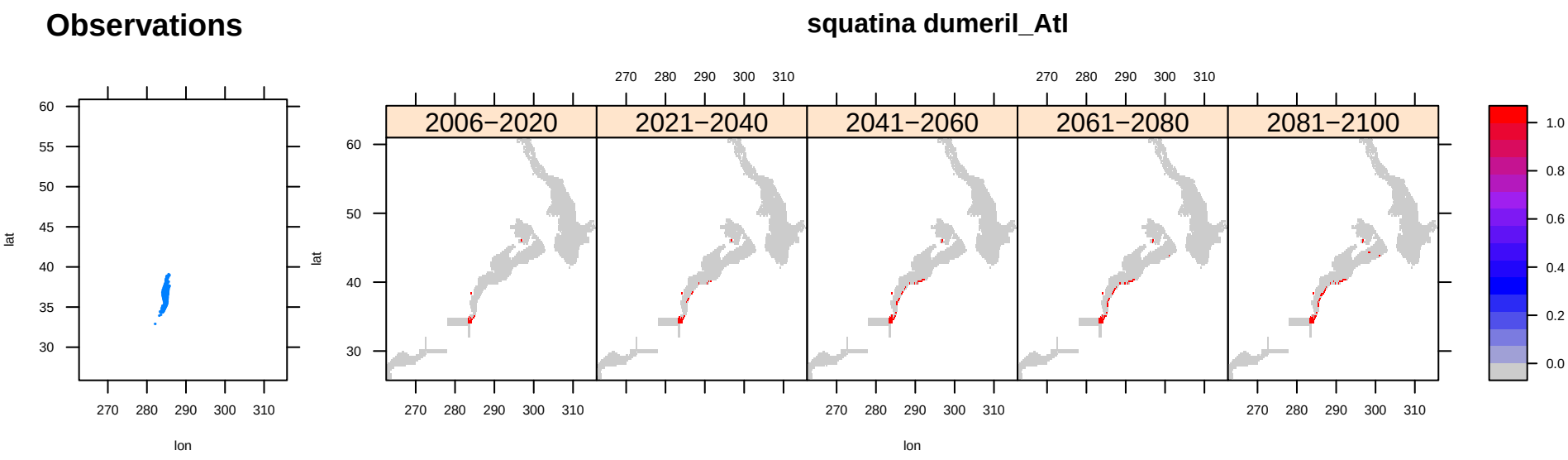
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squatina dumeril_Atl
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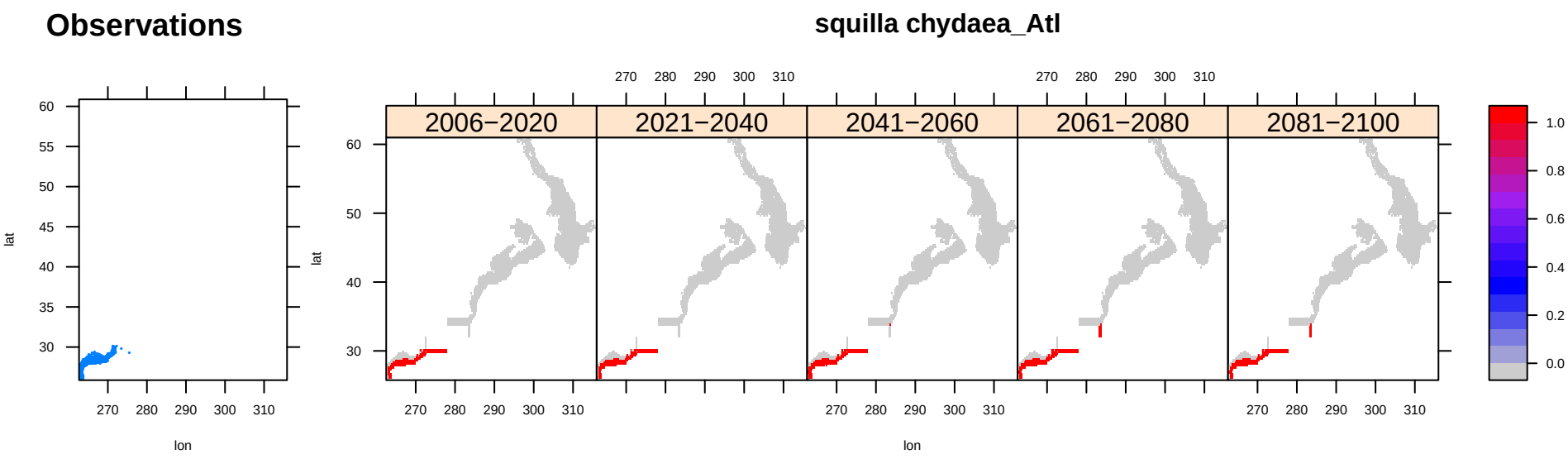
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squilla chydaea_Atl
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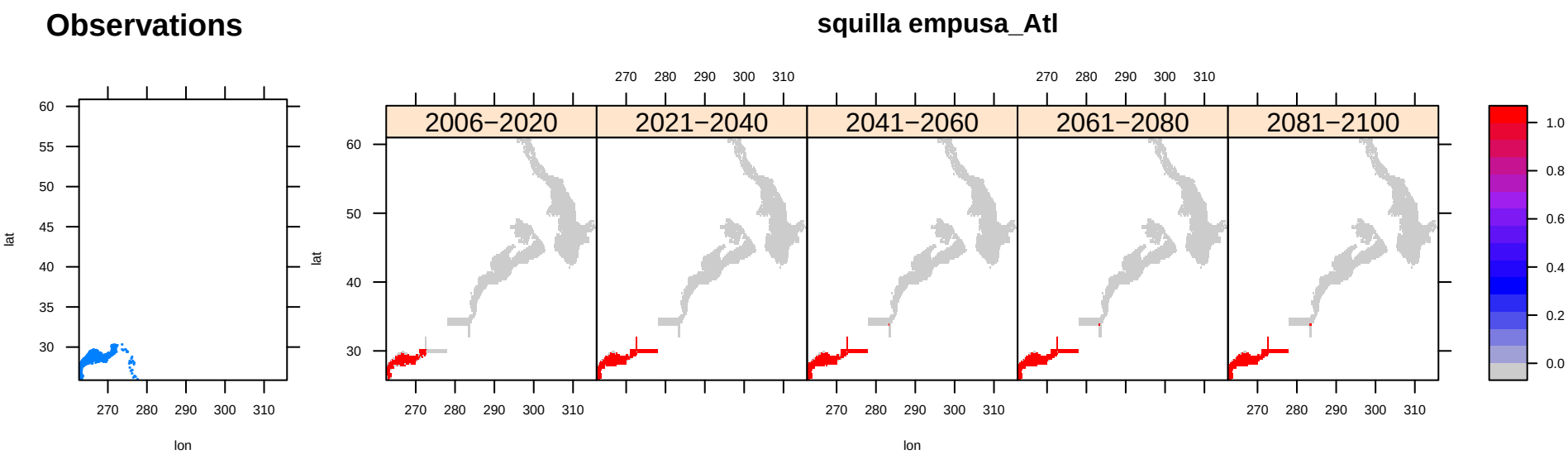
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squilla empusa_Atl
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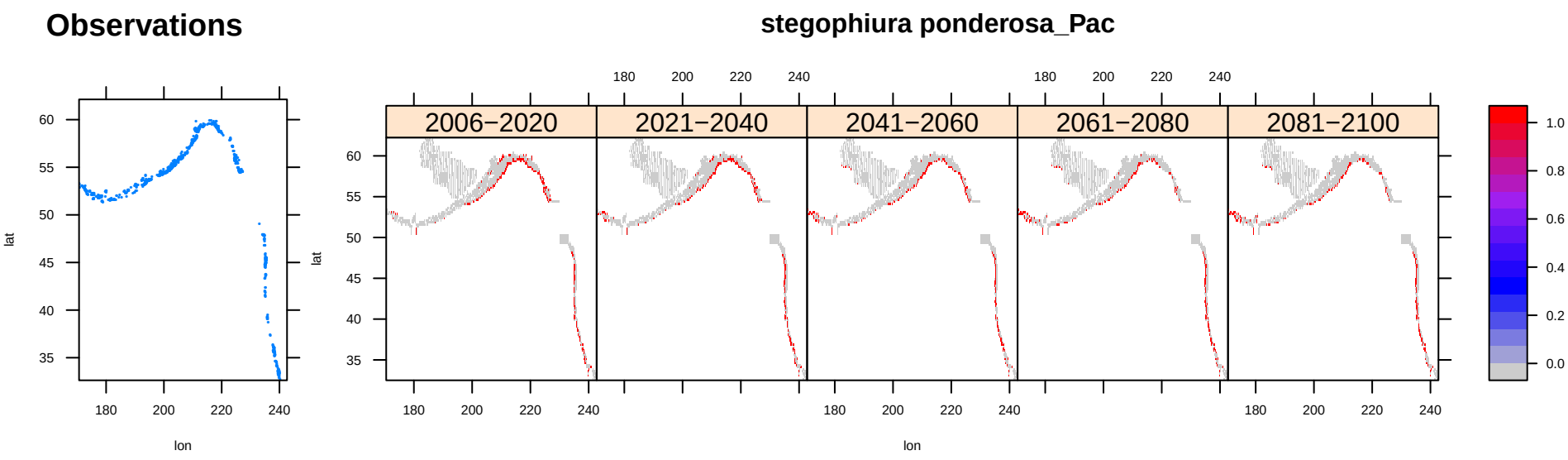
Observations
stegophiura ponderosa_Pac
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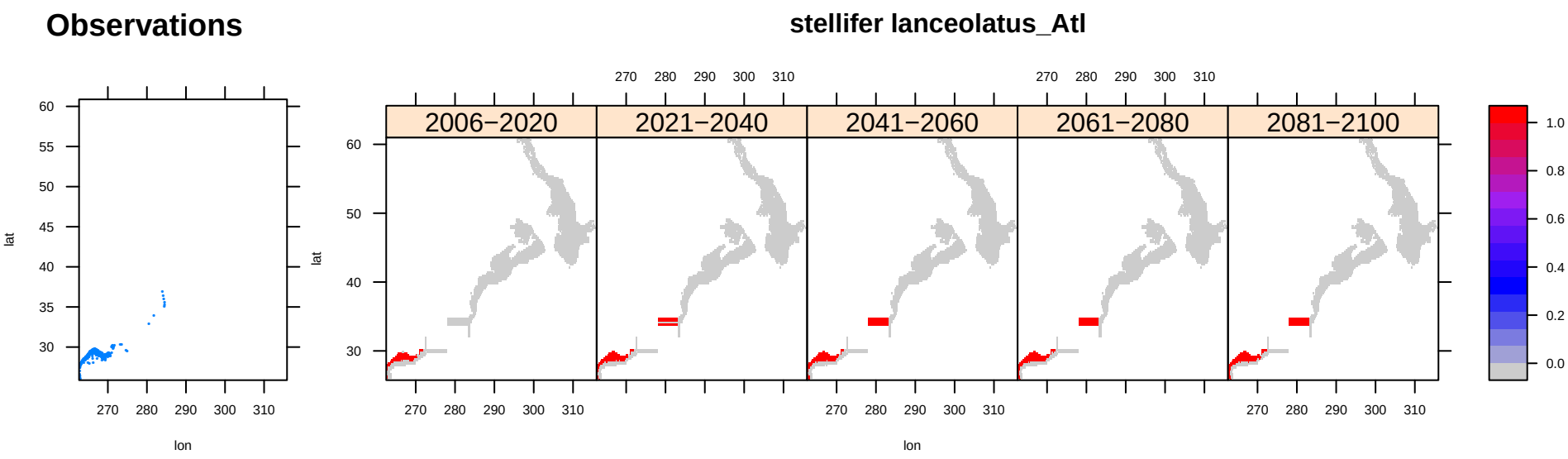
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stellifer lanceolatus_Atl
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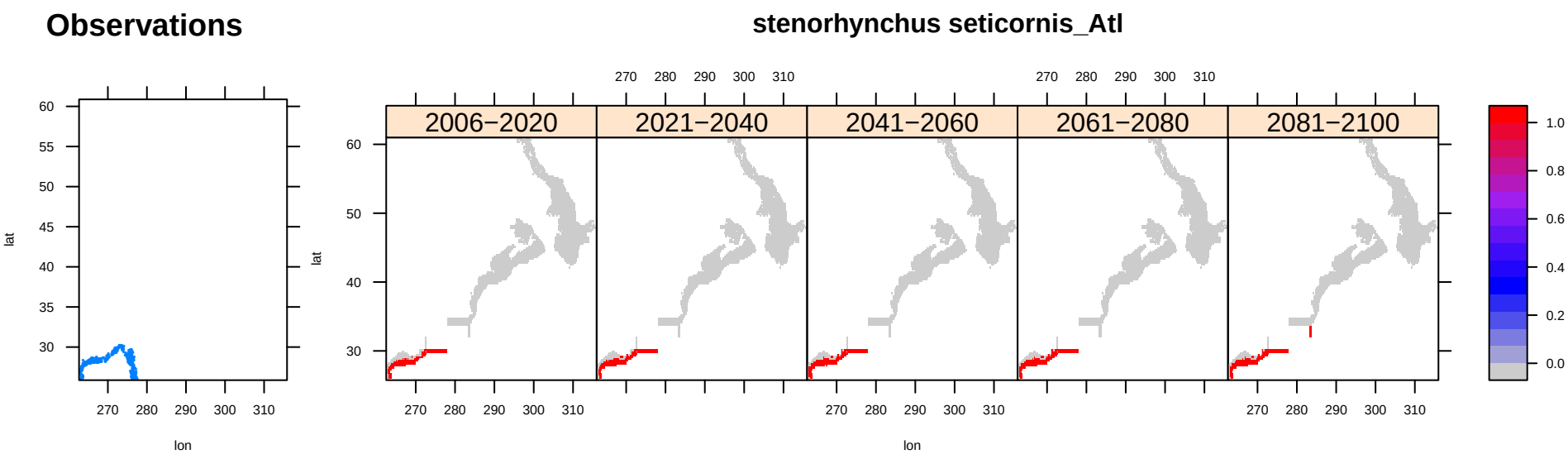
Observations
stenorhynchus seticornis_Atl
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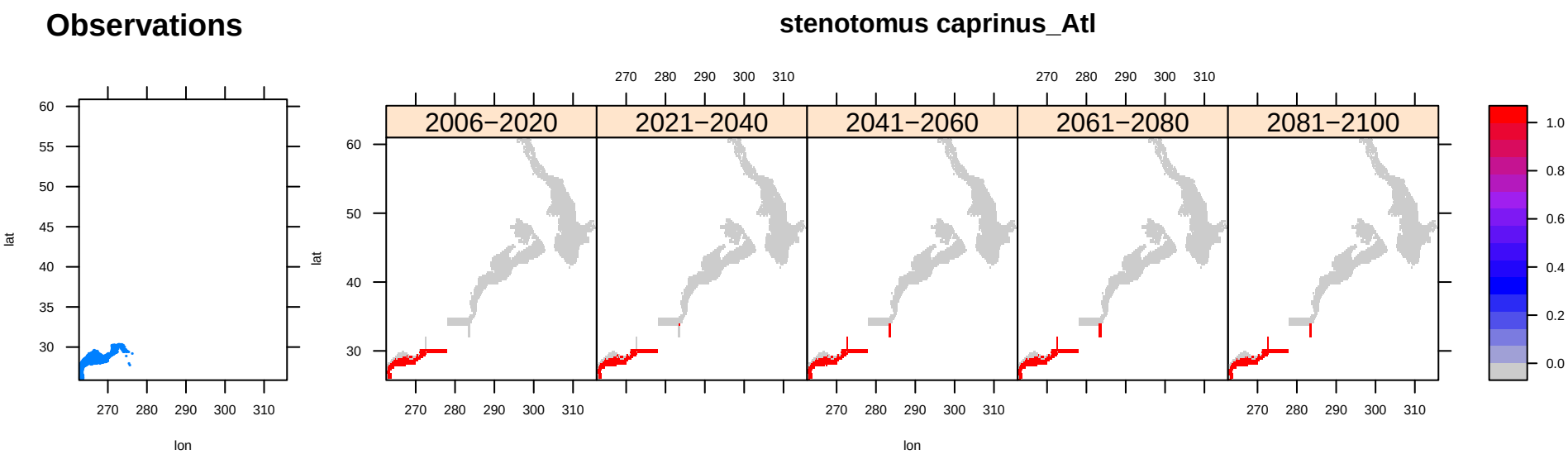
Observations
stenotomus caprinus_Atl
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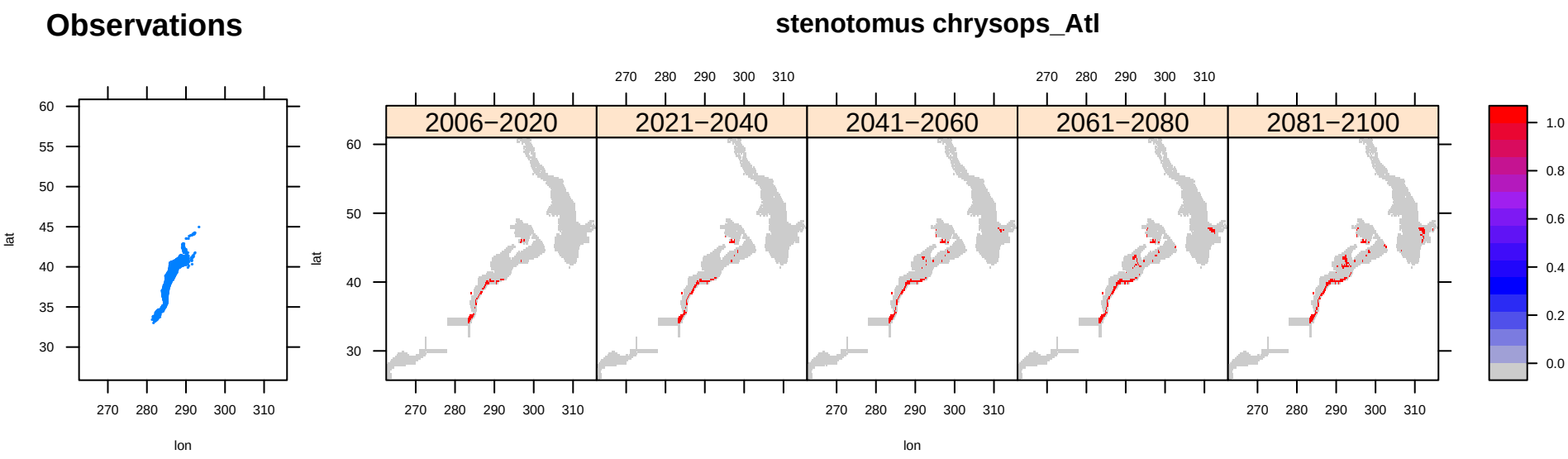
Observations
stenotomus chrysops_Atl
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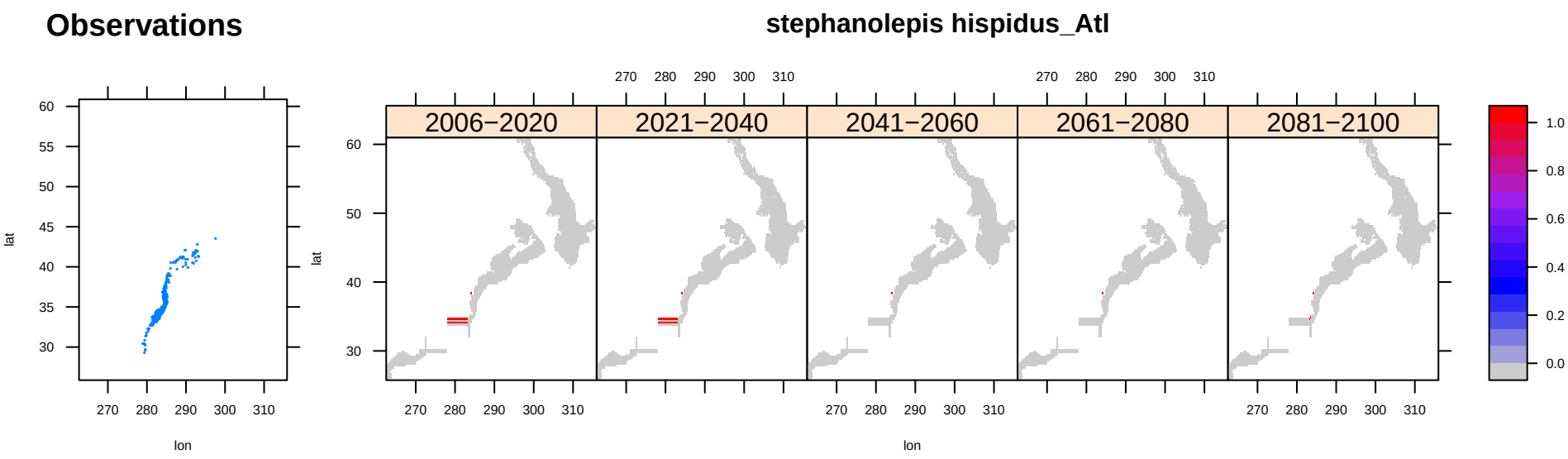
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stephanolepis hispidus_Atl
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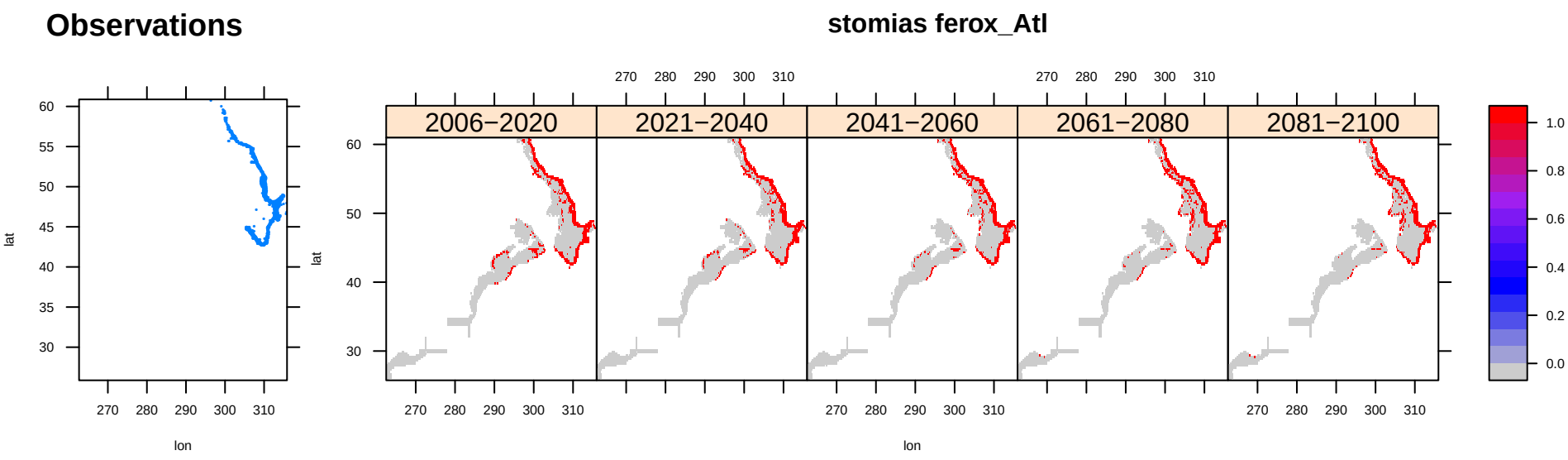
Observations
stomias ferox_Atl
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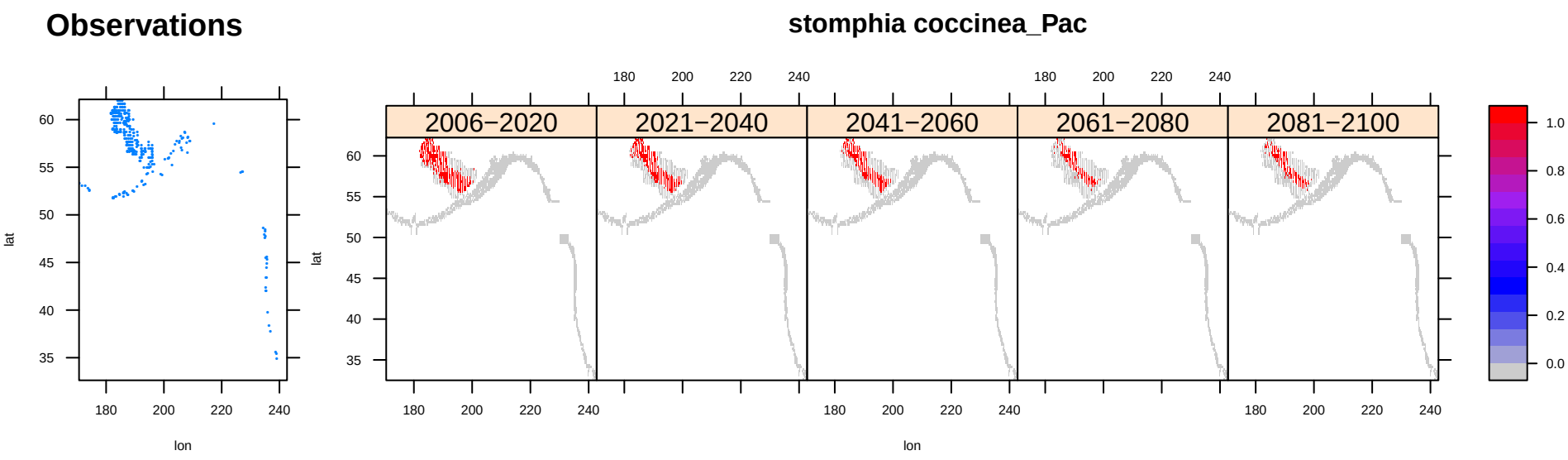
Observations
stomphia coccinea_Pac
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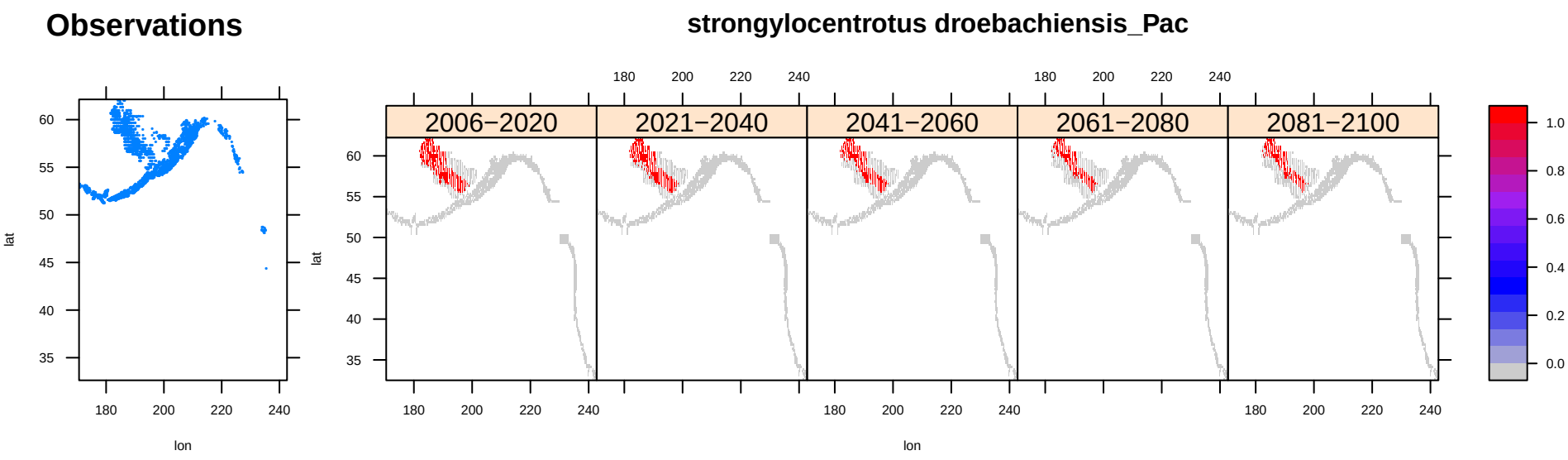
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strongylocentrotus droebachiensis_Pac
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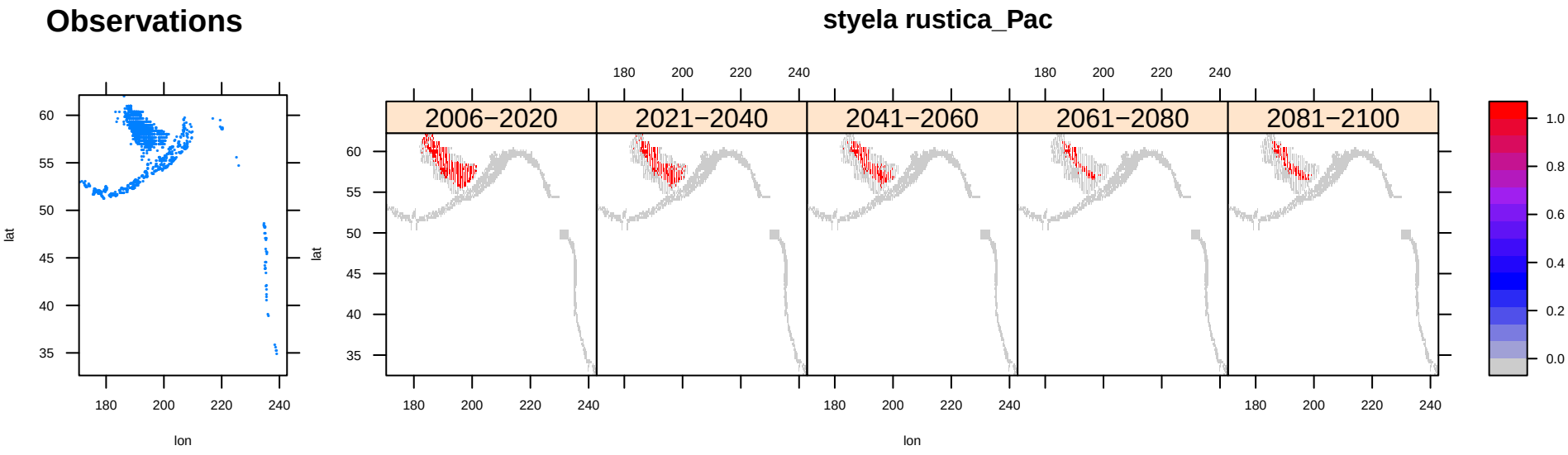
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styela rustica_Pac
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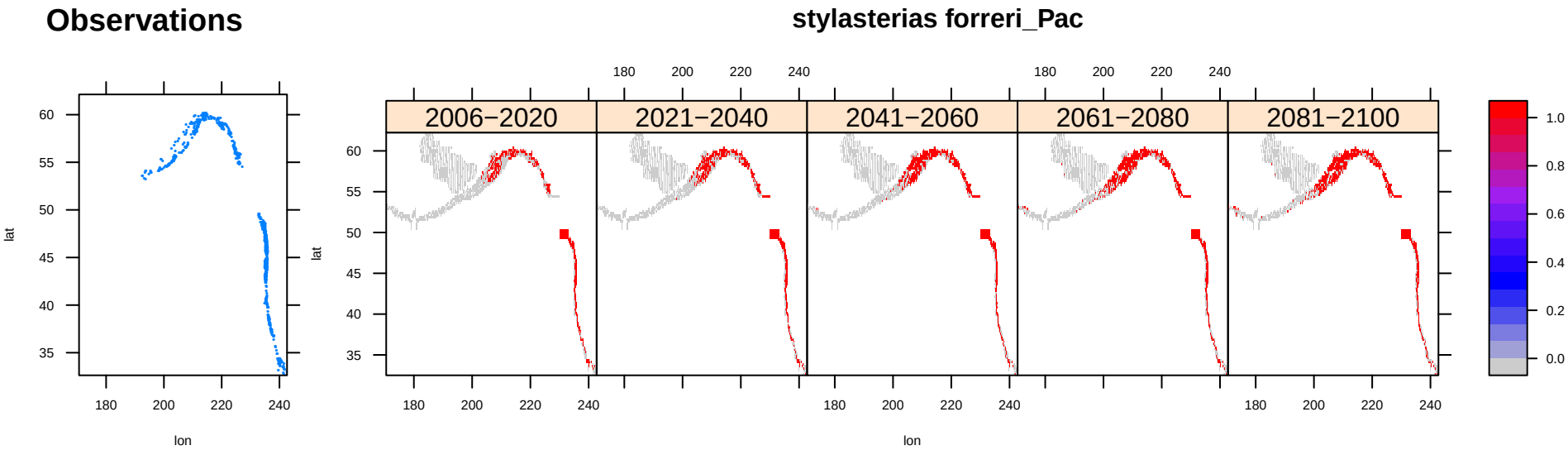
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stylasterias forreri_Pac
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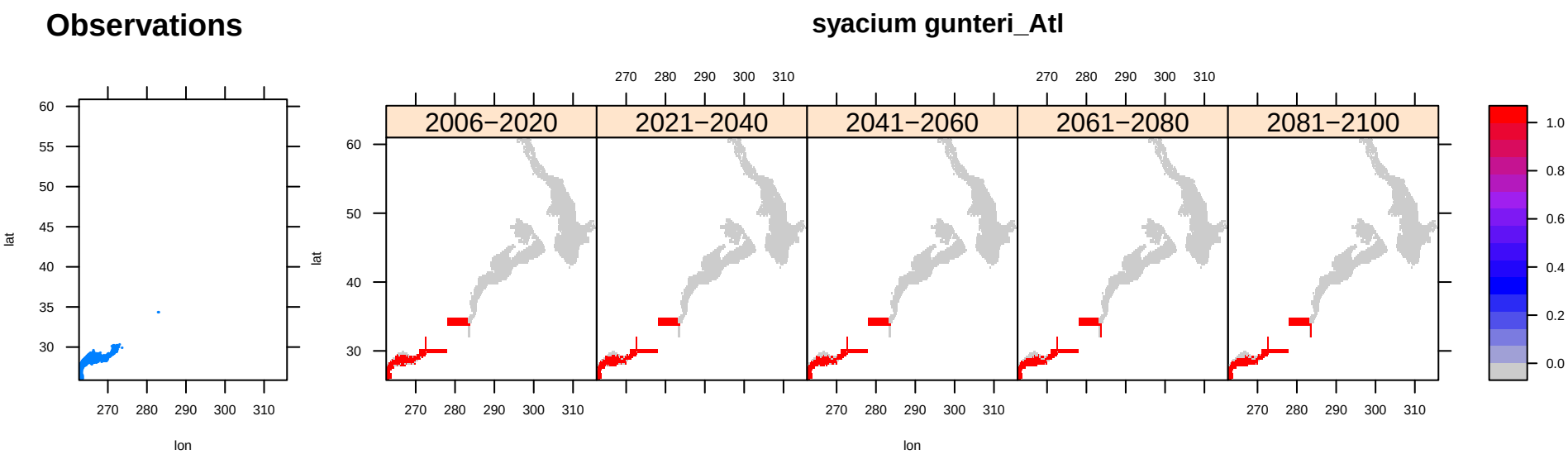
Observations
syacium gunteri_Atl
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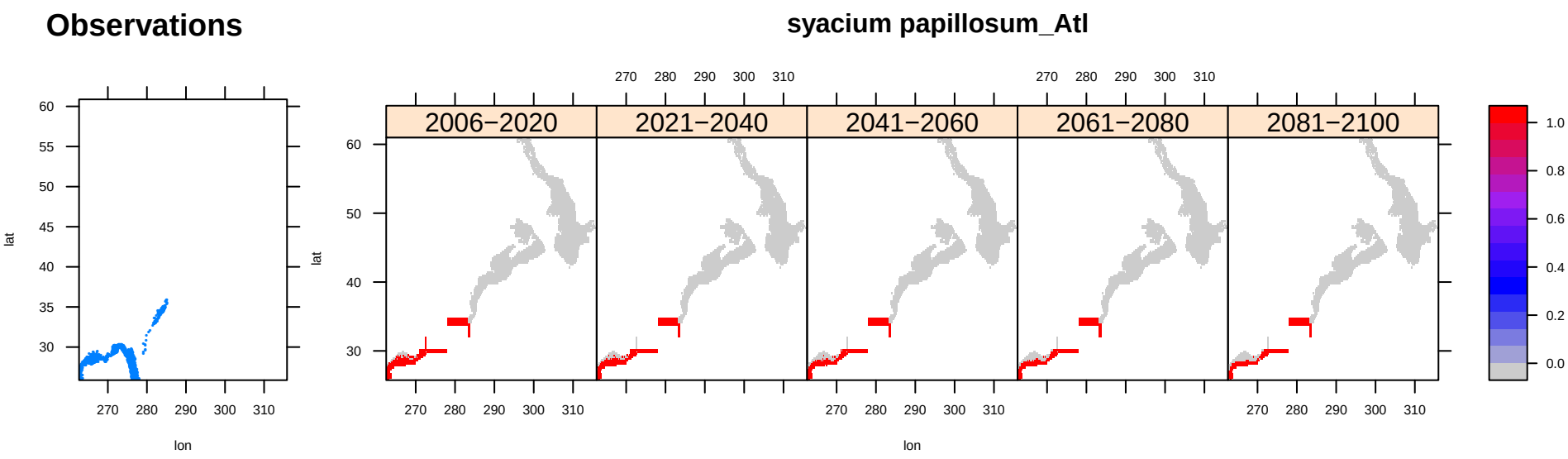
Observations
syacium papillosum_Atl
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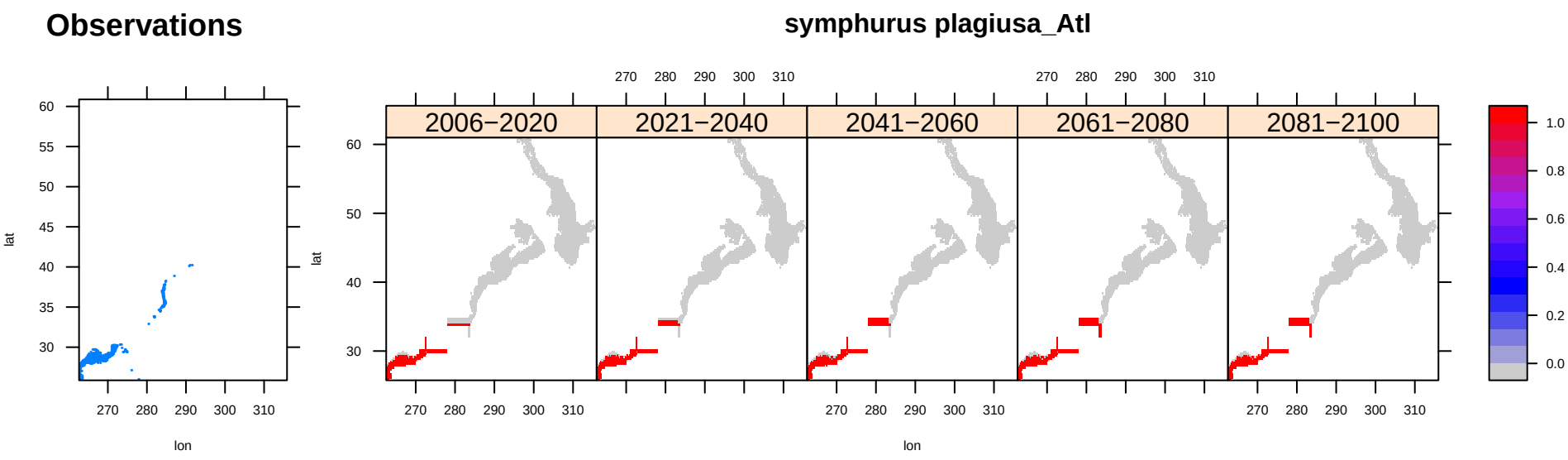
Observations
symphurus plagiusa_Atl
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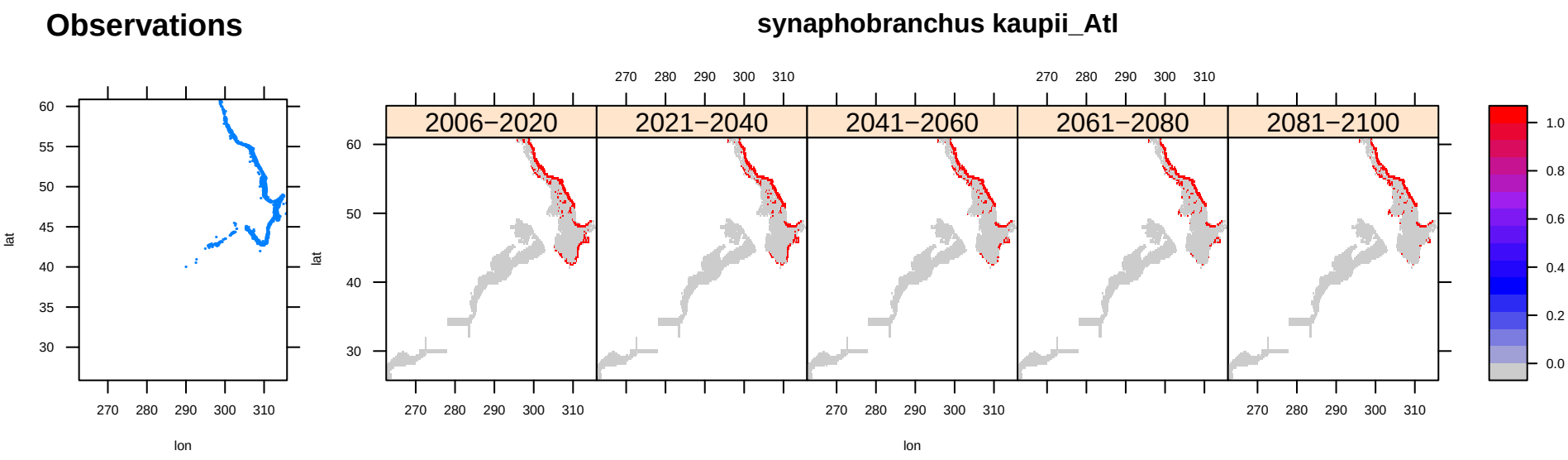
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synaphobranchus kaupii_Atl
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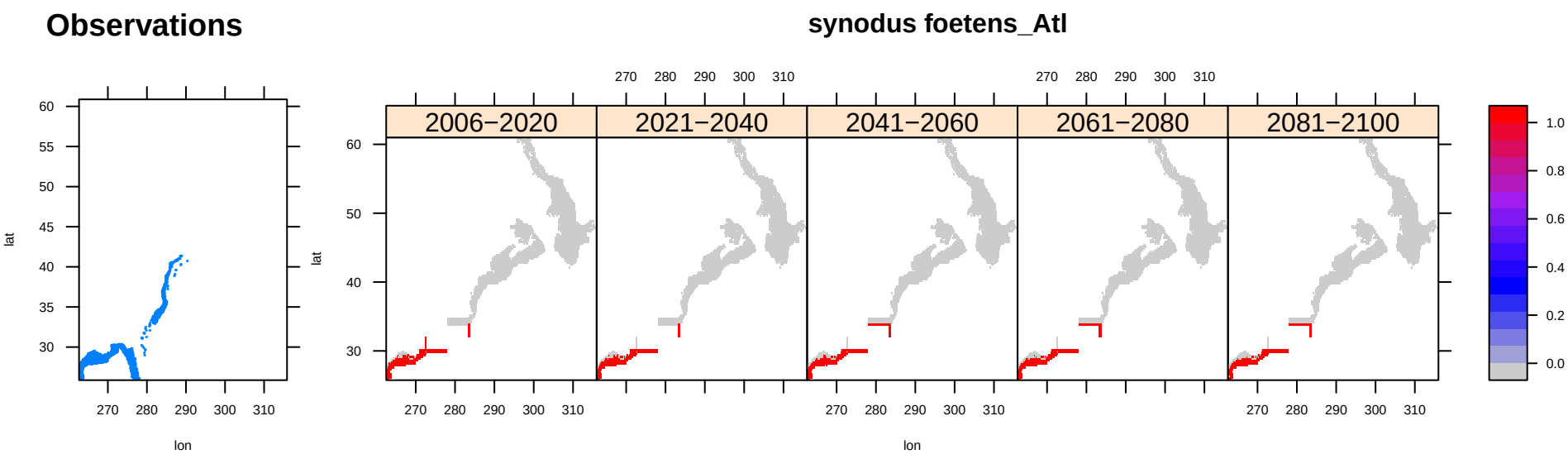
Observations
synodus foetens_Atl
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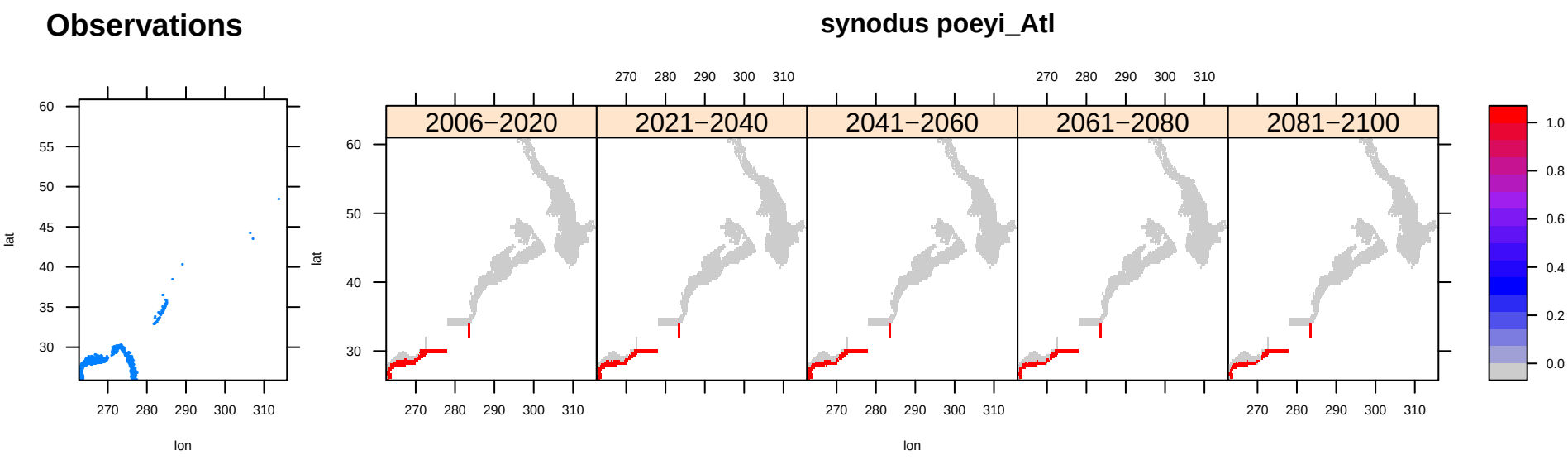
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synodus poeyi_Atl
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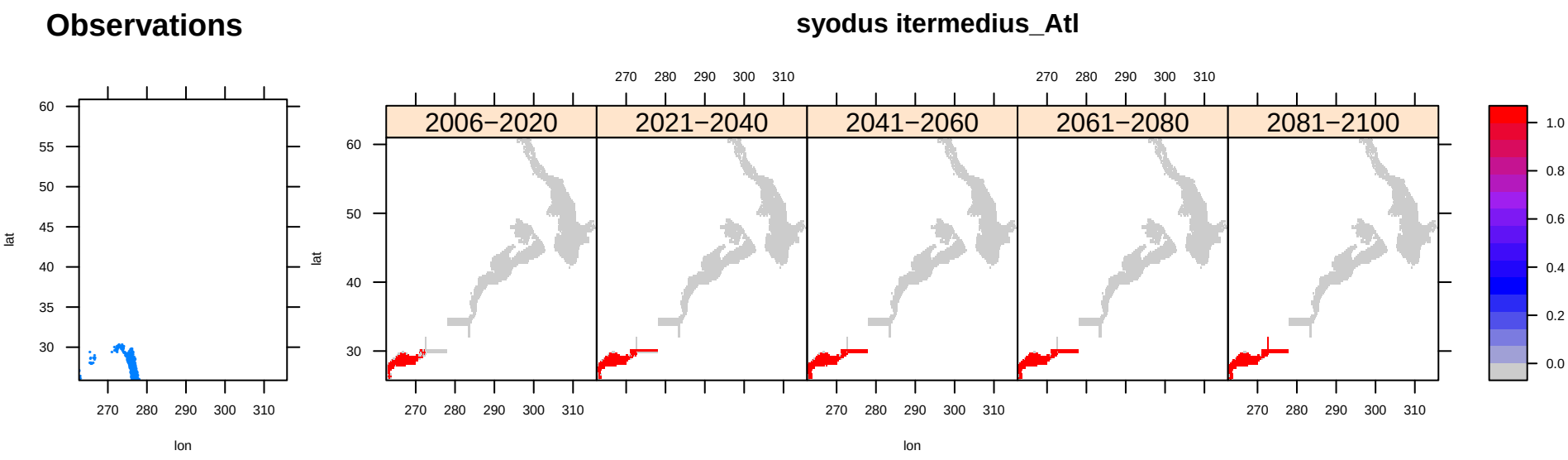
Observations
syodus itermedius_Atl
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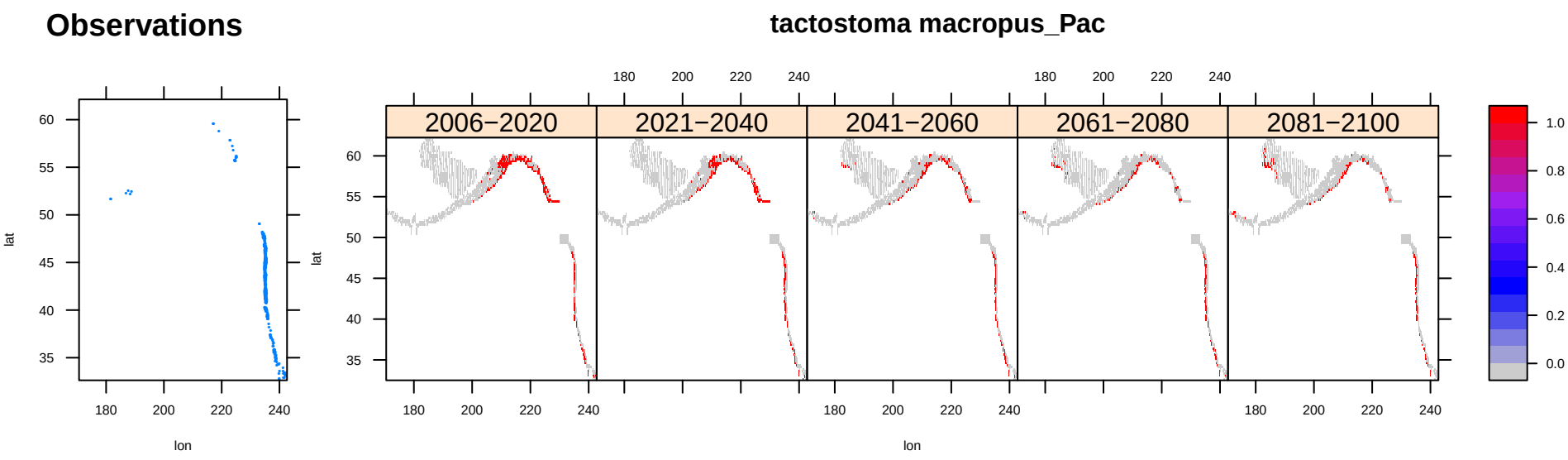
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tactostoma macropus_Pac
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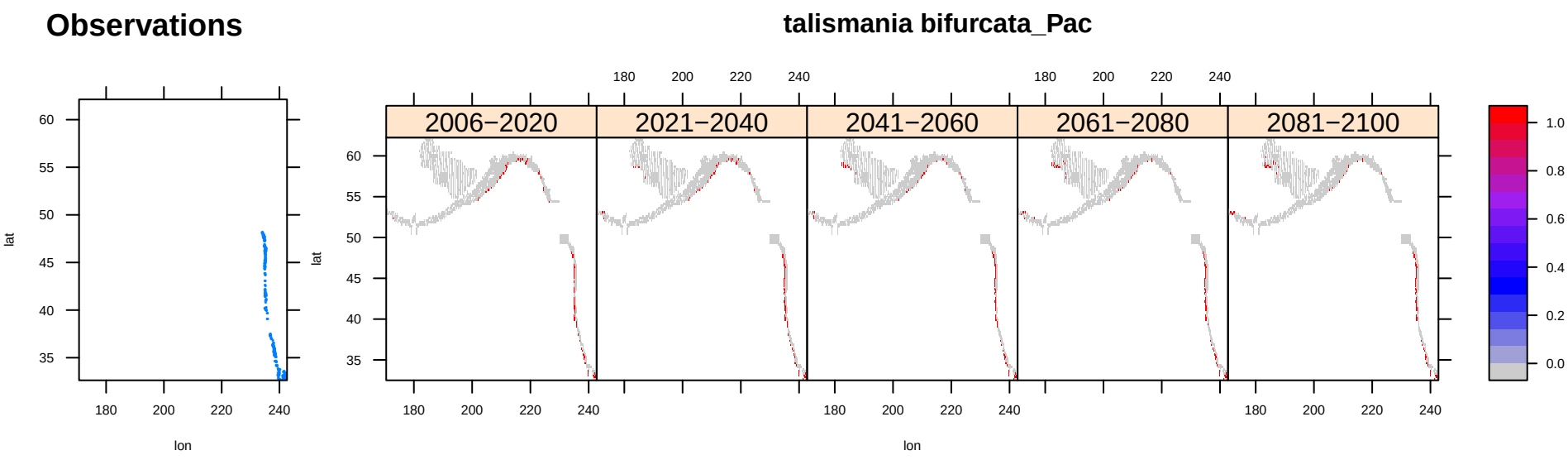
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talismania bifurcata_Pac
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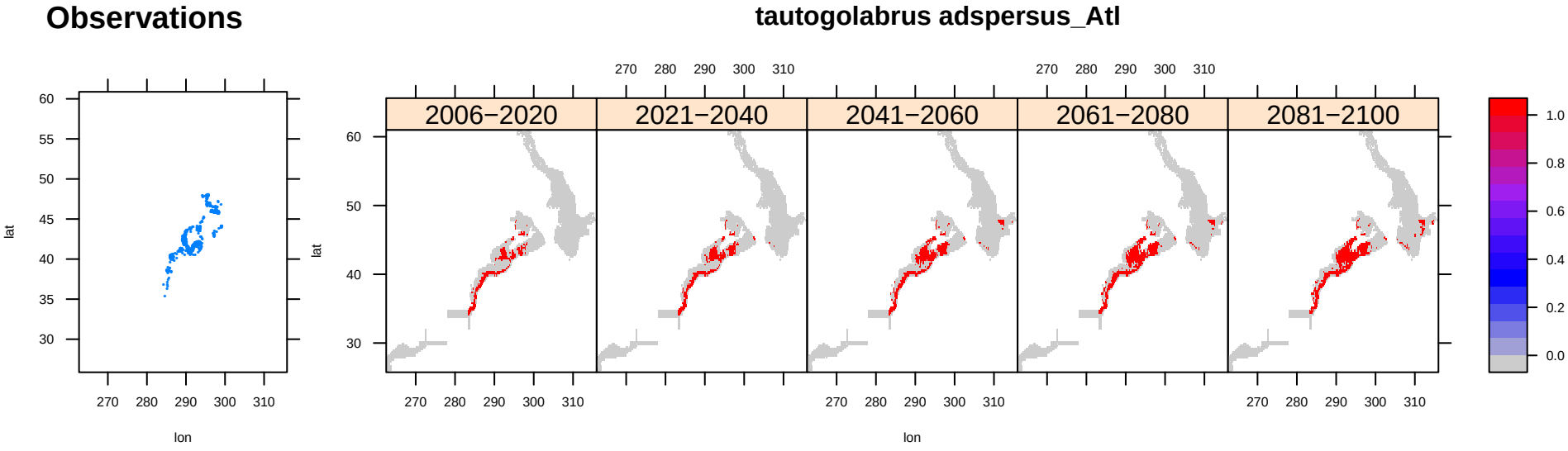
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tautogolabrus adspersus_Atl
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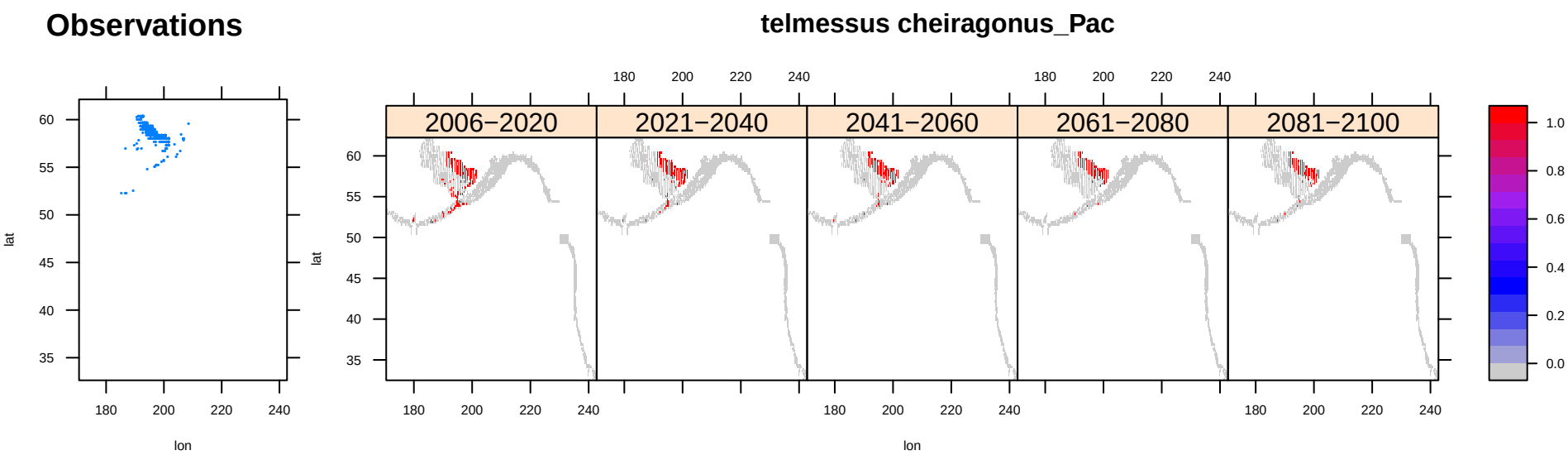
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telmessus cheiragonus_Pac
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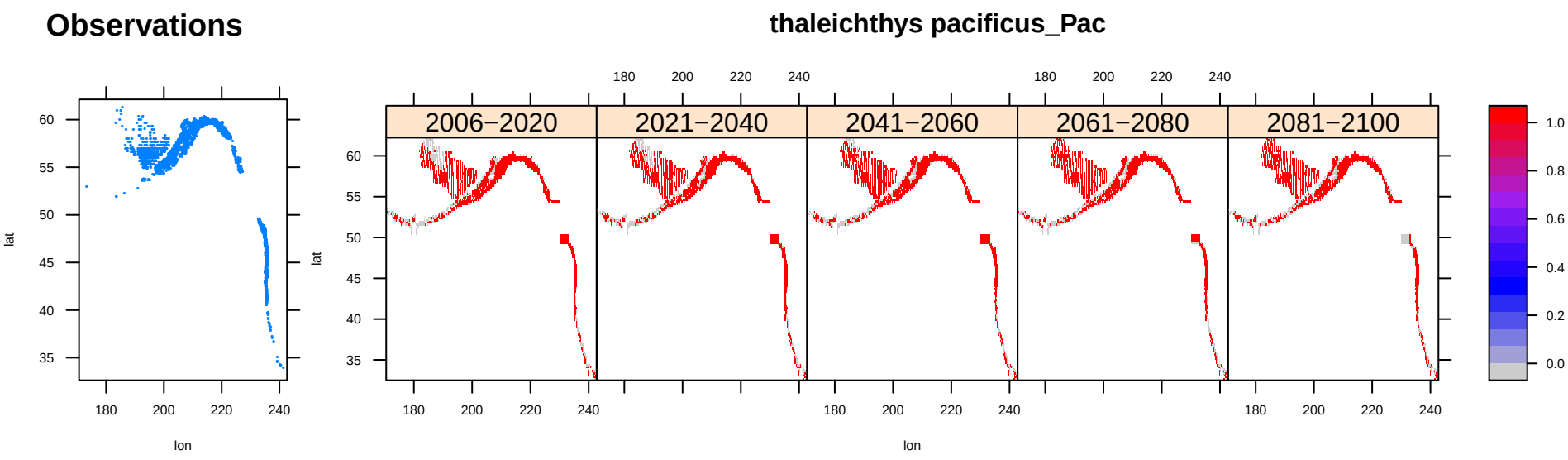
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thaleichthys pacificus_Pac
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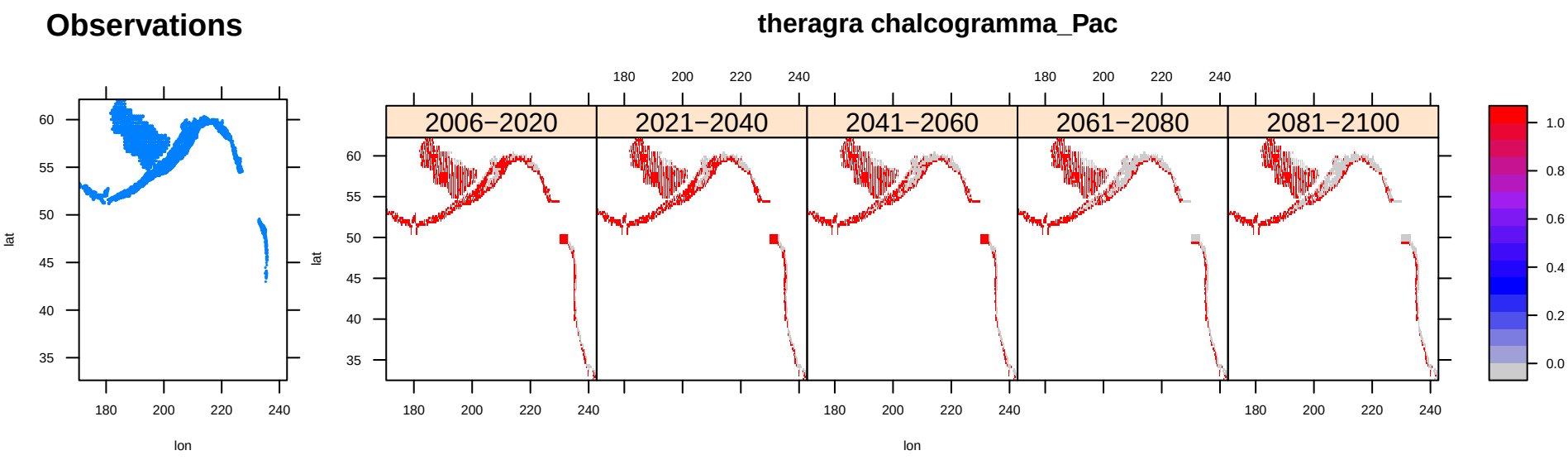
Observations
theragra chalcogramma_Pac
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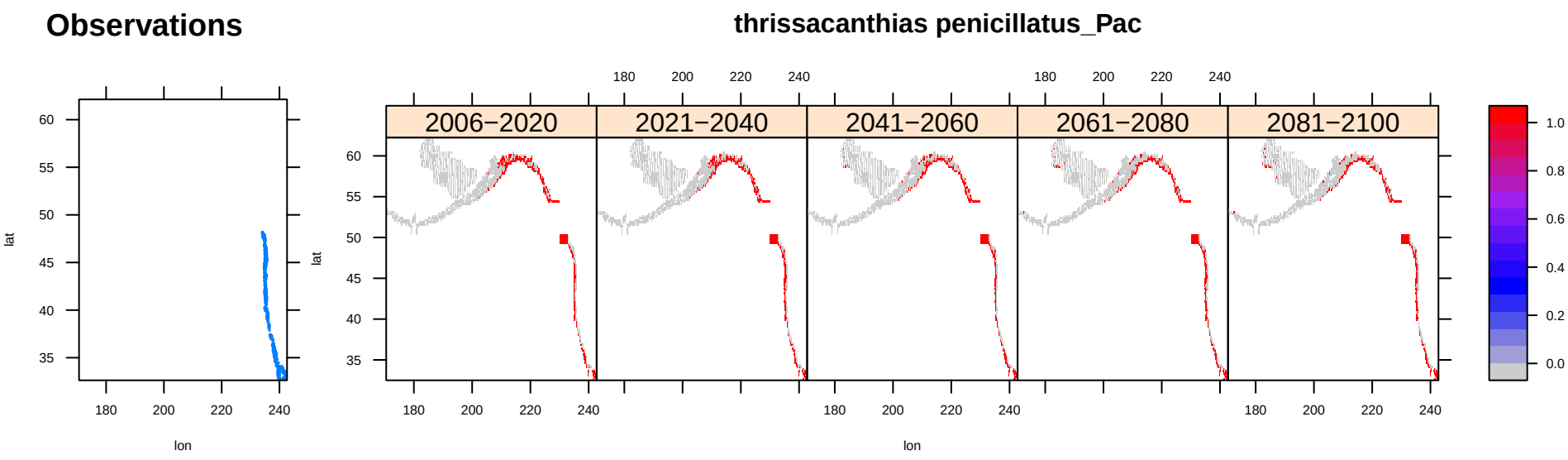
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thrissacanthias penicillatus_Pac
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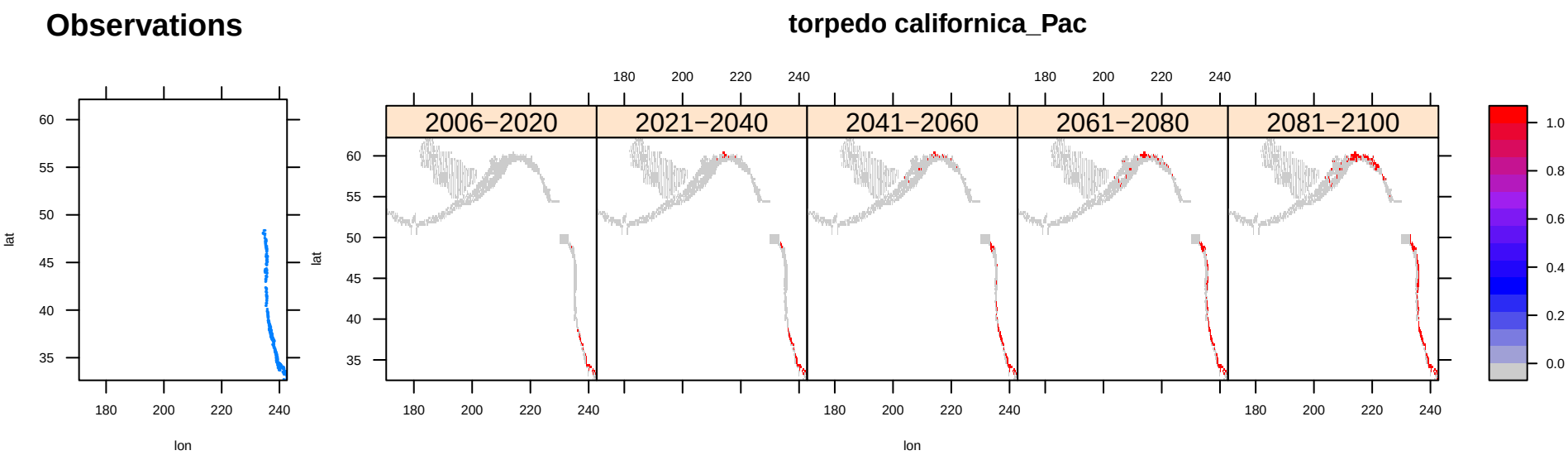
Observations
torpedo californica_Pac
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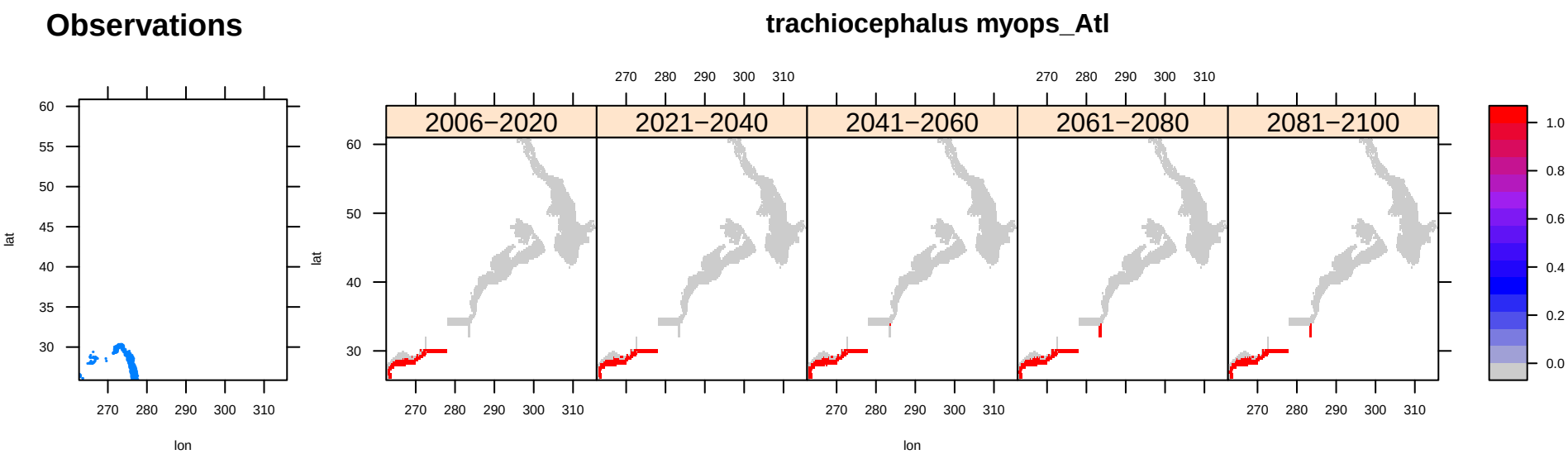
Observations
trachiocephalus myops_Atl
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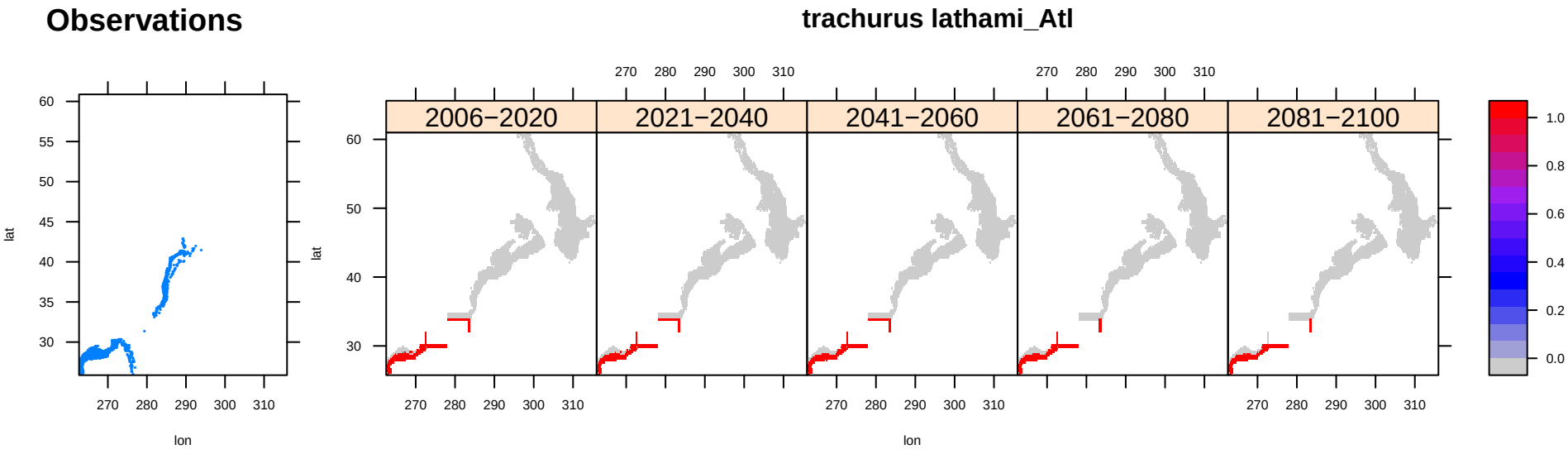
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trachurus lathami_Atl
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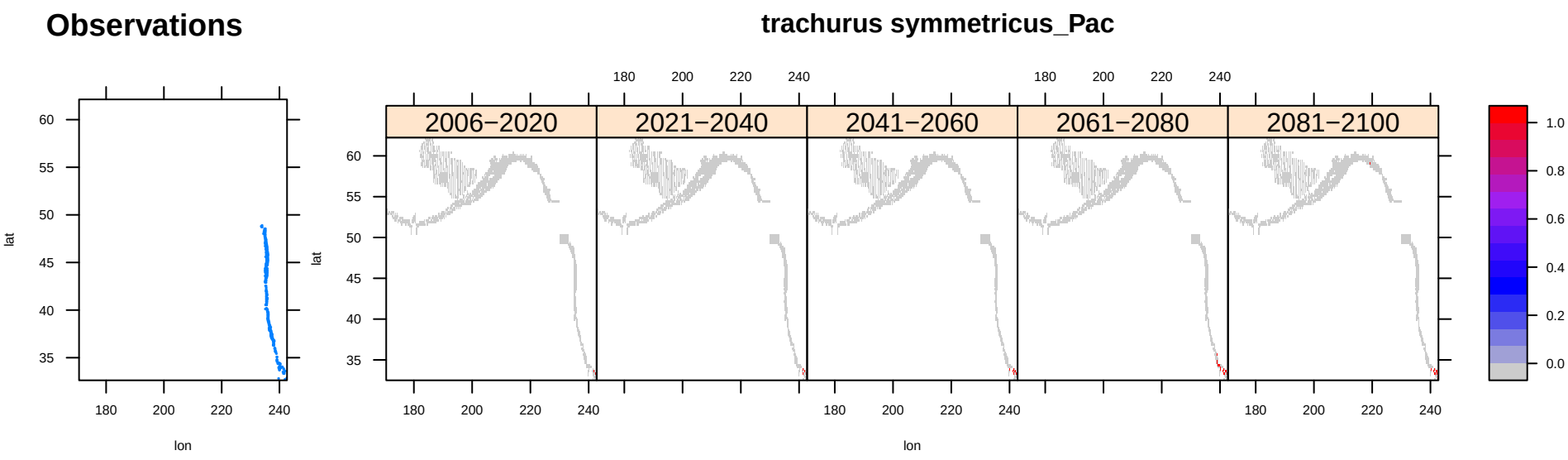
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trachurus symmetricus_Pac
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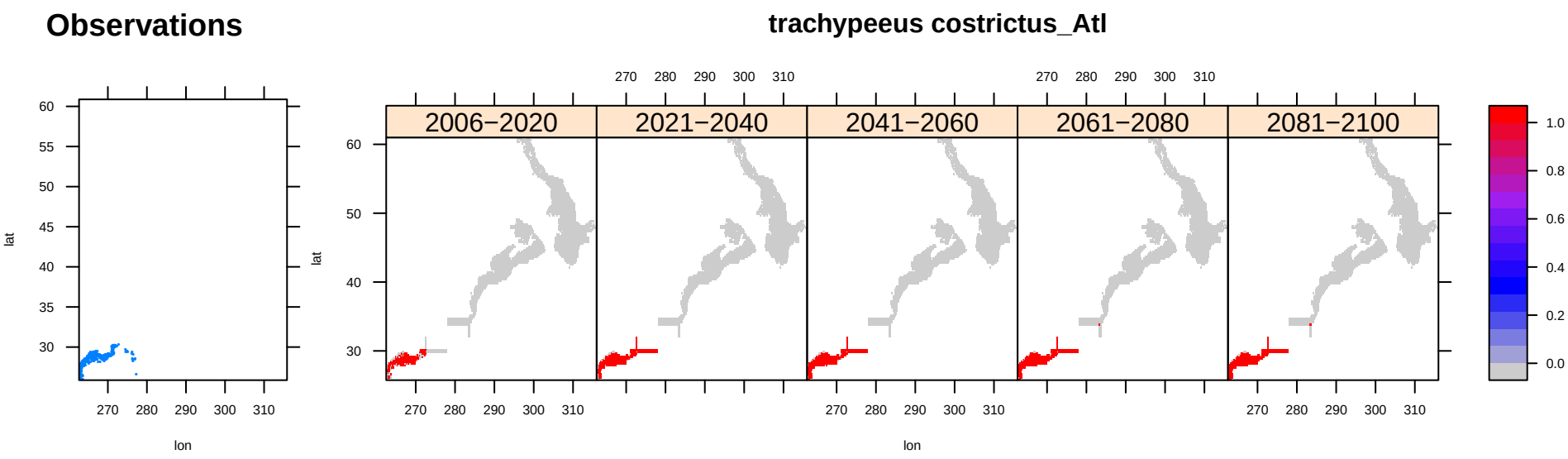
Observations
trachypeeus costrictus_Atl
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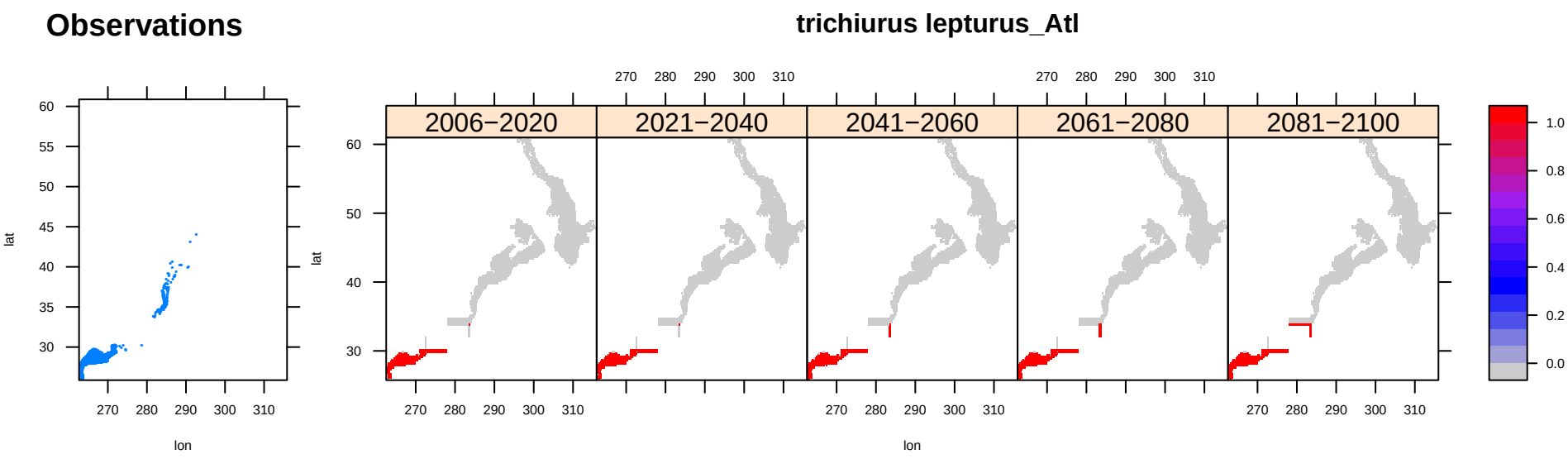
Observations
trichiurus lepturus_Atl
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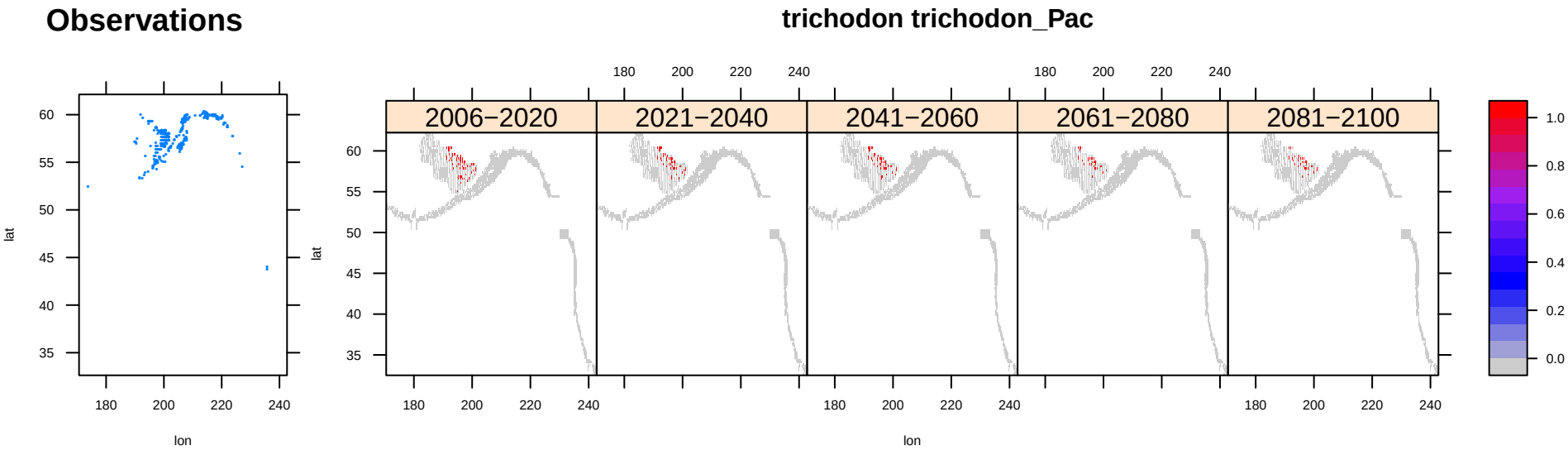
Observations
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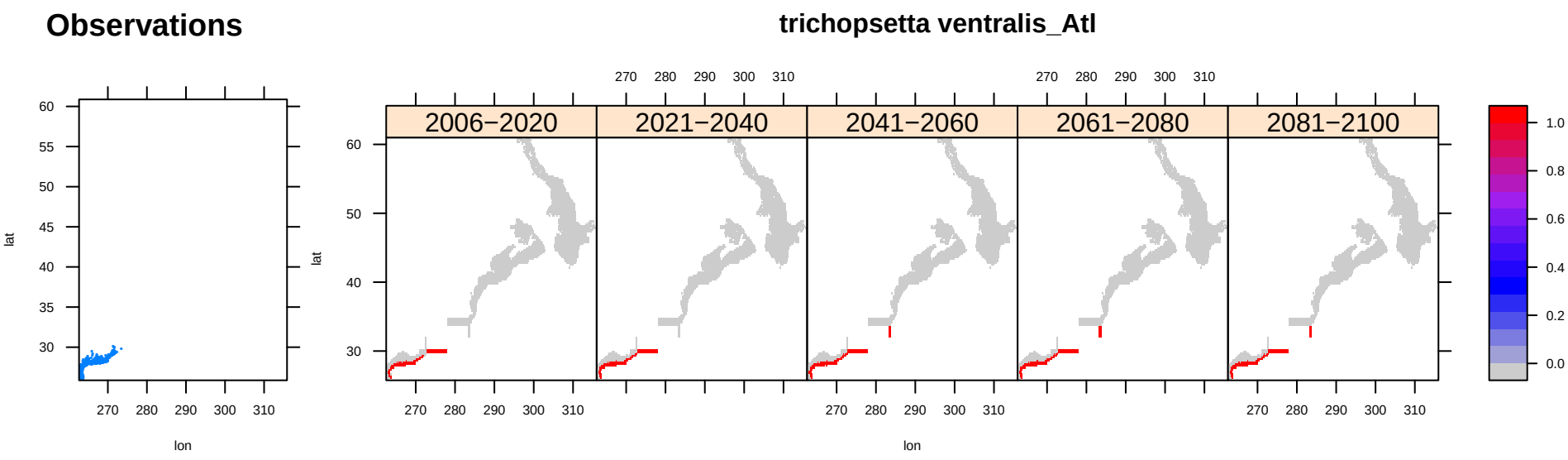
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trichopsetta ventralis_Atl
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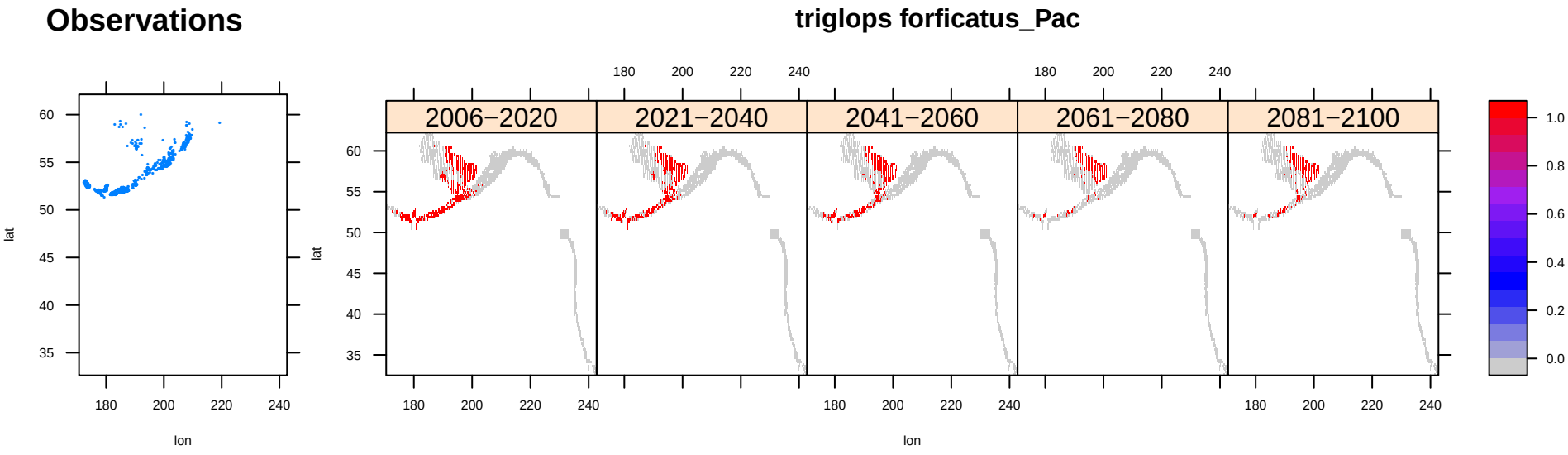
Observations
triglops forficatus_Pac
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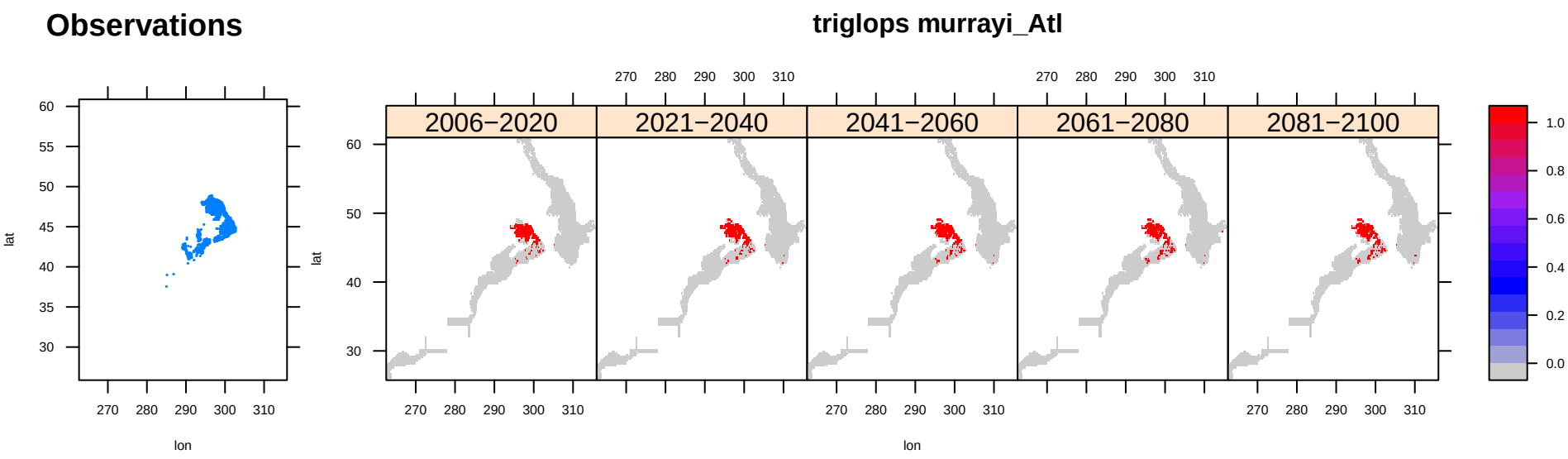
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triglops murrayi_Atl
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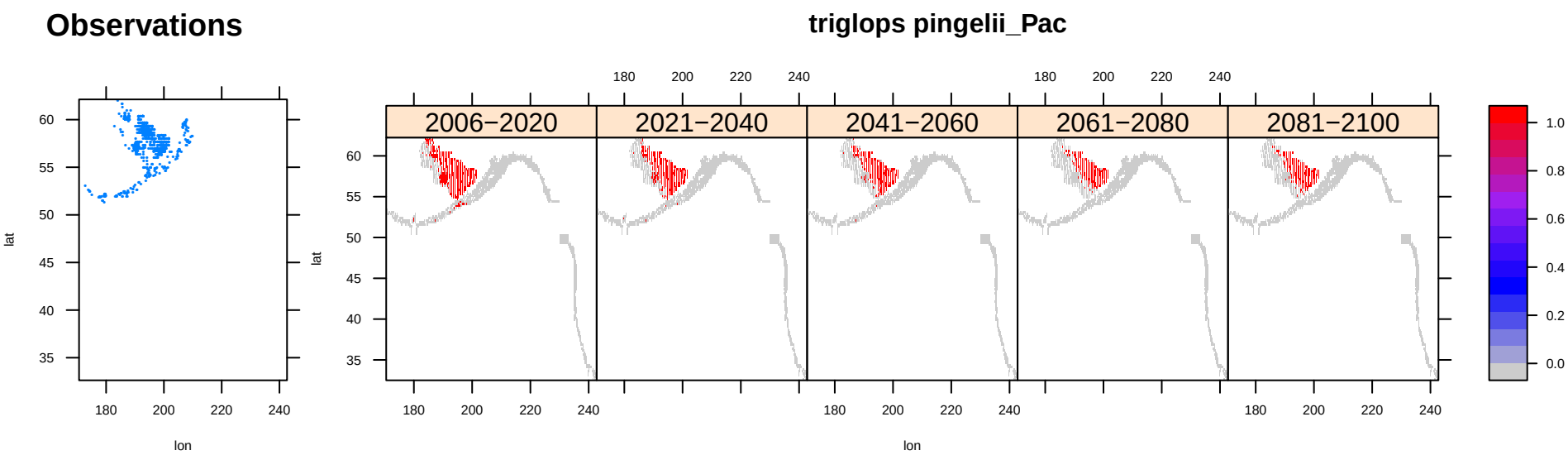
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triglops pingelii_Pac
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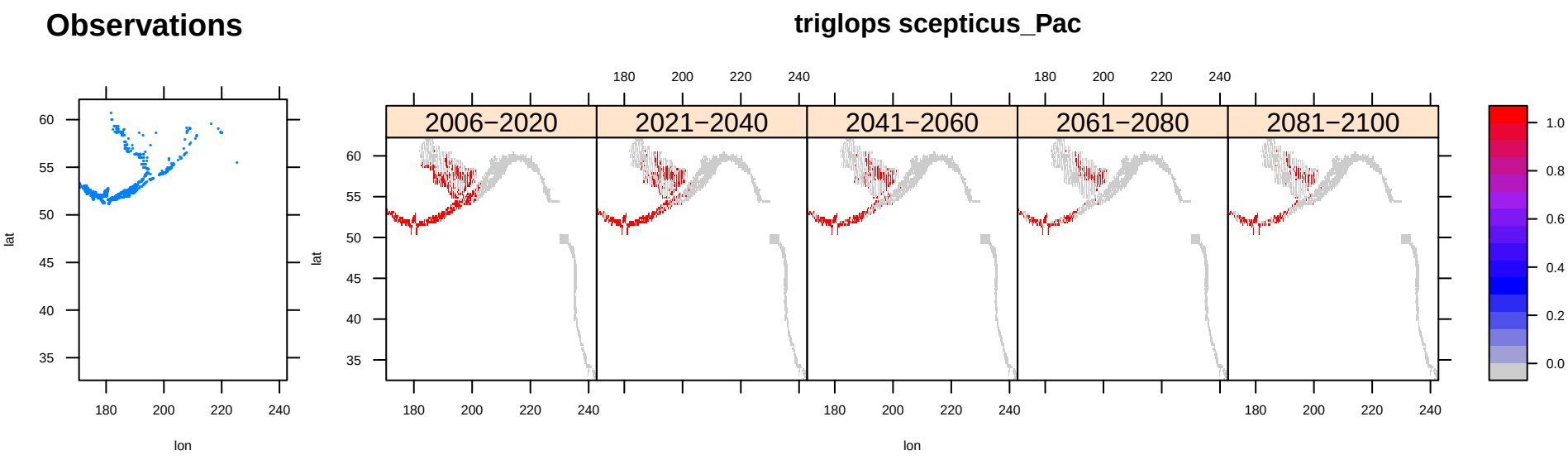
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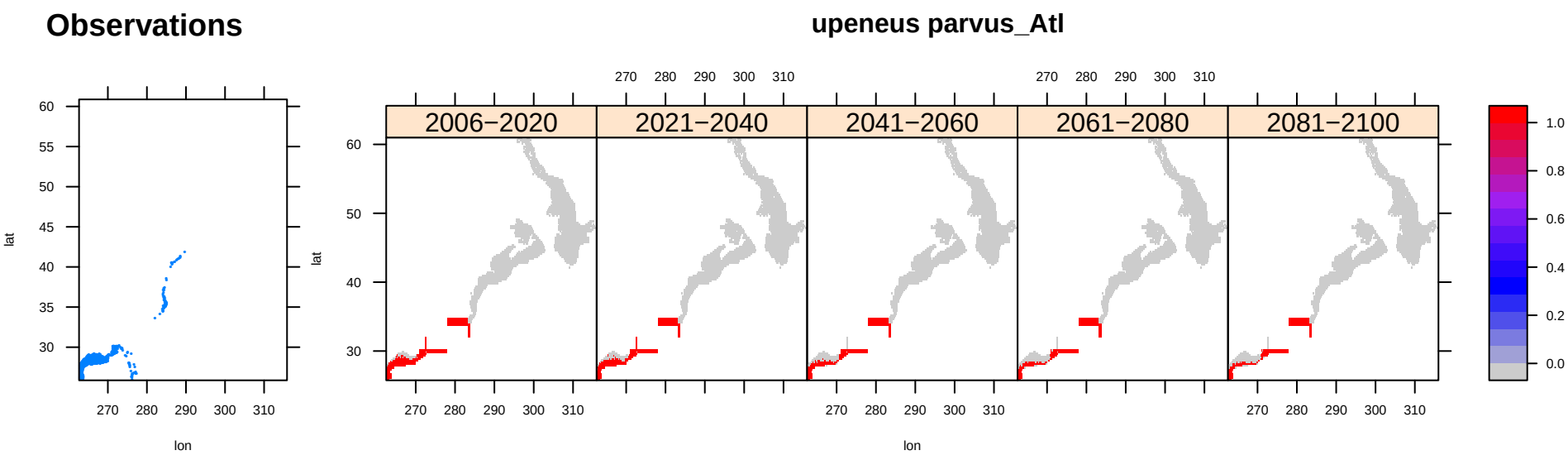
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upeneus parvus_Atl
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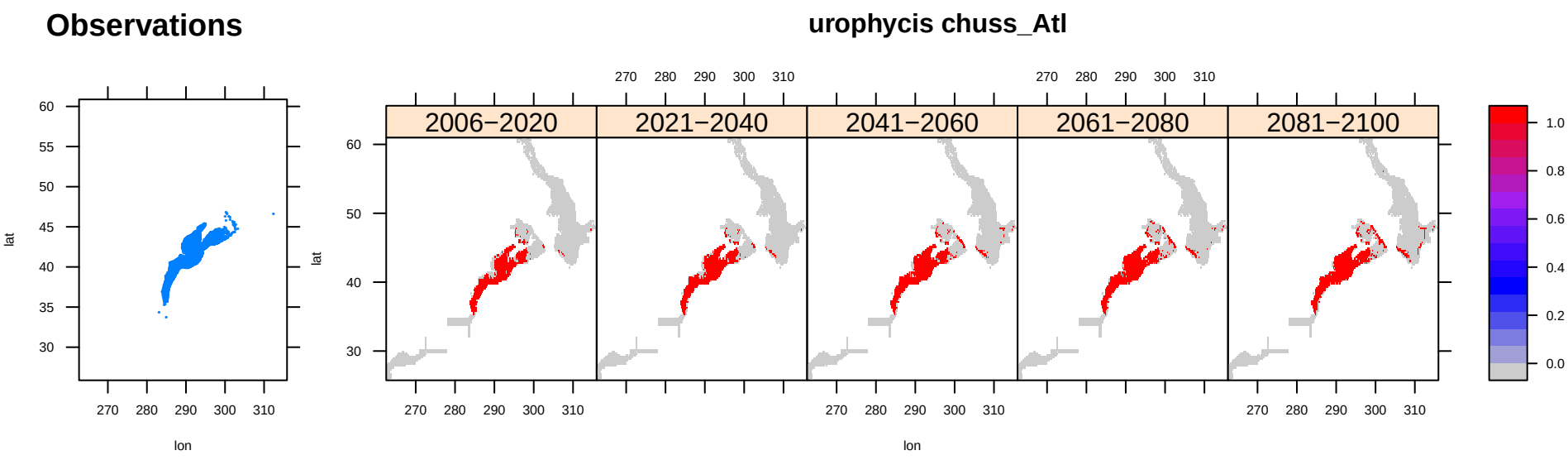
Observations
urophycis chuss_Atl
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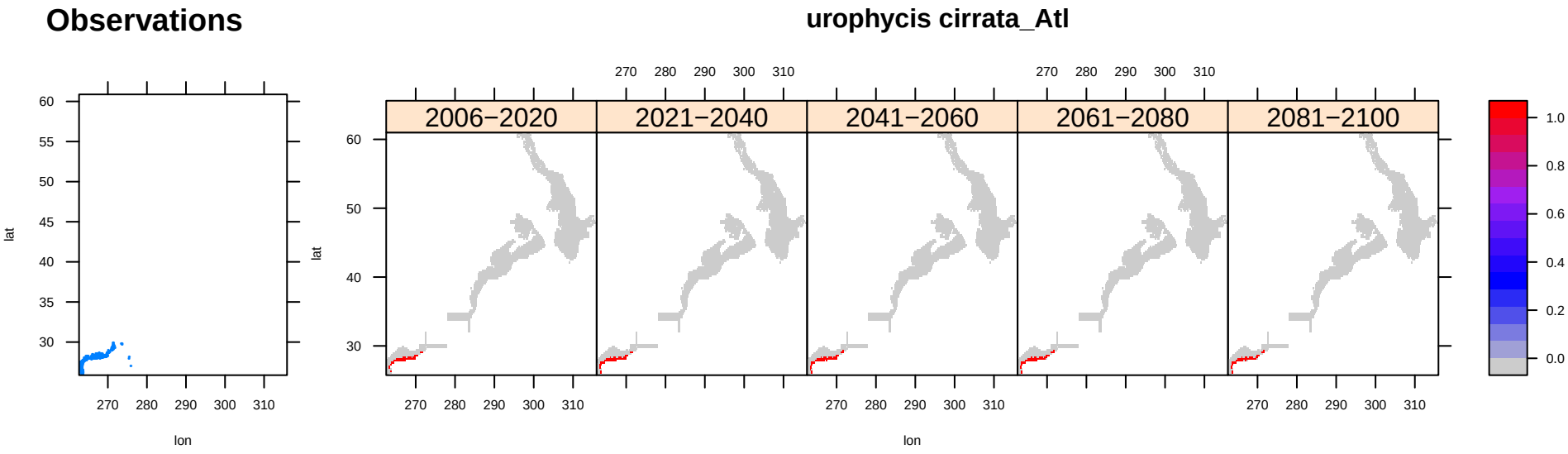
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urophycis cirrata_Atl
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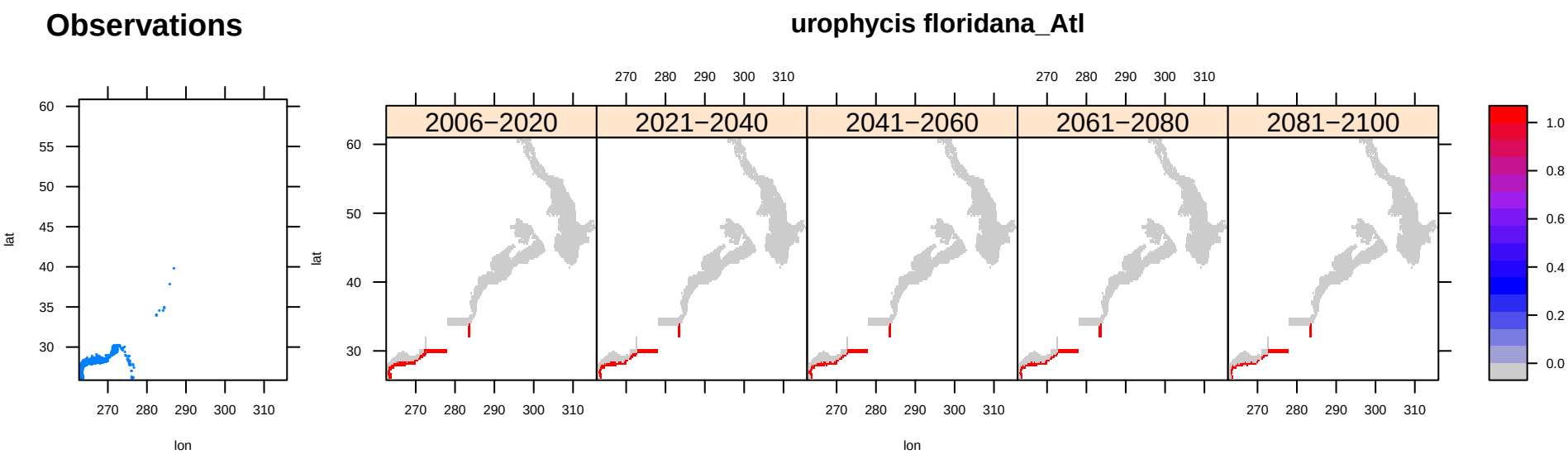
Observations
urophycis floridana_Atl
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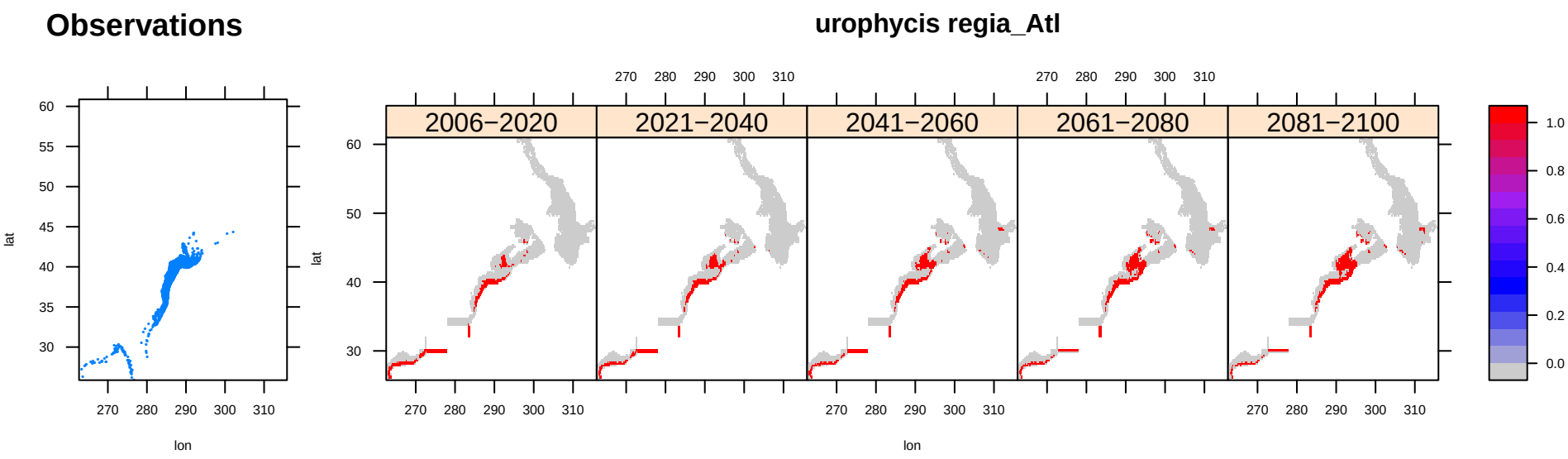
Observations
urophycis regia_Atl
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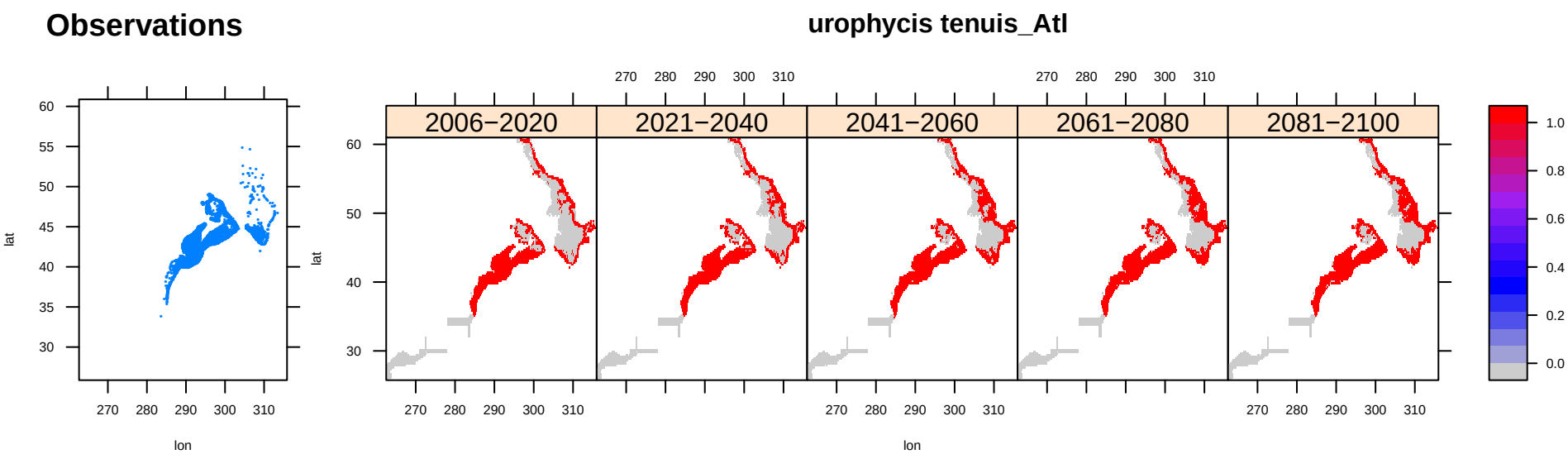
Observations
urophycis tenuis_Atl
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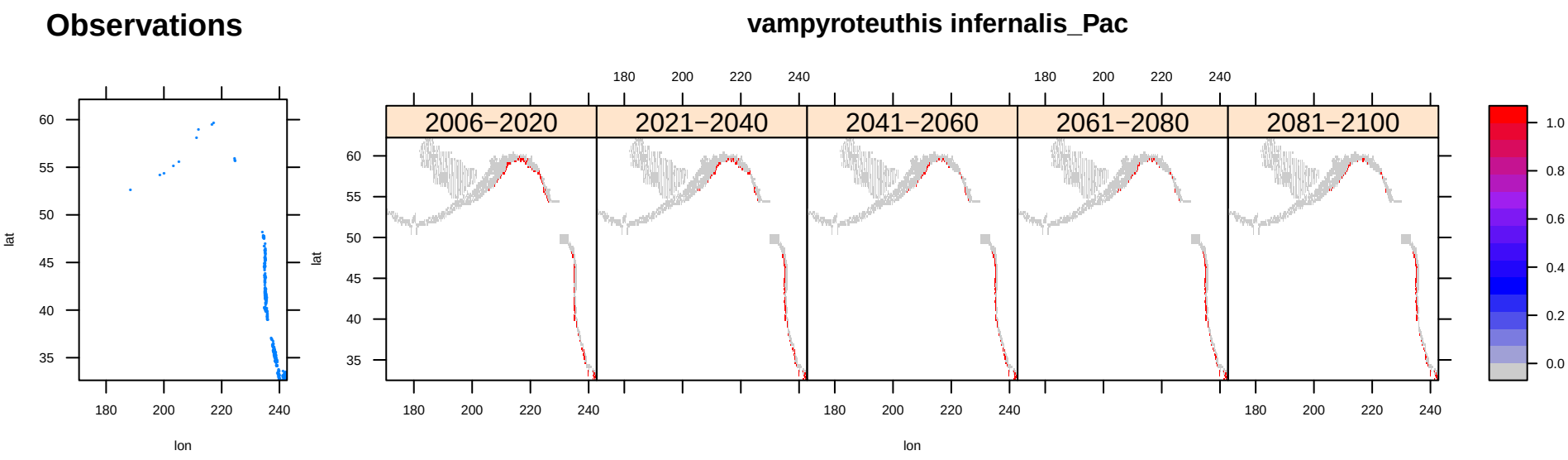
Observations
vampyroteuthis infernalis_Pac
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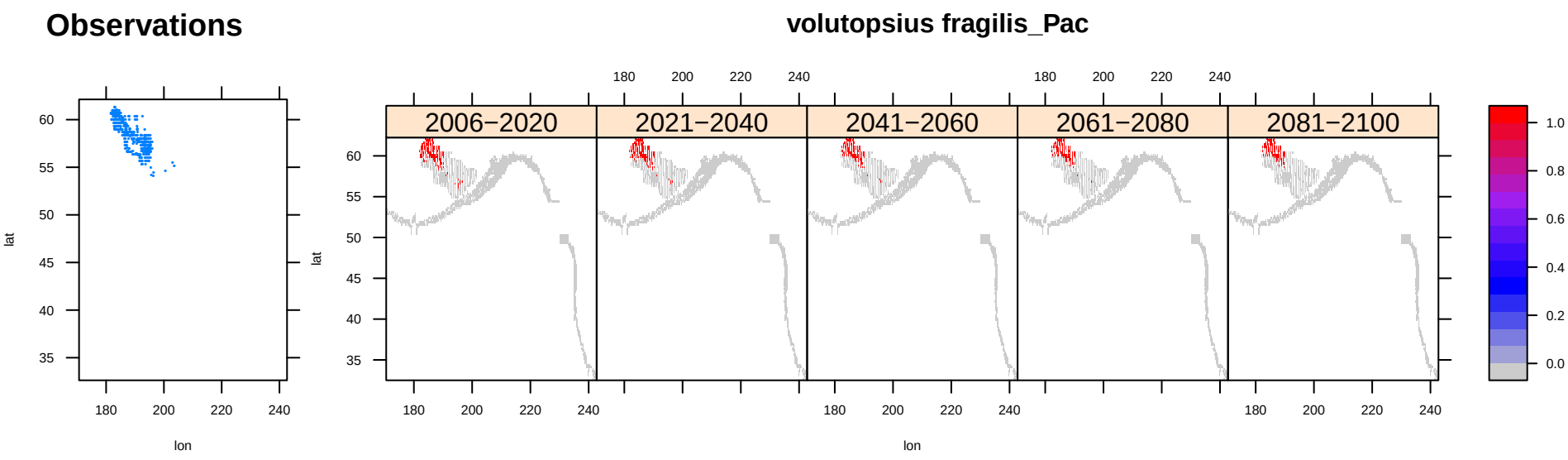
Observations
volutopsius fragilis_Pac
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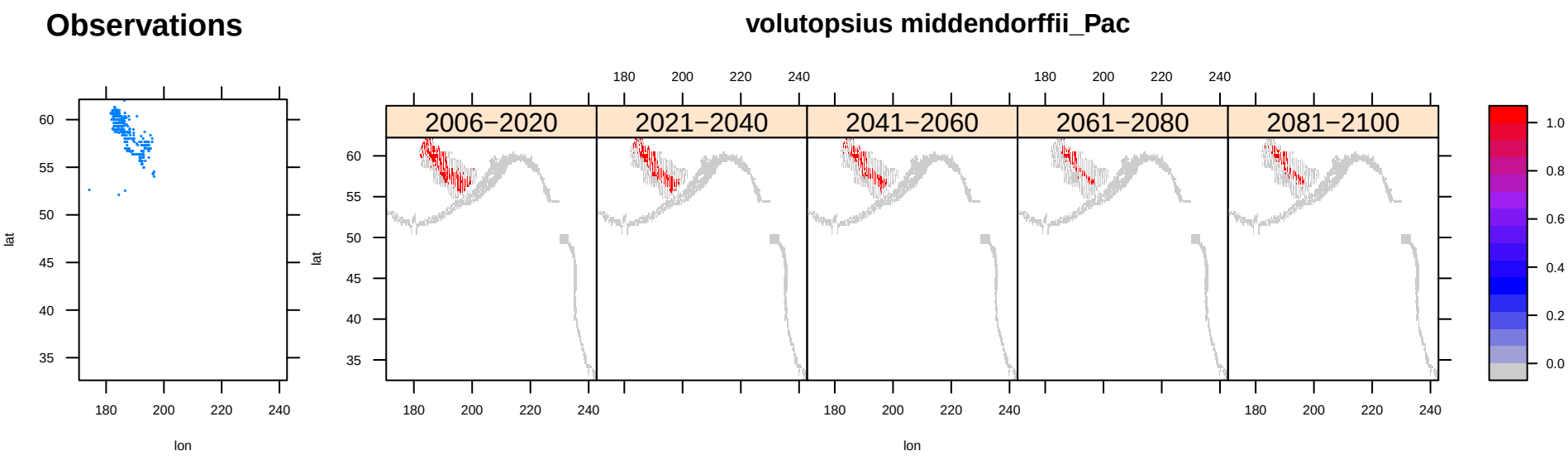
Observations
volutopsius middendorffii_Pac
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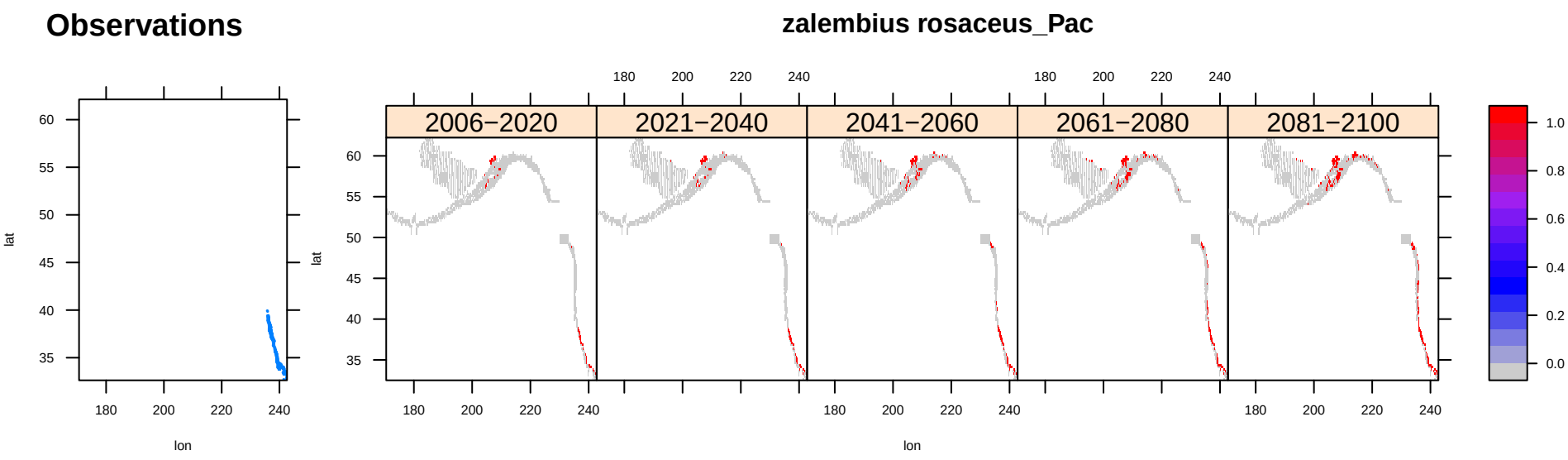
Observations
zalembius rosaceus_Pac
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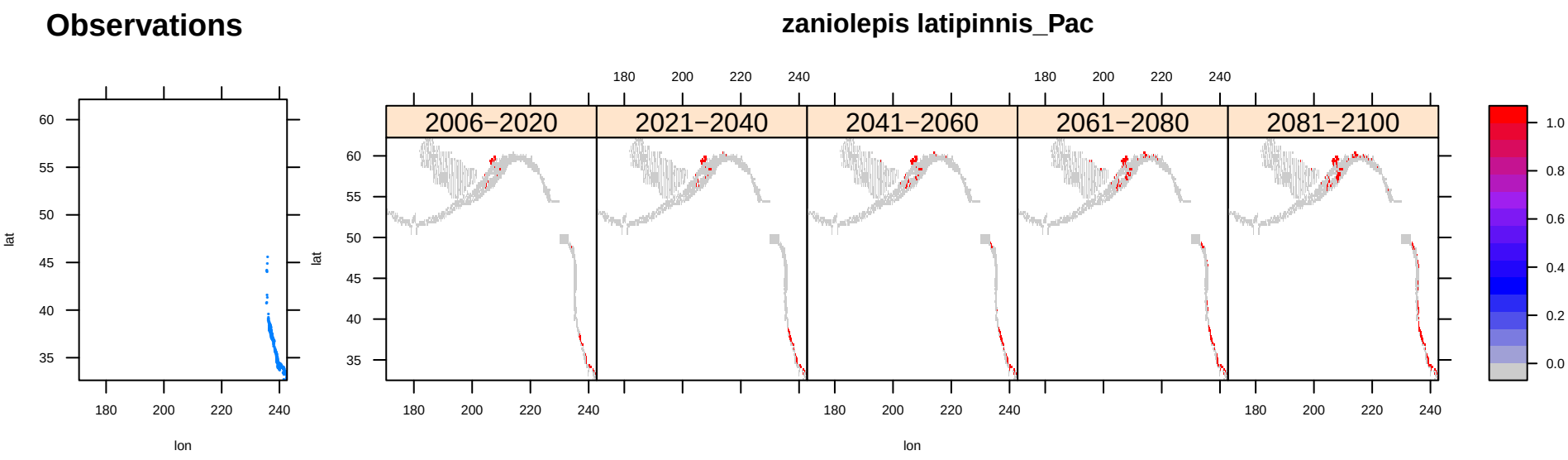
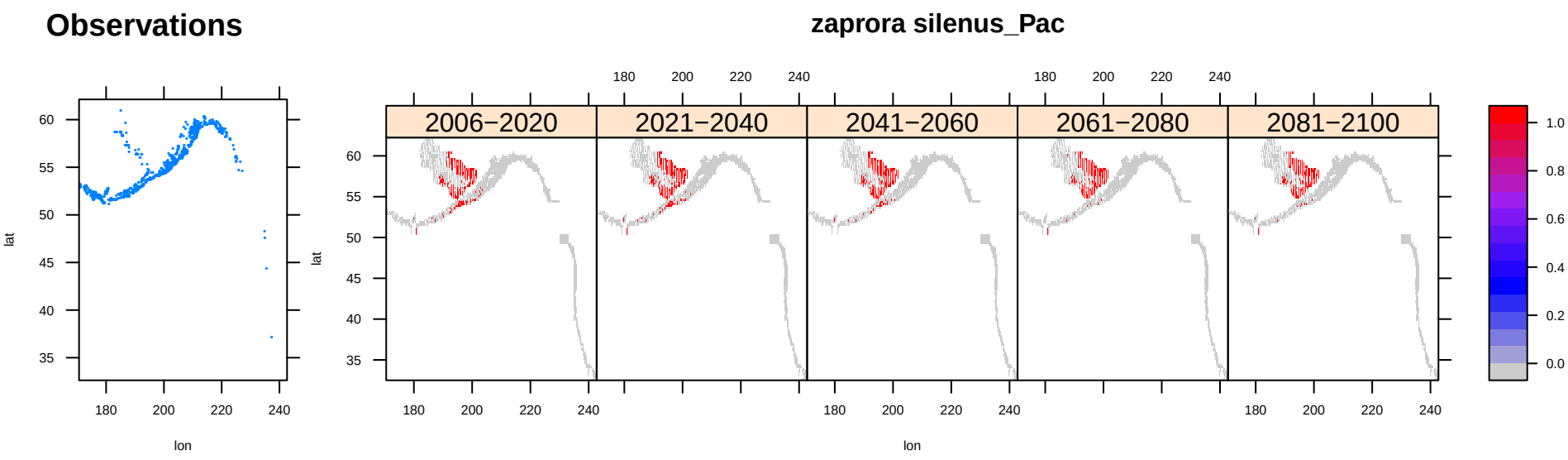
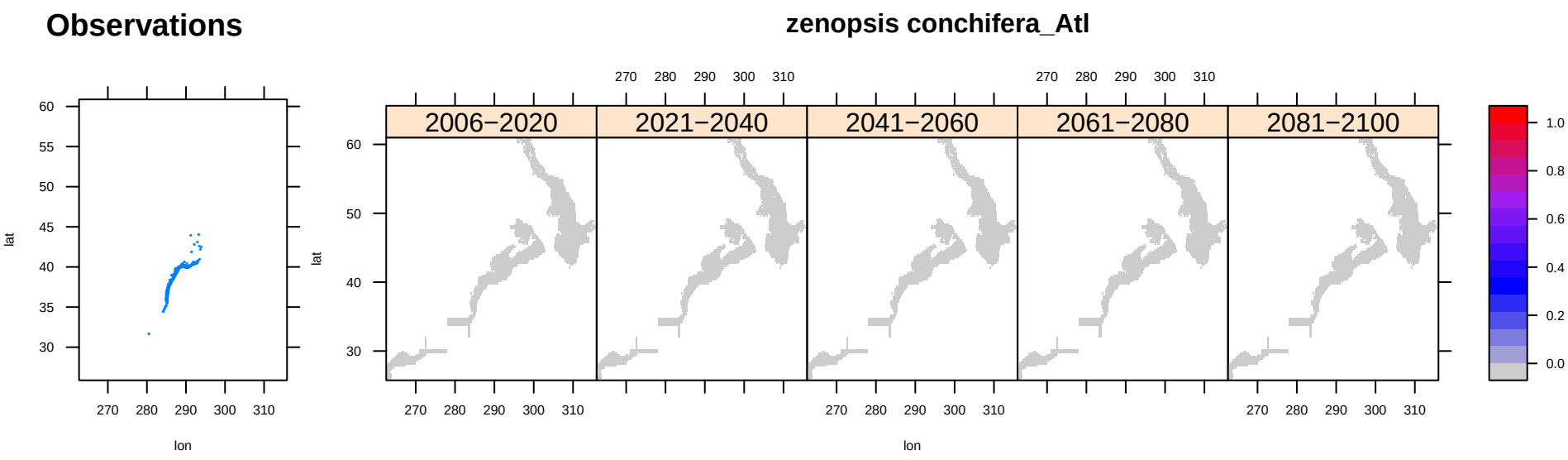
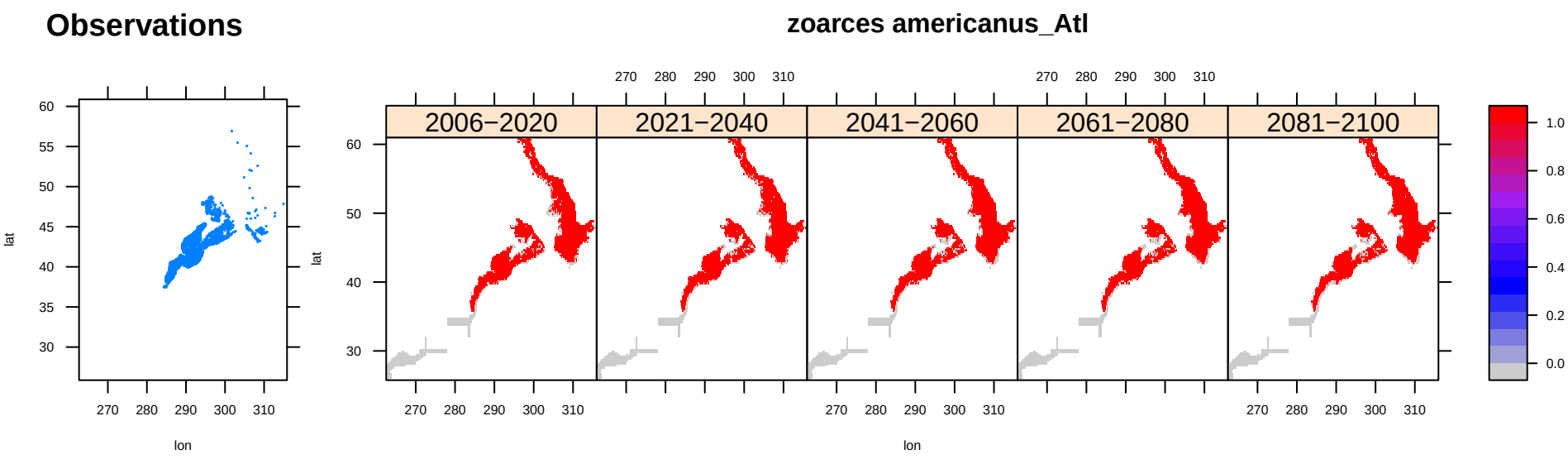

Observations
zaniolepis latipinnis_Pac
2006−2020
2021−2040
2041−2060
2061−2080
2081−2100
lat
lon
60
55
50
45
40
35
180
200
220
240
1.0
0.8
0.6
0.4
0.2
0.0


Observations
zaprora silenus_Pac
2006−2020
2021−2040
2041−2060
2061−2080
2081−2100
lat
lon
60
55
50
45
40
35
180
200
220
240
1.0
0.8
0.6
0.4
0.2
0.0


Observations
zenopsis conchifera_Atl
2006−2020
2021−2040
2041−2060
2061−2080
2081−2100
lat
lon
60
55
50
45
40
35
30
270
280
290
300
310
1.0
0.8
0.6
0.4
0.2
0.0


Observations
zoarces americanus_Atl
2006−2020
2021−2040
2041−2060
2061−2080
2081−2100
lat
lon
60
55
50
45
40
35
30
270
280
290
300
310
1.0
0.8
0.6
0.4
0.2
0.0