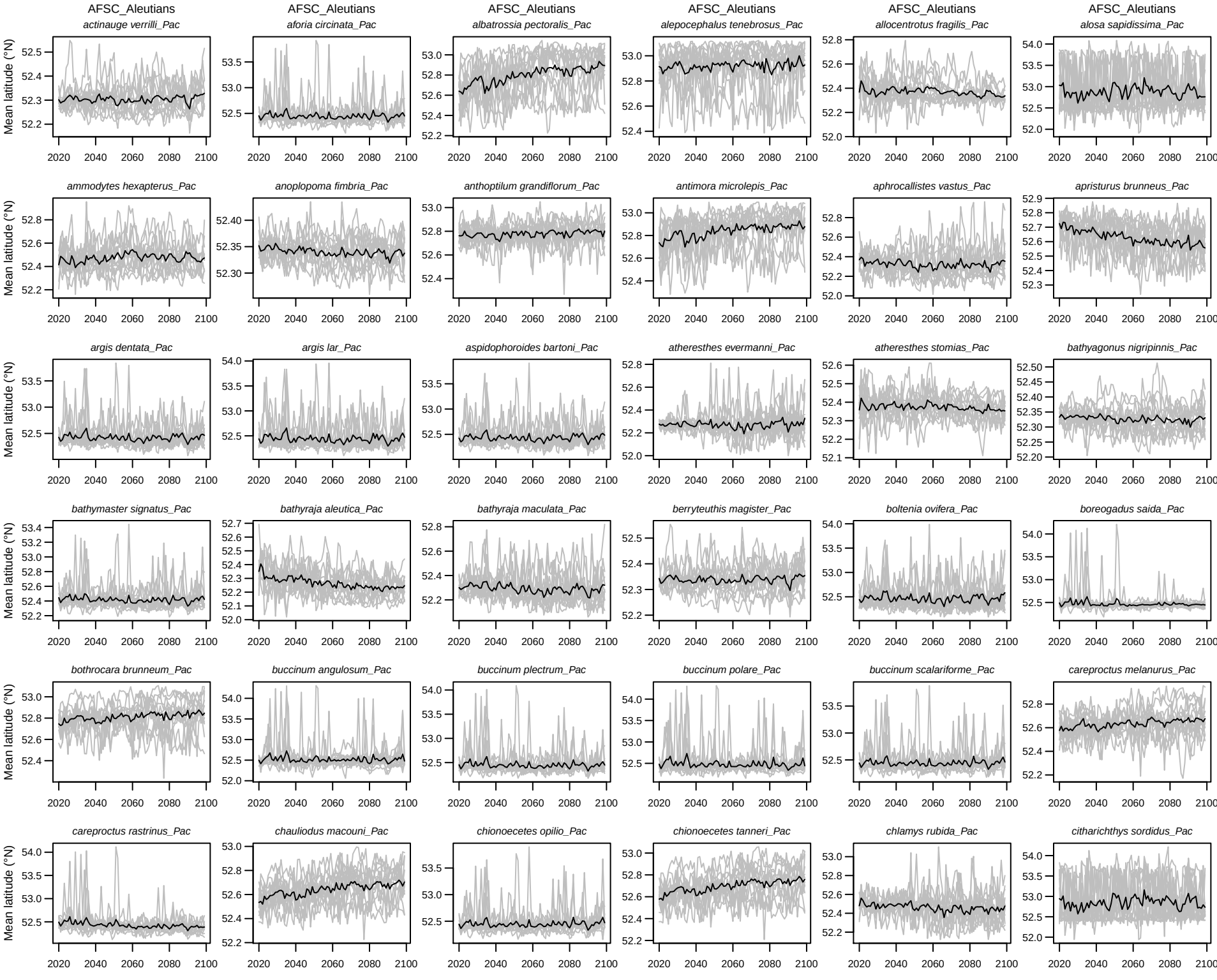
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bathyraja aleutica_Pac
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berryteuthis magister_Pac
boltenia ovifera_Pac
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Mean latitude (°N)
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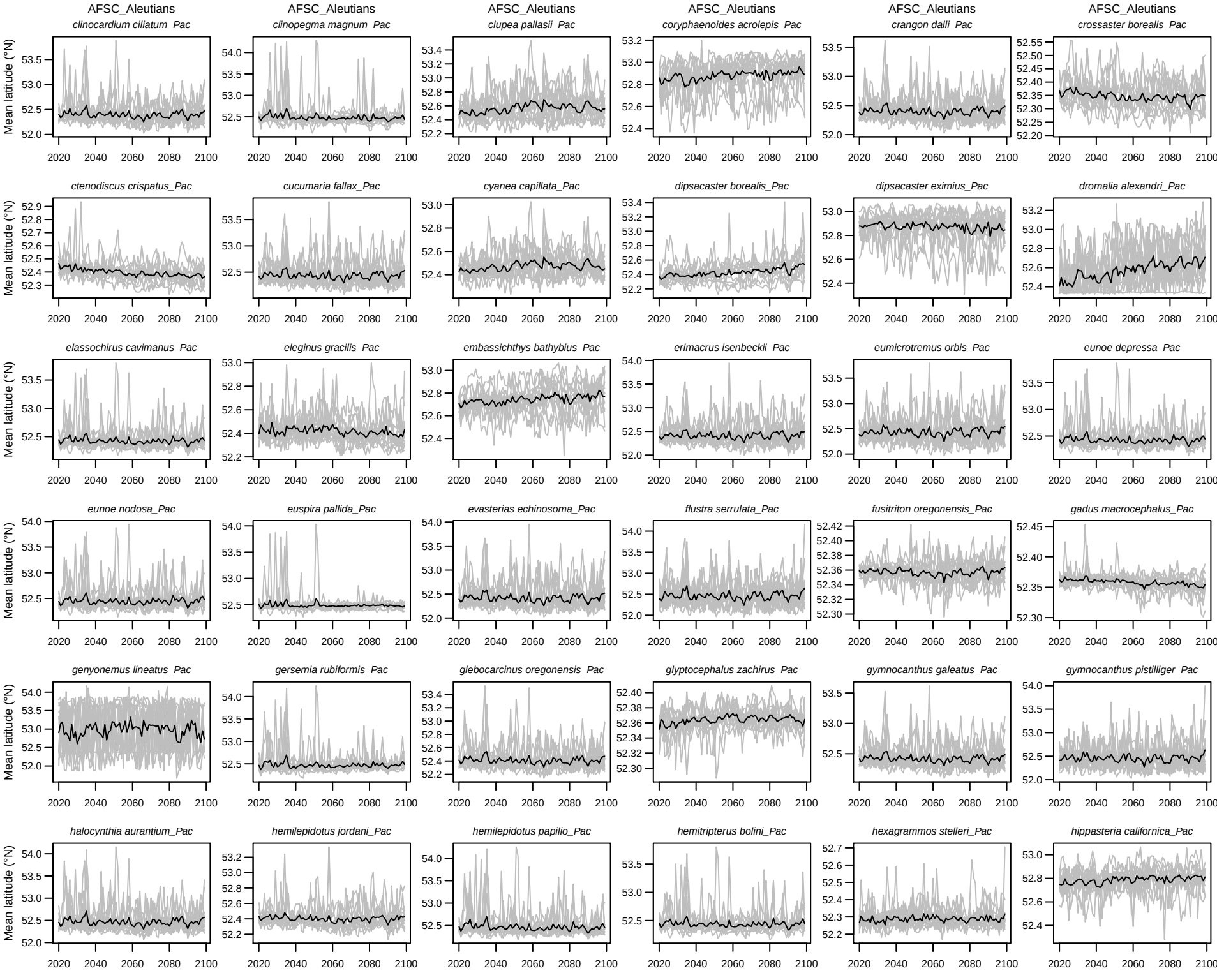
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hemilepidotus jordani_Pac
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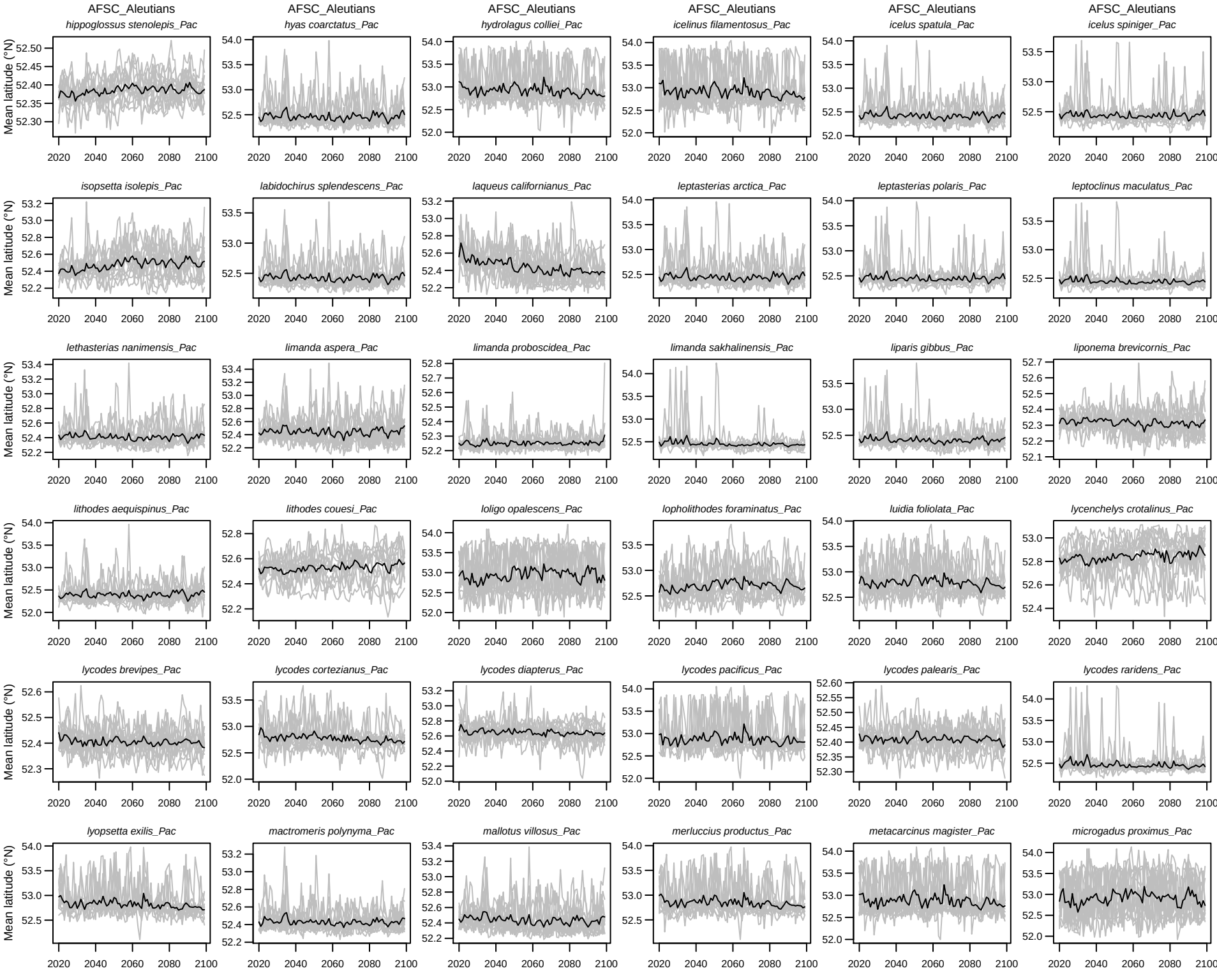
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laqueus californianus_Pac
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leptasterias polaris_Pac
leptoclinus maculatus_Pac
lethasterias nanimensis_Pac
limanda aspera_Pac
limanda proboscidea_Pac
limanda sakhalinensis_Pac
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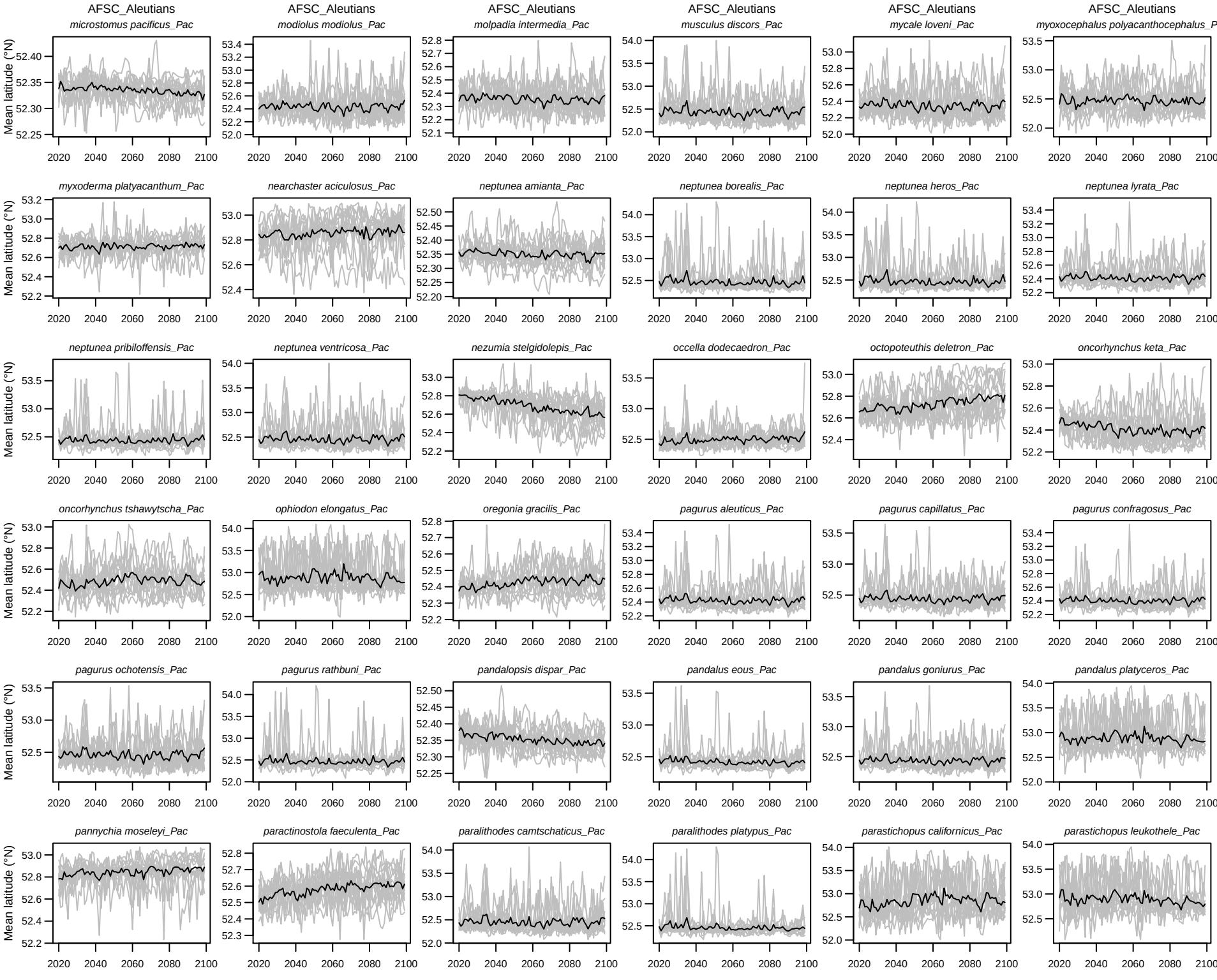
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neptunea ventricosa_Pac
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oncorhynchus keta_Pac
oncorhynchus tshawytscha_Pac
ophiodon elongatus_Pac
oregonia gracilis_Pac
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pagurus capillatus_Pac
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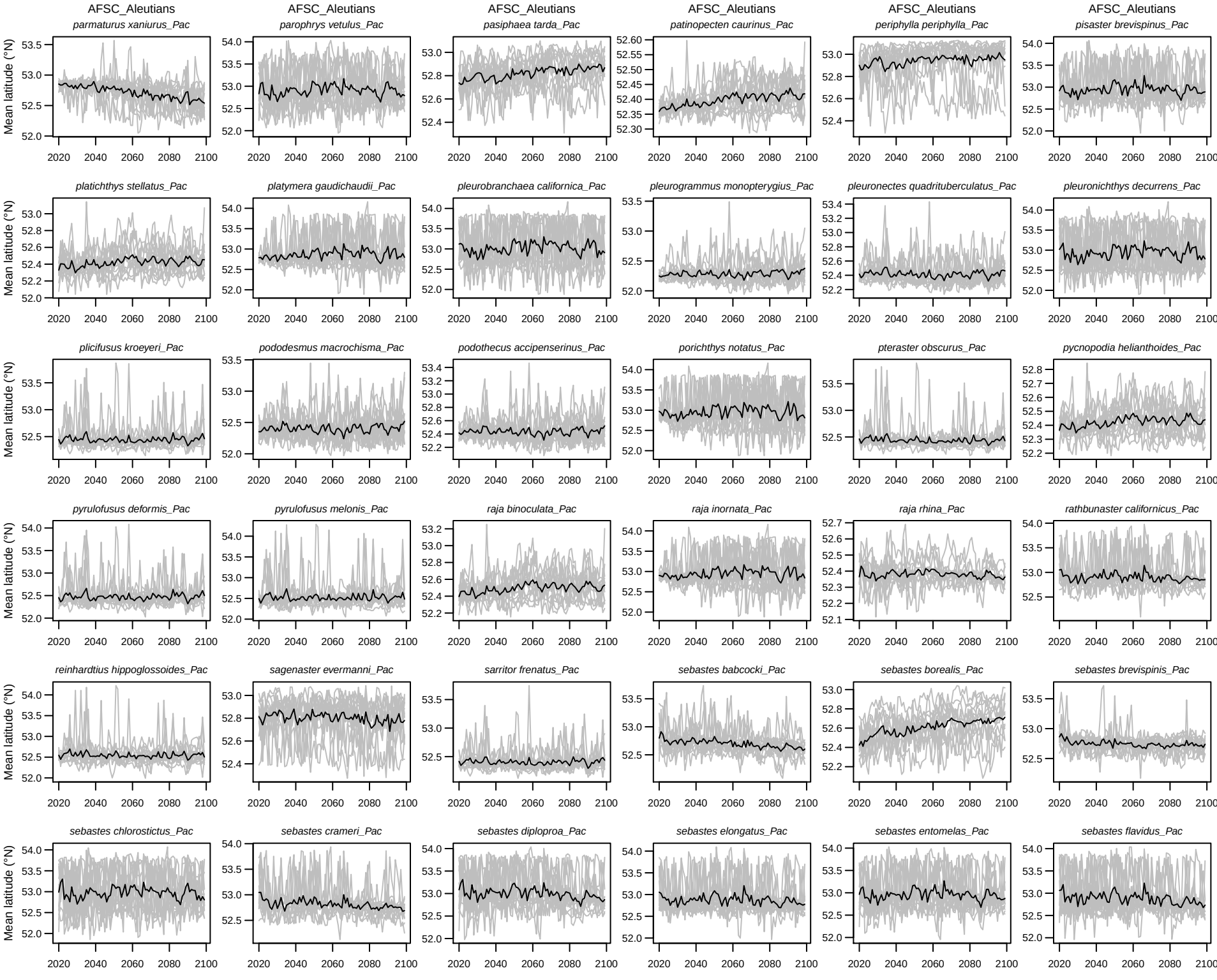
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platymera gaudichaudii_Pac
pleurobranchaea californica_Pac
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pleuronichthys decurrens_Pac
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pododesmus macrochisma_Pac
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porichthys notatus_Pac
pteraster obscurus_Pac
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raja inornata_Pac
raja rhina_Pac
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reinhardtius hippoglossoides_Pac
sagenaster evermanni_Pac
sarritor frenatus_Pac
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sebastes brevispinis_Pac
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sebastes crameri_Pac
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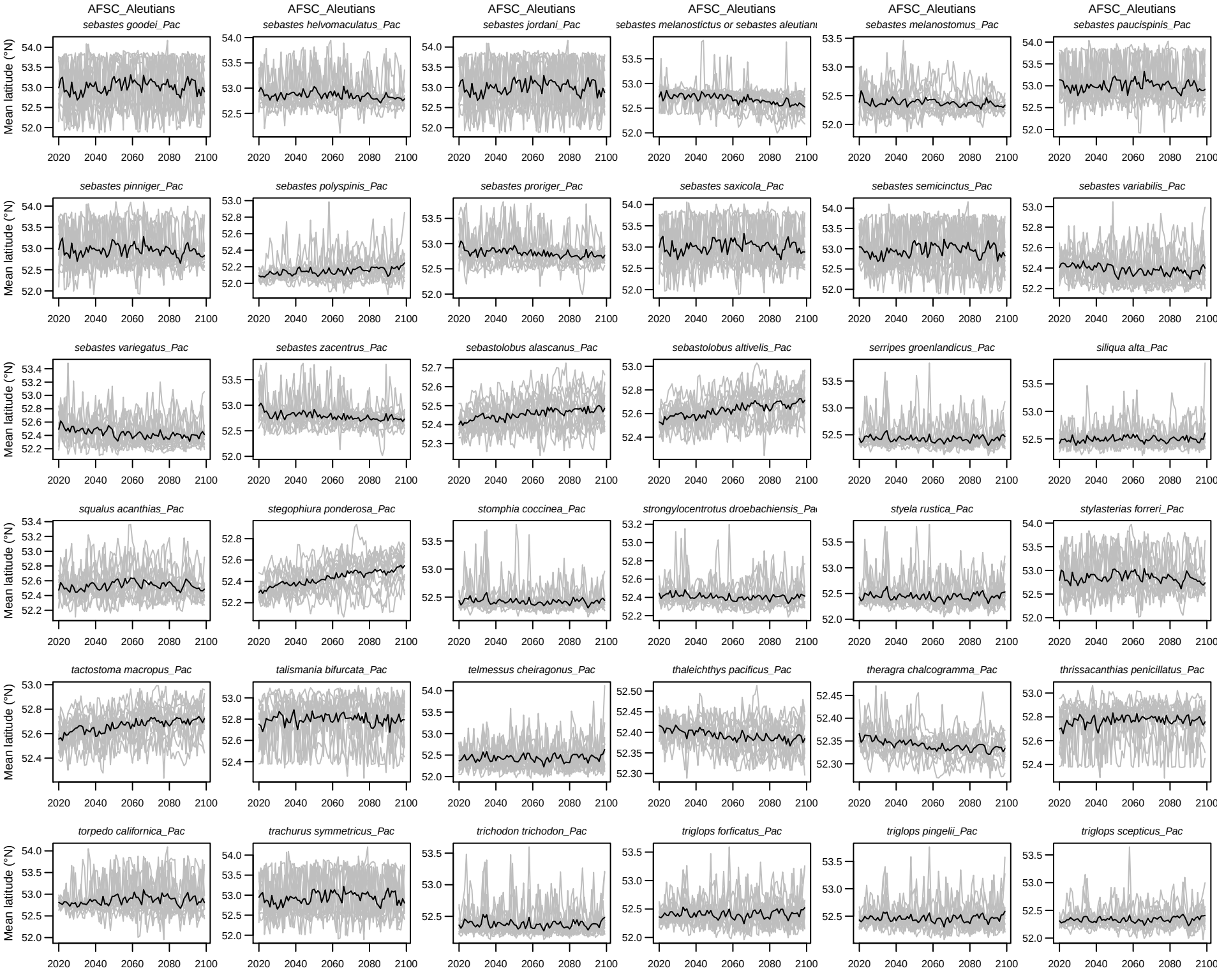
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sebastes helvomaculatus_Pac
sebastes jordani_Pac
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sebastes melanostomus_Pac
sebastes paucispinis_Pac
sebastes pinniger_Pac
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stylasterias forreri_Pac
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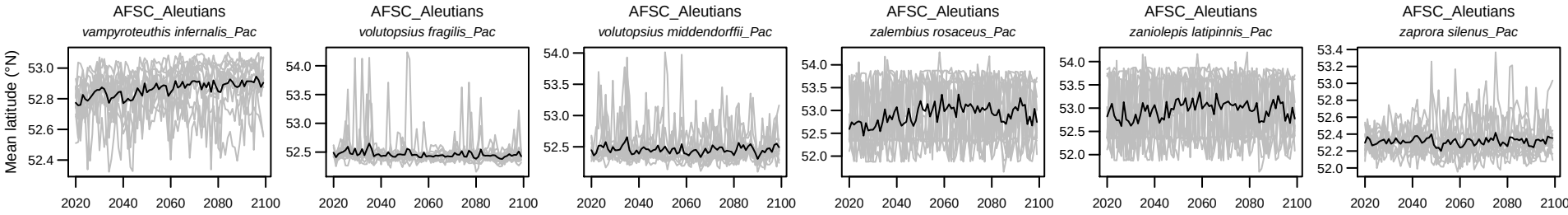
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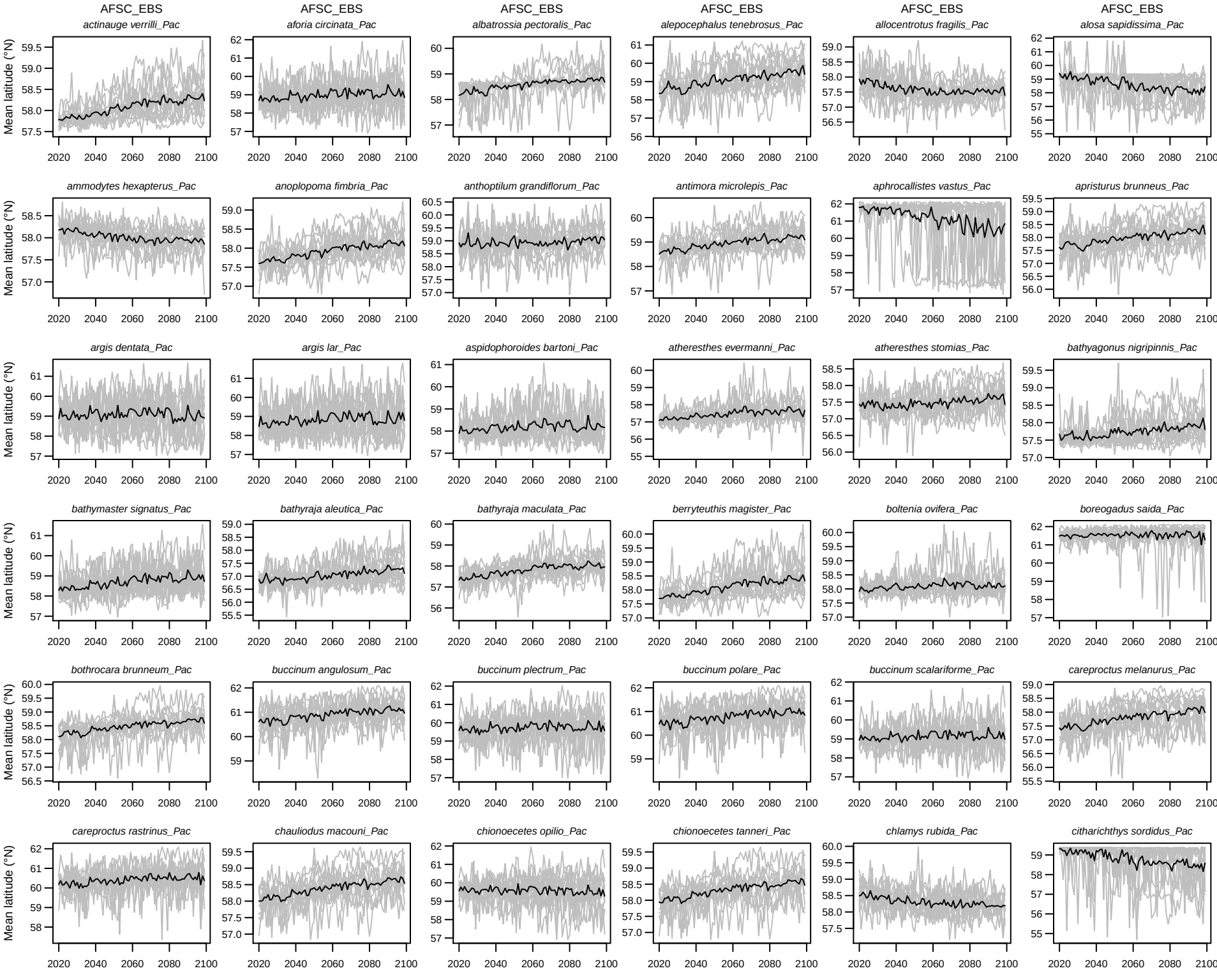
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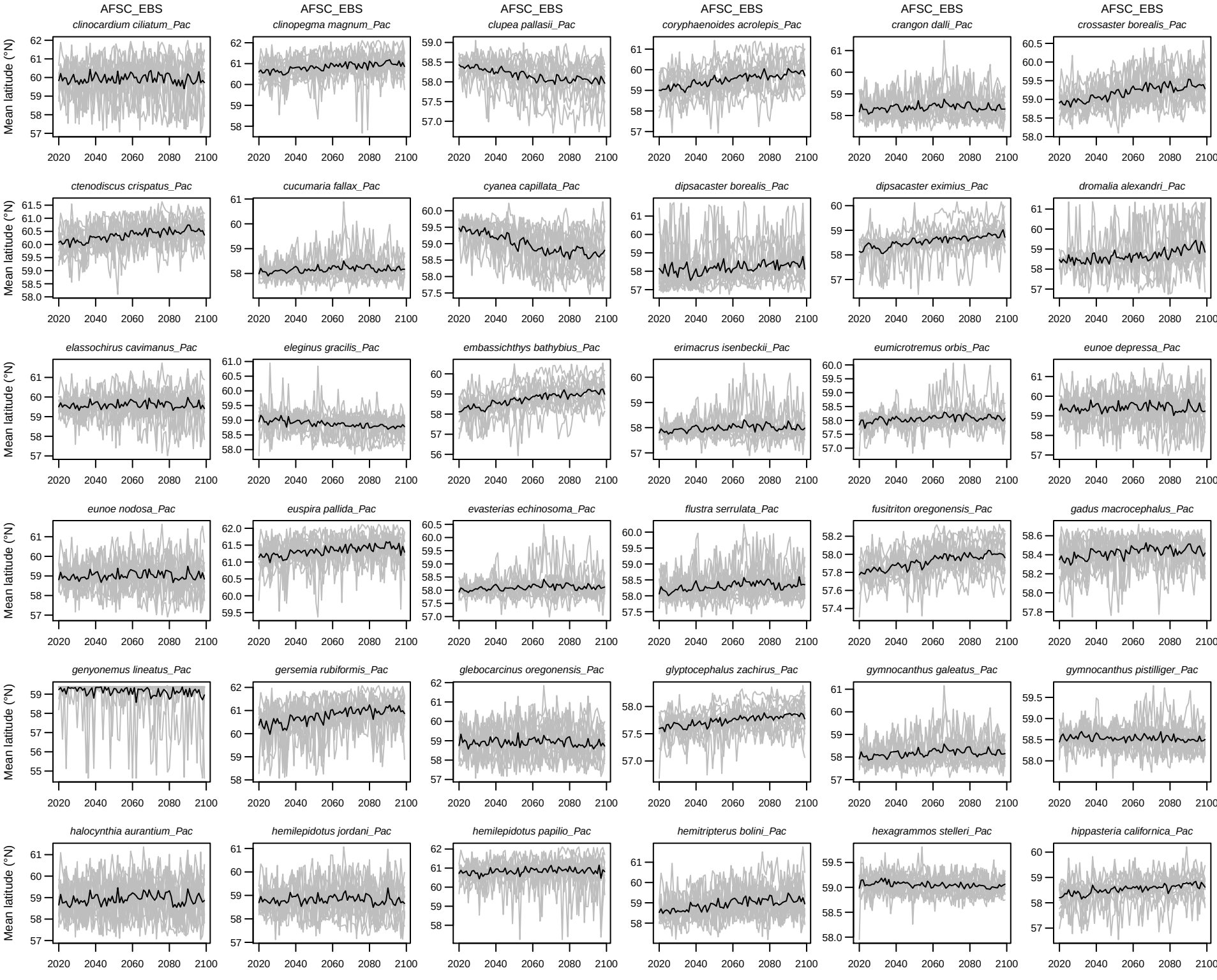
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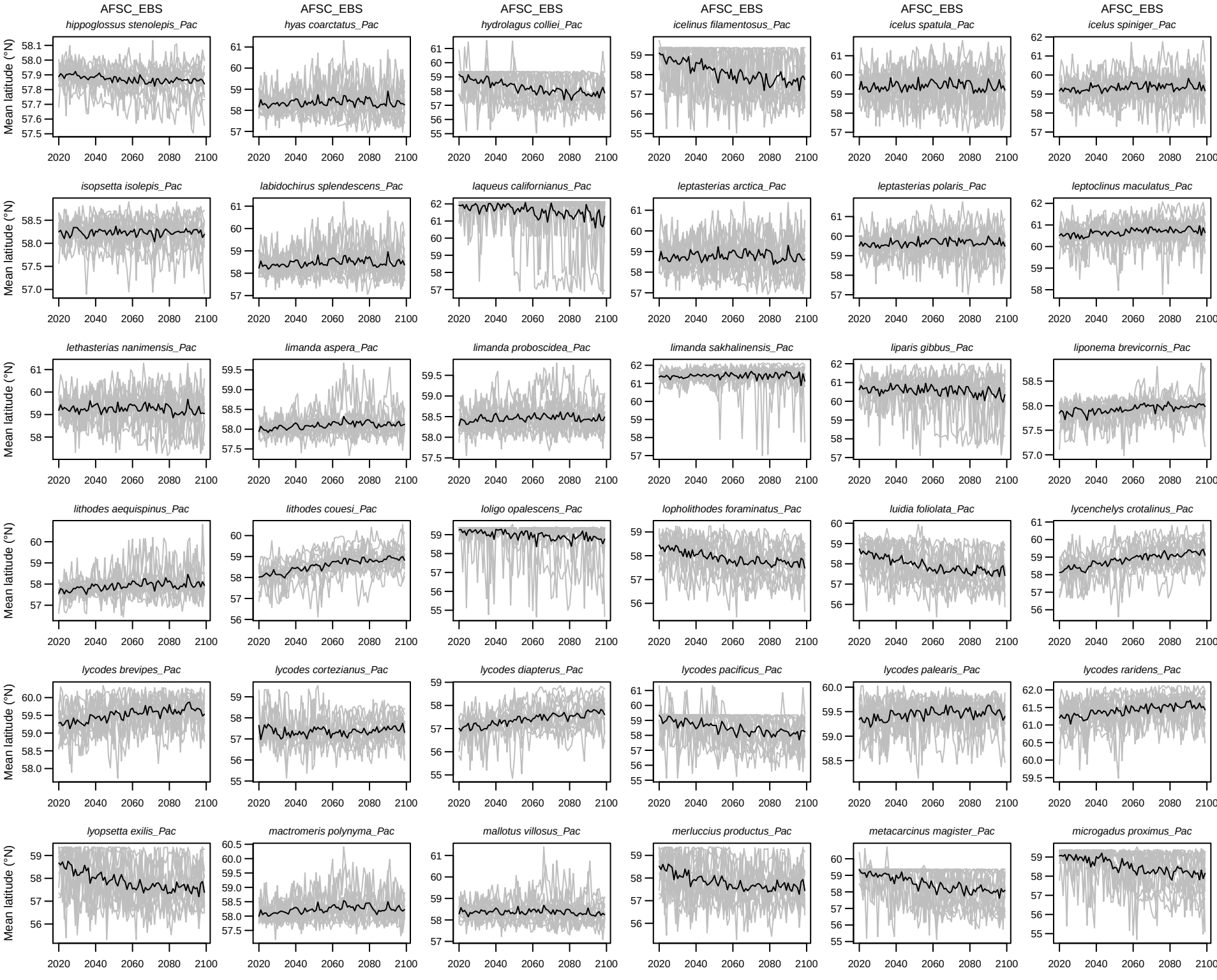
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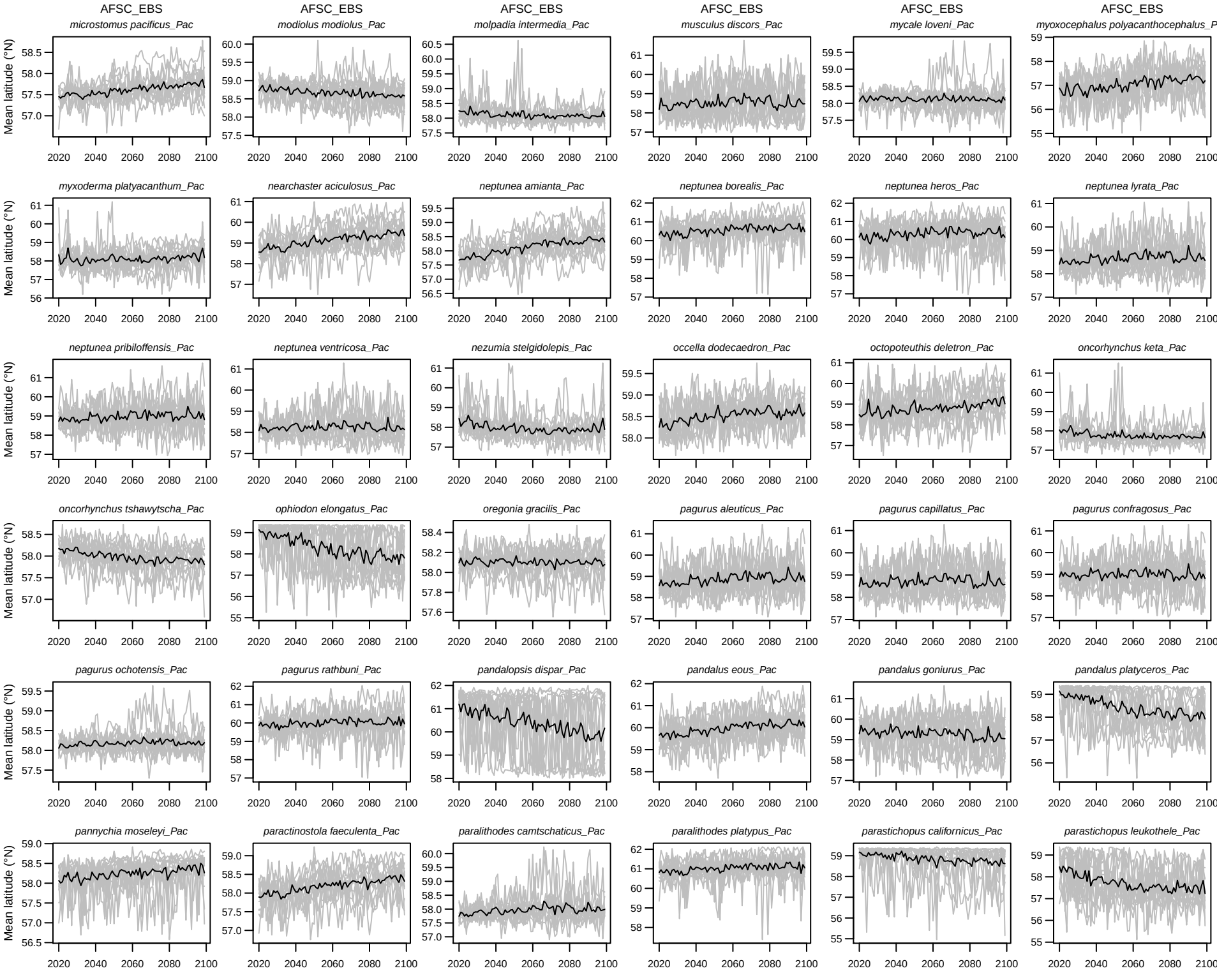
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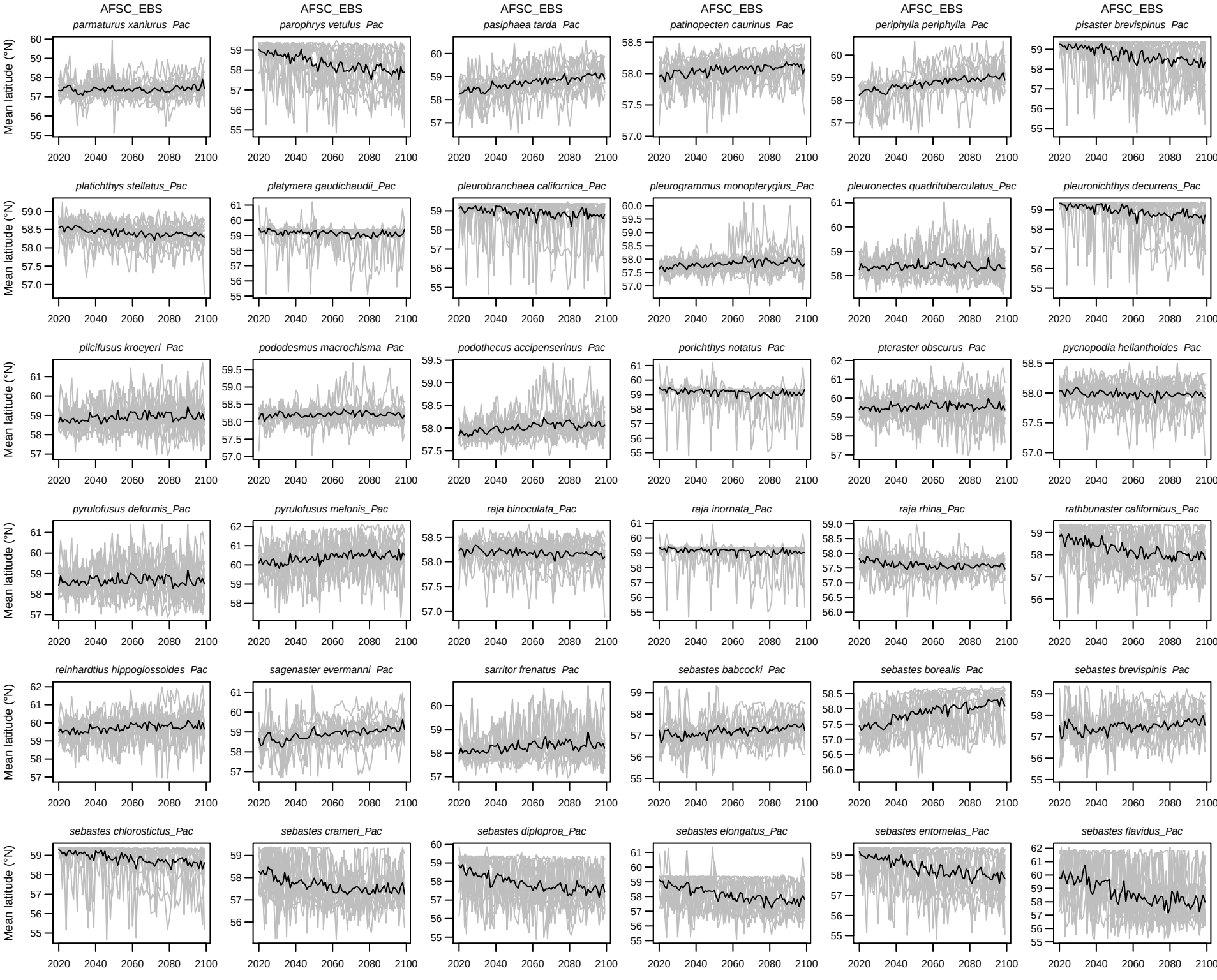
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sebastes crameri_Pac
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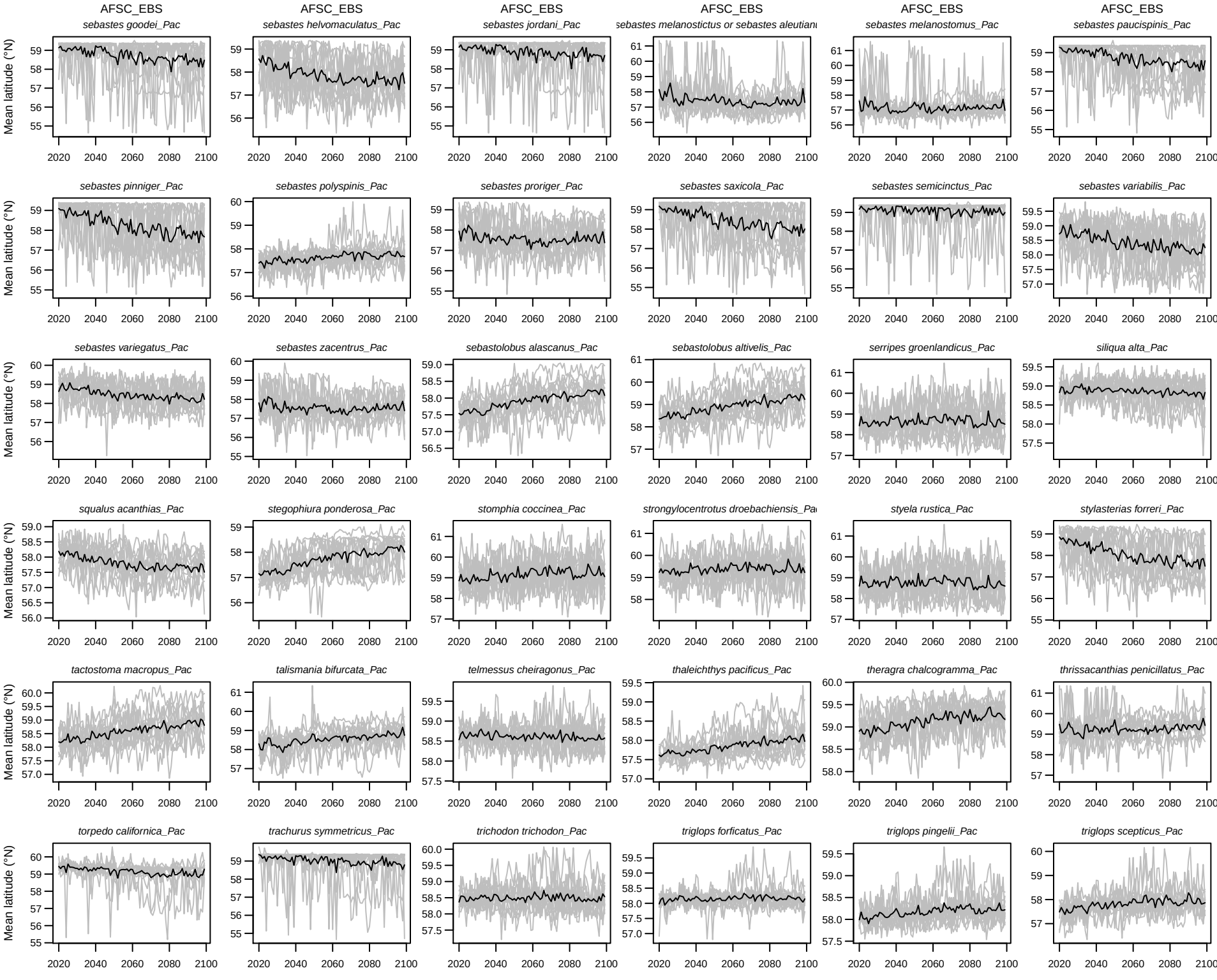
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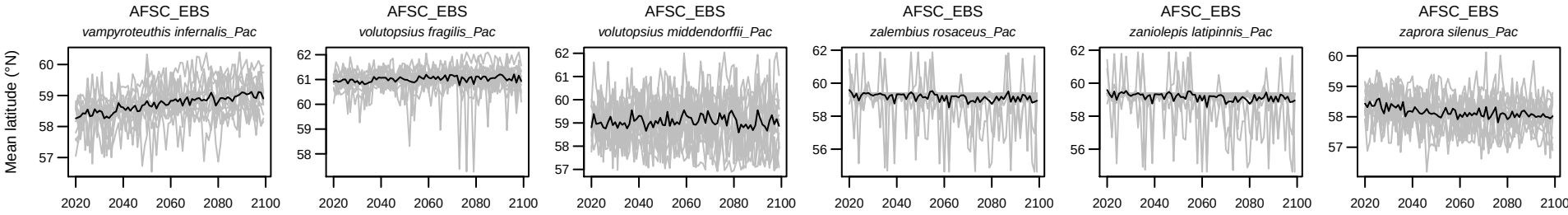
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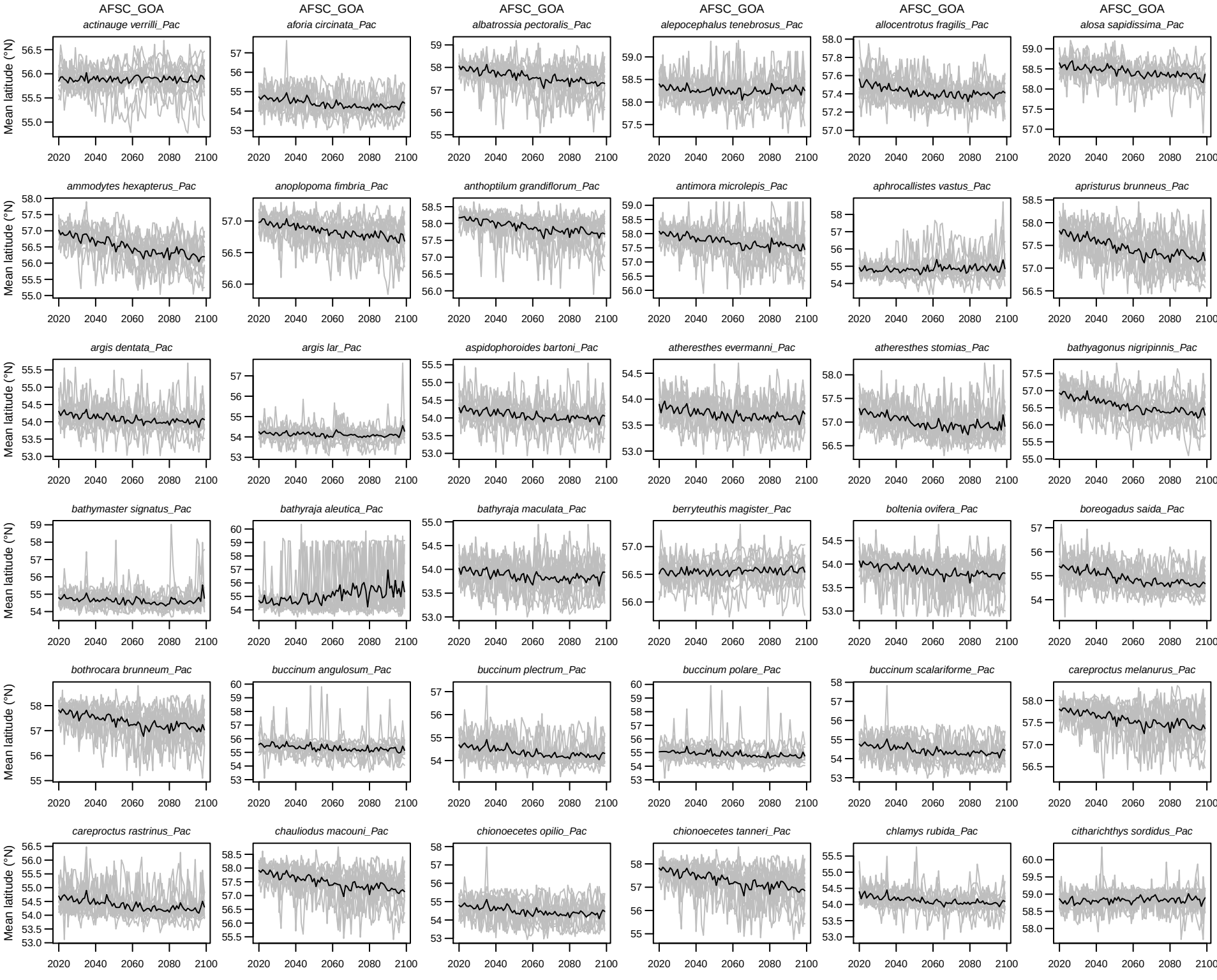
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Mean latitude (°N)
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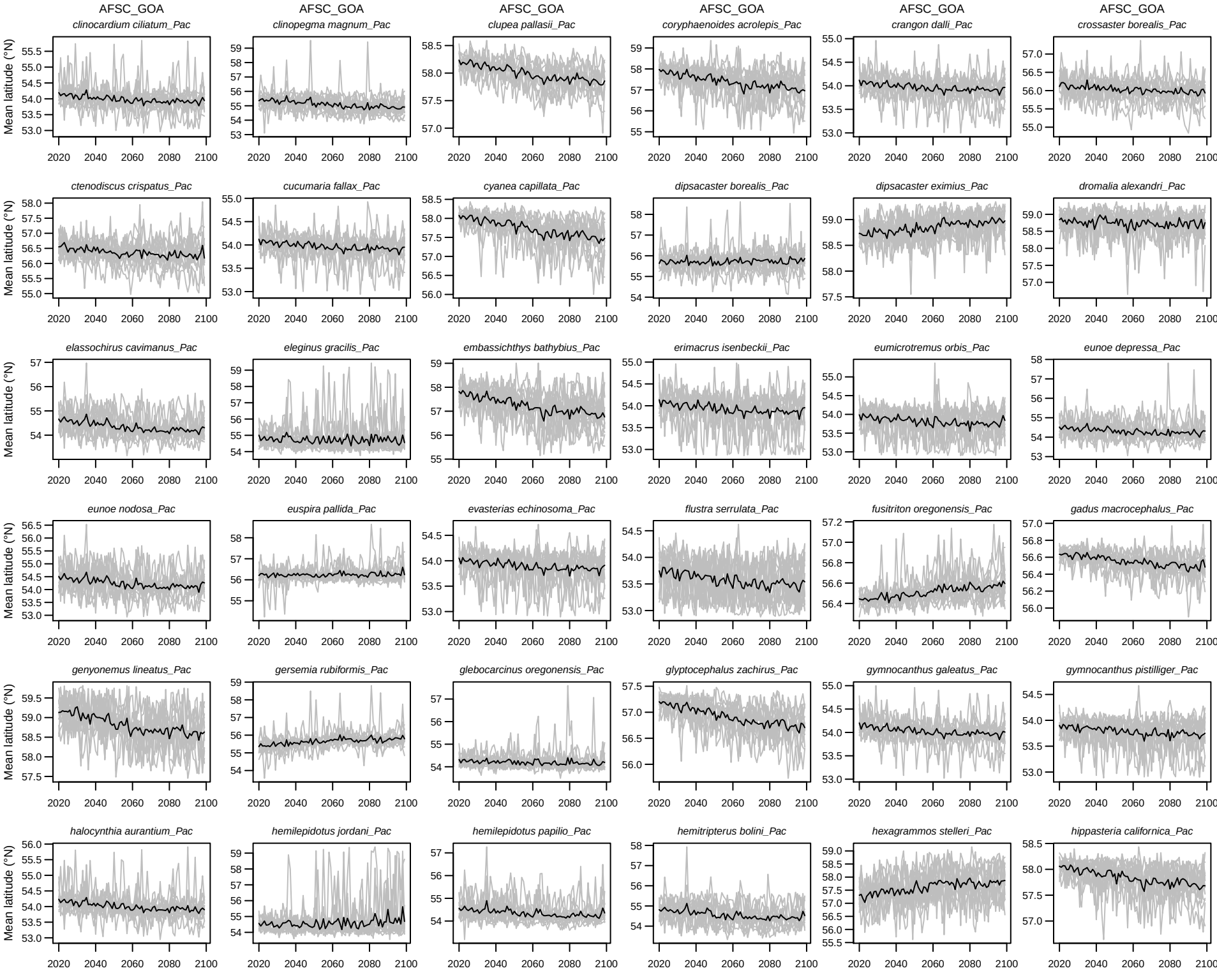
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crossaster borealis_Pac
ctenodiscus crispatus_Pac
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glebocarcinus oregonensis_Pac
glyptocephalus zachirus_Pac
gymnocanthus galeatus_Pac
gymnocanthus pistilliger_Pac
halocynthia aurantium_Pac
hemilepidotus jordani_Pac
hemilepidotus papilio_Pac
hemitripterus bolini_Pac
hexagrammos stelleri_Pac
hippasteria californica_Pac
Mean latitude (°N)
2020
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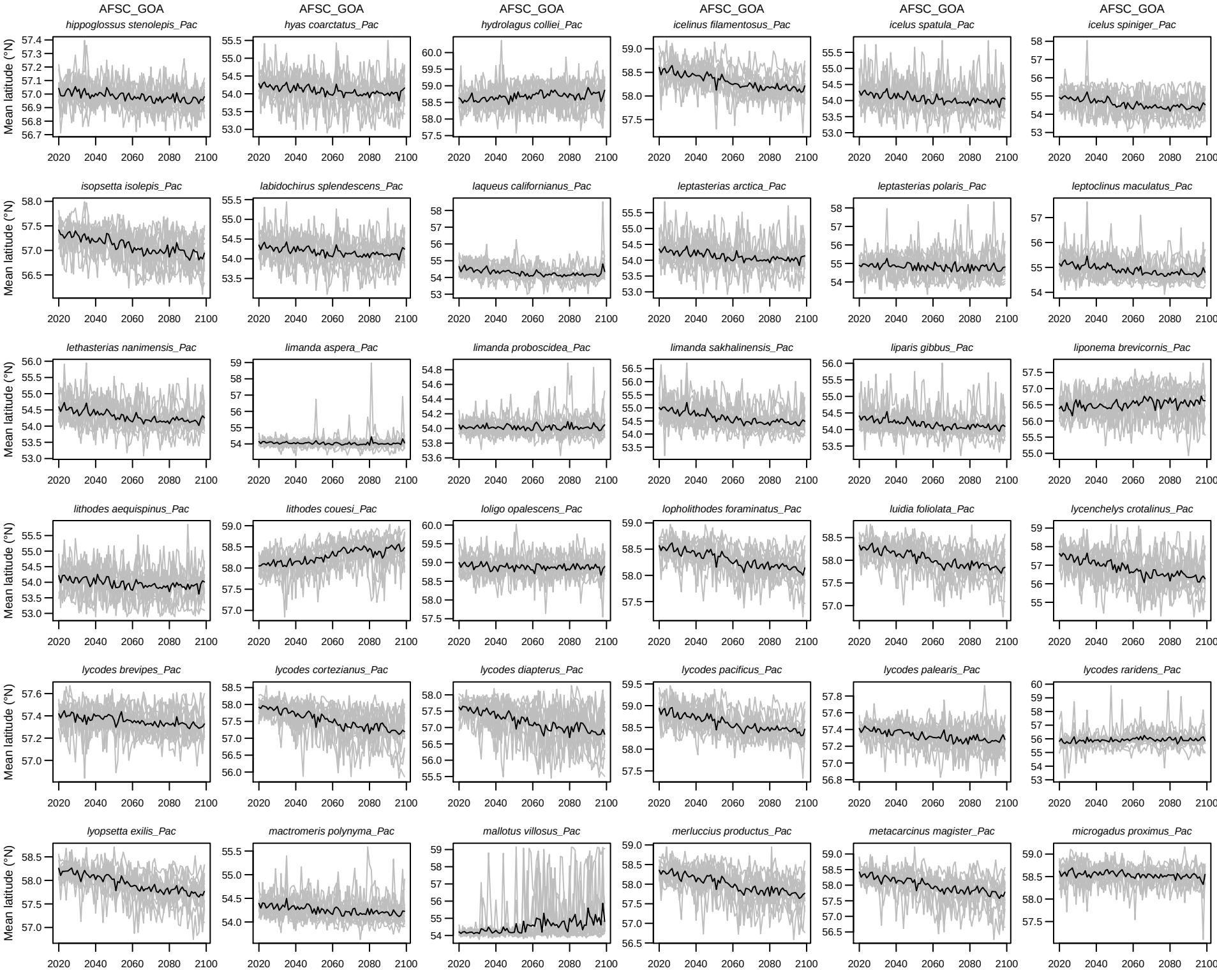
2060
2080
2100


AFSC_GOA
hippoglossus stenolepis_Pac
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icelus spatula_Pac
icelus spiniger_Pac
isopsetta isolepis_Pac
labidochirus splendescens_Pac
laqueus californianus_Pac
leptasterias arctica_Pac
leptasterias polaris_Pac
leptoclinus maculatus_Pac
lethasterias nanimensis_Pac
limanda aspera_Pac
limanda proboscidea_Pac
limanda sakhalinensis_Pac
liparis gibbus_Pac
liponema brevicornis_Pac
lithodes aequispinus_Pac
lithodes couesi_Pac
loligo opalescens_Pac
lopholithodes foraminatus_Pac
luidia foliolata_Pac
lycenchelys crotalinus_Pac
lycodes brevipes_Pac
lycodes cortezianus_Pac
lycodes diapterus_Pac
lycodes pacificus_Pac
lycodes palearis_Pac
lycodes raridens_Pac
lyopsetta exilis_Pac
mactromeris polynyma_Pac
mallotus villosus_Pac
merluccius productus_Pac
metacarcinus magister_Pac
microgadus proximus_Pac
Mean latitude (°N)
2020
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2080
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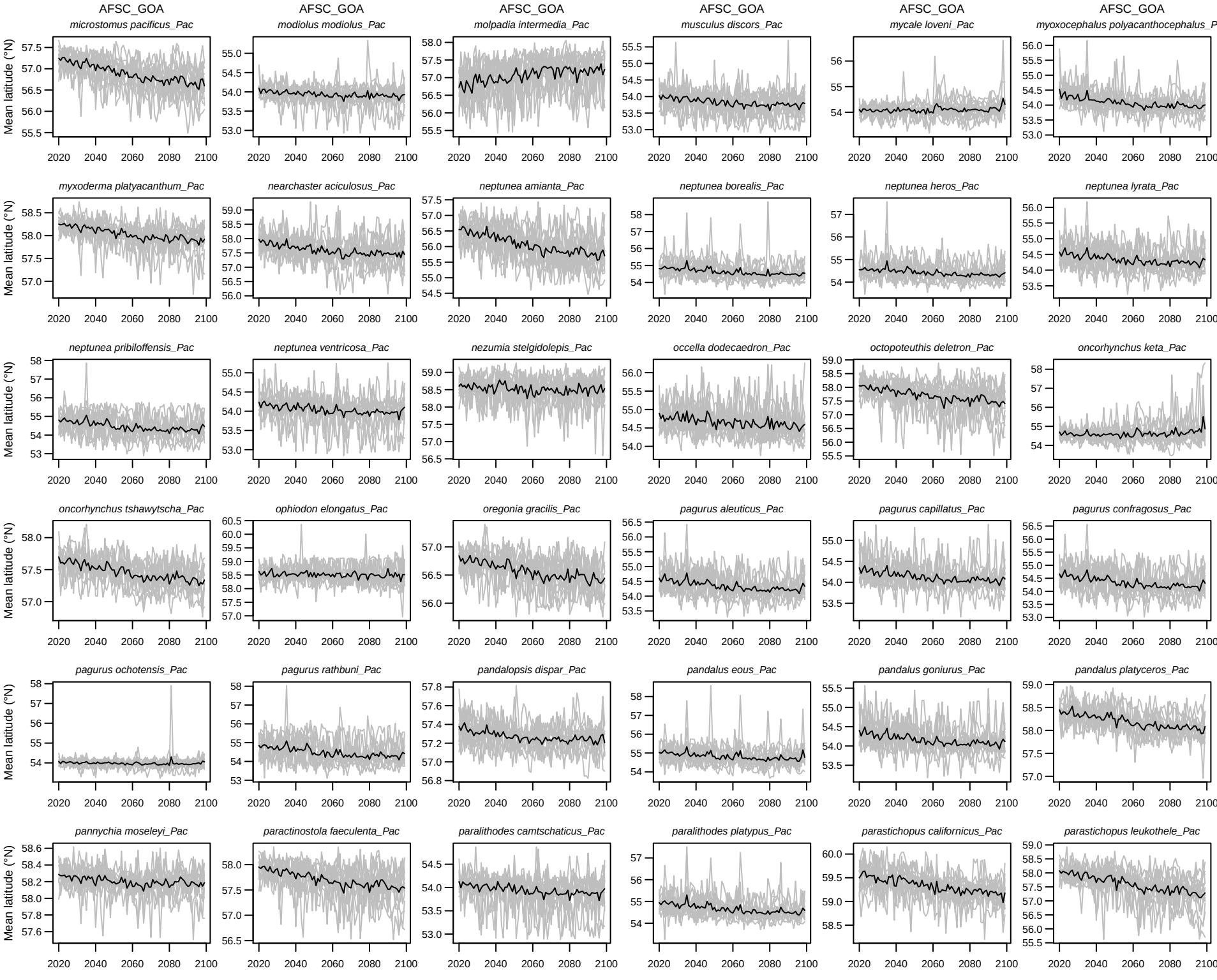
AFSC_GOA
microstomus pacificus_Pac
modiolus modiolus_Pac
molpadia intermedia_Pac
musculus discors_Pac
mycale loveni_Pac
myoxocephalus polyacanthocephalus_P
myxoderma platyacanthum_Pac
nearchaster aciculosus_Pac
neptunea amianta_Pac
neptunea borealis_Pac
neptunea heros_Pac
neptunea lyrata_Pac
neptunea pribiloffensis_Pac
neptunea ventricosa_Pac
nezumia stelgidolepis_Pac
occella dodecaedron_Pac
octopoteuthis deletron_Pac
oncorhynchus keta_Pac
oncorhynchus tshawytscha_Pac
ophiodon elongatus_Pac
oregonia gracilis_Pac
pagurus aleuticus_Pac
pagurus capillatus_Pac
pagurus confragosus_Pac
pagurus ochotensis_Pac
pagurus rathbuni_Pac
pandalopsis dispar_Pac
pandalus eous_Pac
pandalus goniurus_Pac
pandalus platyceros_Pac
pannychia moseleyi_Pac
paractinostola faeculenta_Pac
paralithodes camtschaticus_Pac
paralithodes platypus_Pac
parastichopus californicus_Pac
parastichopus leukothele_Pac
Mean latitude (°N)
2020
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2080
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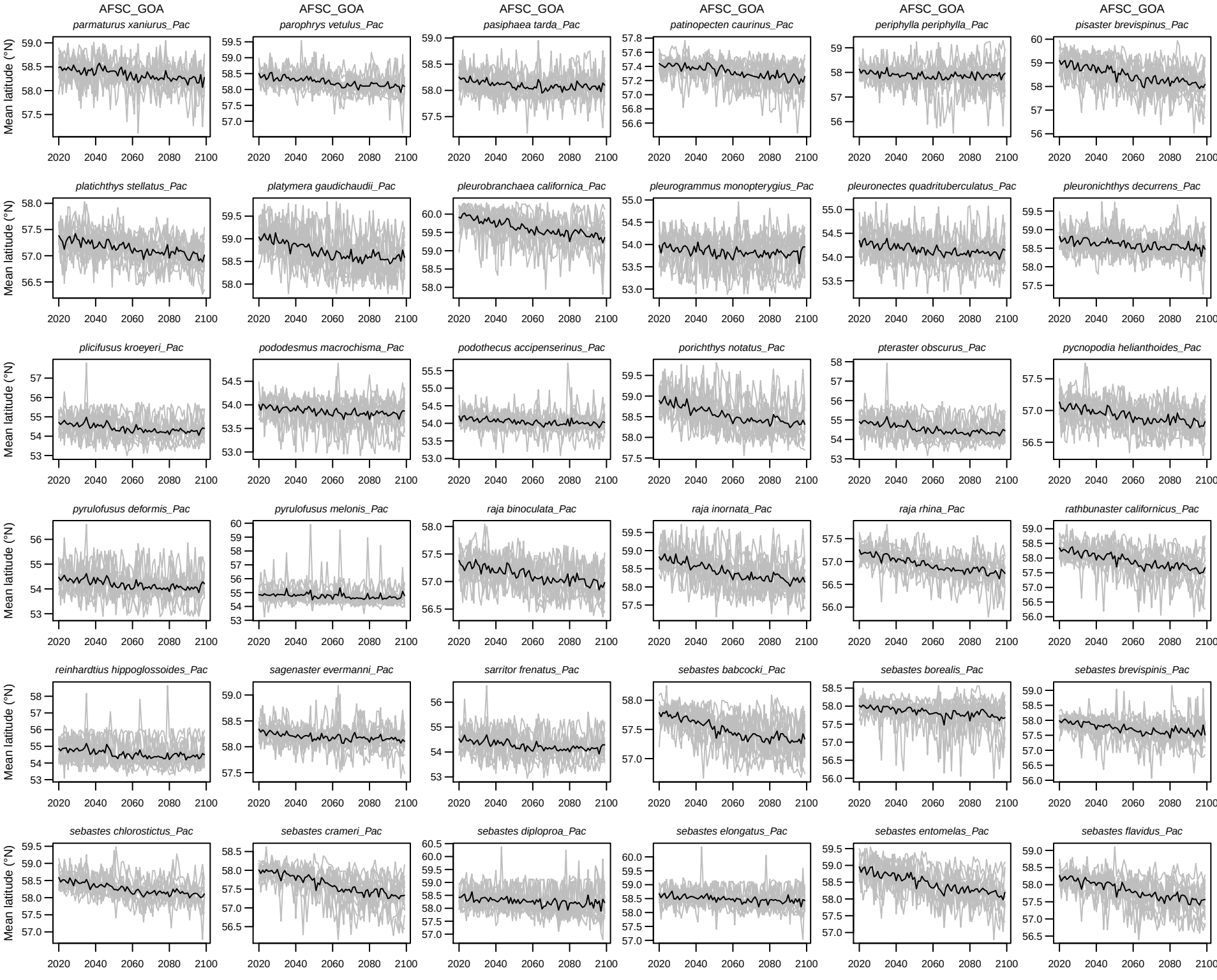
AFSC_GOA
parmaturus xaniurus_Pac
parophrys vetulus_Pac
pasiphaea tarda_Pac
patinopecten caurinus_Pac
periphylla periphylla_Pac
pisaster brevispinus_Pac
platichthys stellatus_Pac
platymera gaudichaudii_Pac
pleurobranchaea californica_Pac
pleurogrammus monopterygius_Pac
pleuronectes quadrituberculatus_Pac
pleuronichthys decurrens_Pac
plicifusus kroeyeri_Pac
pododesmus macrochisma_Pac
podothecus accipenserinus_Pac
porichthys notatus_Pac
pteraster obscurus_Pac
pycnopodia helianthoides_Pac
pyrulofusus deformis_Pac
pyrulofusus melonis_Pac
raja binoculata_Pac
raja inornata_Pac
raja rhina_Pac
rathbunaster californicus_Pac
reinhardtius hippoglossoides_Pac
sagenaster evermanni_Pac
sarritor frenatus_Pac
sebastes babcocki_Pac
sebastes borealis_Pac
sebastes brevispinis_Pac
sebastes chlorostictus_Pac
sebastes crameri_Pac
sebastes diploproa_Pac
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sebastes entomelas_Pac
sebastes flavidus_Pac
Mean latitude (°N)
2020
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2060
2080
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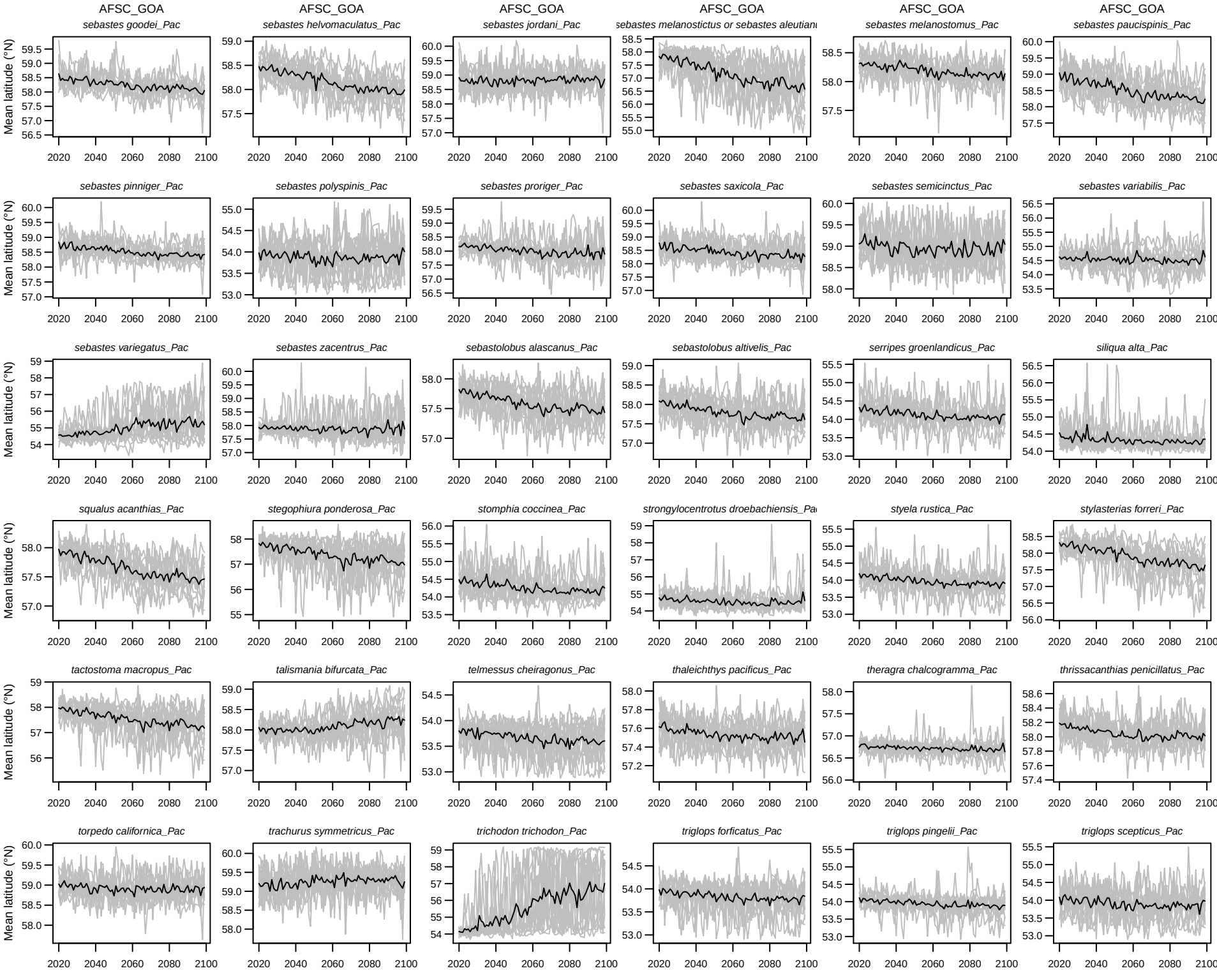
AFSC_GOA
sebastes goodei_Pac
sebastes helvomaculatus_Pac
sebastes jordani_Pac
sebastes melanostictus or sebastes aleutiani
sebastes melanostomus_Pac
sebastes paucispinis_Pac
sebastes pinniger_Pac
sebastes polyspinis_Pac
sebastes proriger_Pac
sebastes saxicola_Pac
sebastes semicinctus_Pac
sebastes variabilis_Pac
sebastes variegatus_Pac
sebastes zacentrus_Pac
sebastolobus alascanus_Pac
sebastolobus altivelis_Pac
serripes groenlandicus_Pac
siliqua alta_Pac
squalus acanthias_Pac
stegophiura ponderosa_Pac
stomphia coccinea_Pac
strongylocentrotus droebachiensis_Pa
styela rustica_Pac
stylasterias forreri_Pac
tactostoma macropus_Pac
talismania bifurcata_Pac
telmessus cheiragonus_Pac
thaleichthys pacificus_Pac
theragra chalcogramma_Pac
thrissacanthias penicillatus_Pac
torpedo californica_Pac
trachurus symmetricus_Pac
trichodon trichodon_Pac
triglops forficatus_Pac
triglops pingelii_Pac
triglops scepticus_Pac
Mean latitude (°N)
2020
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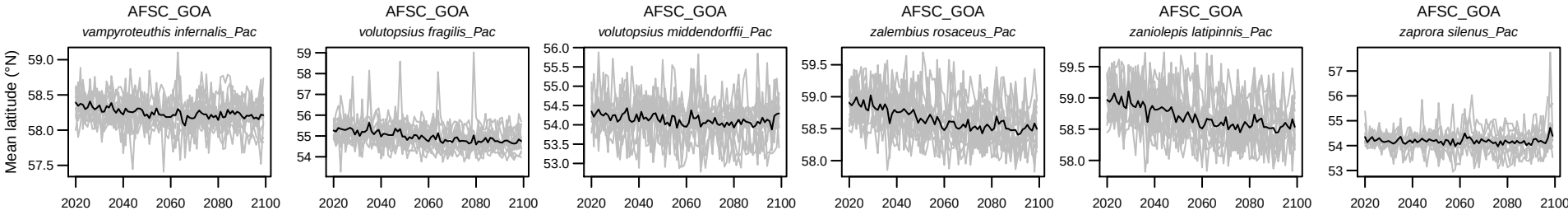
AFSC_GOA
vampyroteuthis infernalis_Pac
AFSC_GOA
volutopsius fragilis_Pac
AFSC_GOA
volutopsius middendorffii_Pac
AFSC_GOA
zalembius rosaceus_Pac
AFSC_GOA
zaniolepis latipinnis_Pac
AFSC_GOA
zaprora silenus_Pac
Mean latitude (°N)
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2080
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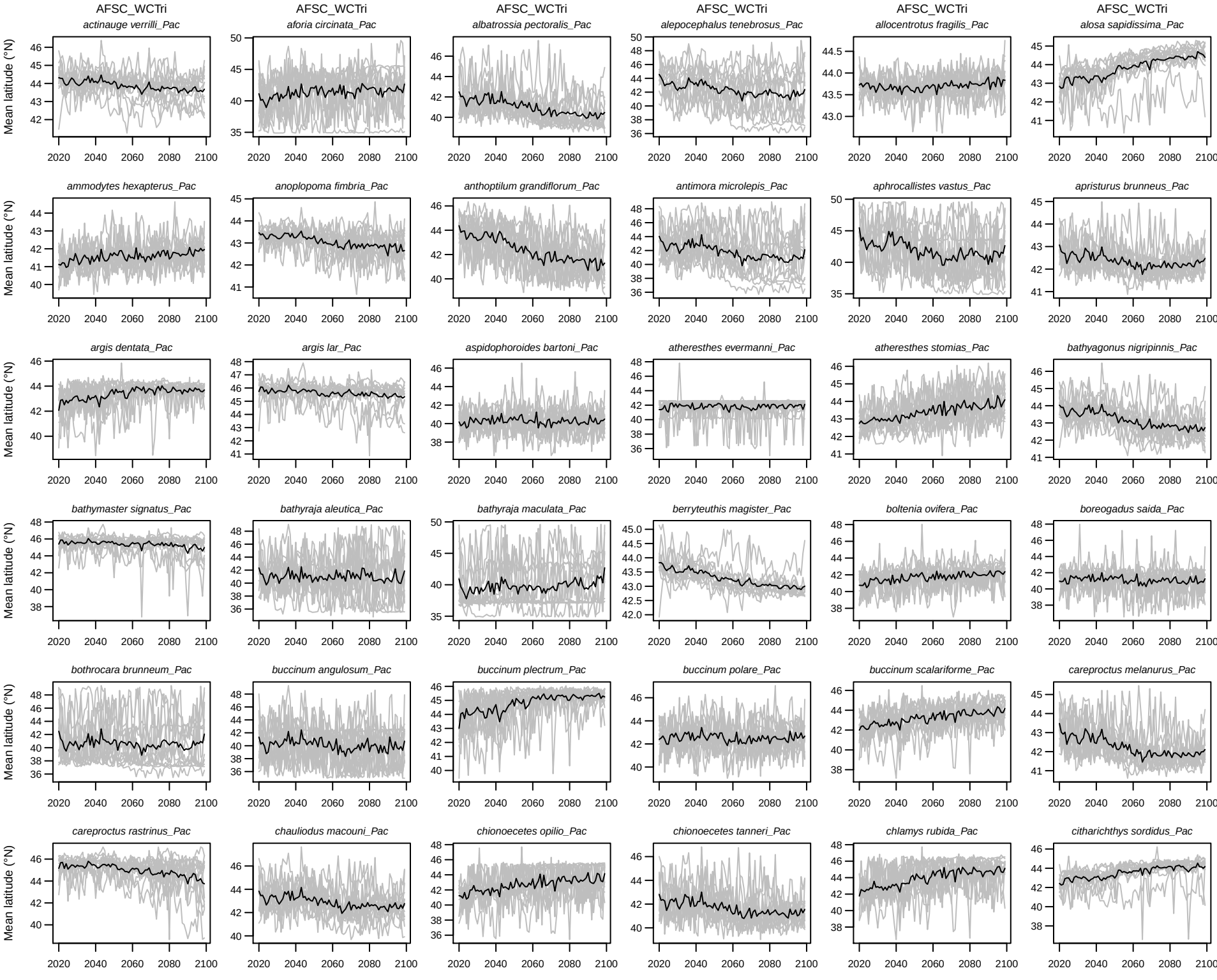
AFSC_WCTri
actinauge verrilli_Pac
aforia circinata_Pac
albatrossia pectoralis_Pac
alepocephalus tenebrosus_Pac
allocentrotus fragilis_Pac
alosa sapidissima_Pac
ammodytes hexapterus_Pac
anoplopoma fimbria_Pac
anthoptilum grandiflorum_Pac
antimora microlepis_Pac
aphrocallistes vastus_Pac
apristurus brunneus_Pac
argis dentata_Pac
argis lar_Pac
aspidophoroides bartoni_Pac
atheresthes evermanni_Pac
atheresthes stomias_Pac
bathyagonus nigripinnis_Pac
bathymaster signatus_Pac
bathyraja aleutica_Pac
bathyraja maculata_Pac
berryteuthis magister_Pac
boltenia ovifera_Pac
boreogadus saida_Pac
bothrocara brunneum_Pac
buccinum angulosum_Pac
buccinum plectrum_Pac
buccinum polare_Pac
buccinum scalariforme_Pac
careproctus melanurus_Pac
careproctus rastrinus_Pac
chauliodus macouni_Pac
chionoecetes opilio_Pac
chionoecetes tanneri_Pac
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Mean latitude (°N)
2020
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2080
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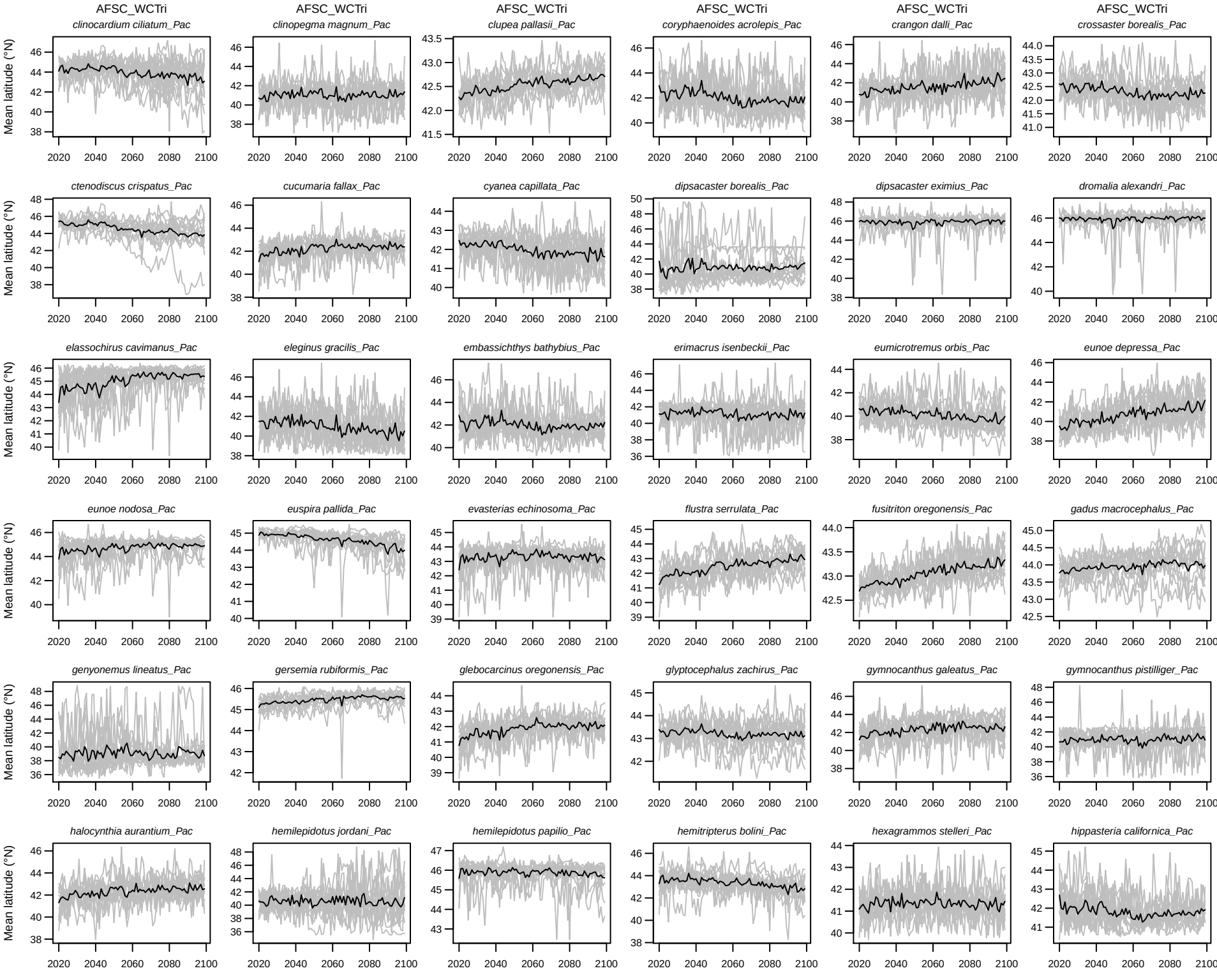
AFSC_WCTri
clinocardium ciliatum_Pac
clinopegma magnum_Pac
clupea pallasii_Pac
coryphaenoides acrolepis_Pac
crangon dalli_Pac
crossaster borealis_Pac
ctenodiscus crispatus_Pac
cucumaria fallax_Pac
cyanea capillata_Pac
dipsacaster borealis_Pac
dipsacaster eximius_Pac
dromalia alexandri_Pac
elassochirus cavimanus_Pac
eleginus gracilis_Pac
embassichthys bathybius_Pac
erimacrus isenbeckii_Pac
eumicrotremus orbis_Pac
eunoe depressa_Pac
eunoe nodosa_Pac
euspira pallida_Pac
evasterias echinosoma_Pac
flustra serrulata_Pac
fusitriton oregonensis_Pac
gadus macrocephalus_Pac
genyonemus lineatus_Pac
gersemia rubiformis_Pac
glebocarcinus oregonensis_Pac
glyptocephalus zachirus_Pac
gymnocanthus galeatus_Pac
gymnocanthus pistilliger_Pac
halocynthia aurantium_Pac
hemilepidotus jordani_Pac
hemilepidotus papilio_Pac
hemitripterus bolini_Pac
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hippasteria californica_Pac
Mean latitude (°N)
2020
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2060
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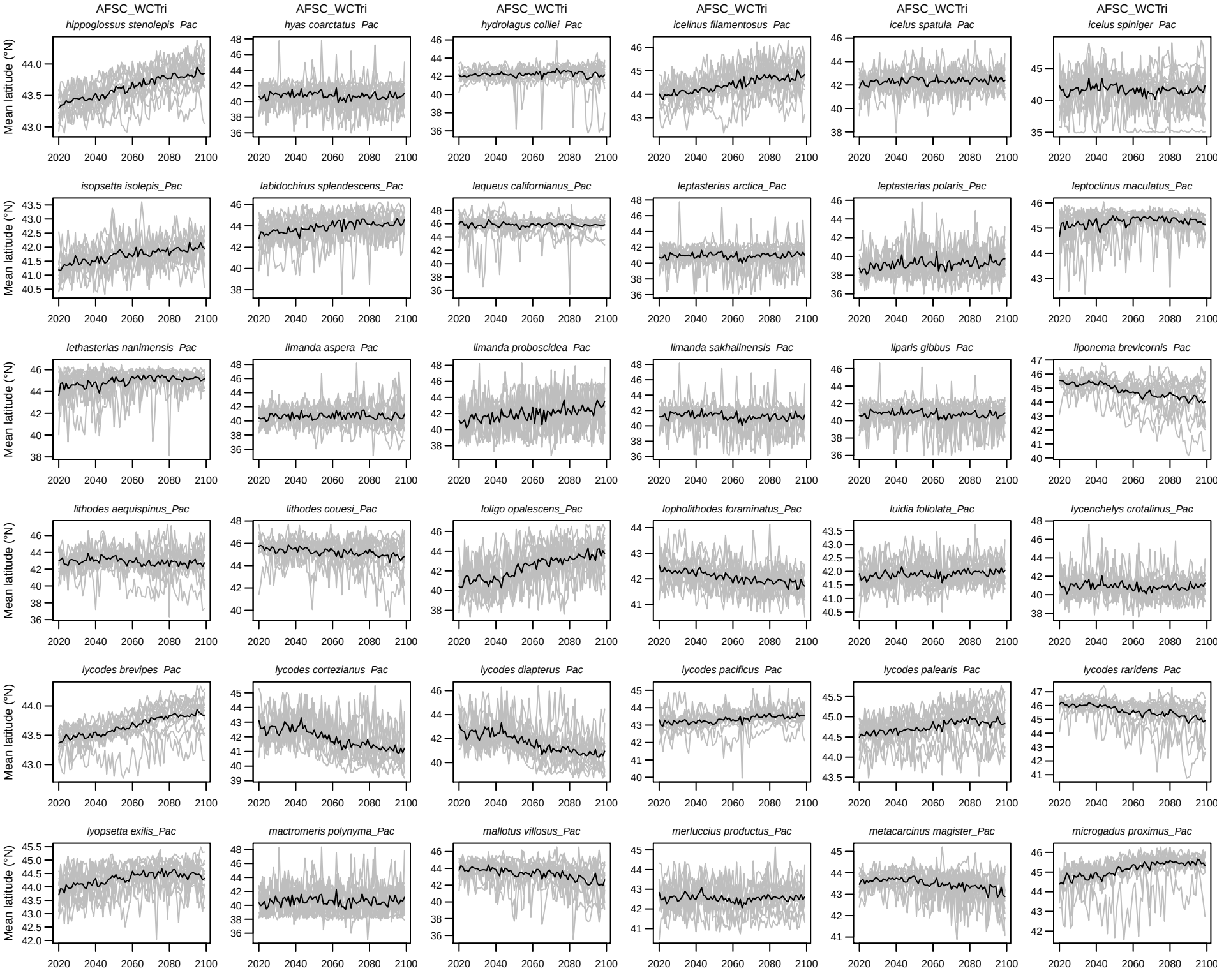
AFSC_WCTri
hippoglossus stenolepis_Pac
hyas coarctatus_Pac
hydrolagus colliei_Pac
icelinus filamentosus_Pac
icelus spatula_Pac
icelus spiniger_Pac
isopsetta isolepis_Pac
labidochirus splendescens_Pac
laqueus californianus_Pac
leptasterias arctica_Pac
leptasterias polaris_Pac
leptoclinus maculatus_Pac
lethasterias nanimensis_Pac
limanda aspera_Pac
limanda proboscidea_Pac
limanda sakhalinensis_Pac
liparis gibbus_Pac
liponema brevicornis_Pac
lithodes aequispinus_Pac
lithodes couesi_Pac
loligo opalescens_Pac
lopholithodes foraminatus_Pac
luidia foliolata_Pac
lycenchelys crotalinus_Pac
lycodes brevipes_Pac
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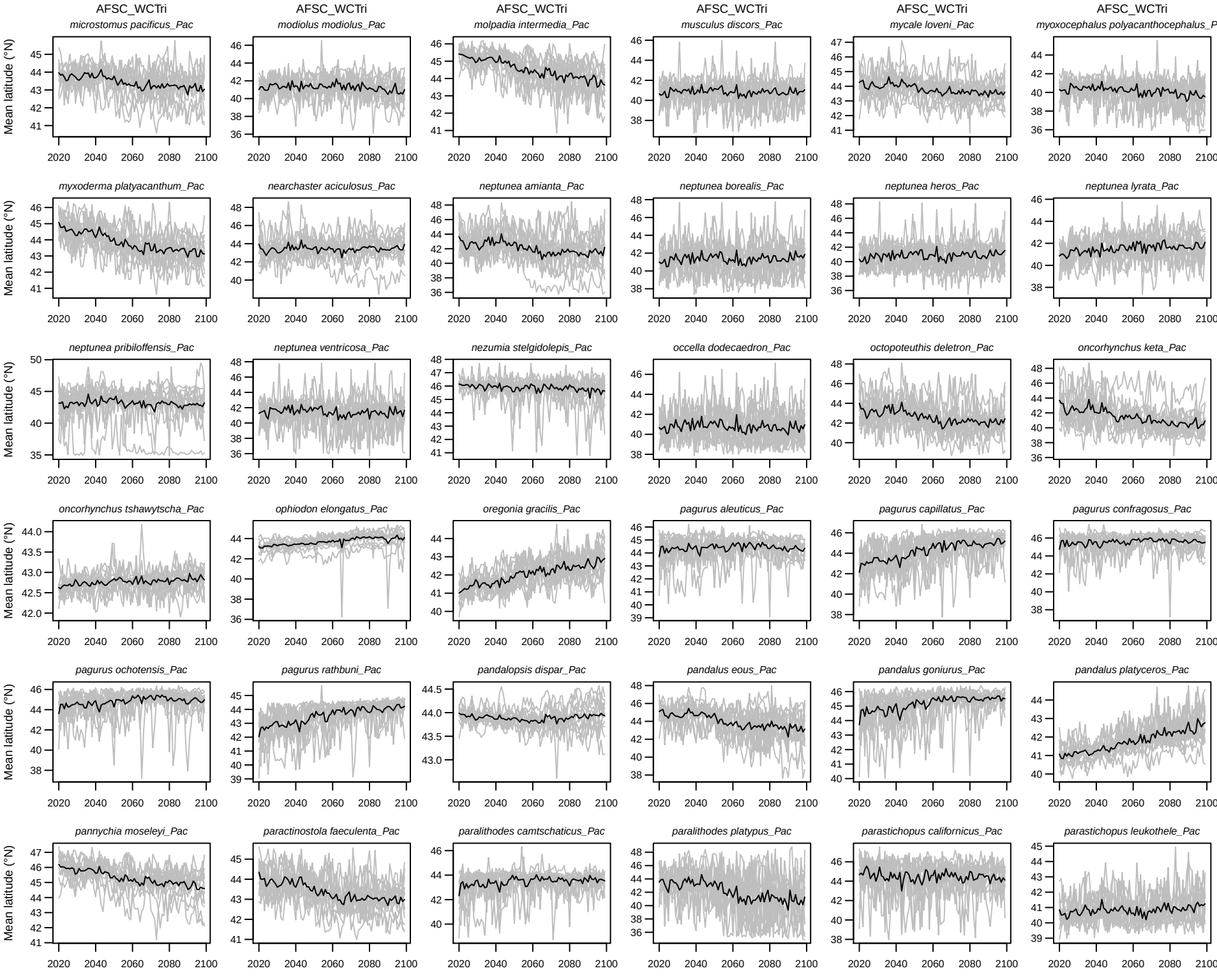
lycodes raridens_Pac
lyopsetta exilis_Pac
mactromeris polynyma_Pac
mallotus villosus_Pac
merluccius productus_Pac
metacarcinus magister_Pac
microgadus proximus_Pac
Mean latitude (°N)
2020
2040
2060
2080
2100


AFSC_WCTri
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modiolus modiolus_Pac
molpadia intermedia_Pac
musculus discors_Pac
mycale loveni_Pac
myoxocephalus polyacanthocephalus_P
myxoderma platyacanthum_Pac
nearchaster aciculosus_Pac
neptunea amianta_Pac
neptunea borealis_Pac
neptunea heros_Pac
neptunea lyrata_Pac
neptunea pribiloffensis_Pac
neptunea ventricosa_Pac
nezumia stelgidolepis_Pac
occella dodecaedron_Pac
octopoteuthis deletron_Pac
oncorhynchus keta_Pac
oncorhynchus tshawytscha_Pac
ophiodon elongatus_Pac
oregonia gracilis_Pac
pagurus aleuticus_Pac
pagurus capillatus_Pac
pagurus confragosus_Pac
pagurus ochotensis_Pac
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pandalus goniurus_Pac
pandalus platyceros_Pac
pannychia moseleyi_Pac
paractinostola faeculenta_Pac
paralithodes camtschaticus_Pac
paralithodes platypus_Pac
parastichopus californicus_Pac
parastichopus leukothele_Pac
Mean latitude (°N)
2020
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2080
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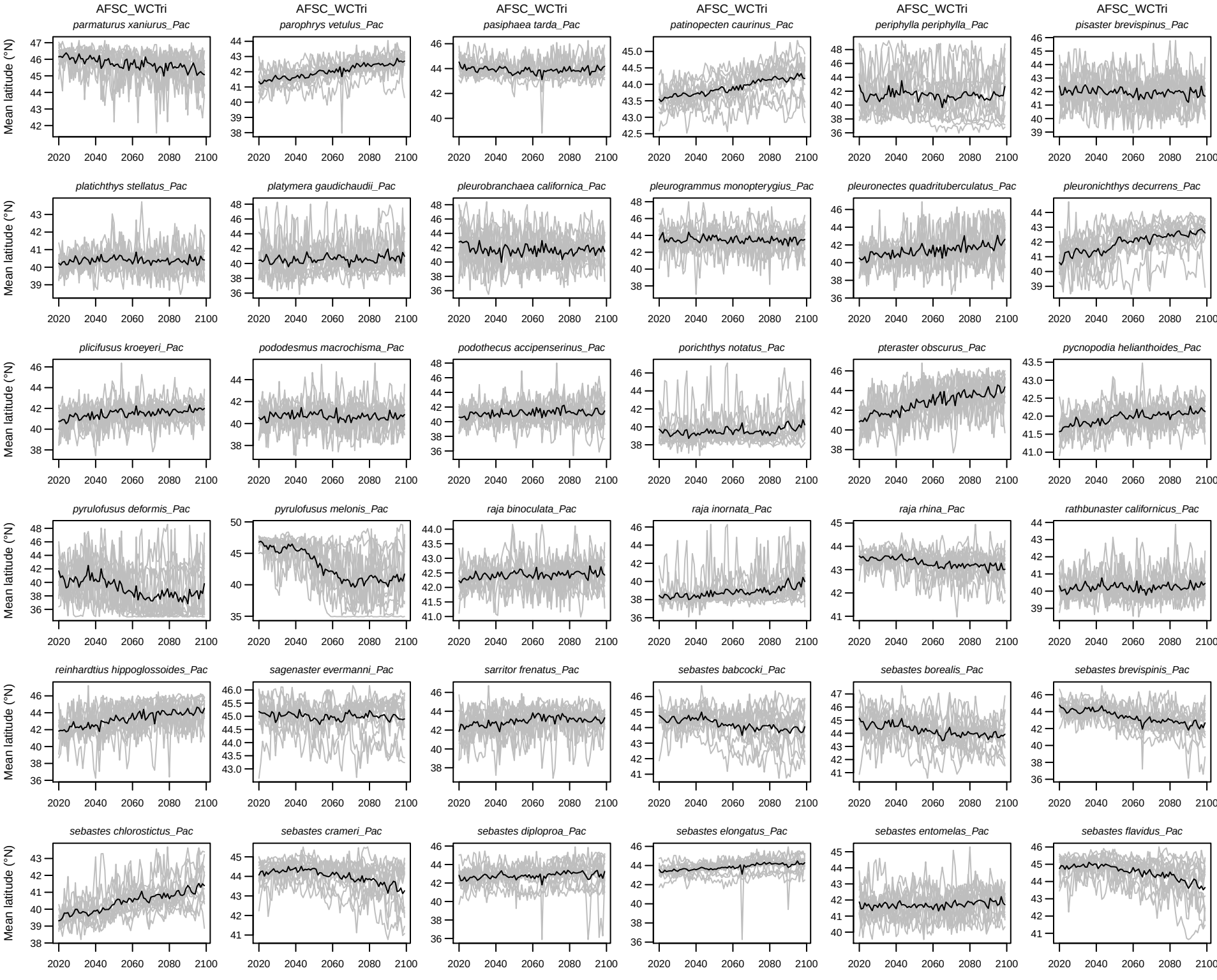
AFSC_WCTri
parmaturus xaniurus_Pac
parophrys vetulus_Pac
pasiphaea tarda_Pac
patinopecten caurinus_Pac
periphylla periphylla_Pac
pisaster brevispinus_Pac
platichthys stellatus_Pac
platymera gaudichaudii_Pac
pleurobranchaea californica_Pac
pleurogrammus monopterygius_Pac
pleuronectes quadrituberculatus_Pac
pleuronichthys decurrens_Pac
plicifusus kroeyeri_Pac
pododesmus macrochisma_Pac
podothecus accipenserinus_Pac
porichthys notatus_Pac
pteraster obscurus_Pac
pycnopodia helianthoides_Pac
pyrulofusus deformis_Pac
pyrulofusus melonis_Pac
raja binoculata_Pac
raja inornata_Pac
raja rhina_Pac
rathbunaster californicus_Pac
reinhardtius hippoglossoides_Pac
sagenaster evermanni_Pac
sarritor frenatus_Pac
sebastes babcocki_Pac
sebastes borealis_Pac
sebastes brevispinis_Pac
sebastes chlorostictus_Pac
sebastes crameri_Pac
sebastes diploproa_Pac
sebastes elongatus_Pac
sebastes entomelas_Pac
sebastes flavidus_Pac
Mean latitude (°N)
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2080
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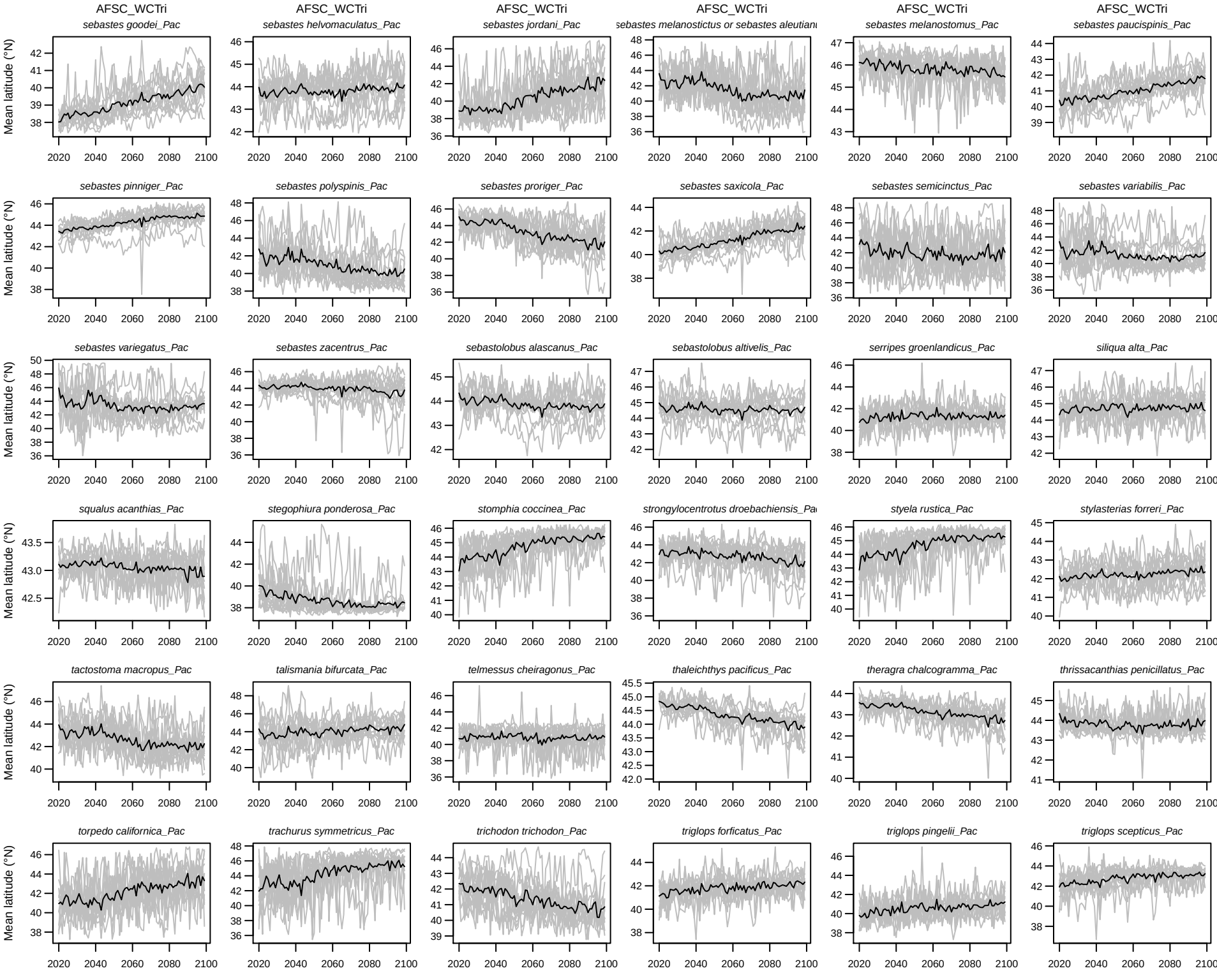
AFSC_WCTri
sebastes goodei_Pac
sebastes helvomaculatus_Pac
sebastes jordani_Pac
sebastes melanostictus or sebastes aleutiani
sebastes melanostomus_Pac
sebastes paucispinis_Pac
sebastes pinniger_Pac
sebastes polyspinis_Pac
sebastes proriger_Pac
sebastes saxicola_Pac
sebastes semicinctus_Pac
sebastes variabilis_Pac
sebastes variegatus_Pac
sebastes zacentrus_Pac
sebastolobus alascanus_Pac
sebastolobus altivelis_Pac
serripes groenlandicus_Pac
siliqua alta_Pac
squalus acanthias_Pac
stegophiura ponderosa_Pac
stomphia coccinea_Pac
strongylocentrotus droebachiensis_Pa
styela rustica_Pac
stylasterias forreri_Pac
tactostoma macropus_Pac
talismania bifurcata_Pac
telmessus cheiragonus_Pac
thaleichthys pacificus_Pac
theragra chalcogramma_Pac
thrissacanthias penicillatus_Pac
torpedo californica_Pac
trachurus symmetricus_Pac
trichodon trichodon_Pac
triglops forficatus_Pac
triglops pingelii_Pac
triglops scepticus_Pac
Mean latitude (°N)
2020
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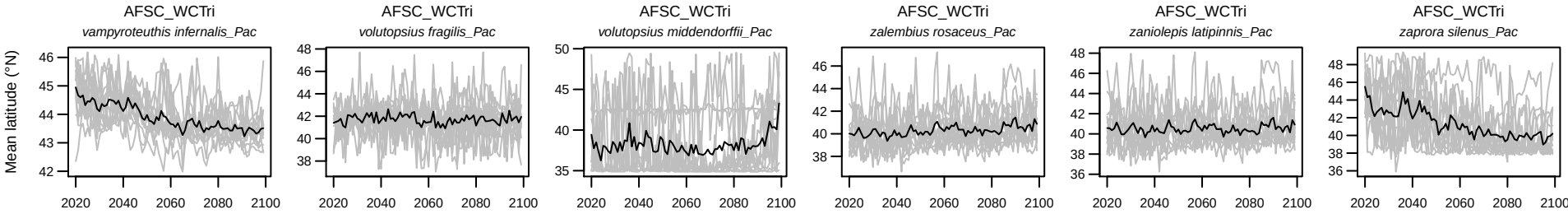
AFSC_WCTri
vampyroteuthis infernalis_Pac
AFSC_WCTri
volutopsius fragilis_Pac
AFSC_WCTri
volutopsius middendorffii_Pac
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zalembius rosaceus_Pac
AFSC_WCTri
zaniolepis latipinnis_Pac
AFSC_WCTri
zaprora silenus_Pac
Mean latitude (°N)
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2080
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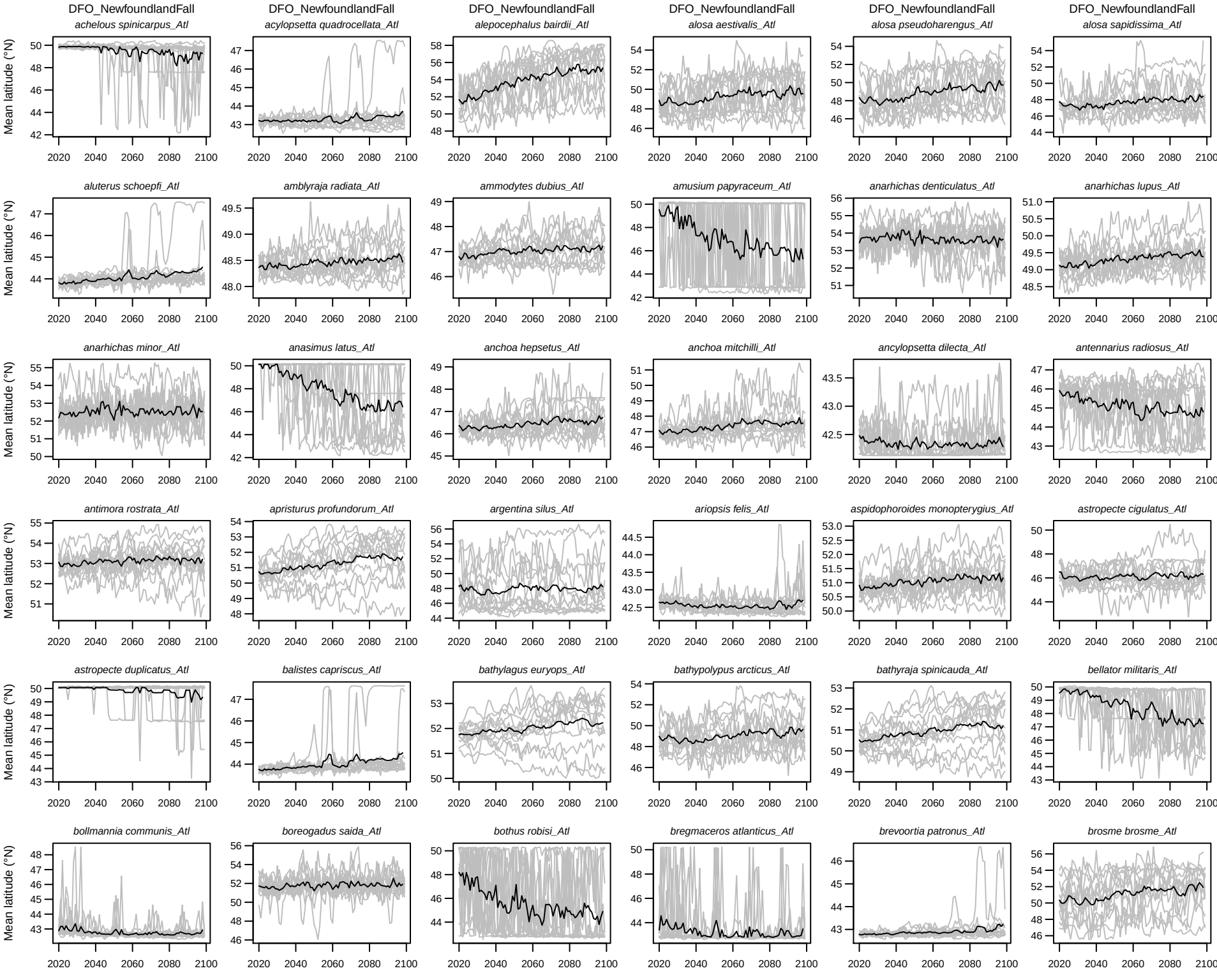
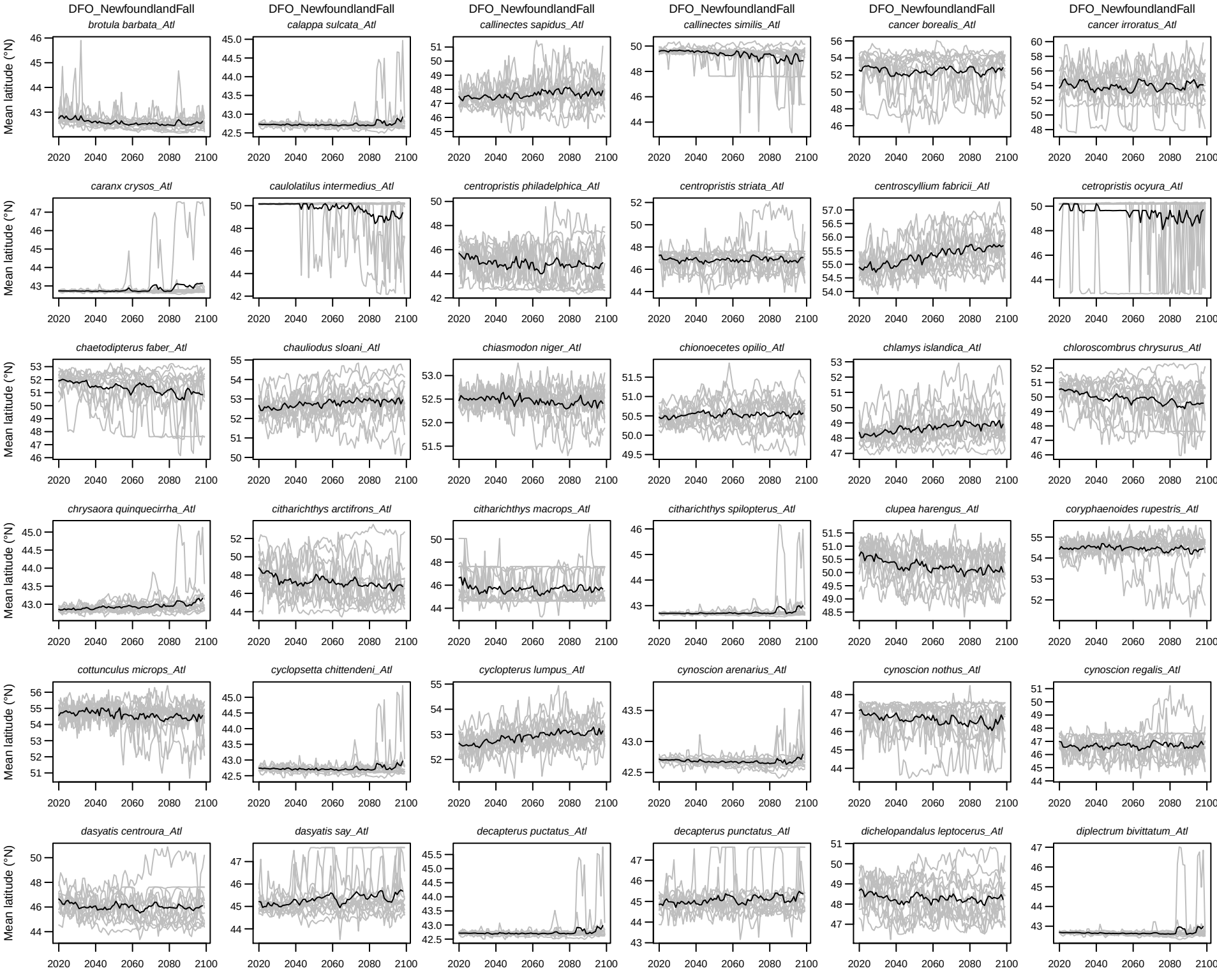

DFO_NewfoundlandFall
achelous spinicarpus_Atl
acylopsetta quadrocellata_Atl
alepocephalus bairdii_Atl
alosa aestivalis_Atl
alosa pseudoharengus_Atl
alosa sapidissima_Atl
aluterus schoepfi_Atl
amblyraja radiata_Atl
ammodytes dubius_Atl
amusium papyraceum_Atl
anarhichas denticulatus_Atl
anarhichas lupus_Atl
anarhichas minor_Atl
anasimus latus_Atl
anchoa hepsetus_Atl
anchoa mitchilli_Atl
ancylopsetta dilecta_Atl
antennarius radiosus_Atl
antimora rostrata_Atl
apristurus profundorum_Atl
argentina silus_Atl
ariopsis felis_Atl
aspidophoroides monopterygius_Atl
astropecte cigulatus_Atl
astropecte duplicatus_Atl
balistes capriscus_Atl
bathylagus euryops_Atl
bathypolypus arcticus_Atl
bathyraja spinicauda_Atl
bellator militaris_Atl
bollmannia communis_Atl
boreogadus saida_Atl
bothus robisi_Atl
bregmaceros atlanticus_Atl
brevoortia patronus_Atl
brosme brosme_Atl
Mean latitude (°N)


DFO_NewfoundlandFall
brotula barbata_Atl
calappa sulcata_Atl
callinectes sapidus_Atl
callinectes similis_Atl
cancer borealis_Atl
cancer irroratus_Atl
caranx crysos_Atl
caulolatilus intermedius_Atl
centropristis philadelphica_Atl
centropristis striata_Atl
centroscyllium fabricii_Atl
cetropristis ocyura_Atl
chaetodipterus faber_Atl
chauliodus sloani_Atl
chiasmodon niger_Atl
chionoecetes opilio_Atl
chlamys islandica_Atl
chloroscombrus chrysurus_Atl
chrysaora quinquecirrha_Atl
citharichthys arctifrons_Atl
citharichthys macrops_Atl
citharichthys spilopterus_Atl
clupea harengus_Atl
coryphaenoides rupestris_Atl
cottunculus microps_Atl
cyclopsetta chittendeni_Atl
cyclopterus lumpus_Atl
cynoscion arenarius_Atl
cynoscion nothus_Atl
cynoscion regalis_Atl
dasyatis centroura_Atl
dasyatis say_Atl
decapterus puctatus_Atl
decapterus punctatus_Atl
dichelopandalus leptocerus_Atl
diplectrum bivittatum_Atl
Mean latitude (°N)
2020
2040
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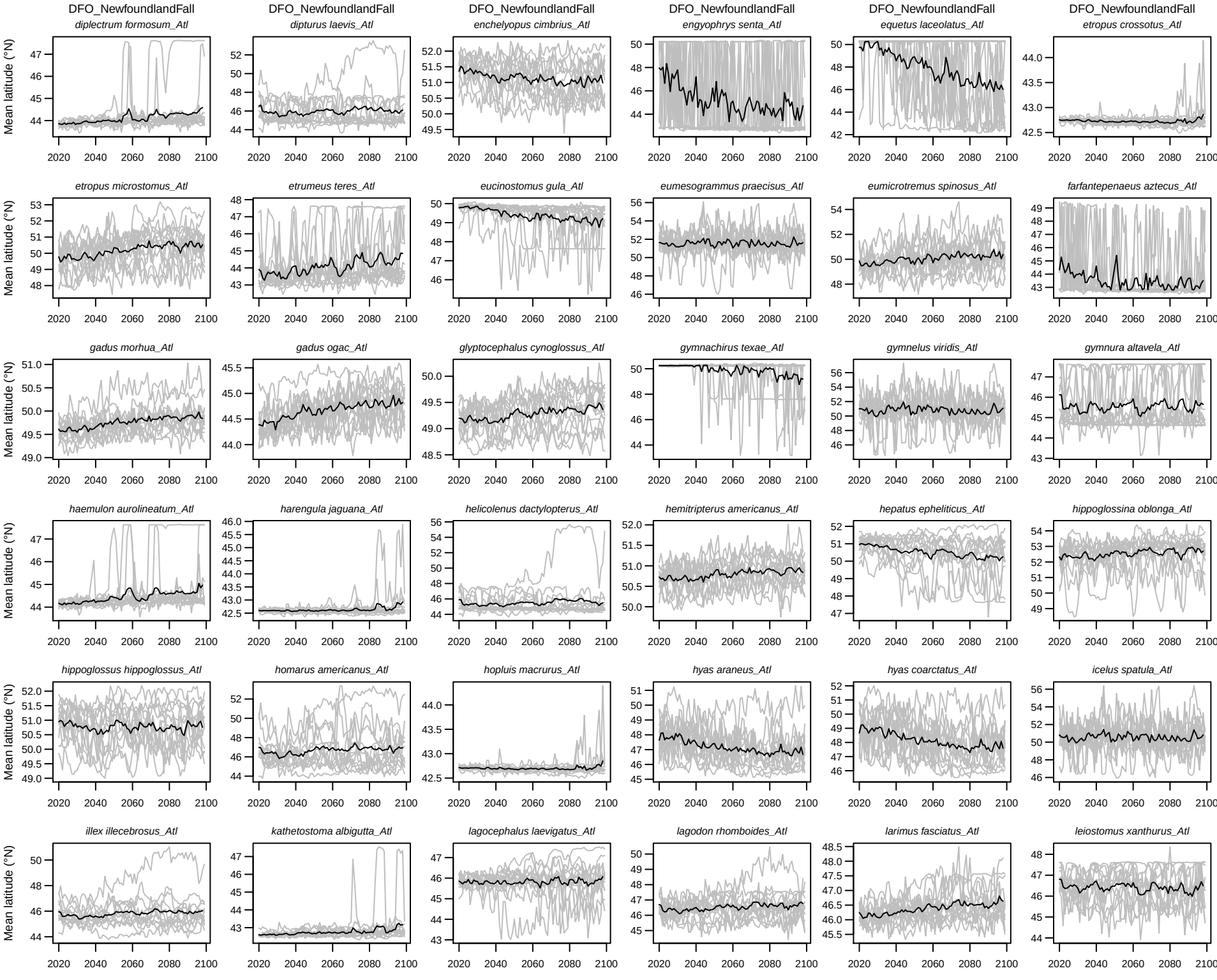
DFO_NewfoundlandFall
diplectrum formosum_Atl
dipturus laevis_Atl
enchelyopus cimbrius_Atl
engyophrys senta_Atl
equetus laceolatus_Atl
etropus crossotus_Atl
etropus microstomus_Atl
etrumeus teres_Atl
eucinostomus gula_Atl
eumesogrammus praecisus_Atl
eumicrotremus spinosus_Atl
farfantepenaeus aztecus_Atl
gadus morhua_Atl
gadus ogac_Atl
glyptocephalus cynoglossus_Atl
gymnachirus texae_Atl
gymnelus viridis_Atl
gymnura altavela_Atl
haemulon aurolineatum_Atl
harengula jaguana_Atl
helicolenus dactylopterus_Atl
hemitripterus americanus_Atl
hepatus epheliticus_Atl
hippoglossina oblonga_Atl
hippoglossus hippoglossus_Atl
homarus americanus_Atl
hopluis macrurus_Atl
hyas araneus_Atl
hyas coarctatus_Atl
icelus spatula_Atl
illex illecebrosus_Atl
kathetostoma albigutta_Atl
lagocephalus laevigatus_Atl
lagodon rhomboides_Atl
larimus fasciatus_Atl
leiostomus xanthurus_Atl
Mean latitude (°N)
2020
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2080
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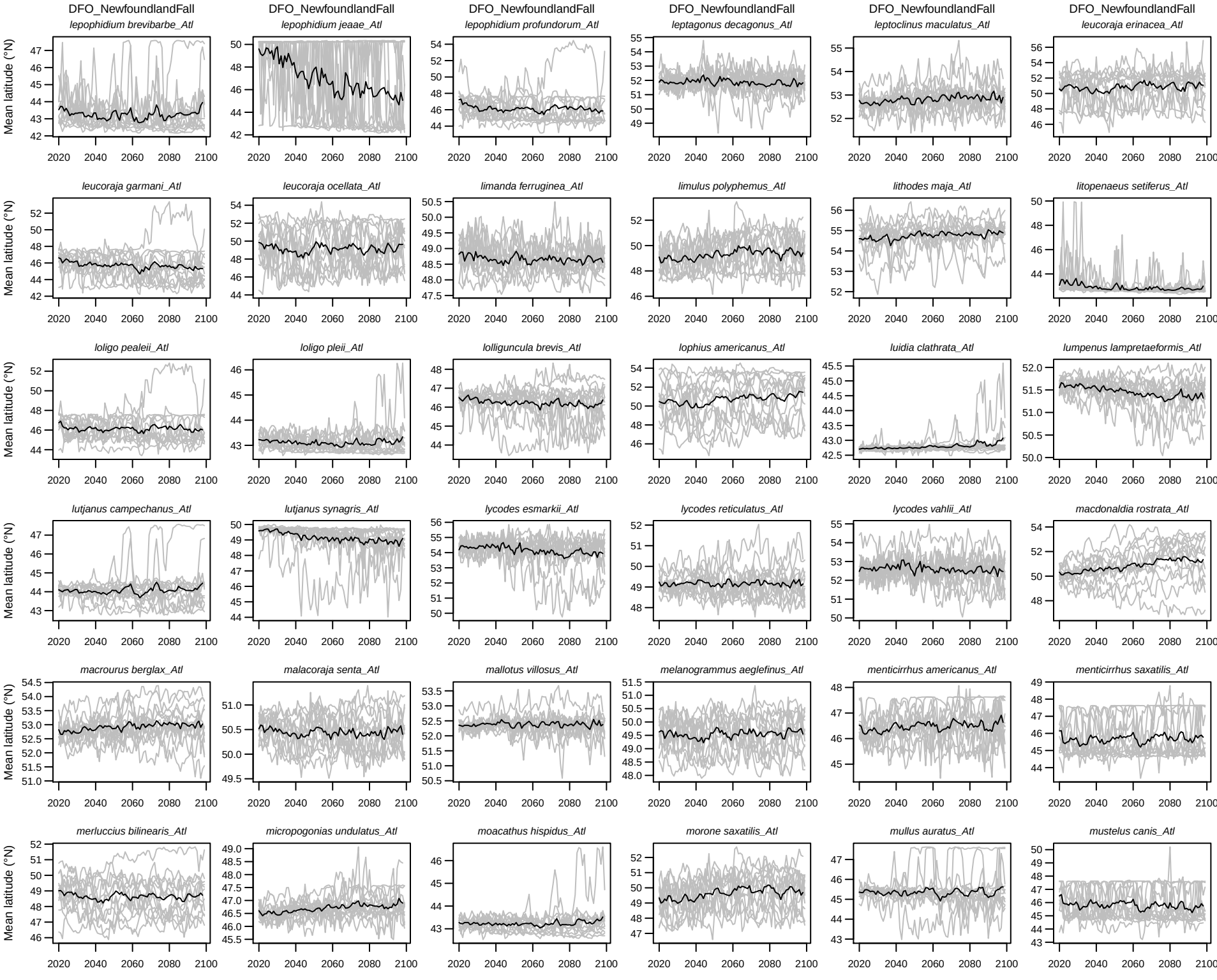
DFO_NewfoundlandFall
lepophidium brevibarbe_Atl
lepophidium jeaae_Atl
lepophidium profundorum_Atl
leptagonus decagonus_Atl
leptoclinus maculatus_Atl
leucoraja erinacea_Atl
leucoraja garmani_Atl
leucoraja ocellata_Atl
limanda ferruginea_Atl
limulus polyphemus_Atl
lithodes maja_Atl
litopenaeus setiferus_Atl
loligo pealeii_Atl
loligo pleii_Atl
lolliguncula brevis_Atl
lophius americanus_Atl
luidia clathrata_Atl
lumpenus lampretaeformis_Atl
lutjanus campechanus_Atl
lutjanus synagris_Atl
lycodes esmarkii_Atl
lycodes reticulatus_Atl
lycodes vahlii_Atl
macdonaldia rostrata_Atl
macrourus berglax_Atl
malacoraja senta_Atl
mallotus villosus_Atl
melanogrammus aeglefinus_Atl
menticirrhus americanus_Atl
menticirrhus saxatilis_Atl
merluccius bilinearis_Atl
micropogonias undulatus_Atl
moacathus hispidus_Atl
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mustelus canis_Atl
Mean latitude (°N)
2020
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2080
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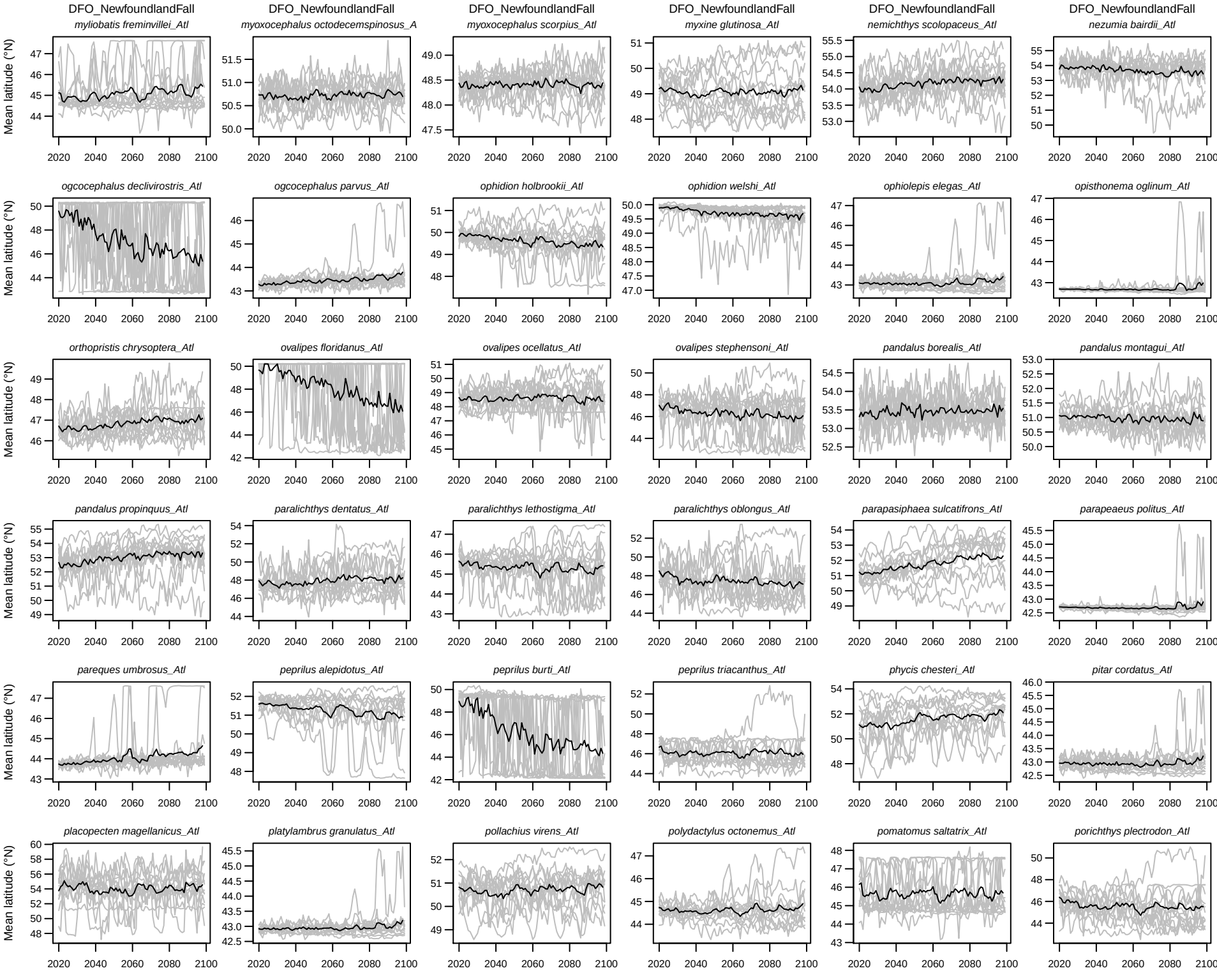
DFO_NewfoundlandFall
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nemichthys scolopaceus_Atl
nezumia bairdii_Atl
ogcocephalus declivirostris_Atl
ogcocephalus parvus_Atl
ophidion holbrookii_Atl
ophidion welshi_Atl
ophiolepis elegas_Atl
opisthonema oglinum_Atl
orthopristis chrysoptera_Atl
ovalipes floridanus_Atl
ovalipes ocellatus_Atl
ovalipes stephensoni_Atl
pandalus borealis_Atl
pandalus montagui_Atl
pandalus propinquus_Atl
paralichthys dentatus_Atl
paralichthys lethostigma_Atl
paralichthys oblongus_Atl
parapasiphaea sulcatifrons_Atl
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peprilus alepidotus_Atl
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peprilus triacanthus_Atl
phycis chesteri_Atl
pitar cordatus_Atl
placopecten magellanicus_Atl
platylambrus granulatus_Atl
pollachius virens_Atl
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Mean latitude (°N)
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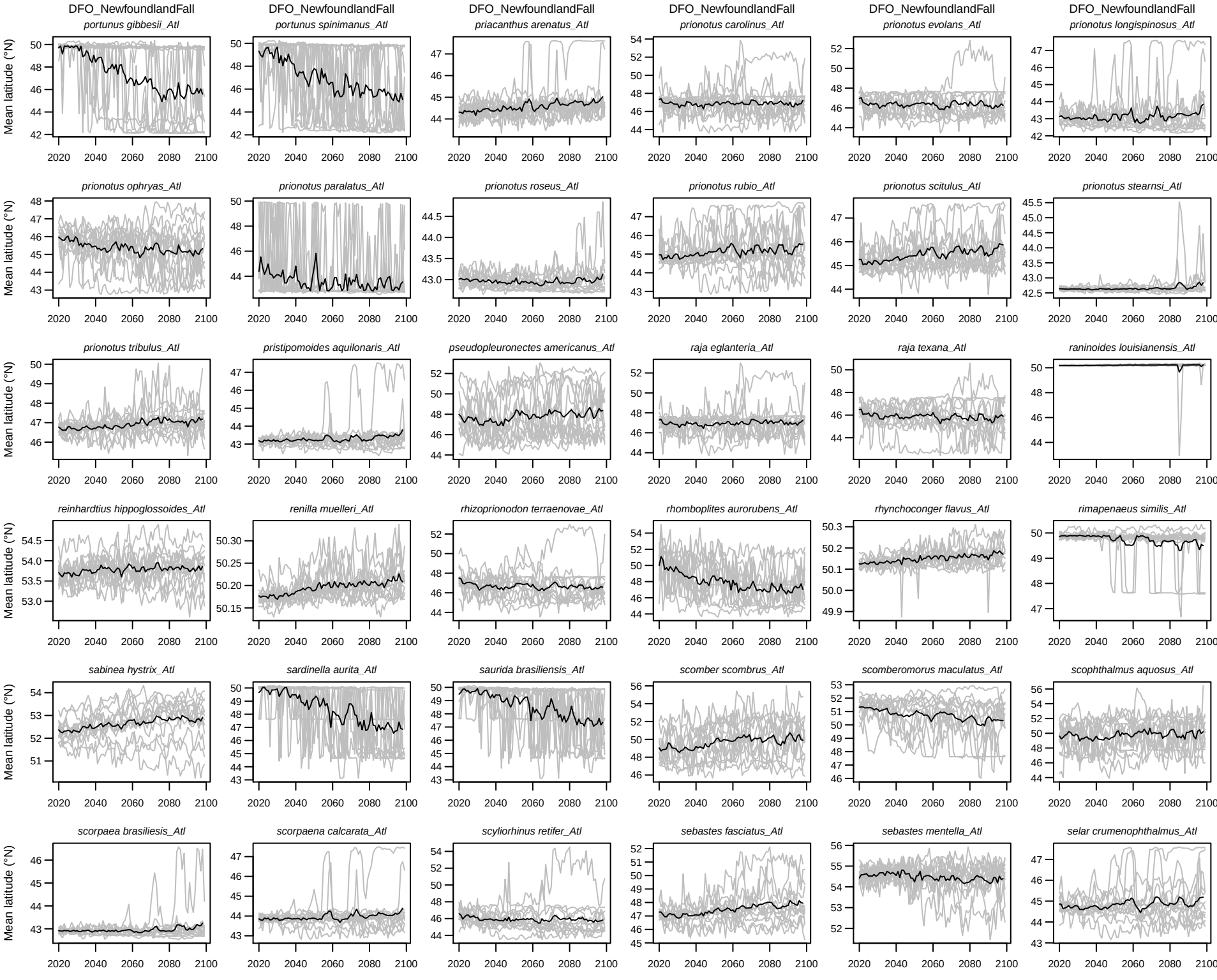
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prionotus longispinosus_Atl
prionotus ophryas_Atl
prionotus paralatus_Atl
prionotus roseus_Atl
prionotus rubio_Atl
prionotus scitulus_Atl
prionotus stearnsi_Atl
prionotus tribulus_Atl
pristipomoides aquilonaris_Atl
pseudopleuronectes americanus_Atl
raja eglanteria_Atl
raja texana_Atl
raninoides louisianensis_Atl
reinhardtius hippoglossoides_Atl
renilla muelleri_Atl
rhizoprionodon terraenovae_Atl
rhomboplites aurorubens_Atl
rhynchoconger flavus_Atl
rimapenaeus similis_Atl
sabinea hystrix_Atl
sardinella aurita_Atl
saurida brasiliensis_Atl
scomber scombrus_Atl
scomberomorus maculatus_Atl
scophthalmus aquosus_Atl
scorpaea brasiliesis_Atl
scorpaena calcarata_Atl
scyliorhinus retifer_Atl
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sebastes mentella_Atl
selar crumenophthalmus_Atl
Mean latitude (°N)
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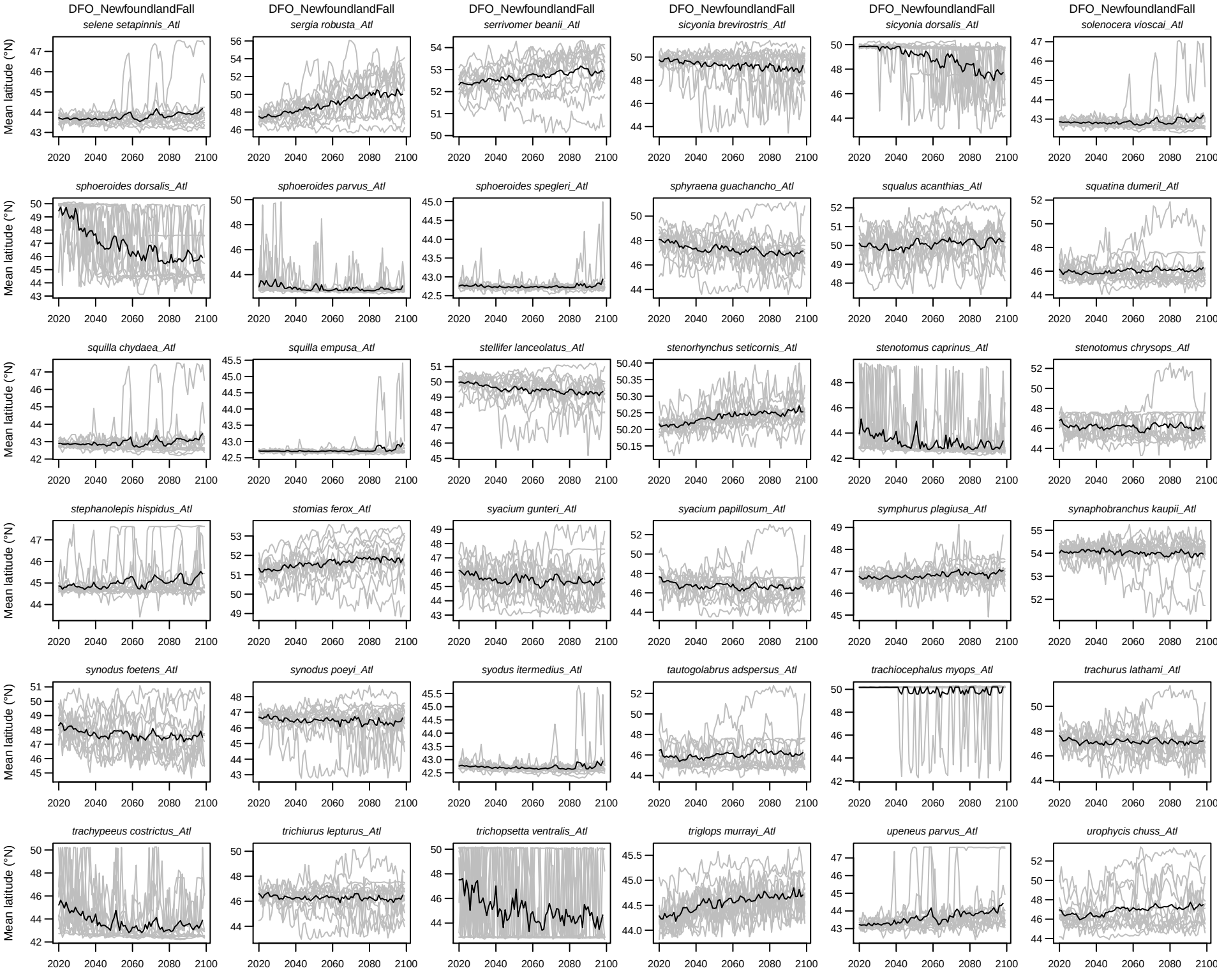
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serrivomer beanii_Atl
sicyonia brevirostris_Atl
sicyonia dorsalis_Atl
solenocera vioscai_Atl
sphoeroides dorsalis_Atl
sphoeroides parvus_Atl
sphoeroides spegleri_Atl
sphyraena guachancho_Atl
squalus acanthias_Atl
squatina dumeril_Atl
squilla chydaea_Atl
squilla empusa_Atl
stellifer lanceolatus_Atl
stenorhynchus seticornis_Atl
stenotomus caprinus_Atl
stenotomus chrysops_Atl
stephanolepis hispidus_Atl
stomias ferox_Atl
syacium gunteri_Atl
syacium papillosum_Atl
symphurus plagiusa_Atl
synaphobranchus kaupii_Atl
synodus foetens_Atl
synodus poeyi_Atl
syodus itermedius_Atl
tautogolabrus adspersus_Atl
trachiocephalus myops_Atl
trachurus lathami_Atl
trachypeeus costrictus_Atl
trichiurus lepturus_Atl
trichopsetta ventralis_Atl
triglops murrayi_Atl
upeneus parvus_Atl
urophycis chuss_Atl
Mean latitude (°N)
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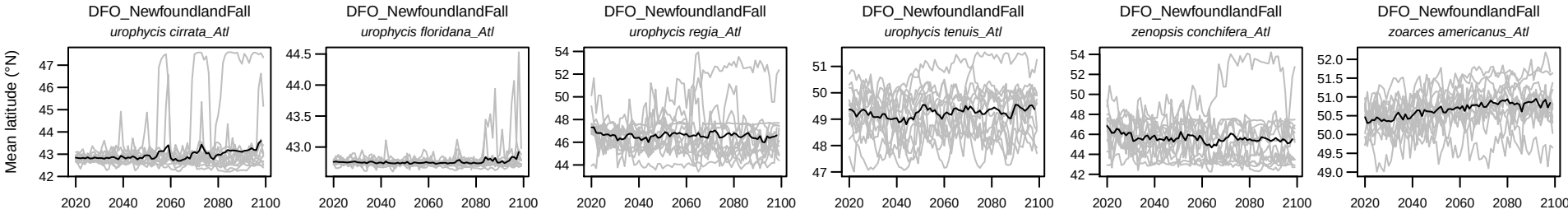
DFO_NewfoundlandFall
urophycis cirrata_Atl
urophycis floridana_Atl
urophycis regia_Atl
urophycis tenuis_Atl
zenopsis conchifera_Atl
zoarces americanus_Atl
Mean latitude (°N)
2020
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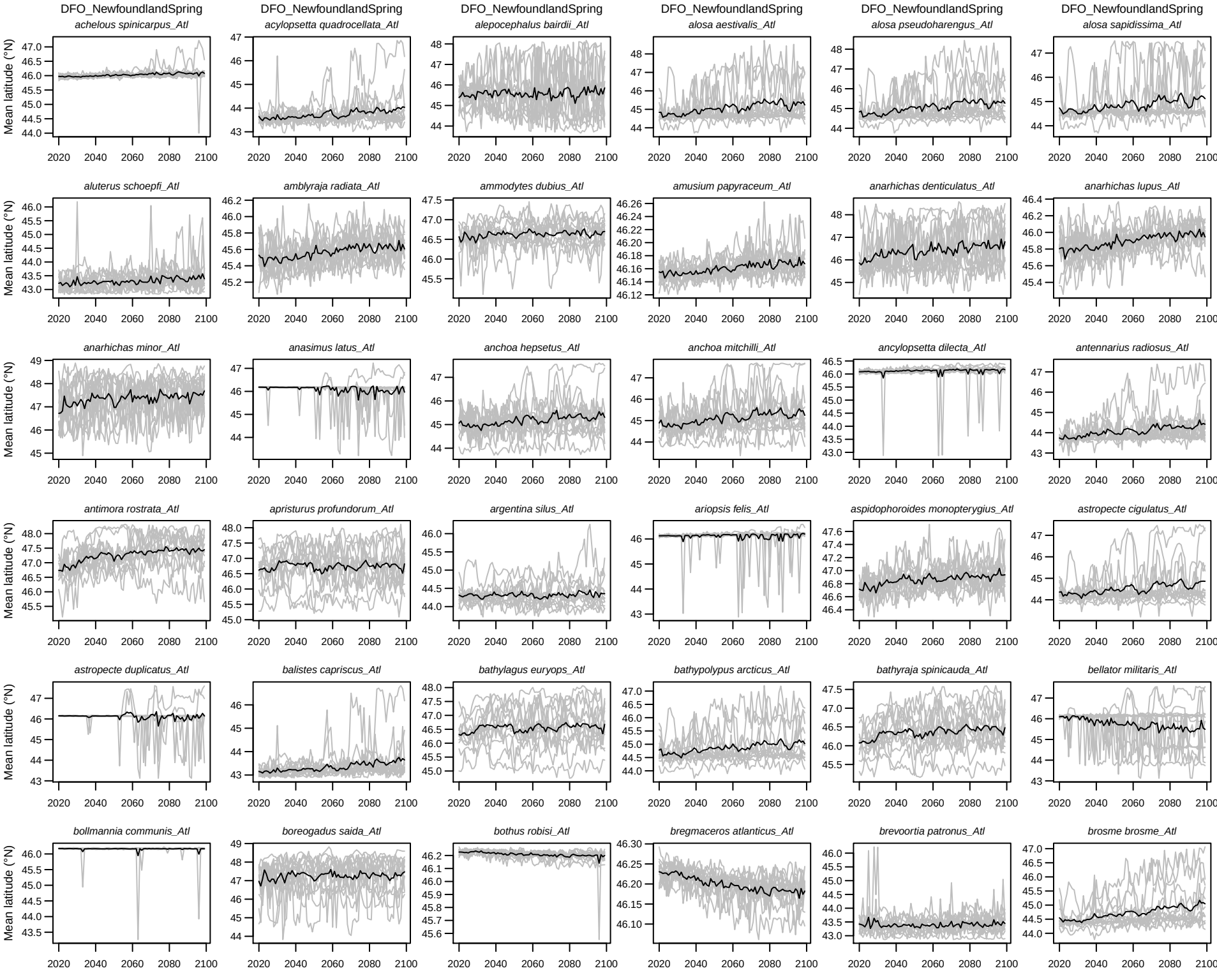
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acylopsetta quadrocellata_Atl
alepocephalus bairdii_Atl
alosa aestivalis_Atl
alosa pseudoharengus_Atl
alosa sapidissima_Atl
aluterus schoepfi_Atl
amblyraja radiata_Atl
ammodytes dubius_Atl
amusium papyraceum_Atl
anarhichas denticulatus_Atl
anarhichas lupus_Atl
anarhichas minor_Atl
anasimus latus_Atl
anchoa hepsetus_Atl
anchoa mitchilli_Atl
ancylopsetta dilecta_Atl
antennarius radiosus_Atl
antimora rostrata_Atl
apristurus profundorum_Atl
argentina silus_Atl
ariopsis felis_Atl
aspidophoroides monopterygius_Atl
astropecte cigulatus_Atl
astropecte duplicatus_Atl
balistes capriscus_Atl
bathylagus euryops_Atl
bathypolypus arcticus_Atl
bathyraja spinicauda_Atl
bellator militaris_Atl
bollmannia communis_Atl
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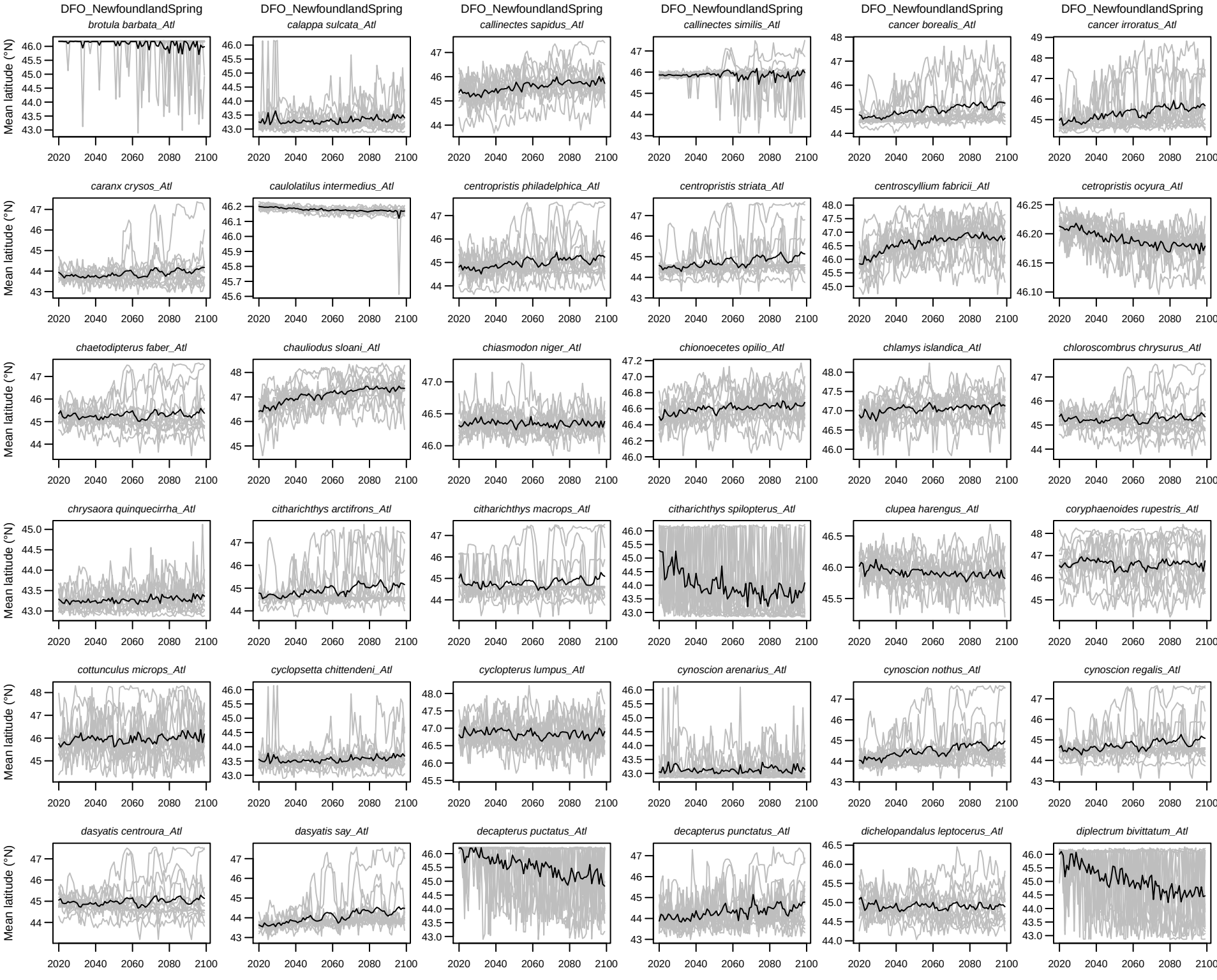
bothus robisi_Atl
bregmaceros atlanticus_Atl
brevoortia patronus_Atl
brosme brosme_Atl
Mean latitude (°N)


DFO_NewfoundlandSpring
brotula barbata_Atl
calappa sulcata_Atl
callinectes sapidus_Atl
callinectes similis_Atl
cancer borealis_Atl
cancer irroratus_Atl
caranx crysos_Atl
caulolatilus intermedius_Atl
centropristis philadelphica_Atl
centropristis striata_Atl
centroscyllium fabricii_Atl
cetropristis ocyura_Atl
chaetodipterus faber_Atl
chauliodus sloani_Atl
chiasmodon niger_Atl
chionoecetes opilio_Atl
chlamys islandica_Atl
chloroscombrus chrysurus_Atl
chrysaora quinquecirrha_Atl
citharichthys arctifrons_Atl
citharichthys macrops_Atl
citharichthys spilopterus_Atl
clupea harengus_Atl
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cottunculus microps_Atl
cyclopsetta chittendeni_Atl
cyclopterus lumpus_Atl
cynoscion arenarius_Atl
cynoscion nothus_Atl
cynoscion regalis_Atl
dasyatis centroura_Atl
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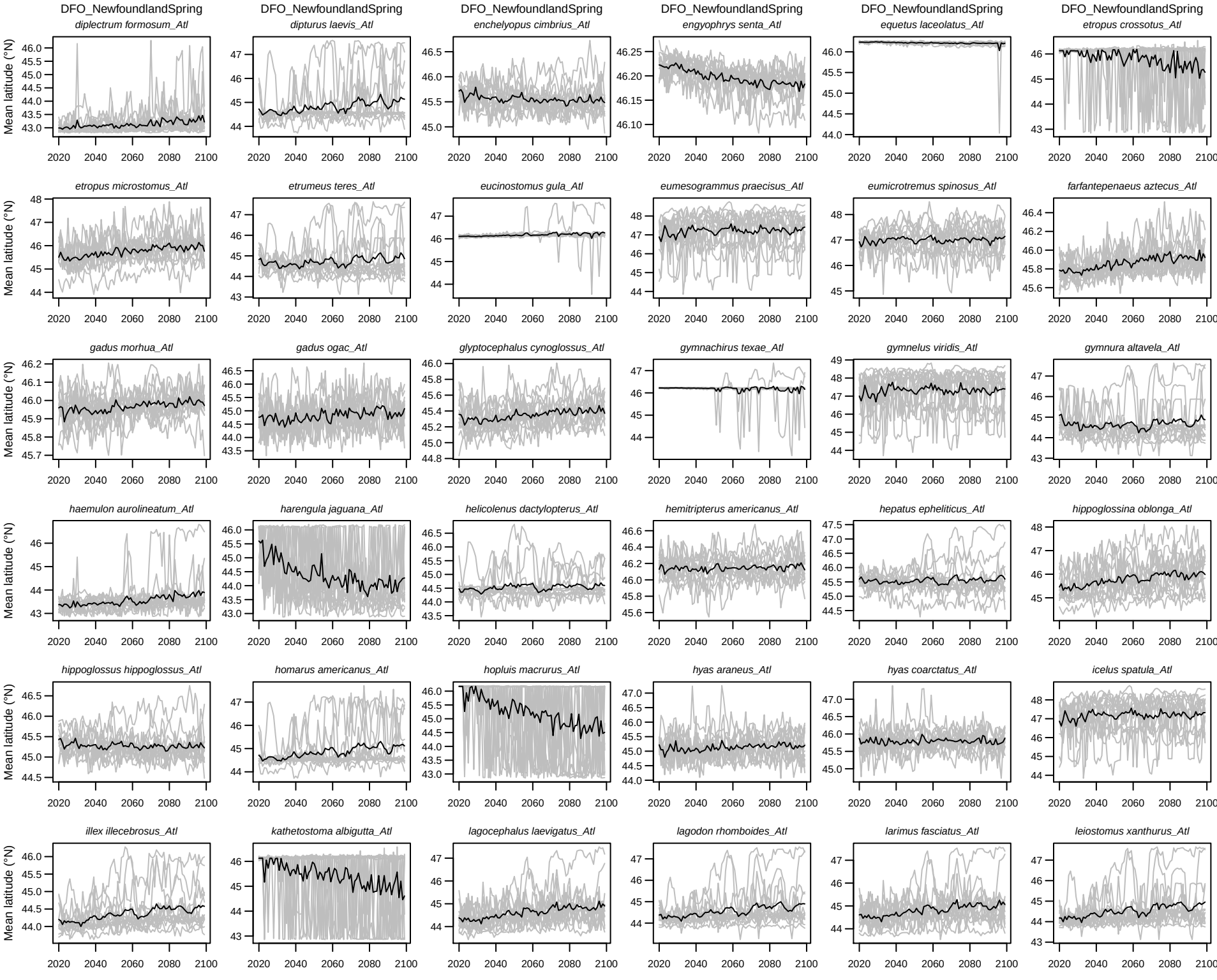
diplectrum bivittatum_Atl
Mean latitude (°N)


DFO_NewfoundlandSpring
diplectrum formosum_Atl
dipturus laevis_Atl
enchelyopus cimbrius_Atl
engyophrys senta_Atl
equetus laceolatus_Atl
etropus crossotus_Atl
etropus microstomus_Atl
etrumeus teres_Atl
eucinostomus gula_Atl
eumesogrammus praecisus_Atl
eumicrotremus spinosus_Atl
farfantepenaeus aztecus_Atl
gadus morhua_Atl
gadus ogac_Atl
glyptocephalus cynoglossus_Atl
gymnachirus texae_Atl
gymnelus viridis_Atl
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haemulon aurolineatum_Atl
harengula jaguana_Atl
helicolenus dactylopterus_Atl
hemitripterus americanus_Atl
hepatus epheliticus_Atl
hippoglossina oblonga_Atl
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homarus americanus_Atl
hopluis macrurus_Atl
hyas araneus_Atl
hyas coarctatus_Atl
icelus spatula_Atl
illex illecebrosus_Atl
kathetostoma albigutta_Atl
lagocephalus laevigatus_Atl
lagodon rhomboides_Atl
larimus fasciatus_Atl
leiostomus xanthurus_Atl
Mean latitude (°N)
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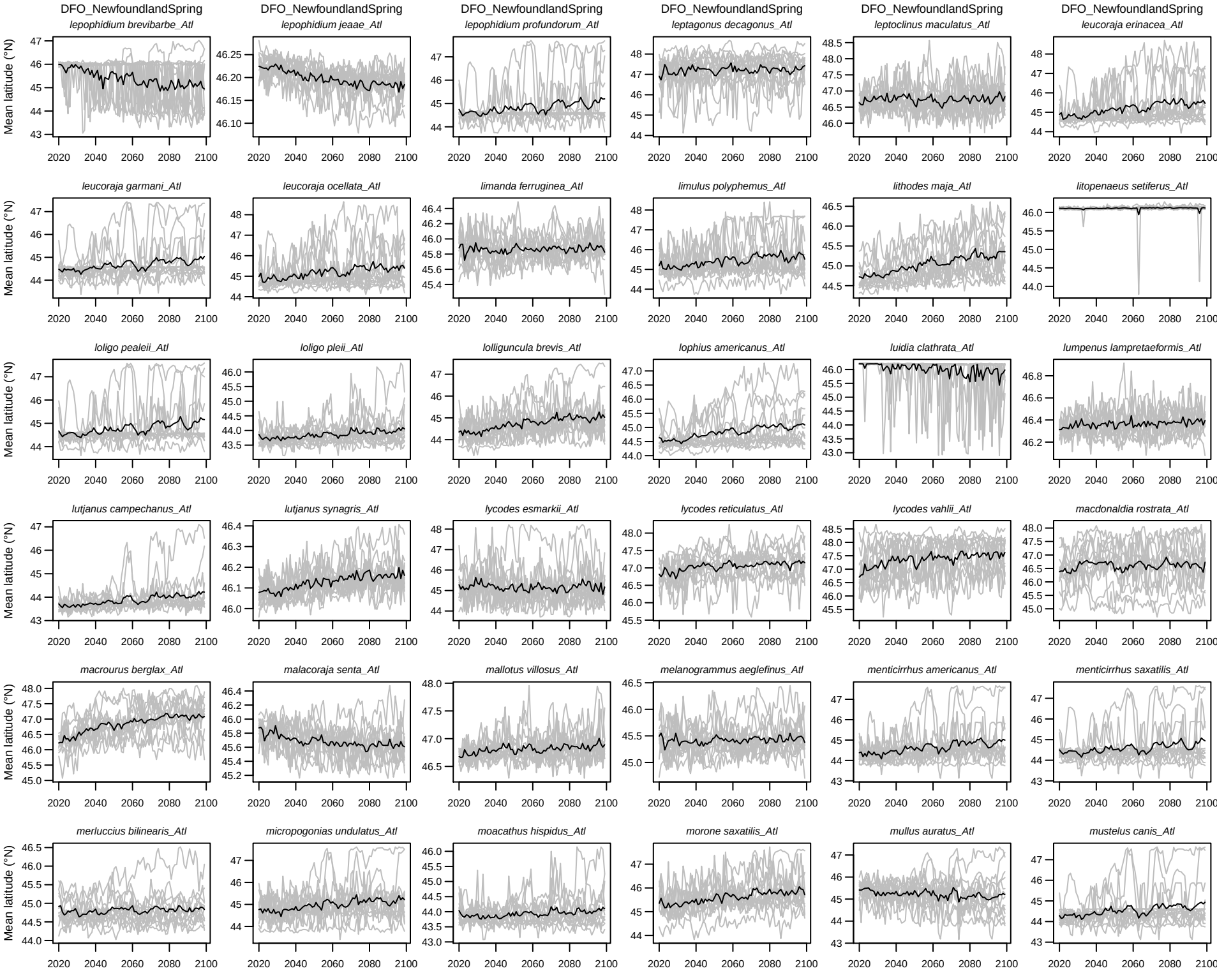
DFO_NewfoundlandSpring
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lepophidium jeaae_Atl
lepophidium profundorum_Atl
leptagonus decagonus_Atl
leptoclinus maculatus_Atl
leucoraja erinacea_Atl
leucoraja garmani_Atl
leucoraja ocellata_Atl
limanda ferruginea_Atl
limulus polyphemus_Atl
lithodes maja_Atl
litopenaeus setiferus_Atl
loligo pealeii_Atl
loligo pleii_Atl
lolliguncula brevis_Atl
lophius americanus_Atl
luidia clathrata_Atl
lumpenus lampretaeformis_Atl
lutjanus campechanus_Atl
lutjanus synagris_Atl
lycodes esmarkii_Atl
lycodes reticulatus_Atl
lycodes vahlii_Atl
macdonaldia rostrata_Atl
macrourus berglax_Atl
malacoraja senta_Atl
mallotus villosus_Atl
melanogrammus aeglefinus_Atl
menticirrhus americanus_Atl
menticirrhus saxatilis_Atl
merluccius bilinearis_Atl
micropogonias undulatus_Atl
moacathus hispidus_Atl
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mullus auratus_Atl
mustelus canis_Atl
Mean latitude (°N)
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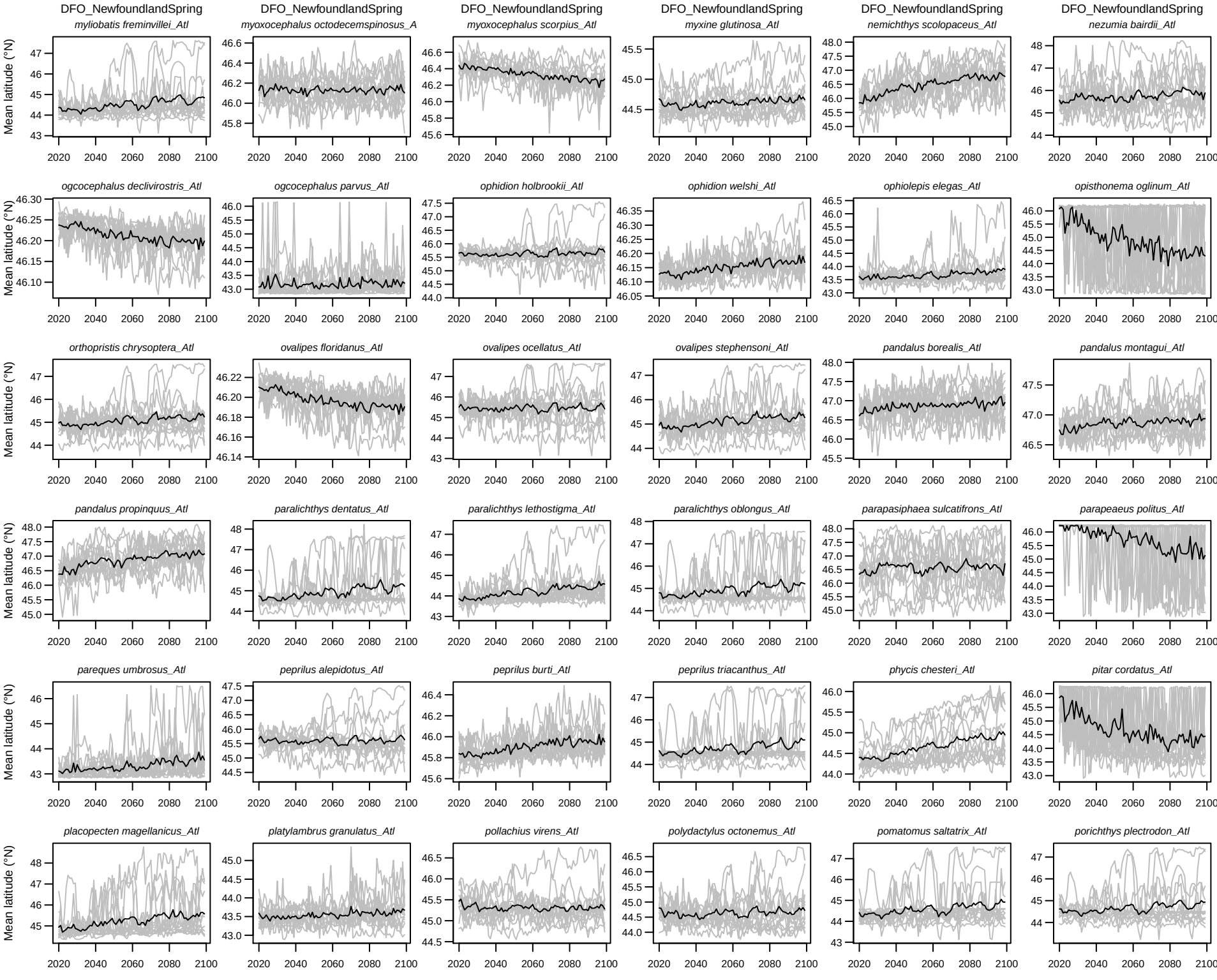
DFO_NewfoundlandSpring
myliobatis freminvillei_Atl
myoxocephalus octodecemspinosus_A
myoxocephalus scorpius_Atl
myxine glutinosa_Atl
nemichthys scolopaceus_Atl
nezumia bairdii_Atl
ogcocephalus declivirostris_Atl
ogcocephalus parvus_Atl
ophidion holbrookii_Atl
ophidion welshi_Atl
ophiolepis elegas_Atl
opisthonema oglinum_Atl
orthopristis chrysoptera_Atl
ovalipes floridanus_Atl
ovalipes ocellatus_Atl
ovalipes stephensoni_Atl
pandalus borealis_Atl
pandalus montagui_Atl
pandalus propinquus_Atl
paralichthys dentatus_Atl
paralichthys lethostigma_Atl
paralichthys oblongus_Atl
parapasiphaea sulcatifrons_Atl
parapeaeus politus_Atl
pareques umbrosus_Atl
peprilus alepidotus_Atl
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peprilus triacanthus_Atl
phycis chesteri_Atl
pitar cordatus_Atl
placopecten magellanicus_Atl
platylambrus granulatus_Atl
pollachius virens_Atl
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pomatomus saltatrix_Atl
porichthys plectrodon_Atl
Mean latitude (°N)
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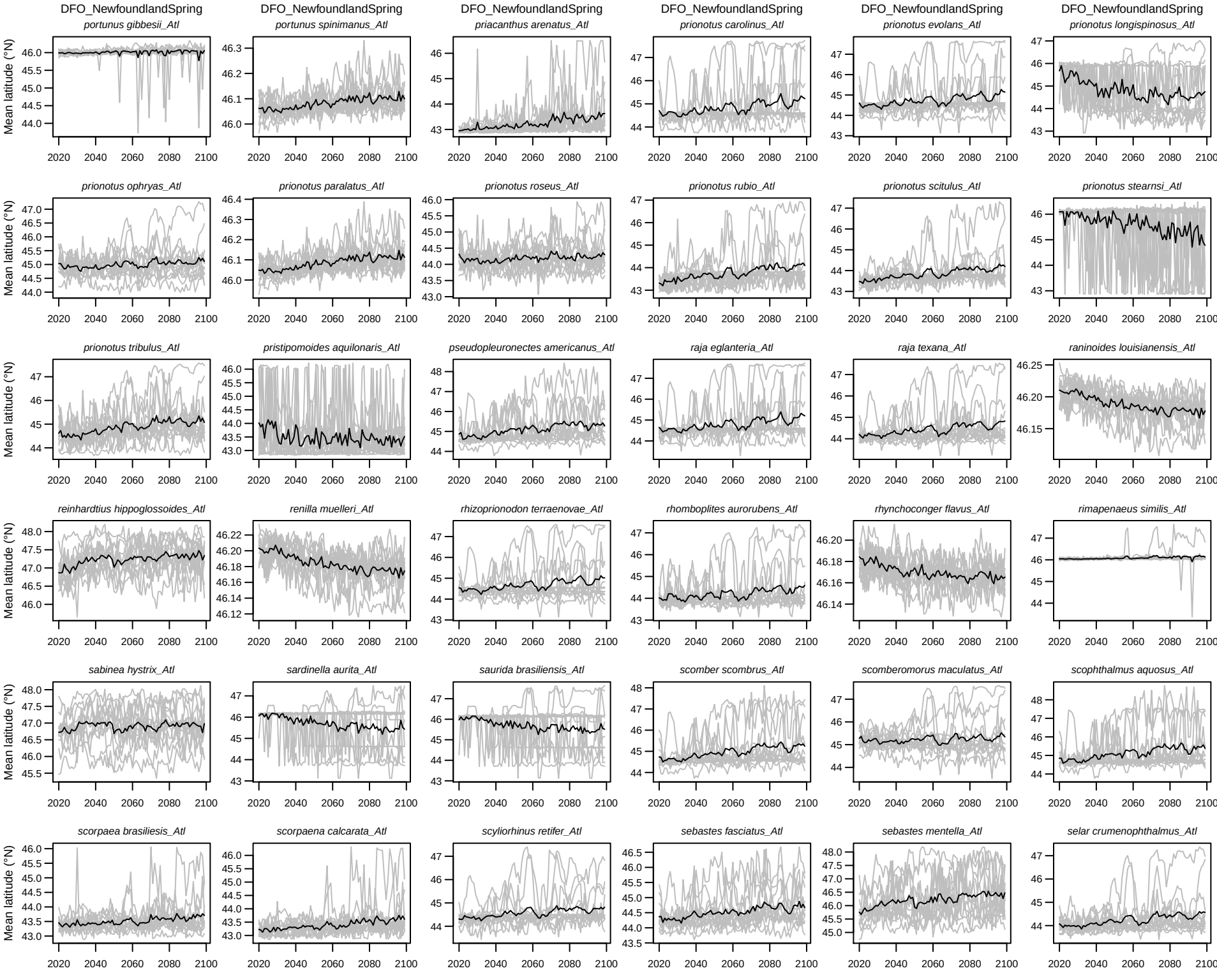
DFO_NewfoundlandSpring
portunus gibbesii_Atl
portunus spinimanus_Atl
priacanthus arenatus_Atl
prionotus carolinus_Atl
prionotus evolans_Atl
prionotus longispinosus_Atl
prionotus ophryas_Atl
prionotus paralatus_Atl
prionotus roseus_Atl
prionotus rubio_Atl
prionotus scitulus_Atl
prionotus stearnsi_Atl
prionotus tribulus_Atl
pristipomoides aquilonaris_Atl
pseudopleuronectes americanus_Atl
raja eglanteria_Atl
raja texana_Atl
raninoides louisianensis_Atl
reinhardtius hippoglossoides_Atl
renilla muelleri_Atl
rhizoprionodon terraenovae_Atl
rhomboplites aurorubens_Atl
rhynchoconger flavus_Atl
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sabinea hystrix_Atl
sardinella aurita_Atl
saurida brasiliensis_Atl
scomber scombrus_Atl
scomberomorus maculatus_Atl
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scorpaea brasiliesis_Atl
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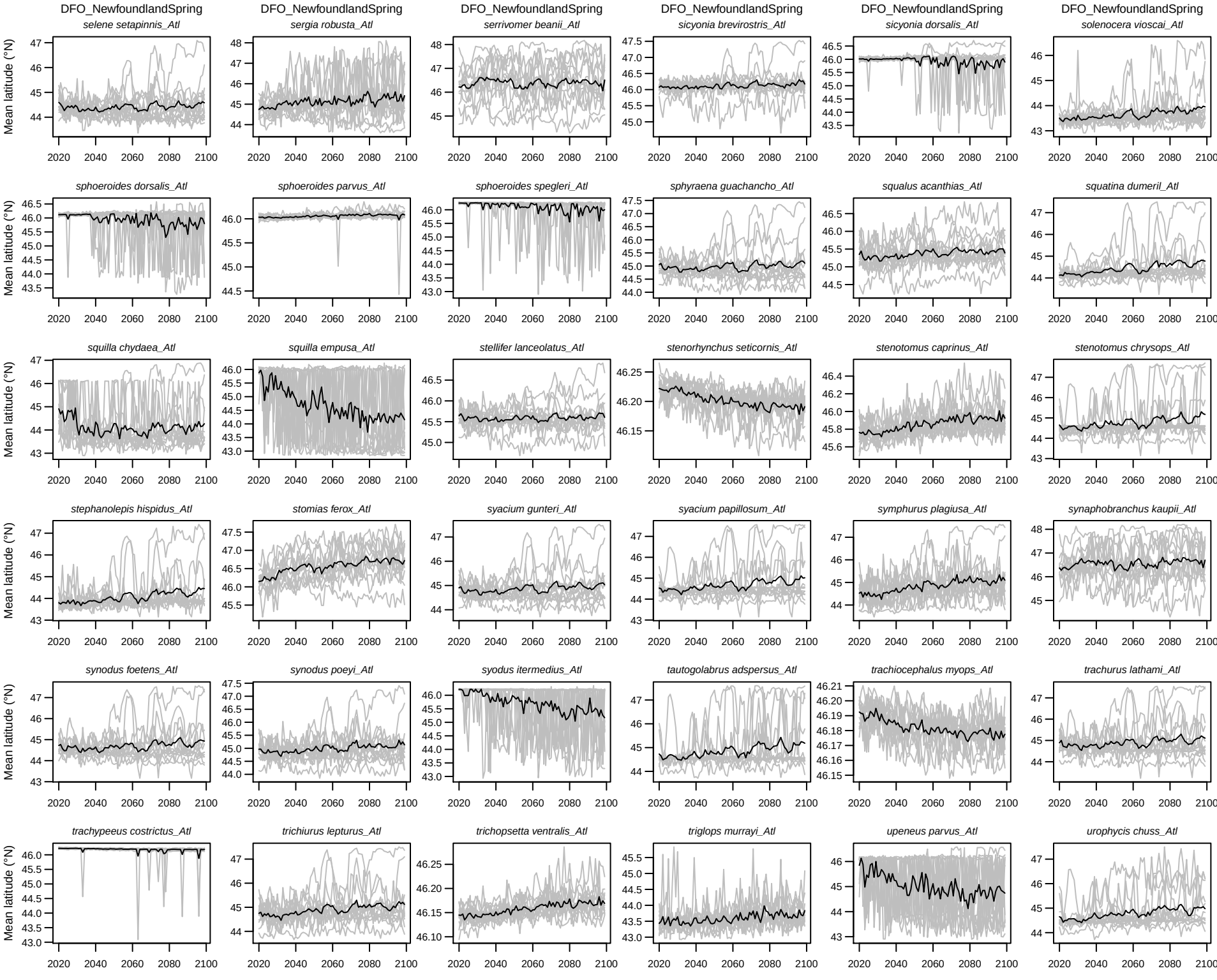
Mean latitude (°N)


DFO_NewfoundlandSpring
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sergia robusta_Atl
serrivomer beanii_Atl
sicyonia brevirostris_Atl
sicyonia dorsalis_Atl
solenocera vioscai_Atl
sphoeroides dorsalis_Atl
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squalus acanthias_Atl
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squilla empusa_Atl
stellifer lanceolatus_Atl
stenorhynchus seticornis_Atl
stenotomus caprinus_Atl
stenotomus chrysops_Atl
stephanolepis hispidus_Atl
stomias ferox_Atl
syacium gunteri_Atl
syacium papillosum_Atl
symphurus plagiusa_Atl
synaphobranchus kaupii_Atl
synodus foetens_Atl
synodus poeyi_Atl
syodus itermedius_Atl
tautogolabrus adspersus_Atl
trachiocephalus myops_Atl
trachurus lathami_Atl
trachypeeus costrictus_Atl
trichiurus lepturus_Atl
trichopsetta ventralis_Atl
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Mean latitude (°N)
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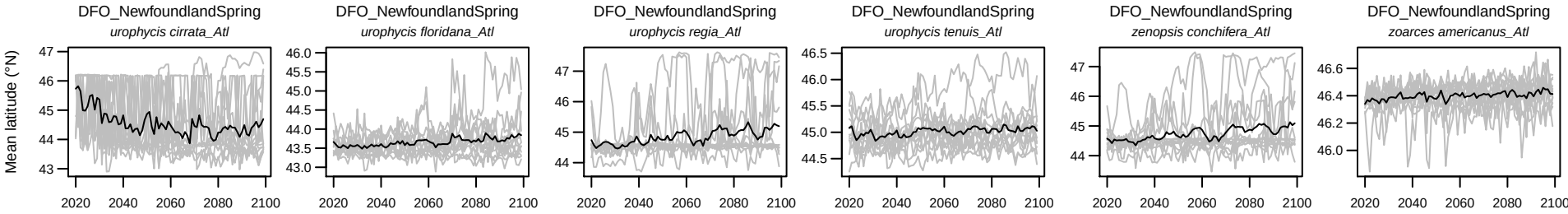
DFO_NewfoundlandSpring
urophycis cirrata_Atl
DFO_NewfoundlandSpring
urophycis floridana_Atl
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urophycis regia_Atl
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urophycis tenuis_Atl
DFO_NewfoundlandSpring
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DFO_NewfoundlandSpring
zoarces americanus_Atl
Mean latitude (°N)
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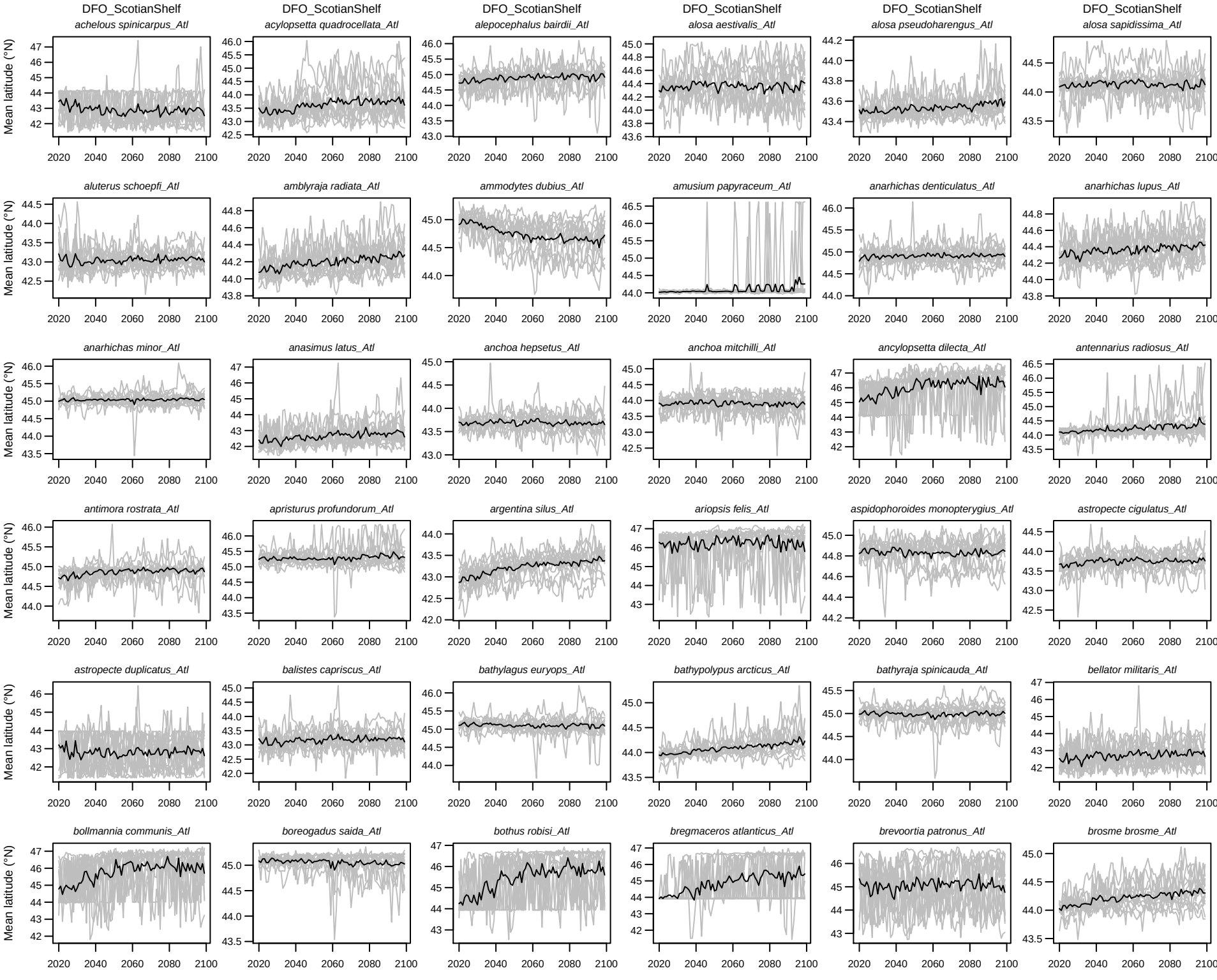
DFO_ScotianShelf
achelous spinicarpus_Atl
acylopsetta quadrocellata_Atl
alepocephalus bairdii_Atl
alosa aestivalis_Atl
alosa pseudoharengus_Atl
alosa sapidissima_Atl
aluterus schoepfi_Atl
amblyraja radiata_Atl
ammodytes dubius_Atl
amusium papyraceum_Atl
anarhichas denticulatus_Atl
anarhichas lupus_Atl
anarhichas minor_Atl
anasimus latus_Atl
anchoa hepsetus_Atl
anchoa mitchilli_Atl
ancylopsetta dilecta_Atl
antennarius radiosus_Atl
antimora rostrata_Atl
apristurus profundorum_Atl
argentina silus_Atl
ariopsis felis_Atl
aspidophoroides monopterygius_Atl
astropecte cigulatus_Atl
astropecte duplicatus_Atl
balistes capriscus_Atl
bathylagus euryops_Atl
bathypolypus arcticus_Atl
bathyraja spinicauda_Atl
bellator militaris_Atl
bollmannia communis_Atl
boreogadus saida_Atl
bothus robisi_Atl
bregmaceros atlanticus_Atl
brevoortia patronus_Atl
brosme brosme_Atl
Mean latitude (°N)
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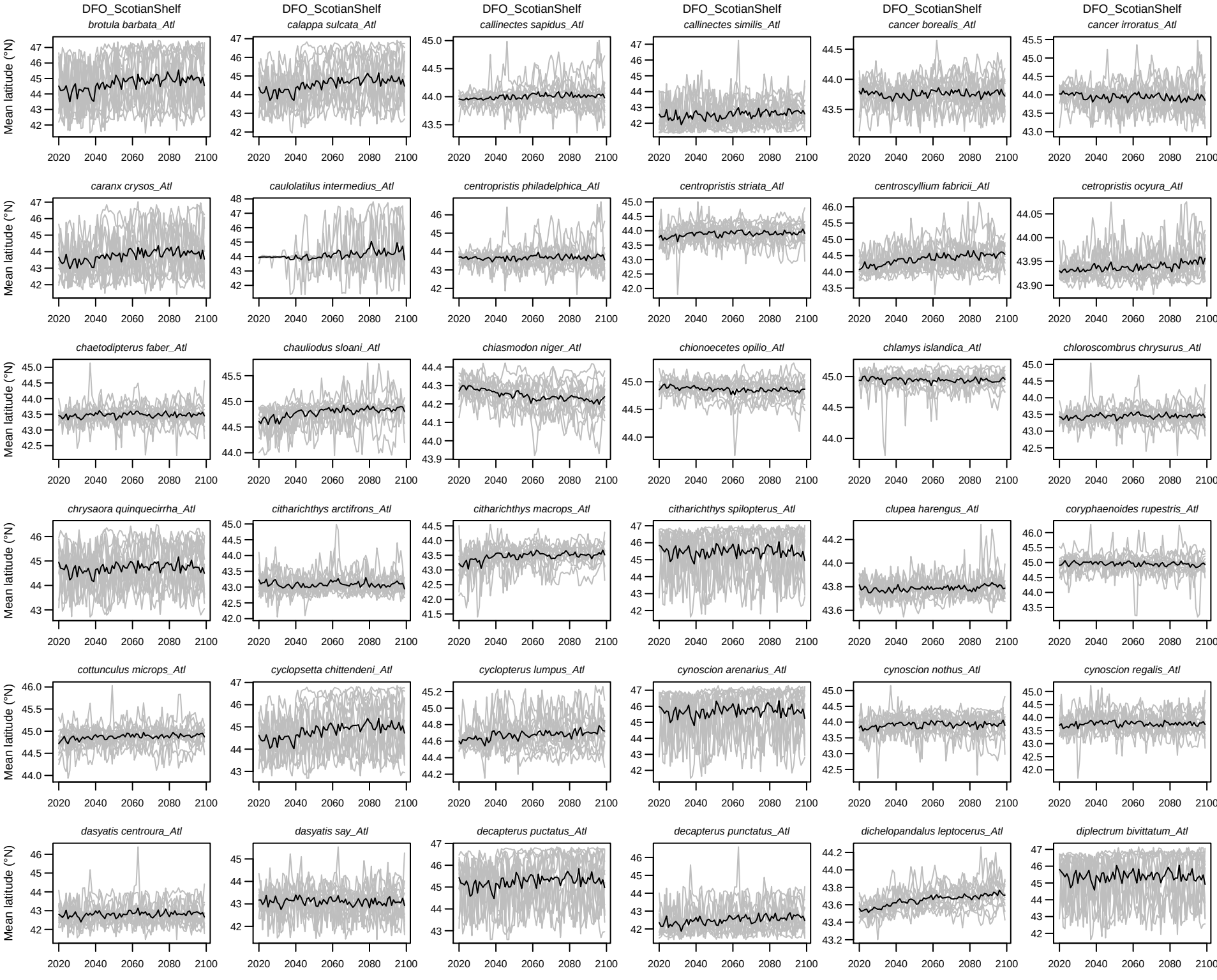
DFO_ScotianShelf
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calappa sulcata_Atl
callinectes sapidus_Atl
callinectes similis_Atl
cancer borealis_Atl
cancer irroratus_Atl
caranx crysos_Atl
caulolatilus intermedius_Atl
centropristis philadelphica_Atl
centropristis striata_Atl
centroscyllium fabricii_Atl
cetropristis ocyura_Atl
chaetodipterus faber_Atl
chauliodus sloani_Atl
chiasmodon niger_Atl
chionoecetes opilio_Atl
chlamys islandica_Atl
chloroscombrus chrysurus_Atl
chrysaora quinquecirrha_Atl
citharichthys arctifrons_Atl
citharichthys macrops_Atl
citharichthys spilopterus_Atl
clupea harengus_Atl
coryphaenoides rupestris_Atl
cottunculus microps_Atl
cyclopsetta chittendeni_Atl
cyclopterus lumpus_Atl
cynoscion arenarius_Atl
cynoscion nothus_Atl
cynoscion regalis_Atl
dasyatis centroura_Atl
dasyatis say_Atl
decapterus puctatus_Atl
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dichelopandalus leptocerus_Atl
diplectrum bivittatum_Atl
Mean latitude (°N)
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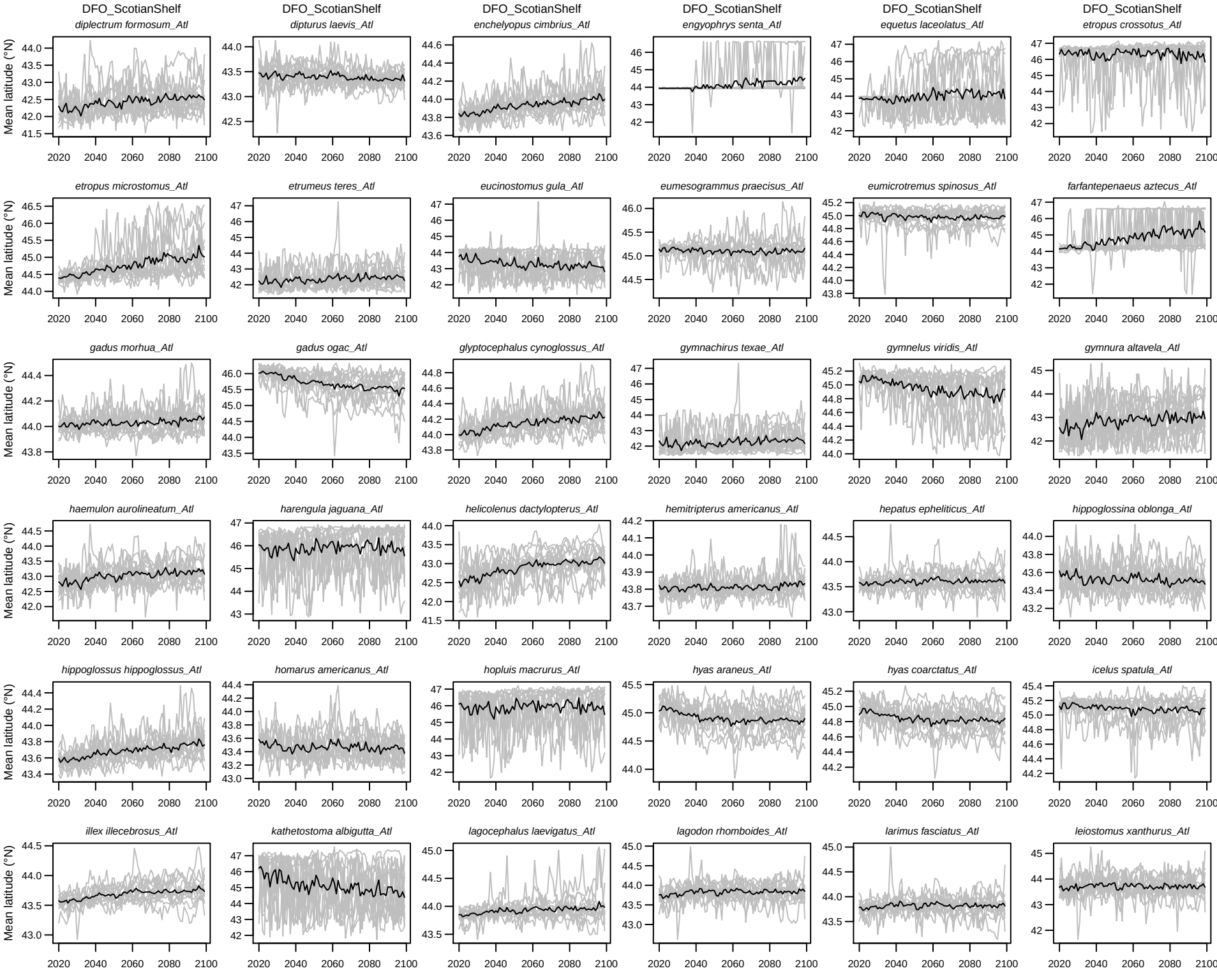
DFO_ScotianShelf
diplectrum formosum_Atl
dipturus laevis_Atl
enchelyopus cimbrius_Atl
engyophrys senta_Atl
equetus laceolatus_Atl
etropus crossotus_Atl
etropus microstomus_Atl
etrumeus teres_Atl
eucinostomus gula_Atl
eumesogrammus praecisus_Atl
eumicrotremus spinosus_Atl
farfantepenaeus aztecus_Atl
gadus morhua_Atl
gadus ogac_Atl
glyptocephalus cynoglossus_Atl
gymnachirus texae_Atl
gymnelus viridis_Atl
gymnura altavela_Atl
haemulon aurolineatum_Atl
harengula jaguana_Atl
helicolenus dactylopterus_Atl
hemitripterus americanus_Atl
hepatus epheliticus_Atl
hippoglossina oblonga_Atl
hippoglossus hippoglossus_Atl
homarus americanus_Atl
hopluis macrurus_Atl
hyas araneus_Atl
hyas coarctatus_Atl
icelus spatula_Atl
illex illecebrosus_Atl
kathetostoma albigutta_Atl
lagocephalus laevigatus_Atl
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larimus fasciatus_Atl
leiostomus xanthurus_Atl
Mean latitude (°N)
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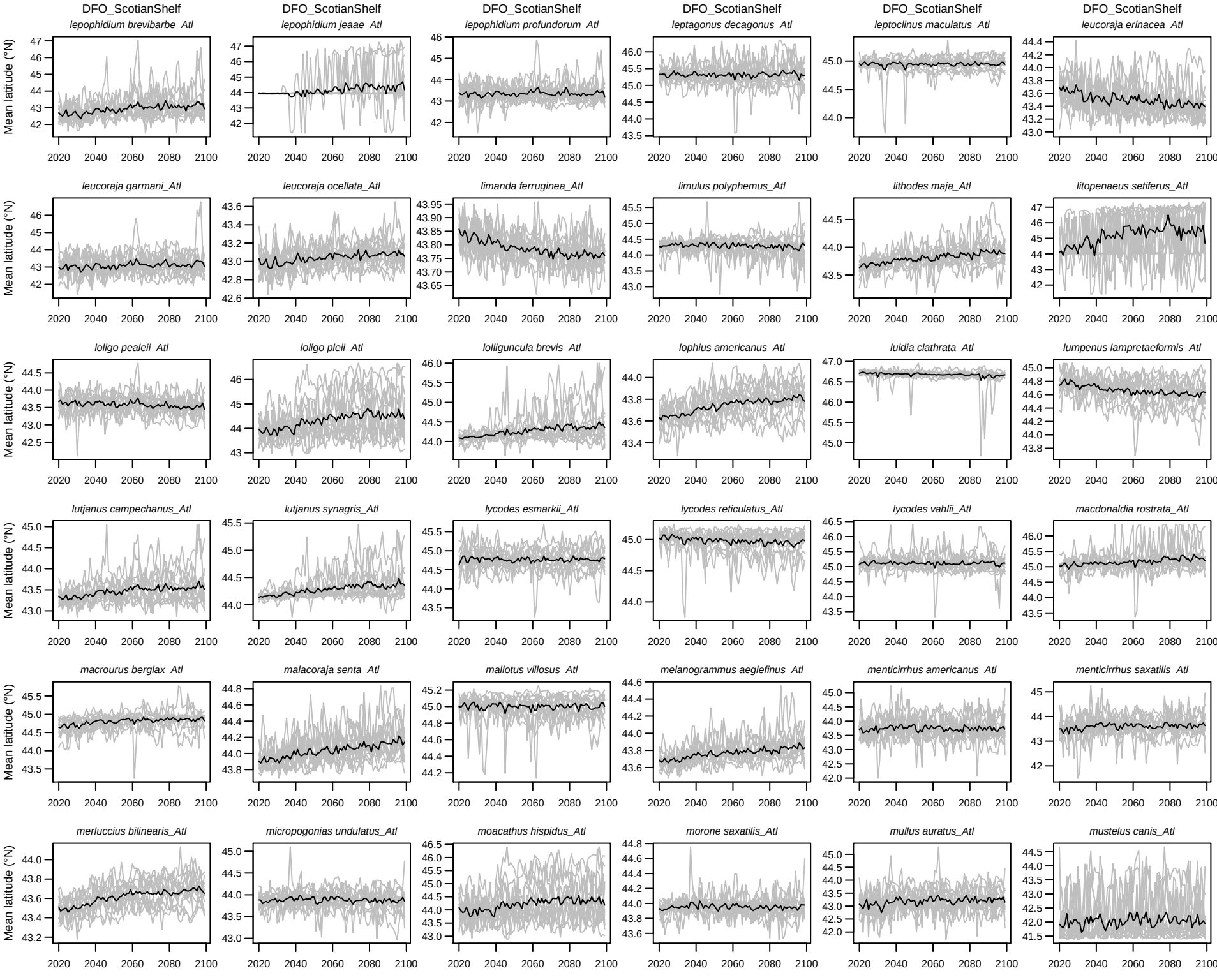
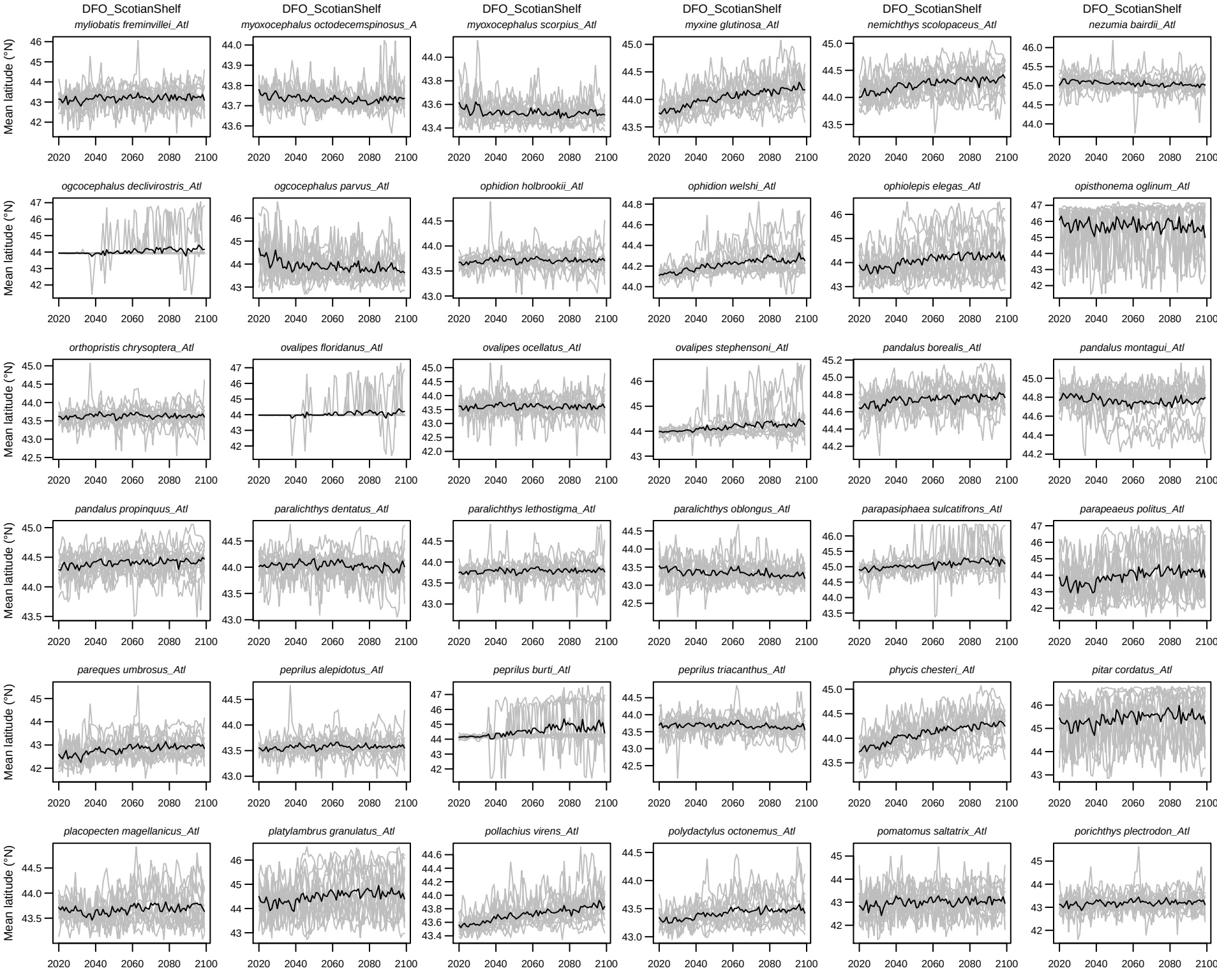

DFO_ScotianShelf
lepophidium brevibarbe_Atl
lepophidium jeaae_Atl
lepophidium profundorum_Atl
leptagonus decagonus_Atl
leptoclinus maculatus_Atl
leucoraja erinacea_Atl
leucoraja garmani_Atl
leucoraja ocellata_Atl
limanda ferruginea_Atl
limulus polyphemus_Atl
lithodes maja_Atl
litopenaeus setiferus_Atl
loligo pealeii_Atl
loligo pleii_Atl
lolliguncula brevis_Atl
lophius americanus_Atl
luidia clathrata_Atl
lumpenus lampretaeformis_Atl
lutjanus campechanus_Atl
lutjanus synagris_Atl
lycodes esmarkii_Atl
lycodes reticulatus_Atl
lycodes vahlii_Atl
macdonaldia rostrata_Atl
macrourus berglax_Atl
malacoraja senta_Atl
mallotus villosus_Atl
melanogrammus aeglefinus_Atl
menticirrhus americanus_Atl
menticirrhus saxatilis_Atl
merluccius bilinearis_Atl
micropogonias undulatus_Atl
moacathus hispidus_Atl
morone saxatilis_Atl
mullus auratus_Atl
mustelus canis_Atl
Mean latitude (°N)
2020
2040
2060
2080
2100


DFO_ScotianShelf
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myoxocephalus octodecemspinosus_A
myoxocephalus scorpius_Atl
myxine glutinosa_Atl
nemichthys scolopaceus_Atl
nezumia bairdii_Atl
ogcocephalus declivirostris_Atl
ogcocephalus parvus_Atl
ophidion holbrookii_Atl
ophidion welshi_Atl
ophiolepis elegas_Atl
opisthonema oglinum_Atl
orthopristis chrysoptera_Atl
ovalipes floridanus_Atl
ovalipes ocellatus_Atl
ovalipes stephensoni_Atl
pandalus borealis_Atl
pandalus montagui_Atl
pandalus propinquus_Atl
paralichthys dentatus_Atl
paralichthys lethostigma_Atl
paralichthys oblongus_Atl
parapasiphaea sulcatifrons_Atl
parapeaeus politus_Atl
pareques umbrosus_Atl
peprilus alepidotus_Atl
peprilus burti_Atl
peprilus triacanthus_Atl
phycis chesteri_Atl
pitar cordatus_Atl
placopecten magellanicus_Atl
platylambrus granulatus_Atl
pollachius virens_Atl
polydactylus octonemus_Atl
pomatomus saltatrix_Atl
porichthys plectrodon_Atl
Mean latitude (°N)
2020
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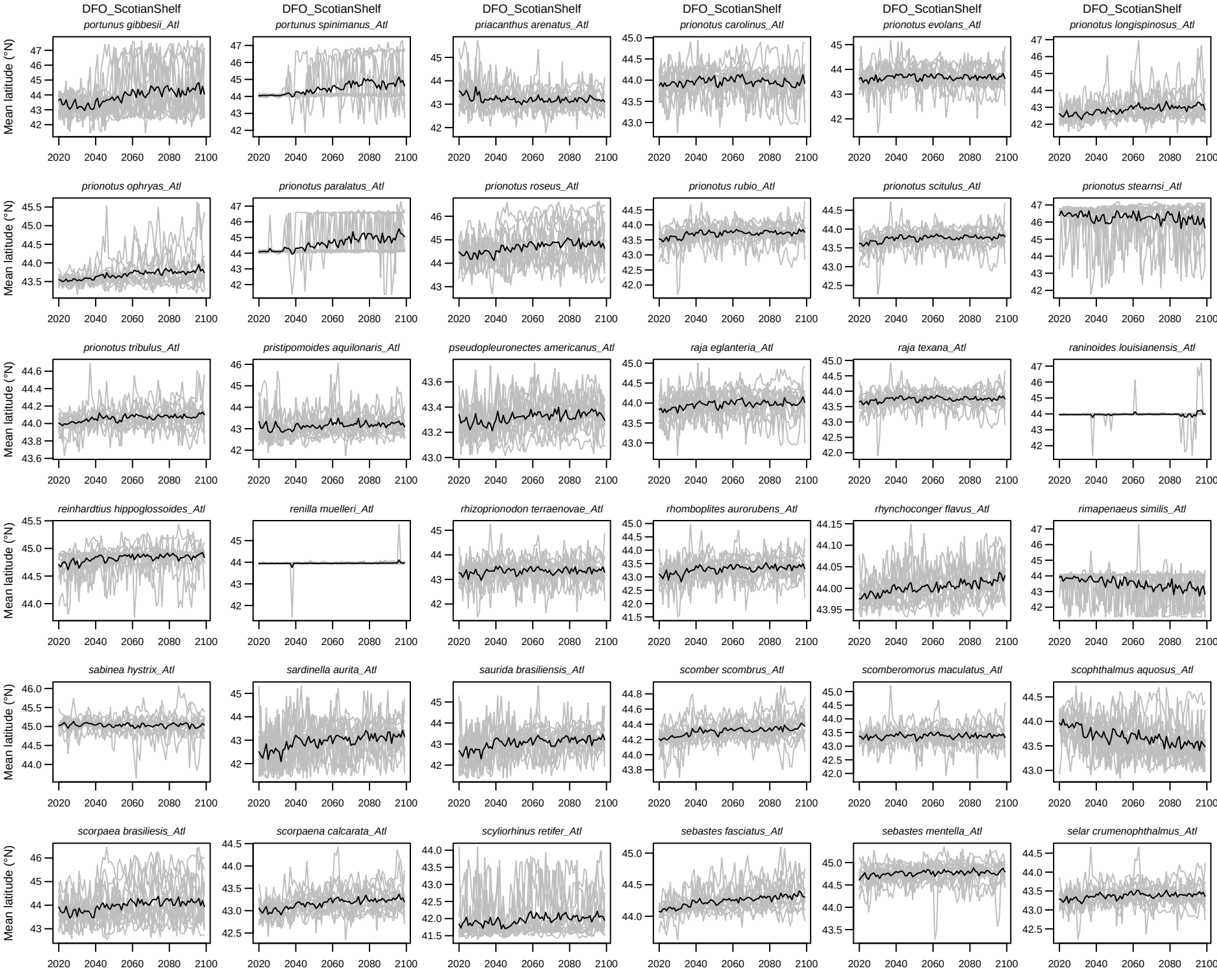
2060
2080
2100


DFO_ScotianShelf
portunus gibbesii_Atl
portunus spinimanus_Atl
priacanthus arenatus_Atl
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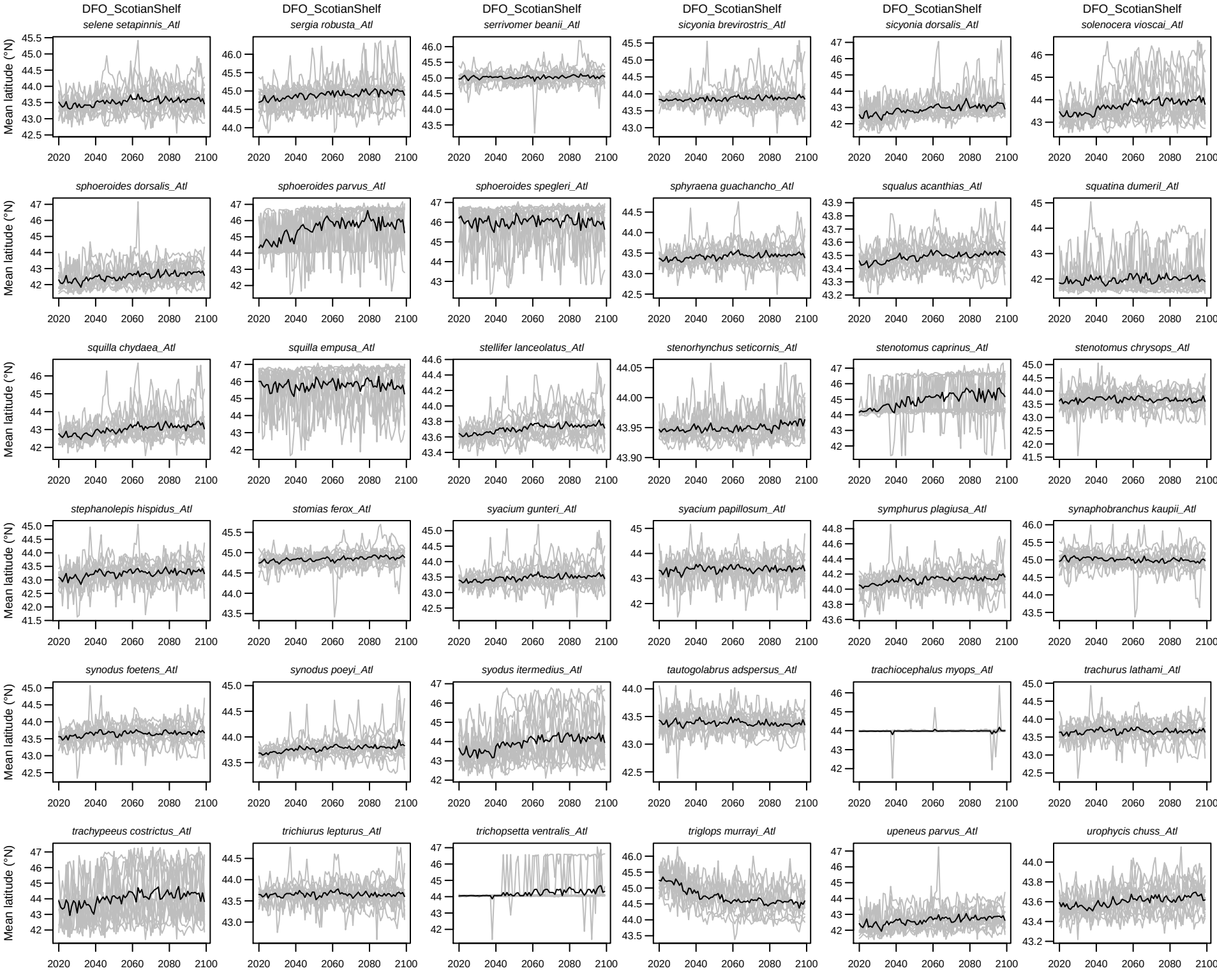
prionotus evolans_Atl
prionotus longispinosus_Atl
prionotus ophryas_Atl
prionotus paralatus_Atl
prionotus roseus_Atl
prionotus rubio_Atl
prionotus scitulus_Atl
prionotus stearnsi_Atl
prionotus tribulus_Atl
pristipomoides aquilonaris_Atl
pseudopleuronectes americanus_Atl
raja eglanteria_Atl
raja texana_Atl
raninoides louisianensis_Atl
reinhardtius hippoglossoides_Atl
renilla muelleri_Atl
rhizoprionodon terraenovae_Atl
rhomboplites aurorubens_Atl
rhynchoconger flavus_Atl
rimapenaeus similis_Atl
sabinea hystrix_Atl
sardinella aurita_Atl
saurida brasiliensis_Atl
scomber scombrus_Atl
scomberomorus maculatus_Atl
scophthalmus aquosus_Atl
scorpaea brasiliesis_Atl
scorpaena calcarata_Atl
scyliorhinus retifer_Atl
sebastes fasciatus_Atl
sebastes mentella_Atl
selar crumenophthalmus_Atl
Mean latitude (°N)


DFO_ScotianShelf
selene setapinnis_Atl
sergia robusta_Atl
serrivomer beanii_Atl
sicyonia brevirostris_Atl
sicyonia dorsalis_Atl
solenocera vioscai_Atl
sphoeroides dorsalis_Atl
sphoeroides parvus_Atl
sphoeroides spegleri_Atl
sphyraena guachancho_Atl
squalus acanthias_Atl
squatina dumeril_Atl
squilla chydaea_Atl
squilla empusa_Atl
stellifer lanceolatus_Atl
stenorhynchus seticornis_Atl
stenotomus caprinus_Atl
stenotomus chrysops_Atl
stephanolepis hispidus_Atl
stomias ferox_Atl
syacium gunteri_Atl
syacium papillosum_Atl
symphurus plagiusa_Atl
synaphobranchus kaupii_Atl
synodus foetens_Atl
synodus poeyi_Atl
syodus itermedius_Atl
tautogolabrus adspersus_Atl
trachiocephalus myops_Atl
trachurus lathami_Atl
trachypeeus costrictus_Atl
trichiurus lepturus_Atl
trichopsetta ventralis_Atl
triglops murrayi_Atl
upeneus parvus_Atl
urophycis chuss_Atl
Mean latitude (°N)
2020
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2060
2080
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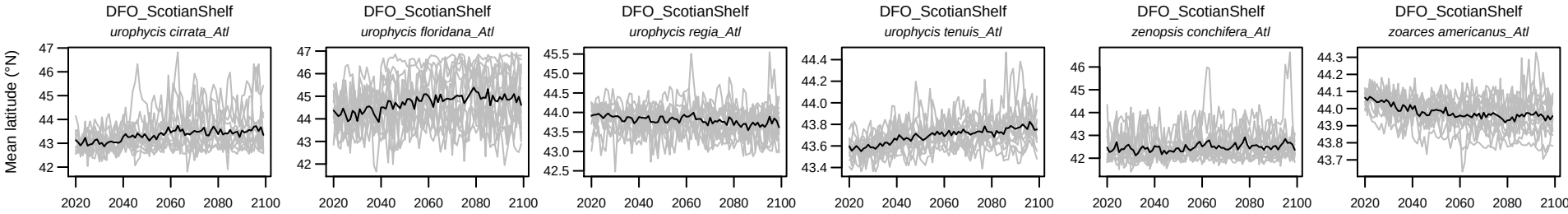
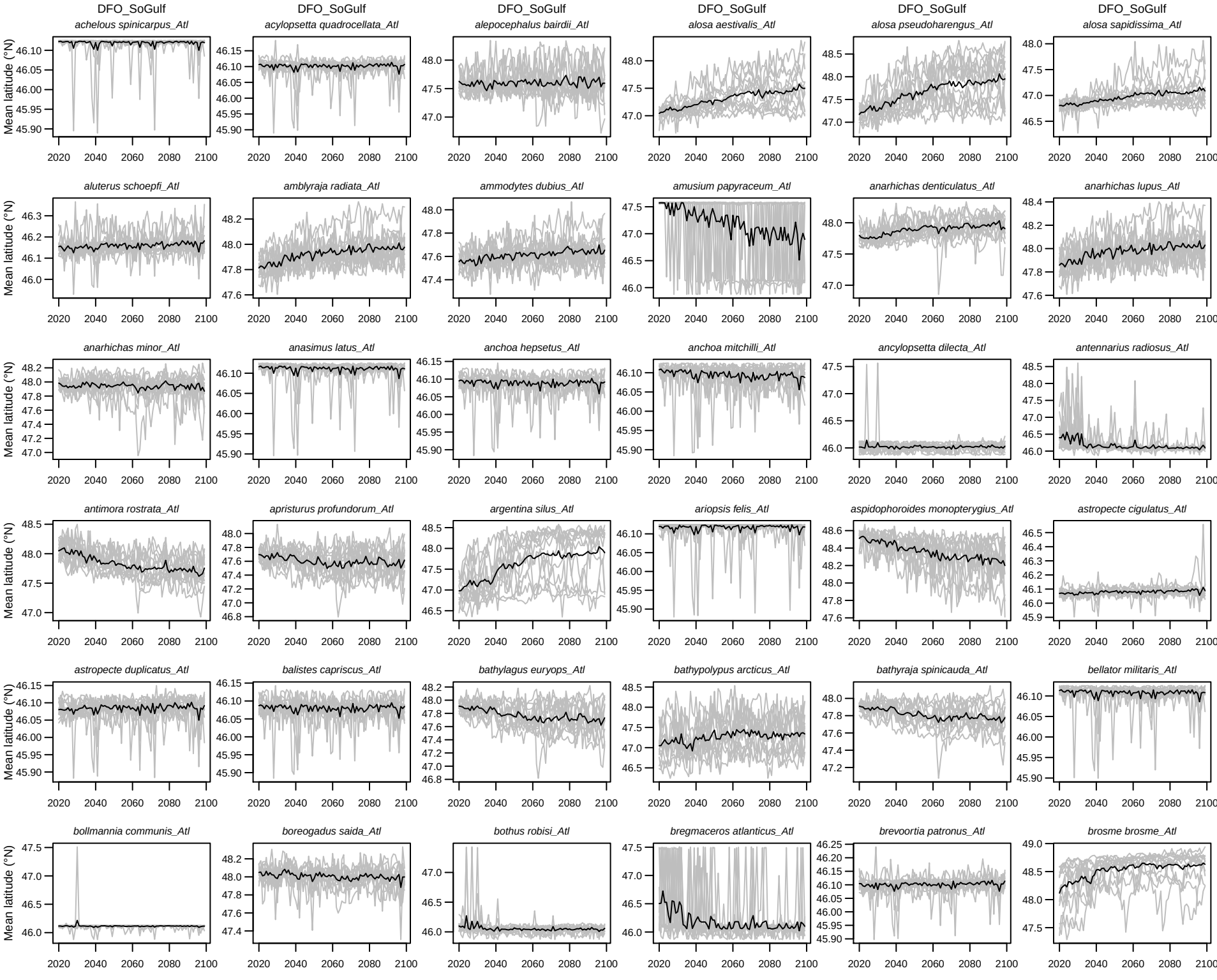
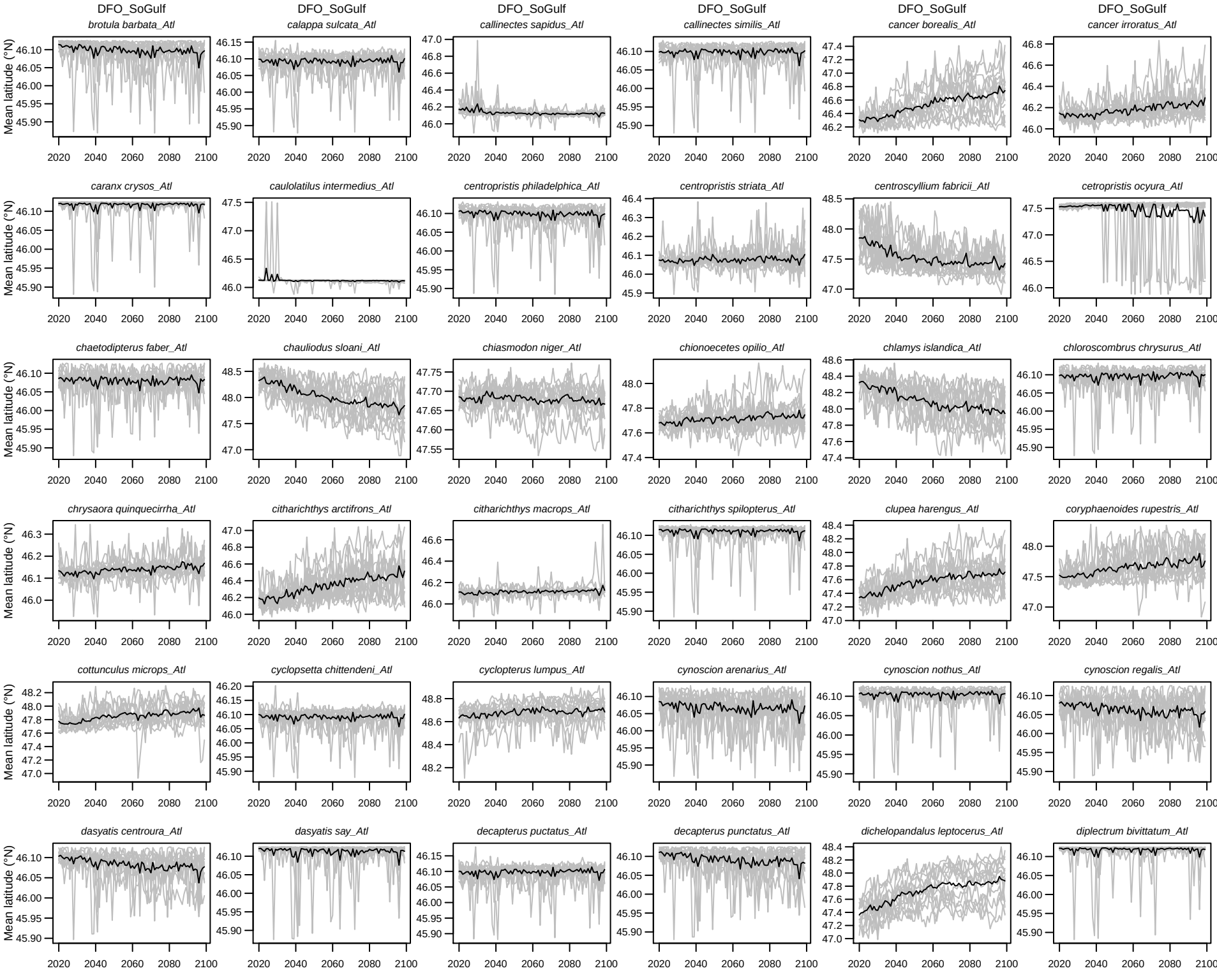
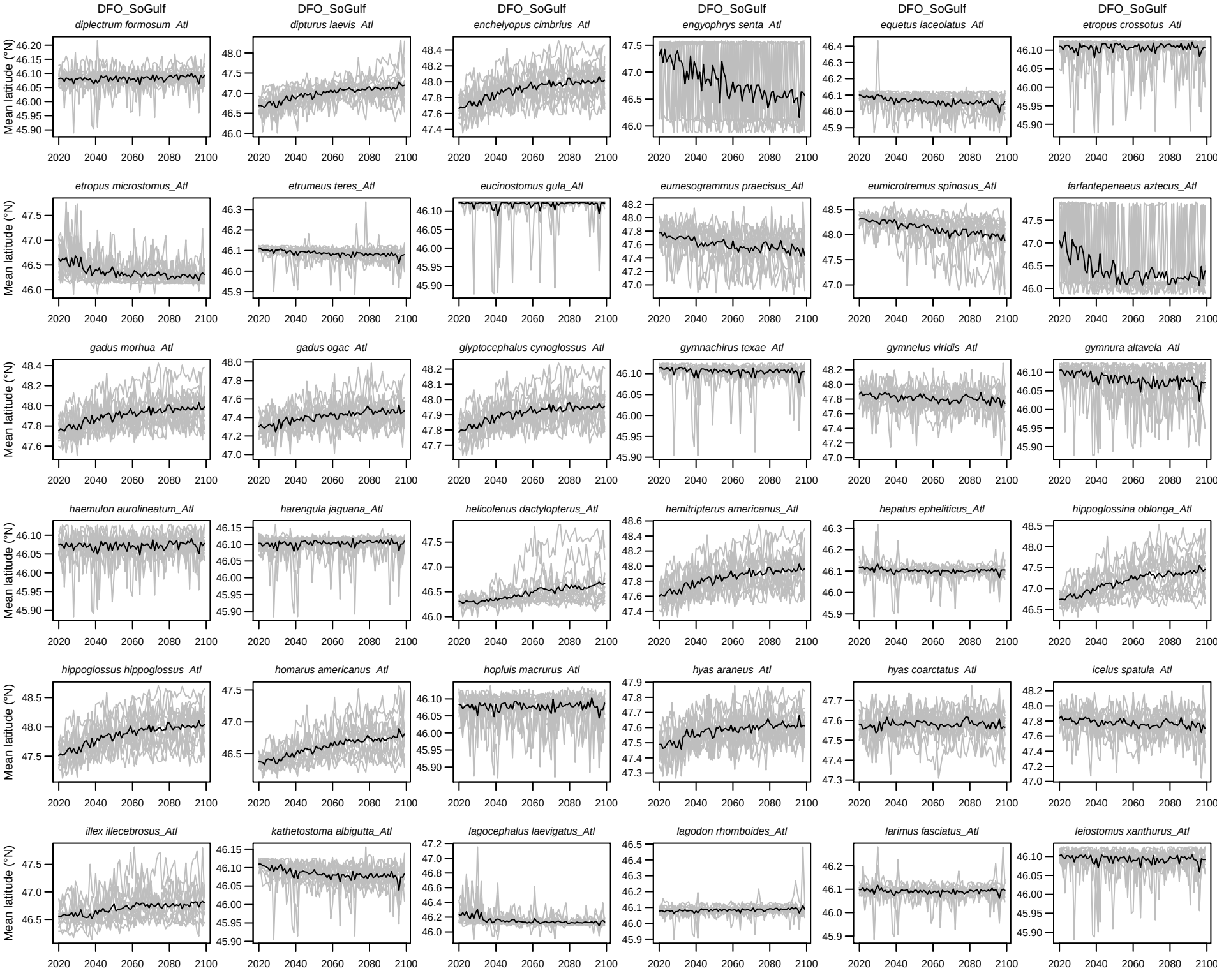

DFO_ScotianShelf
urophycis cirrata_Atl
DFO_ScotianShelf
urophycis floridana_Atl
DFO_ScotianShelf
urophycis regia_Atl
DFO_ScotianShelf
urophycis tenuis_Atl
DFO_ScotianShelf
zenopsis conchifera_Atl
DFO_ScotianShelf
zoarces americanus_Atl
Mean latitude (°N)
2020
2040
2060
2080
2100


DFO_SoGulf
achelous spinicarpus_Atl
acylopsetta quadrocellata_Atl
alepocephalus bairdii_Atl
alosa aestivalis_Atl
alosa pseudoharengus_Atl
alosa sapidissima_Atl
aluterus schoepfi_Atl
amblyraja radiata_Atl
ammodytes dubius_Atl
amusium papyraceum_Atl
anarhichas denticulatus_Atl
anarhichas lupus_Atl
anarhichas minor_Atl
anasimus latus_Atl
anchoa hepsetus_Atl
anchoa mitchilli_Atl
ancylopsetta dilecta_Atl
antennarius radiosus_Atl
antimora rostrata_Atl
apristurus profundorum_Atl
argentina silus_Atl
ariopsis felis_Atl
aspidophoroides monopterygius_Atl
astropecte cigulatus_Atl
astropecte duplicatus_Atl
balistes capriscus_Atl
bathylagus euryops_Atl
bathypolypus arcticus_Atl
bathyraja spinicauda_Atl
bellator militaris_Atl
bollmannia communis_Atl
boreogadus saida_Atl
bothus robisi_Atl
bregmaceros atlanticus_Atl
brevoortia patronus_Atl
brosme brosme_Atl
Mean latitude (°N)


DFO_SoGulf
brotula barbata_Atl
calappa sulcata_Atl
callinectes sapidus_Atl
callinectes similis_Atl
cancer borealis_Atl
cancer irroratus_Atl
caranx crysos_Atl
caulolatilus intermedius_Atl
centropristis philadelphica_Atl
centropristis striata_Atl
centroscyllium fabricii_Atl
cetropristis ocyura_Atl
chaetodipterus faber_Atl
chauliodus sloani_Atl
chiasmodon niger_Atl
chionoecetes opilio_Atl
chlamys islandica_Atl
chloroscombrus chrysurus_Atl
chrysaora quinquecirrha_Atl
citharichthys arctifrons_Atl
citharichthys macrops_Atl
citharichthys spilopterus_Atl
clupea harengus_Atl
coryphaenoides rupestris_Atl
cottunculus microps_Atl
cyclopsetta chittendeni_Atl
cyclopterus lumpus_Atl
cynoscion arenarius_Atl
cynoscion nothus_Atl
cynoscion regalis_Atl
dasyatis centroura_Atl
dasyatis say_Atl
decapterus puctatus_Atl
decapterus punctatus_Atl
dichelopandalus leptocerus_Atl
diplectrum bivittatum_Atl
Mean latitude (°N)
2020
2040
2060
2080
2100


DFO_SoGulf
diplectrum formosum_Atl
dipturus laevis_Atl
enchelyopus cimbrius_Atl
engyophrys senta_Atl
equetus laceolatus_Atl
etropus crossotus_Atl
etropus microstomus_Atl
etrumeus teres_Atl
eucinostomus gula_Atl
eumesogrammus praecisus_Atl
eumicrotremus spinosus_Atl
farfantepenaeus aztecus_Atl
gadus morhua_Atl
gadus ogac_Atl
glyptocephalus cynoglossus_Atl
gymnachirus texae_Atl
gymnelus viridis_Atl
gymnura altavela_Atl
haemulon aurolineatum_Atl
harengula jaguana_Atl
helicolenus dactylopterus_Atl
hemitripterus americanus_Atl
hepatus epheliticus_Atl
hippoglossina oblonga_Atl
hippoglossus hippoglossus_Atl
homarus americanus_Atl
hopluis macrurus_Atl
hyas araneus_Atl
hyas coarctatus_Atl
icelus spatula_Atl
illex illecebrosus_Atl
kathetostoma albigutta_Atl
lagocephalus laevigatus_Atl
lagodon rhomboides_Atl
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leiostomus xanthurus_Atl
Mean latitude (°N)
2020
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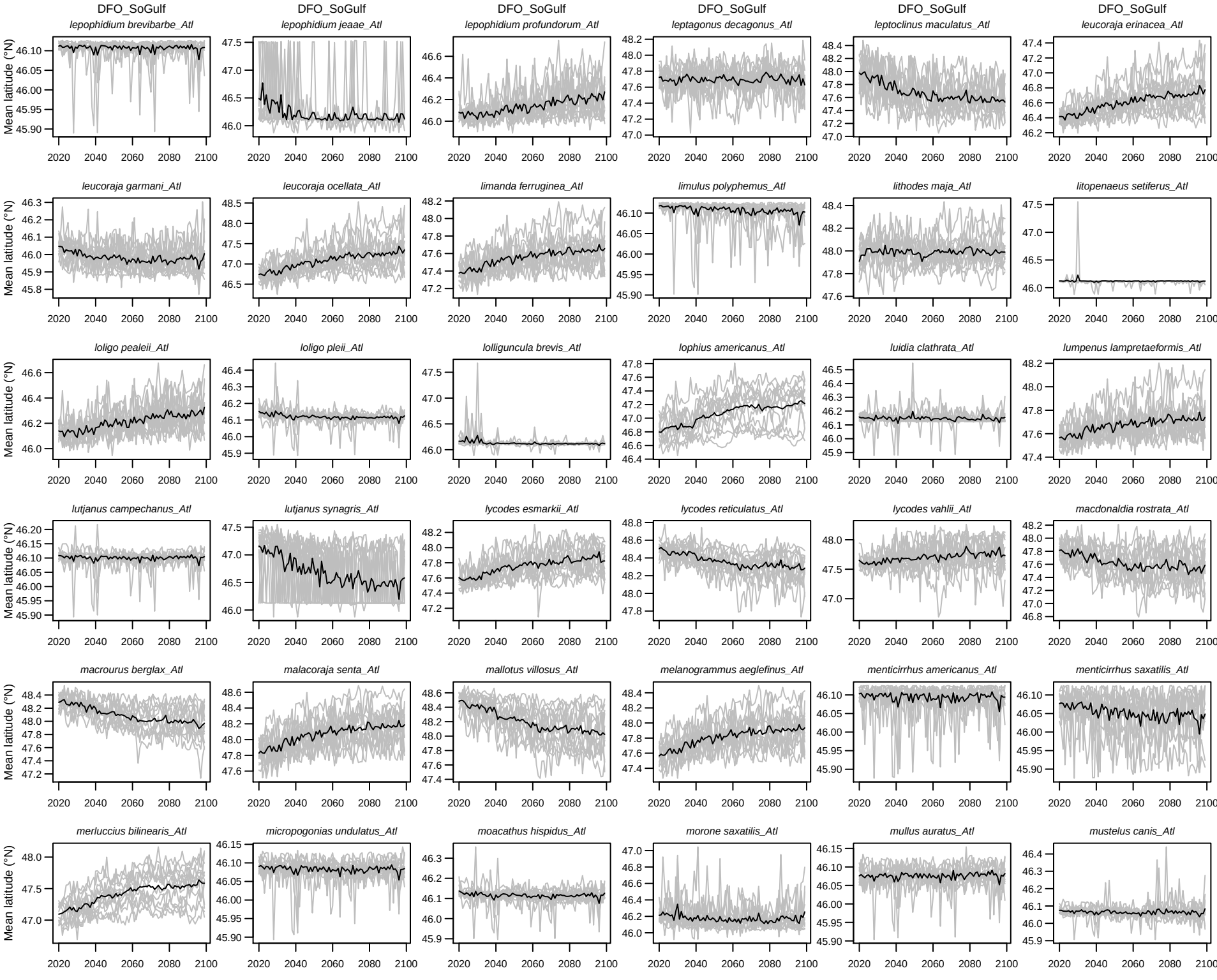
DFO_SoGulf
lepophidium brevibarbe_Atl
lepophidium jeaae_Atl
lepophidium profundorum_Atl
leptagonus decagonus_Atl
leptoclinus maculatus_Atl
leucoraja erinacea_Atl
leucoraja garmani_Atl
leucoraja ocellata_Atl
limanda ferruginea_Atl
limulus polyphemus_Atl
lithodes maja_Atl
litopenaeus setiferus_Atl
loligo pealeii_Atl
loligo pleii_Atl
lolliguncula brevis_Atl
lophius americanus_Atl
luidia clathrata_Atl
lumpenus lampretaeformis_Atl
lutjanus campechanus_Atl
lutjanus synagris_Atl
lycodes esmarkii_Atl
lycodes reticulatus_Atl
lycodes vahlii_Atl
macdonaldia rostrata_Atl
macrourus berglax_Atl
malacoraja senta_Atl
mallotus villosus_Atl
melanogrammus aeglefinus_Atl
menticirrhus americanus_Atl
menticirrhus saxatilis_Atl
merluccius bilinearis_Atl
micropogonias undulatus_Atl
moacathus hispidus_Atl
morone saxatilis_Atl
mullus auratus_Atl
mustelus canis_Atl
Mean latitude (°N)
2020
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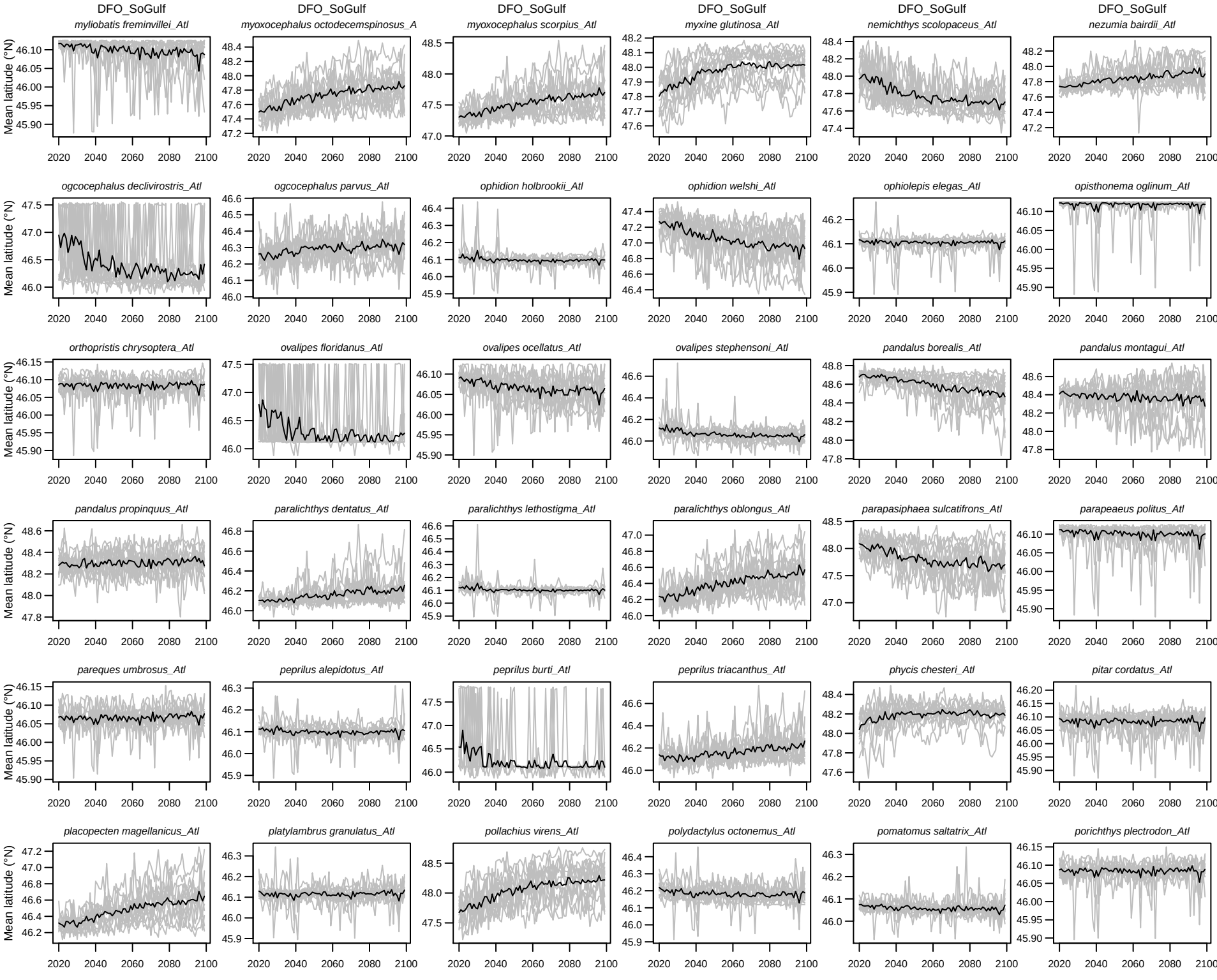
2060
2080
2100


DFO_SoGulf
myliobatis freminvillei_Atl
myoxocephalus octodecemspinosus_A
myoxocephalus scorpius_Atl
myxine glutinosa_Atl
nemichthys scolopaceus_Atl
nezumia bairdii_Atl
ogcocephalus declivirostris_Atl
ogcocephalus parvus_Atl
ophidion holbrookii_Atl
ophidion welshi_Atl
ophiolepis elegas_Atl
opisthonema oglinum_Atl
orthopristis chrysoptera_Atl
ovalipes floridanus_Atl
ovalipes ocellatus_Atl
ovalipes stephensoni_Atl
pandalus borealis_Atl
pandalus montagui_Atl
pandalus propinquus_Atl
paralichthys dentatus_Atl
paralichthys lethostigma_Atl
paralichthys oblongus_Atl
parapasiphaea sulcatifrons_Atl
parapeaeus politus_Atl
pareques umbrosus_Atl
peprilus alepidotus_Atl
peprilus burti_Atl
peprilus triacanthus_Atl
phycis chesteri_Atl
pitar cordatus_Atl
placopecten magellanicus_Atl
platylambrus granulatus_Atl
pollachius virens_Atl
polydactylus octonemus_Atl
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porichthys plectrodon_Atl
Mean latitude (°N)
2020
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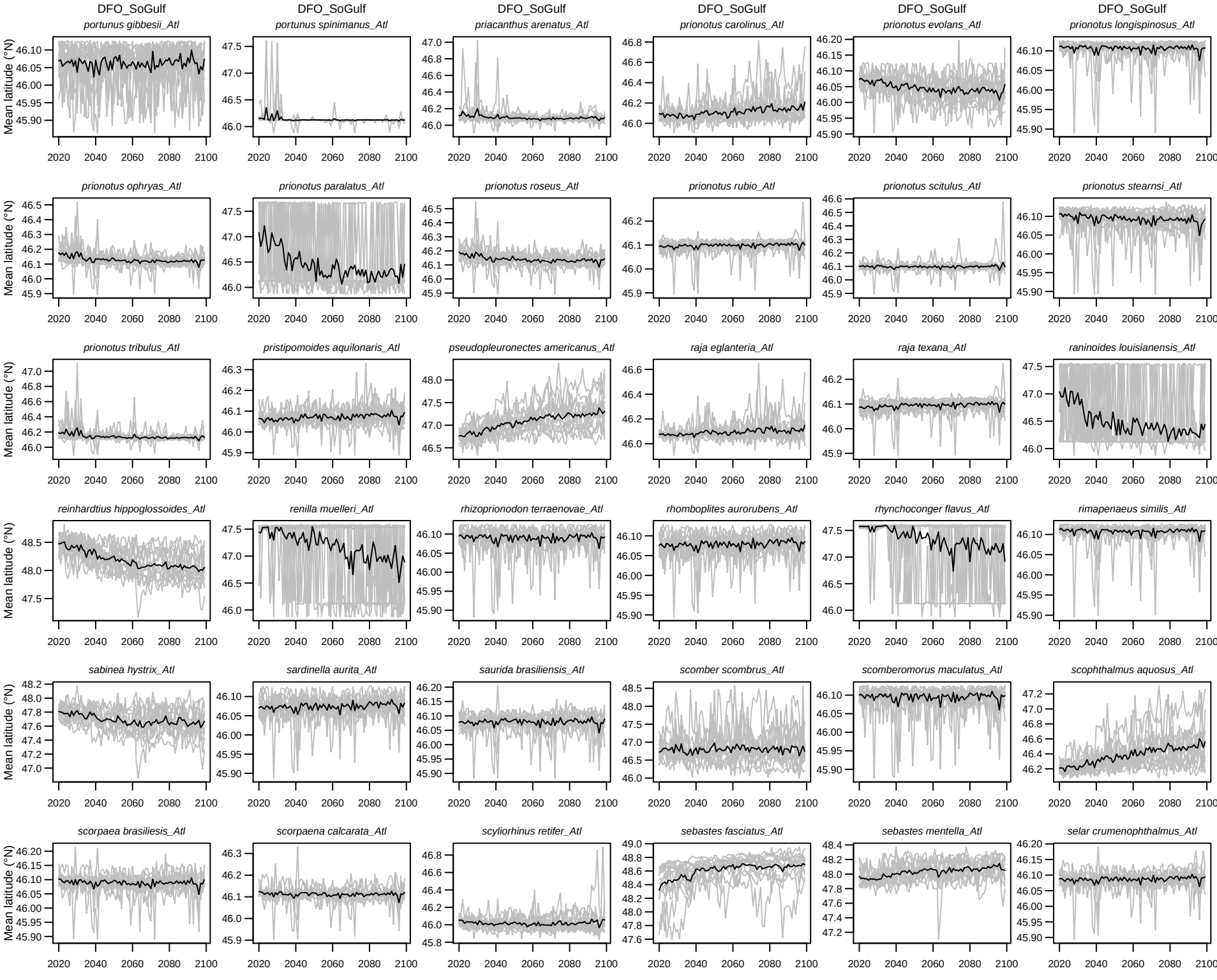
DFO_SoGulf
portunus gibbesii_Atl
portunus spinimanus_Atl
priacanthus arenatus_Atl
prionotus carolinus_Atl
prionotus evolans_Atl
prionotus longispinosus_Atl
prionotus ophryas_Atl
prionotus paralatus_Atl
prionotus roseus_Atl
prionotus rubio_Atl
prionotus scitulus_Atl
prionotus stearnsi_Atl
prionotus tribulus_Atl
pristipomoides aquilonaris_Atl
pseudopleuronectes americanus_Atl
raja eglanteria_Atl
raja texana_Atl
raninoides louisianensis_Atl
reinhardtius hippoglossoides_Atl
renilla muelleri_Atl
rhizoprionodon terraenovae_Atl
rhomboplites aurorubens_Atl
rhynchoconger flavus_Atl
rimapenaeus similis_Atl
sabinea hystrix_Atl
sardinella aurita_Atl
saurida brasiliensis_Atl
scomber scombrus_Atl
scomberomorus maculatus_Atl
scophthalmus aquosus_Atl
scorpaea brasiliesis_Atl
scorpaena calcarata_Atl
scyliorhinus retifer_Atl
sebastes fasciatus_Atl
sebastes mentella_Atl
selar crumenophthalmus_Atl
Mean latitude (°N)
2020
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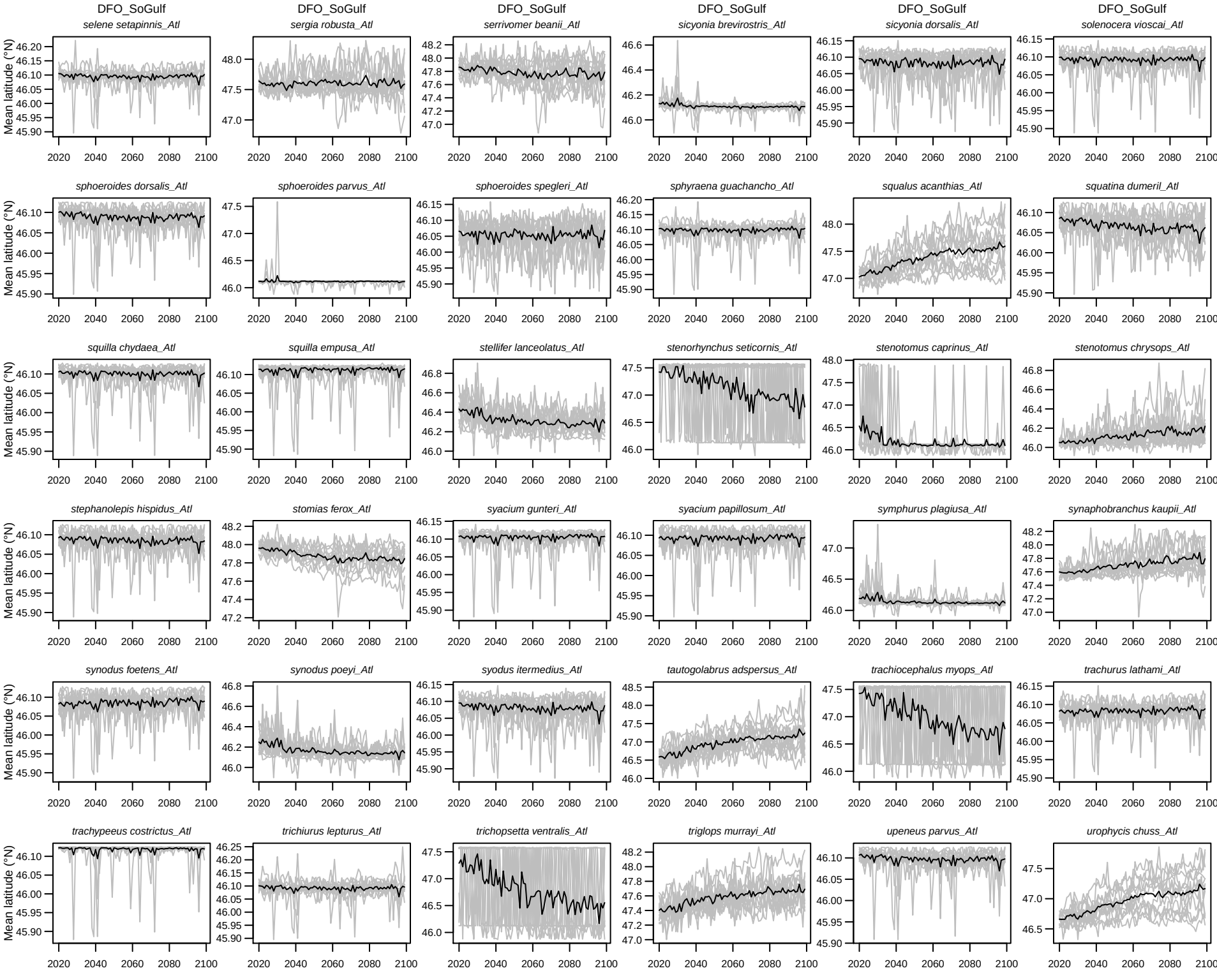
2080
2100


DFO_SoGulf
selene setapinnis_Atl
sergia robusta_Atl
serrivomer beanii_Atl
sicyonia brevirostris_Atl
sicyonia dorsalis_Atl
solenocera vioscai_Atl
sphoeroides dorsalis_Atl
sphoeroides parvus_Atl
sphoeroides spegleri_Atl
sphyraena guachancho_Atl
squalus acanthias_Atl
squatina dumeril_Atl
squilla chydaea_Atl
squilla empusa_Atl
stellifer lanceolatus_Atl
stenorhynchus seticornis_Atl
stenotomus caprinus_Atl
stenotomus chrysops_Atl
stephanolepis hispidus_Atl
stomias ferox_Atl
syacium gunteri_Atl
syacium papillosum_Atl
symphurus plagiusa_Atl
synaphobranchus kaupii_Atl
synodus foetens_Atl
synodus poeyi_Atl
syodus itermedius_Atl
tautogolabrus adspersus_Atl
trachiocephalus myops_Atl
trachurus lathami_Atl
trachypeeus costrictus_Atl
trichiurus lepturus_Atl
trichopsetta ventralis_Atl
triglops murrayi_Atl
upeneus parvus_Atl
urophycis chuss_Atl
Mean latitude (°N)
2020
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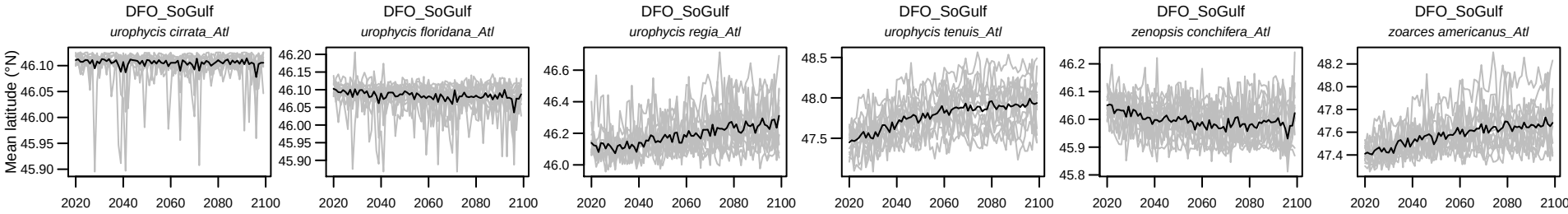
DFO_SoGulf
urophycis cirrata_Atl
urophycis floridana_Atl
urophycis regia_Atl
urophycis tenuis_Atl
zenopsis conchifera_Atl
zoarces americanus_Atl
Mean latitude (°N)
46.10
46.05
46.00
45.95
45.90
46.20
46.15
46.10
46.05
46.00
45.95
45.90
46.6
46.4
46.2
46.0
48.5
48.0
47.5
46.2
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48.2
48.0
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47.6
47.4
2020
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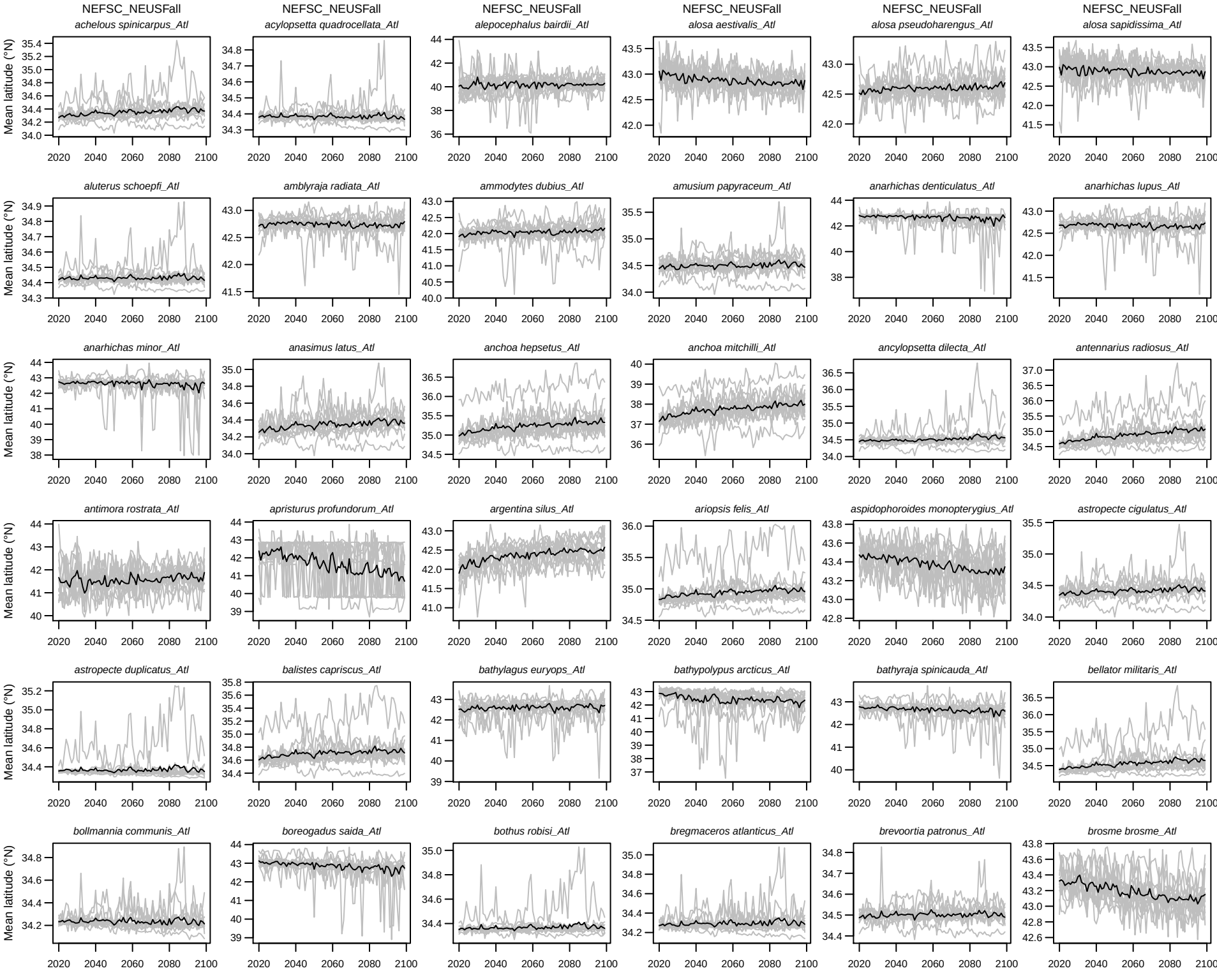
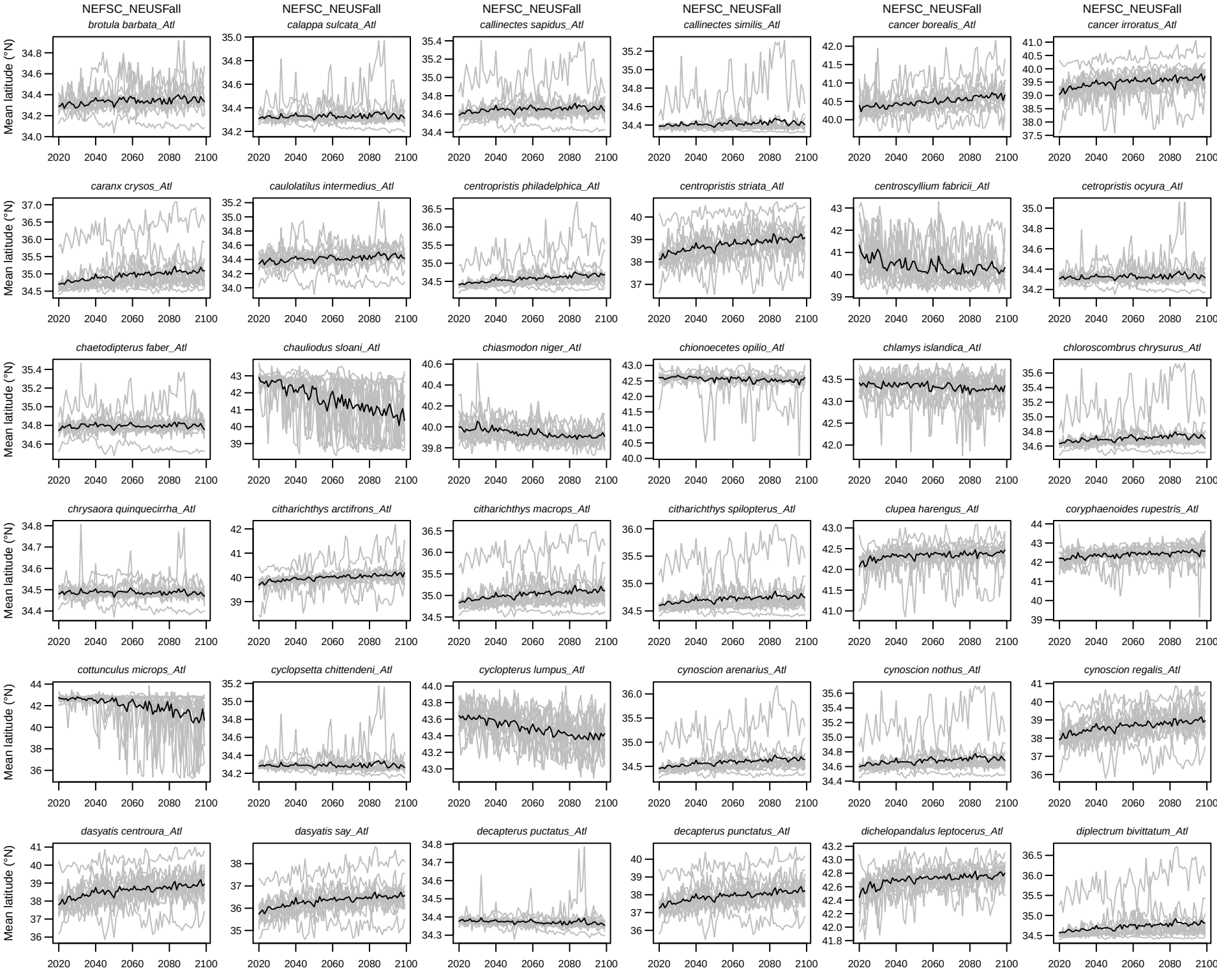

NEFSC_NEUSFall
achelous spinicarpus_Atl
acylopsetta quadrocellata_Atl
alepocephalus bairdii_Atl
alosa aestivalis_Atl
alosa pseudoharengus_Atl
alosa sapidissima_Atl
aluterus schoepfi_Atl
amblyraja radiata_Atl
ammodytes dubius_Atl
amusium papyraceum_Atl
anarhichas denticulatus_Atl
anarhichas lupus_Atl
anarhichas minor_Atl
anasimus latus_Atl
anchoa hepsetus_Atl
anchoa mitchilli_Atl
ancylopsetta dilecta_Atl
antennarius radiosus_Atl
antimora rostrata_Atl
apristurus profundorum_Atl
argentina silus_Atl
ariopsis felis_Atl
aspidophoroides monopterygius_Atl
astropecte cigulatus_Atl
astropecte duplicatus_Atl
balistes capriscus_Atl
bathylagus euryops_Atl
bathypolypus arcticus_Atl
bathyraja spinicauda_Atl
bellator militaris_Atl
bollmannia communis_Atl
boreogadus saida_Atl
bothus robisi_Atl
bregmaceros atlanticus_Atl
brevoortia patronus_Atl
brosme brosme_Atl
Mean latitude (°N)
2020
2040
2060
2080
2100


NEFSC_NEUSFall
brotula barbata_Atl
calappa sulcata_Atl
callinectes sapidus_Atl
callinectes similis_Atl
cancer borealis_Atl
cancer irroratus_Atl
caranx crysos_Atl
caulolatilus intermedius_Atl
centropristis philadelphica_Atl
centropristis striata_Atl
centroscyllium fabricii_Atl
cetropristis ocyura_Atl
chaetodipterus faber_Atl
chauliodus sloani_Atl
chiasmodon niger_Atl
chionoecetes opilio_Atl
chlamys islandica_Atl
chloroscombrus chrysurus_Atl
chrysaora quinquecirrha_Atl
citharichthys arctifrons_Atl
citharichthys macrops_Atl
citharichthys spilopterus_Atl
clupea harengus_Atl
coryphaenoides rupestris_Atl
cottunculus microps_Atl
cyclopsetta chittendeni_Atl
cyclopterus lumpus_Atl
cynoscion arenarius_Atl
cynoscion nothus_Atl
cynoscion regalis_Atl
dasyatis centroura_Atl
dasyatis say_Atl
decapterus puctatus_Atl
decapterus punctatus_Atl
dichelopandalus leptocerus_Atl
diplectrum bivittatum_Atl
Mean latitude (°N)
2020
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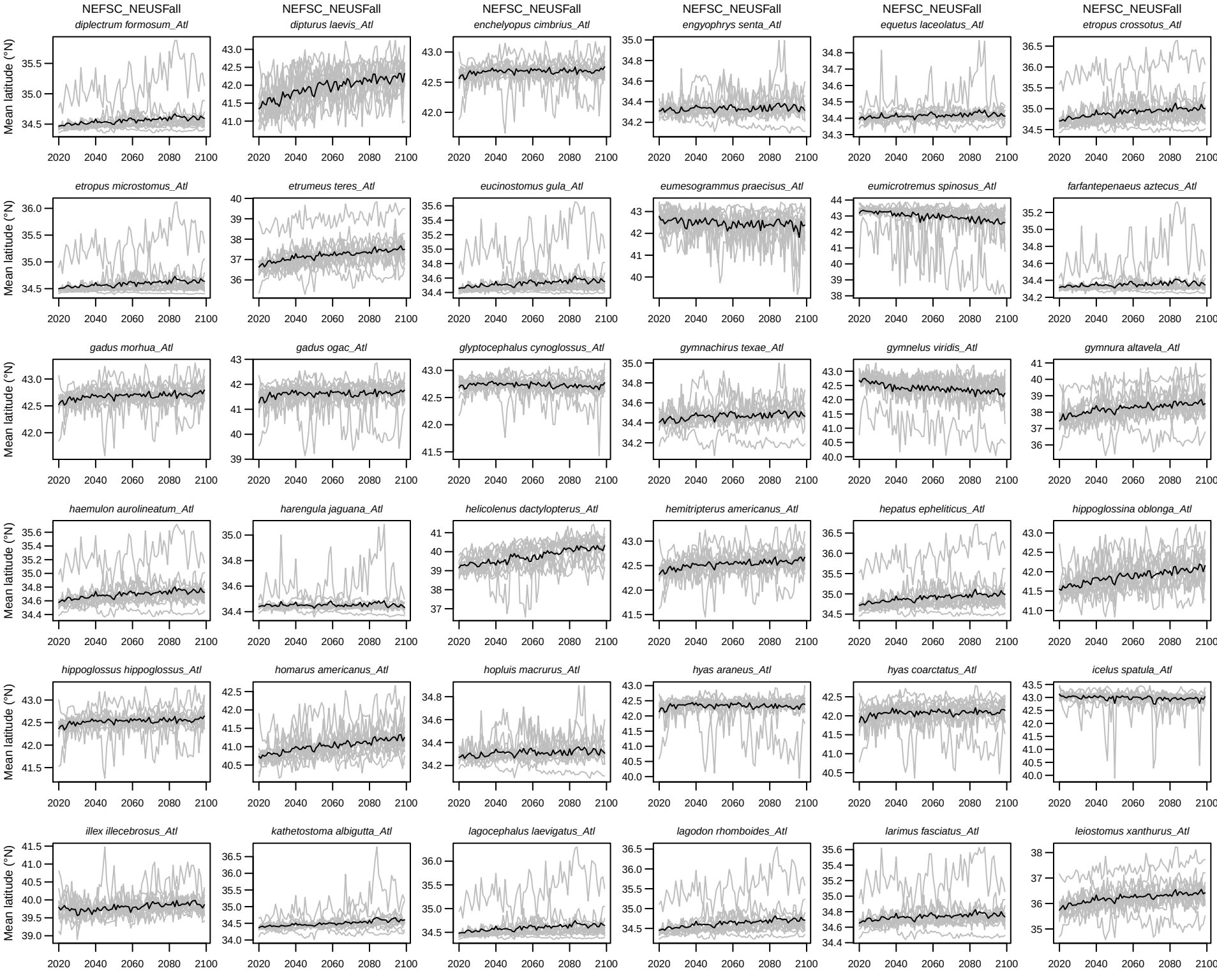
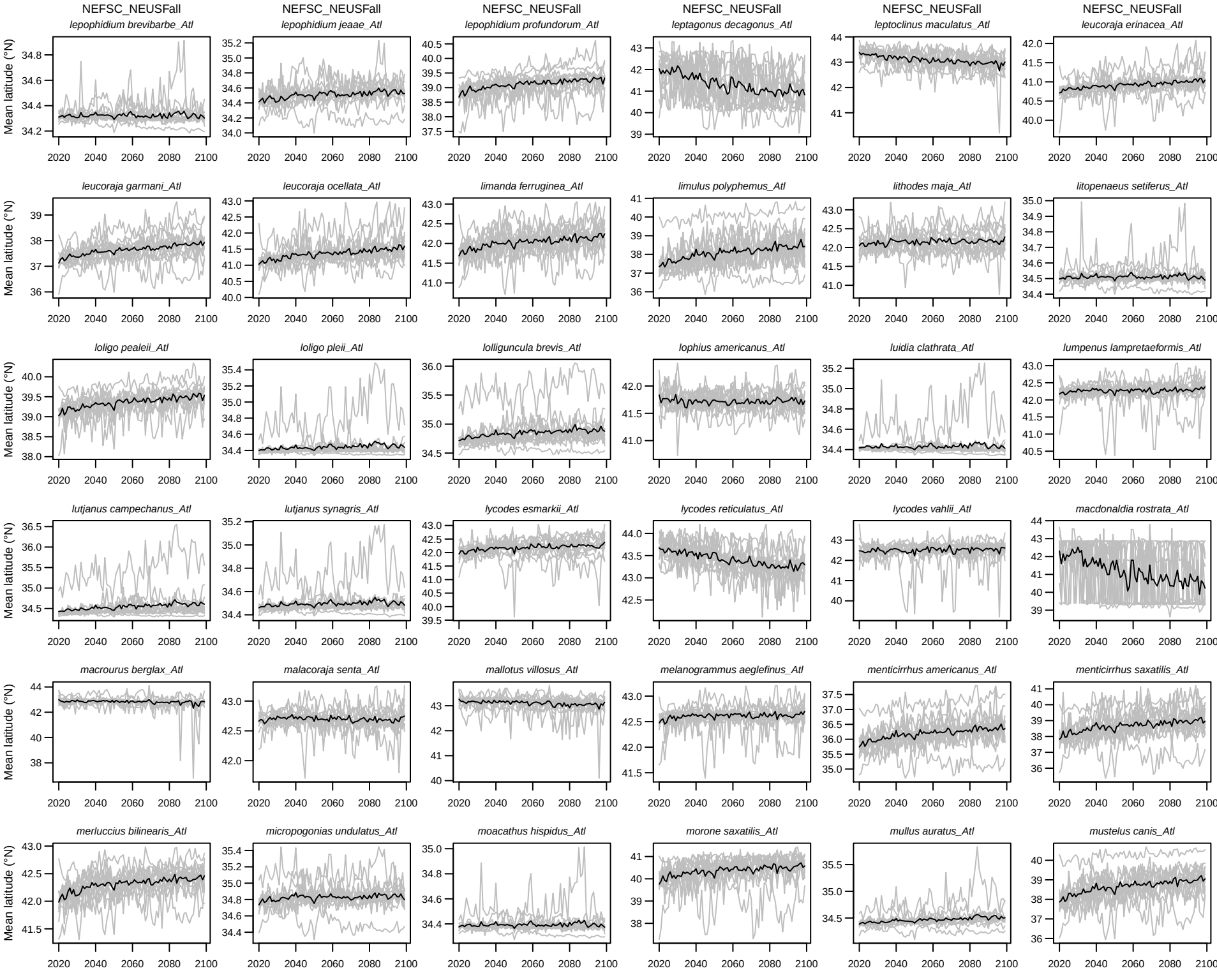
2060
2080
2100


NEFSC_NEUSFall
diplectrum formosum_Atl
dipturus laevis_Atl
enchelyopus cimbrius_Atl
engyophrys senta_Atl
equetus laceolatus_Atl
etropus crossotus_Atl
etropus microstomus_Atl
etrumeus teres_Atl
eucinostomus gula_Atl
eumesogrammus praecisus_Atl
eumicrotremus spinosus_Atl
farfantepenaeus aztecus_Atl
gadus morhua_Atl
gadus ogac_Atl
glyptocephalus cynoglossus_Atl
gymnachirus texae_Atl
gymnelus viridis_Atl
gymnura altavela_Atl
haemulon aurolineatum_Atl
harengula jaguana_Atl
helicolenus dactylopterus_Atl
hemitripterus americanus_Atl
hepatus epheliticus_Atl
hippoglossina oblonga_Atl
hippoglossus hippoglossus_Atl
homarus americanus_Atl
hopluis macrurus_Atl
hyas araneus_Atl
hyas coarctatus_Atl
icelus spatula_Atl
illex illecebrosus_Atl
kathetostoma albigutta_Atl
lagocephalus laevigatus_Atl
lagodon rhomboides_Atl
larimus fasciatus_Atl
leiostomus xanthurus_Atl
Mean latitude (°N)
2020
2040
2060
2080
2100


NEFSC_NEUSFall
lepophidium brevibarbe_Atl
lepophidium jeaae_Atl
lepophidium profundorum_Atl
leptagonus decagonus_Atl
leptoclinus maculatus_Atl
leucoraja erinacea_Atl
leucoraja garmani_Atl
leucoraja ocellata_Atl
limanda ferruginea_Atl
limulus polyphemus_Atl
lithodes maja_Atl
litopenaeus setiferus_Atl
loligo pealeii_Atl
loligo pleii_Atl
lolliguncula brevis_Atl
lophius americanus_Atl
luidia clathrata_Atl
lumpenus lampretaeformis_Atl
lutjanus campechanus_Atl
lutjanus synagris_Atl
lycodes esmarkii_Atl
lycodes reticulatus_Atl
lycodes vahlii_Atl
macdonaldia rostrata_Atl
macrourus berglax_Atl
malacoraja senta_Atl
mallotus villosus_Atl
melanogrammus aeglefinus_Atl
menticirrhus americanus_Atl
menticirrhus saxatilis_Atl
merluccius bilinearis_Atl
micropogonias undulatus_Atl
moacathus hispidus_Atl
morone saxatilis_Atl
mullus auratus_Atl
mustelus canis_Atl
Mean latitude (°N)
2020
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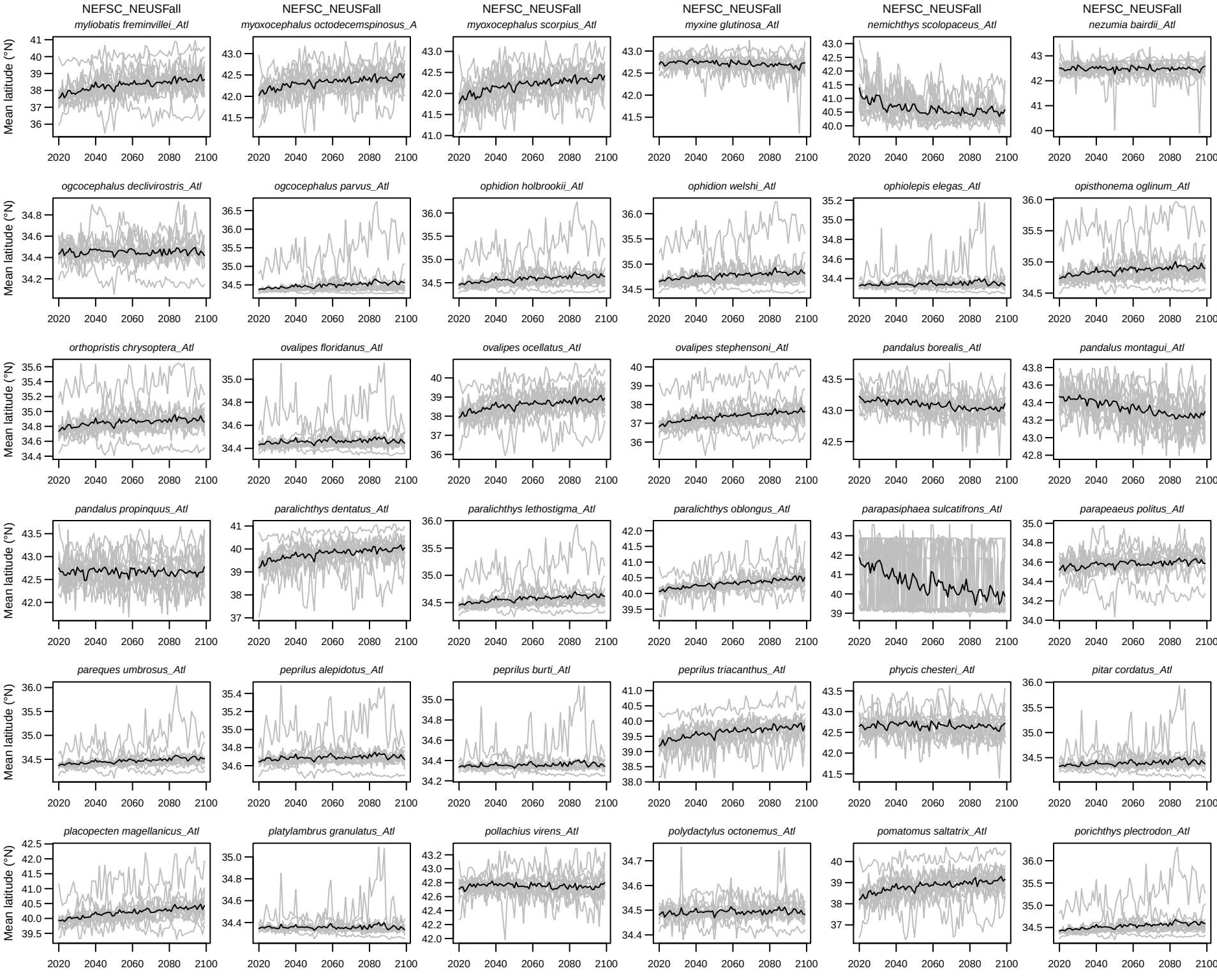
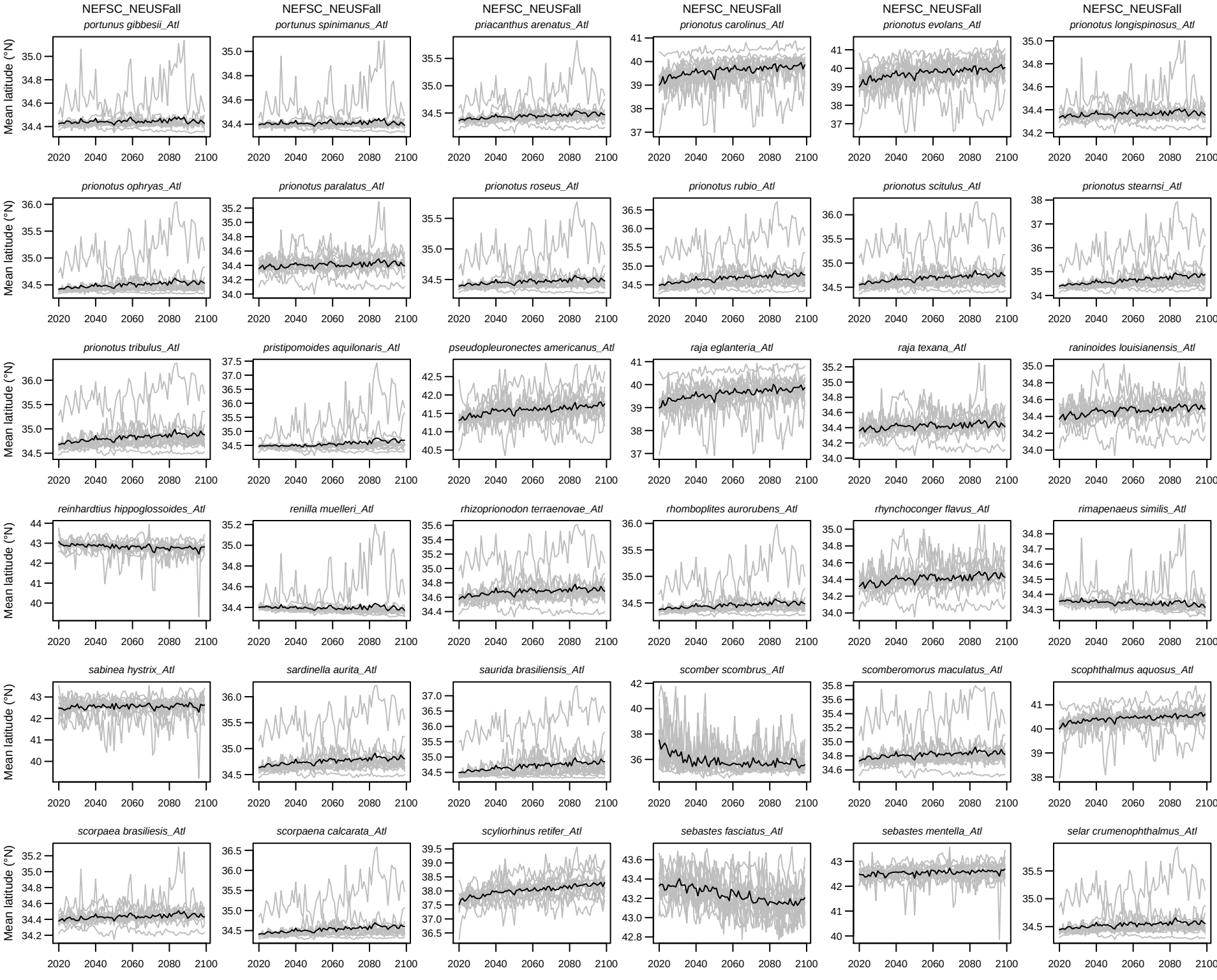
2060
2080
2100


NEFSC_NEUSFall
myliobatis freminvillei_Atl
myoxocephalus octodecemspinosus_A
myoxocephalus scorpius_Atl
myxine glutinosa_Atl
nemichthys scolopaceus_Atl
nezumia bairdii_Atl
ogcocephalus declivirostris_Atl
ogcocephalus parvus_Atl
ophidion holbrookii_Atl
ophidion welshi_Atl
ophiolepis elegas_Atl
opisthonema oglinum_Atl
orthopristis chrysoptera_Atl
ovalipes floridanus_Atl
ovalipes ocellatus_Atl
ovalipes stephensoni_Atl
pandalus borealis_Atl
pandalus montagui_Atl
pandalus propinquus_Atl
paralichthys dentatus_Atl
paralichthys lethostigma_Atl
paralichthys oblongus_Atl
parapasiphaea sulcatifrons_Atl
parapeaeus politus_Atl
pareques umbrosus_Atl
peprilus alepidotus_Atl
peprilus burti_Atl
peprilus triacanthus_Atl
phycis chesteri_Atl
pitar cordatus_Atl
placopecten magellanicus_Atl
platylambrus granulatus_Atl
pollachius virens_Atl
polydactylus octonemus_Atl
pomatomus saltatrix_Atl
porichthys plectrodon_Atl
Mean latitude (°N)
2020
2040
2060
2080
2100


NEFSC_NEUSFall
portunus gibbesii_Atl
portunus spinimanus_Atl
priacanthus arenatus_Atl
prionotus carolinus_Atl
prionotus evolans_Atl
prionotus longispinosus_Atl
prionotus ophryas_Atl
prionotus paralatus_Atl
prionotus roseus_Atl
prionotus rubio_Atl
prionotus scitulus_Atl
prionotus stearnsi_Atl
prionotus tribulus_Atl
pristipomoides aquilonaris_Atl
pseudopleuronectes americanus_Atl
raja eglanteria_Atl
raja texana_Atl
raninoides louisianensis_Atl
reinhardtius hippoglossoides_Atl
renilla muelleri_Atl
rhizoprionodon terraenovae_Atl
rhomboplites aurorubens_Atl
rhynchoconger flavus_Atl
rimapenaeus similis_Atl
sabinea hystrix_Atl
sardinella aurita_Atl
saurida brasiliensis_Atl
scomber scombrus_Atl
scomberomorus maculatus_Atl
scophthalmus aquosus_Atl
scorpaea brasiliesis_Atl
scorpaena calcarata_Atl
scyliorhinus retifer_Atl
sebastes fasciatus_Atl
sebastes mentella_Atl
selar crumenophthalmus_Atl
Mean latitude (°N)
2020
2040
2060
2080
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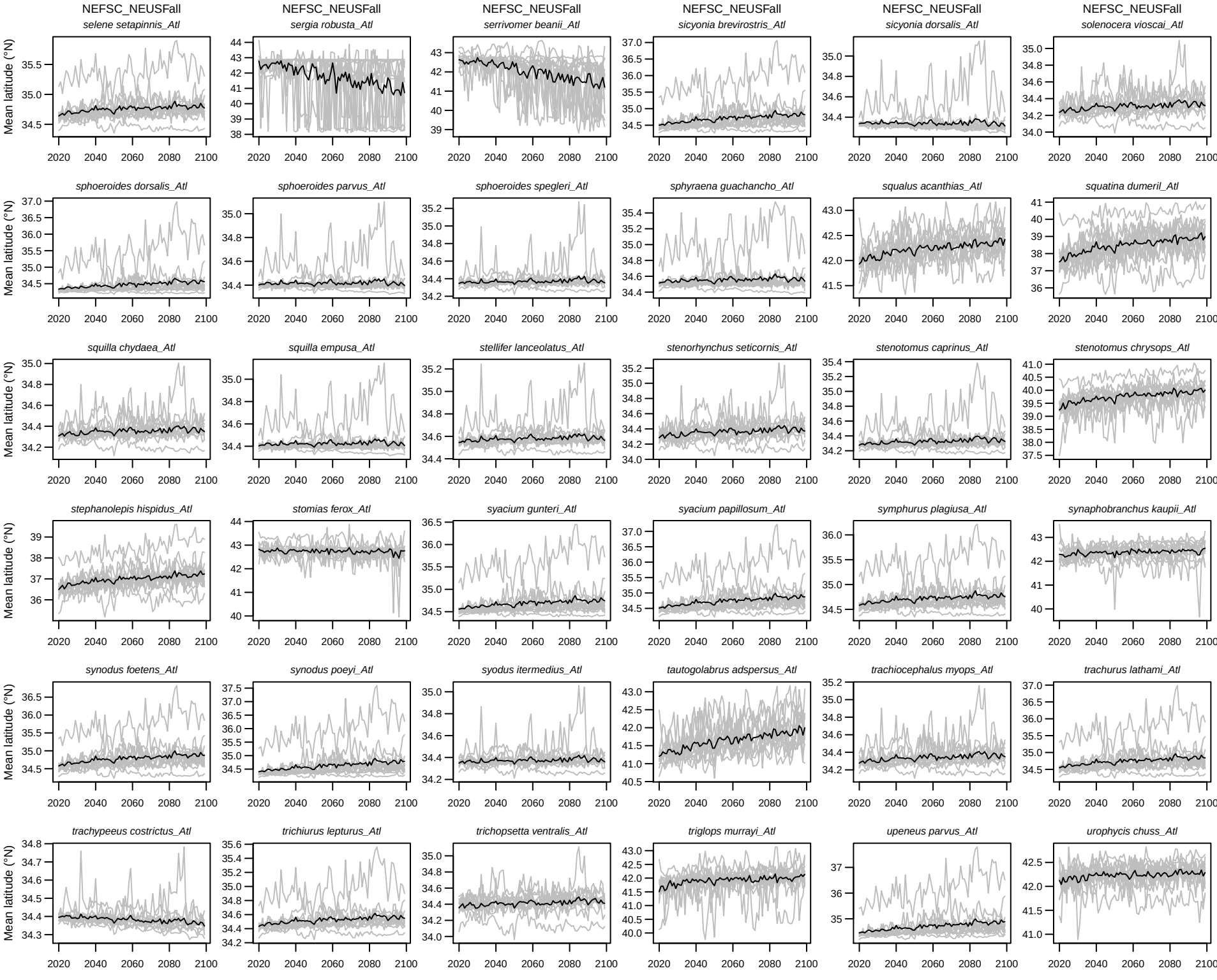
NEFSC_NEUSFall
selene setapinnis_Atl
sergia robusta_Atl
serrivomer beanii_Atl
sicyonia brevirostris_Atl
sicyonia dorsalis_Atl
solenocera vioscai_Atl
sphoeroides dorsalis_Atl
sphoeroides parvus_Atl
sphoeroides spegleri_Atl
sphyraena guachancho_Atl
squalus acanthias_Atl
squatina dumeril_Atl
squilla chydaea_Atl
squilla empusa_Atl
stellifer lanceolatus_Atl
stenorhynchus seticornis_Atl
stenotomus caprinus_Atl
stenotomus chrysops_Atl
stephanolepis hispidus_Atl
stomias ferox_Atl
syacium gunteri_Atl
syacium papillosum_Atl
symphurus plagiusa_Atl
synaphobranchus kaupii_Atl
synodus foetens_Atl
synodus poeyi_Atl
syodus itermedius_Atl
tautogolabrus adspersus_Atl
trachiocephalus myops_Atl
trachurus lathami_Atl
trachypeeus costrictus_Atl
trichiurus lepturus_Atl
trichopsetta ventralis_Atl
triglops murrayi_Atl
upeneus parvus_Atl
urophycis chuss_Atl
Mean latitude (°N)
2020
2040
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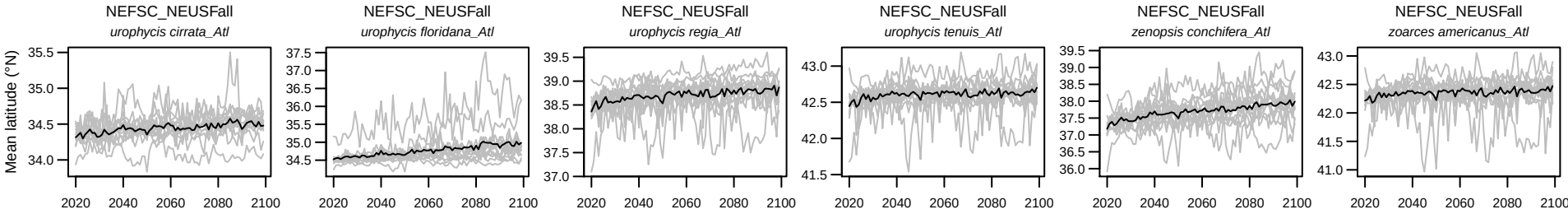
NEFSC_NEUSFall
urophycis cirrata_Atl
urophycis floridana_Atl
urophycis regia_Atl
urophycis tenuis_Atl
zenopsis conchifera_Atl
zoarces americanus_Atl
Mean latitude (°N)
2020
2040
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2080
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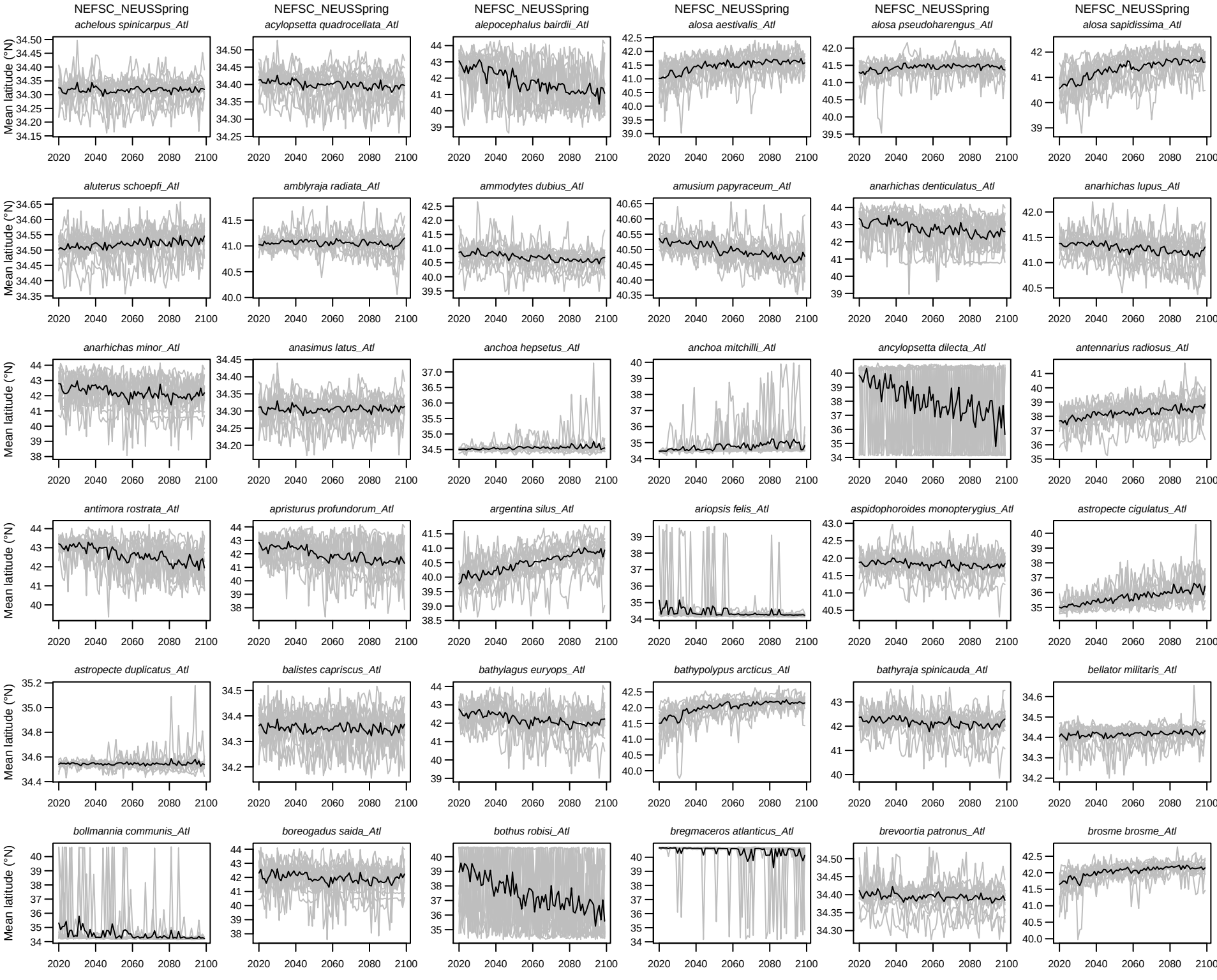
NEFSC_NEUSSpring
achelous spinicarpus_Atl
acylopsetta quadrocellata_Atl
alepocephalus bairdii_Atl
alosa aestivalis_Atl
alosa pseudoharengus_Atl
alosa sapidissima_Atl
aluterus schoepfi_Atl
amblyraja radiata_Atl
ammodytes dubius_Atl
amusium papyraceum_Atl
anarhichas denticulatus_Atl
anarhichas lupus_Atl
anarhichas minor_Atl
anasimus latus_Atl
anchoa hepsetus_Atl
anchoa mitchilli_Atl
ancylopsetta dilecta_Atl
antennarius radiosus_Atl
antimora rostrata_Atl
apristurus profundorum_Atl
argentina silus_Atl
ariopsis felis_Atl
aspidophoroides monopterygius_Atl
astropecte cigulatus_Atl
astropecte duplicatus_Atl
balistes capriscus_Atl
bathylagus euryops_Atl
bathypolypus arcticus_Atl
bathyraja spinicauda_Atl
bellator militaris_Atl
bollmannia communis_Atl
boreogadus saida_Atl
bothus robisi_Atl
bregmaceros atlanticus_Atl
brevoortia patronus_Atl
brosme brosme_Atl
Mean latitude (°N)
2020
2040
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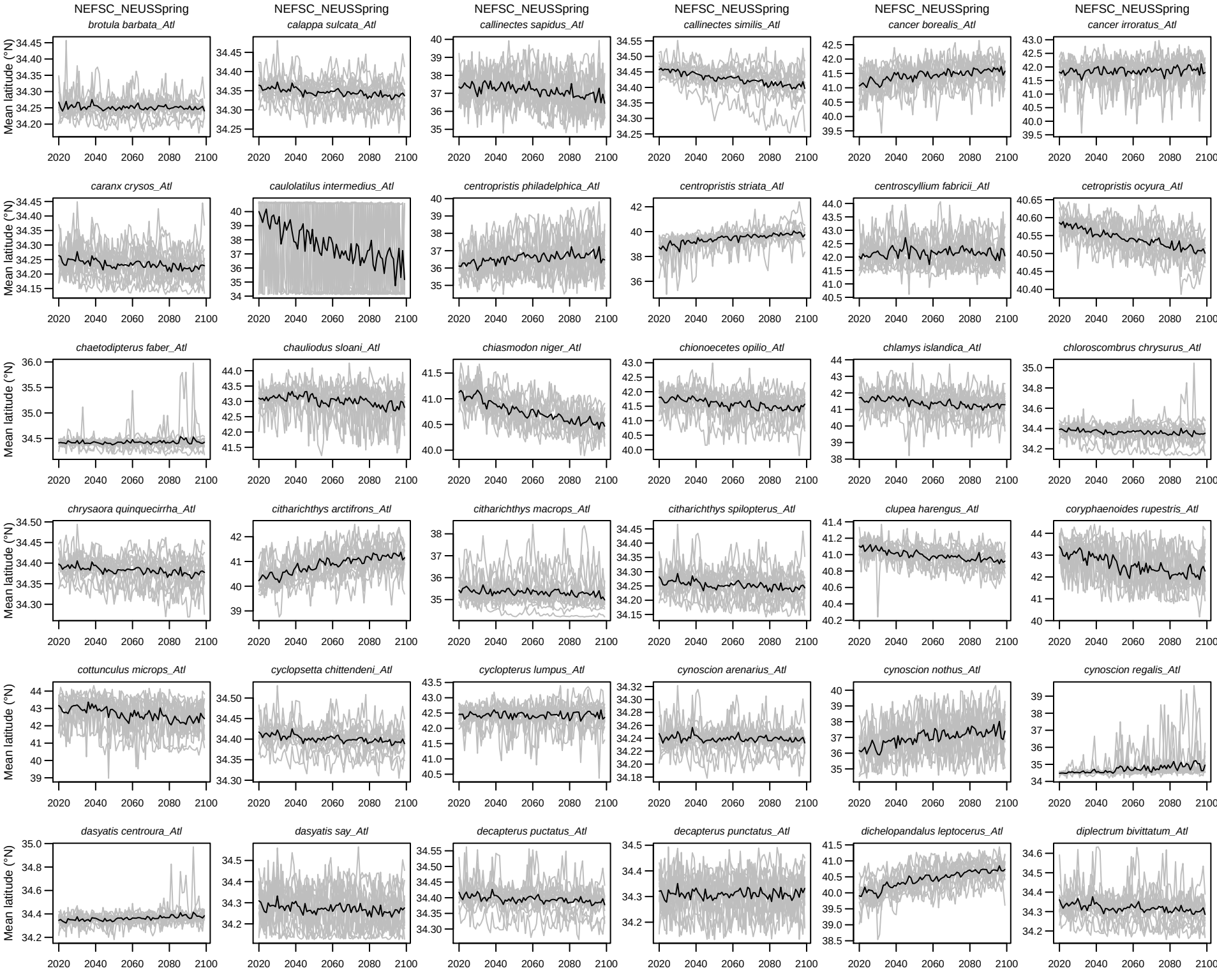
2080
2100


NEFSC_NEUSSpring
brotula barbata_Atl
calappa sulcata_Atl
callinectes sapidus_Atl
callinectes similis_Atl
cancer borealis_Atl
cancer irroratus_Atl
caranx crysos_Atl
caulolatilus intermedius_Atl
centropristis philadelphica_Atl
centropristis striata_Atl
centroscyllium fabricii_Atl
cetropristis ocyura_Atl
chaetodipterus faber_Atl
chauliodus sloani_Atl
chiasmodon niger_Atl
chionoecetes opilio_Atl
chlamys islandica_Atl
chloroscombrus chrysurus_Atl
chrysaora quinquecirrha_Atl
citharichthys arctifrons_Atl
citharichthys macrops_Atl
citharichthys spilopterus_Atl
clupea harengus_Atl
coryphaenoides rupestris_Atl
cottunculus microps_Atl
cyclopsetta chittendeni_Atl
cyclopterus lumpus_Atl
cynoscion arenarius_Atl
cynoscion nothus_Atl
cynoscion regalis_Atl
dasyatis centroura_Atl
dasyatis say_Atl
decapterus puctatus_Atl
decapterus punctatus_Atl
dichelopandalus leptocerus_Atl
diplectrum bivittatum_Atl
Mean latitude (°N)
2020
2040
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2080
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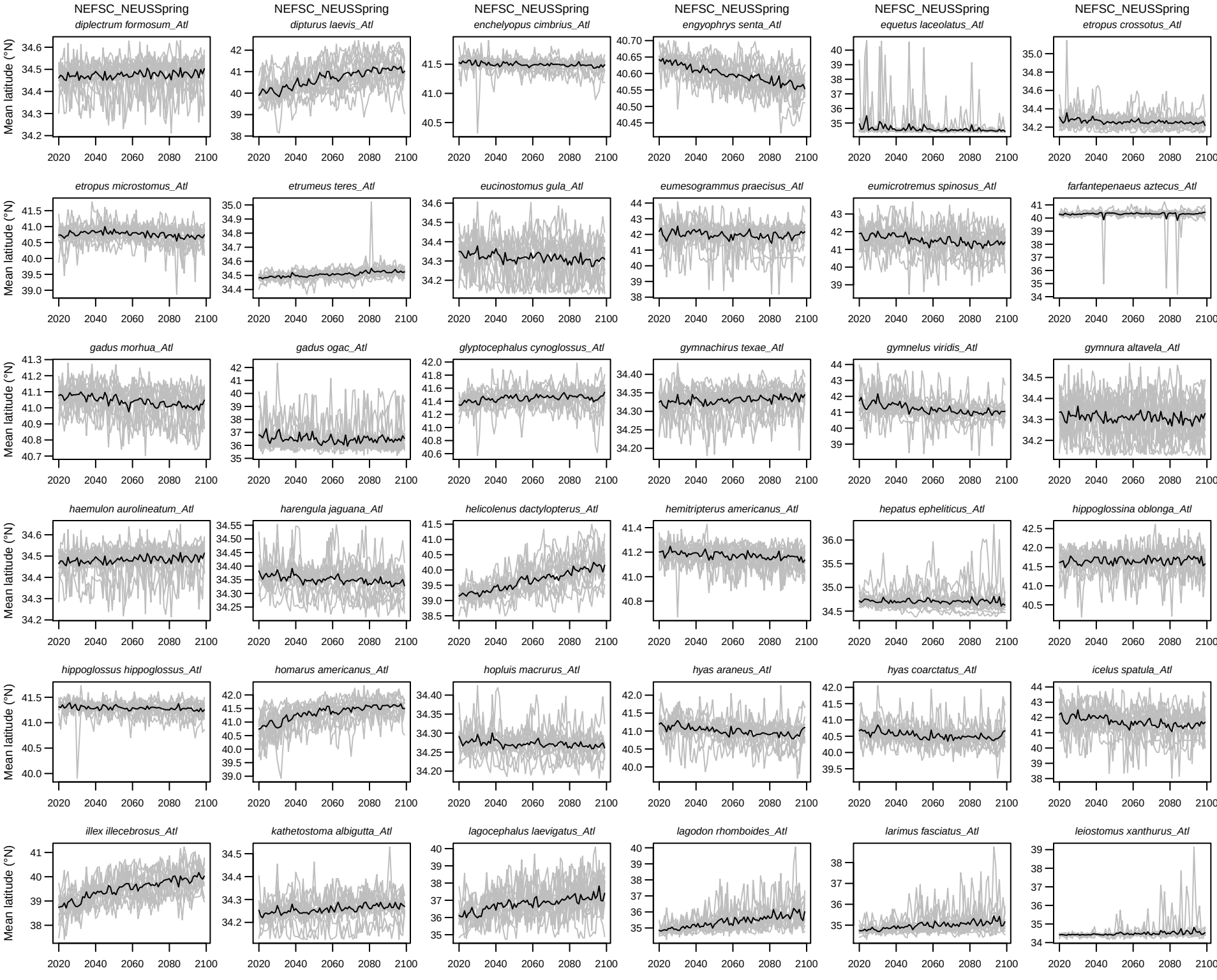
NEFSC_NEUSSpring
diplectrum formosum_Atl
dipturus laevis_Atl
enchelyopus cimbrius_Atl
engyophrys senta_Atl
equetus laceolatus_Atl
etropus crossotus_Atl
etropus microstomus_Atl
etrumeus teres_Atl
eucinostomus gula_Atl
eumesogrammus praecisus_Atl
eumicrotremus spinosus_Atl
farfantepenaeus aztecus_Atl
gadus morhua_Atl
gadus ogac_Atl
glyptocephalus cynoglossus_Atl
gymnachirus texae_Atl
gymnelus viridis_Atl
gymnura altavela_Atl
haemulon aurolineatum_Atl
harengula jaguana_Atl
helicolenus dactylopterus_Atl
hemitripterus americanus_Atl
hepatus epheliticus_Atl
hippoglossina oblonga_Atl
hippoglossus hippoglossus_Atl
homarus americanus_Atl
hopluis macrurus_Atl
hyas araneus_Atl
hyas coarctatus_Atl
icelus spatula_Atl
illex illecebrosus_Atl
kathetostoma albigutta_Atl
lagocephalus laevigatus_Atl
lagodon rhomboides_Atl
larimus fasciatus_Atl
leiostomus xanthurus_Atl
Mean latitude (°N)
2020
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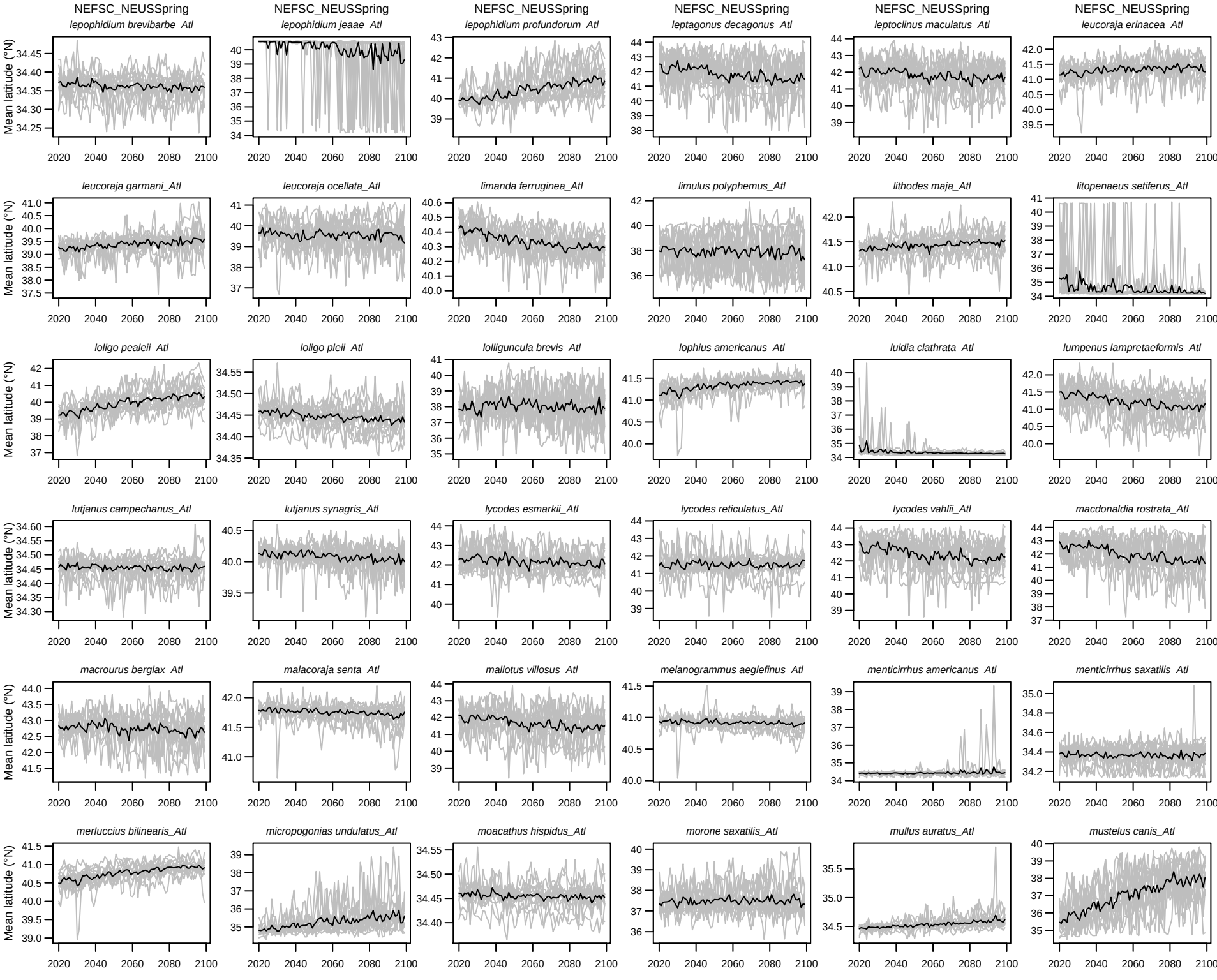
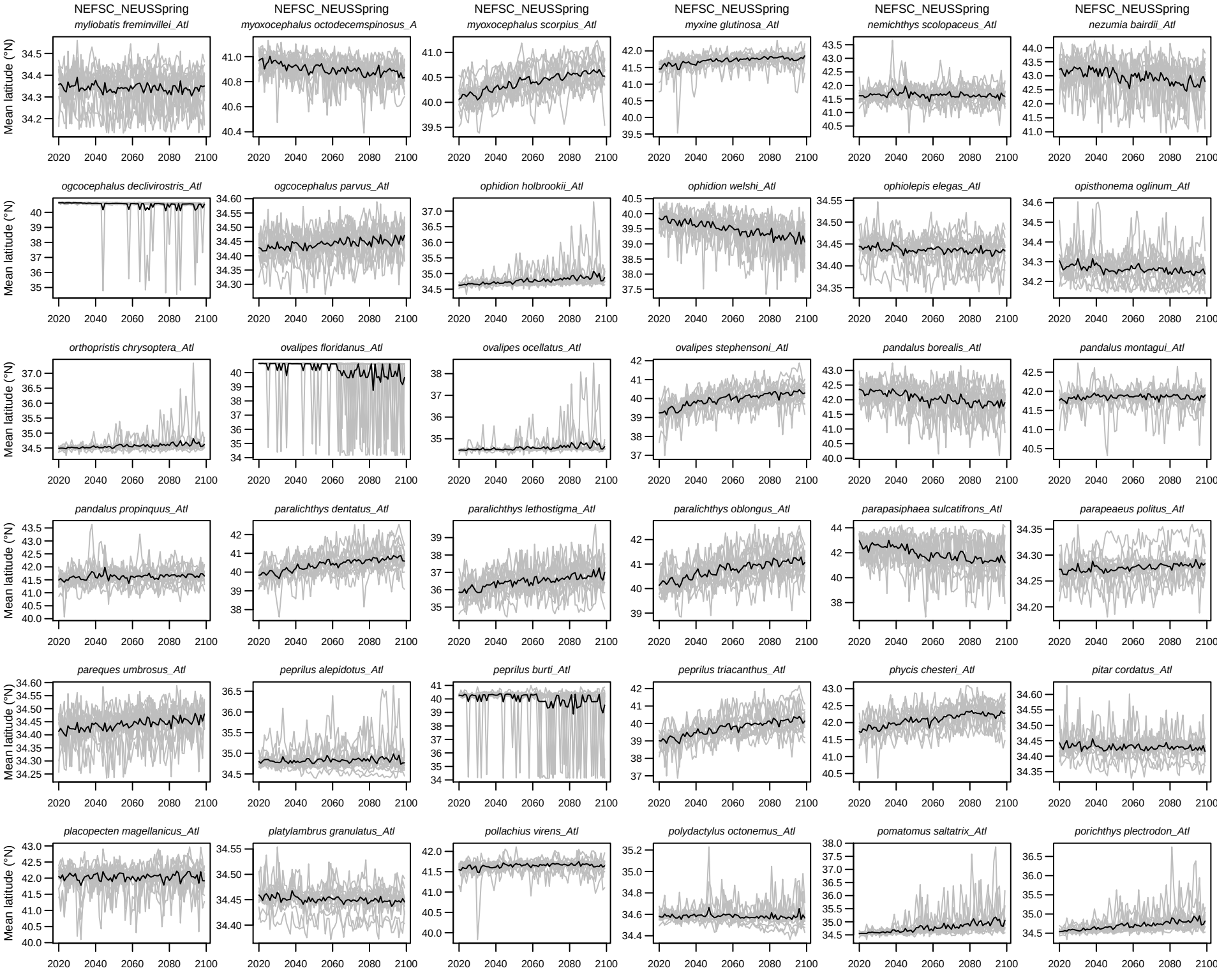
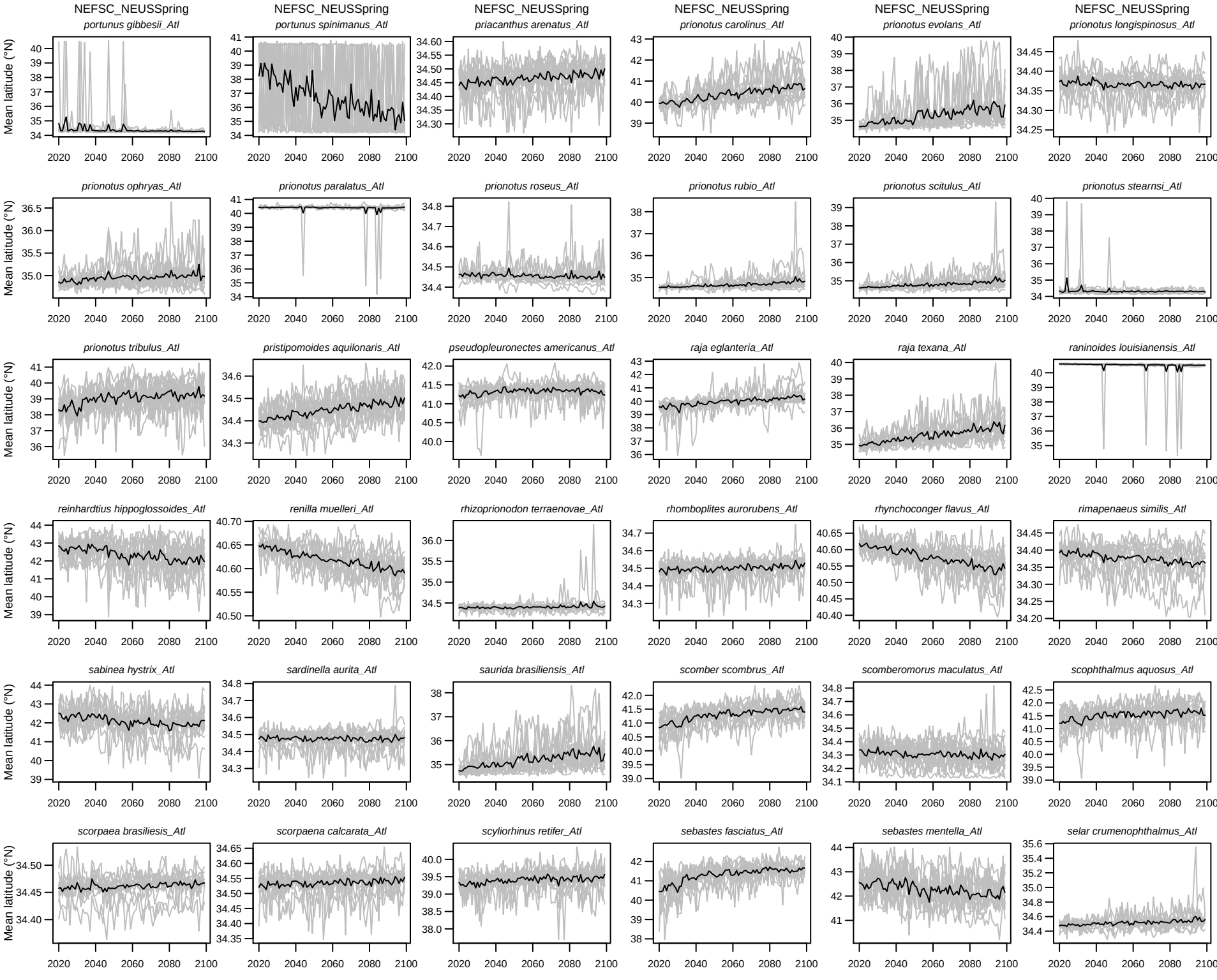
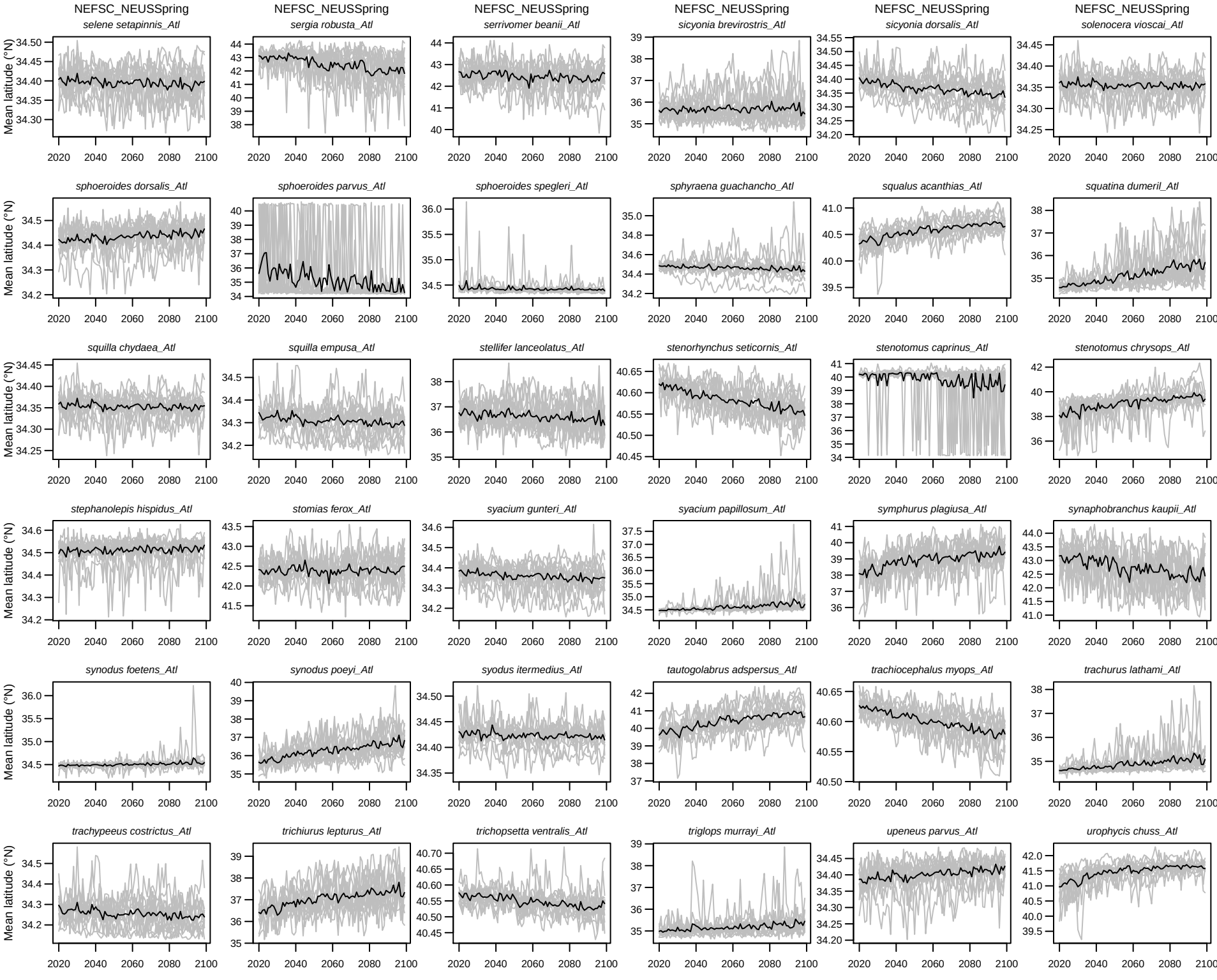
2060
2080
2100


NEFSC_NEUSSpring
lepophidium brevibarbe_Atl
lepophidium jeaae_Atl
lepophidium profundorum_Atl
leptagonus decagonus_Atl
leptoclinus maculatus_Atl
leucoraja erinacea_Atl
leucoraja garmani_Atl
leucoraja ocellata_Atl
limanda ferruginea_Atl
limulus polyphemus_Atl
lithodes maja_Atl
litopenaeus setiferus_Atl
loligo pealeii_Atl
loligo pleii_Atl
lolliguncula brevis_Atl
lophius americanus_Atl
luidia clathrata_Atl
lumpenus lampretaeformis_Atl
lutjanus campechanus_Atl
lutjanus synagris_Atl
lycodes esmarkii_Atl
lycodes reticulatus_Atl
lycodes vahlii_Atl
macdonaldia rostrata_Atl
macrourus berglax_Atl
malacoraja senta_Atl
mallotus villosus_Atl
melanogrammus aeglefinus_Atl
menticirrhus americanus_Atl
menticirrhus saxatilis_Atl
merluccius bilinearis_Atl
micropogonias undulatus_Atl
moacathus hispidus_Atl
morone saxatilis_Atl
mullus auratus_Atl
mustelus canis_Atl
Mean latitude (°N)
2020
2040
2060
2080
2100


NEFSC_NEUSSpring
myliobatis freminvillei_Atl
myoxocephalus octodecemspinosus_A
myoxocephalus scorpius_Atl
myxine glutinosa_Atl
nemichthys scolopaceus_Atl
nezumia bairdii_Atl
ogcocephalus declivirostris_Atl
ogcocephalus parvus_Atl
ophidion holbrookii_Atl
ophidion welshi_Atl
ophiolepis elegas_Atl
opisthonema oglinum_Atl
orthopristis chrysoptera_Atl
ovalipes floridanus_Atl
ovalipes ocellatus_Atl
ovalipes stephensoni_Atl
pandalus borealis_Atl
pandalus montagui_Atl
pandalus propinquus_Atl
paralichthys dentatus_Atl
paralichthys lethostigma_Atl
paralichthys oblongus_Atl
parapasiphaea sulcatifrons_Atl
parapeaeus politus_Atl
pareques umbrosus_Atl
peprilus alepidotus_Atl
peprilus burti_Atl
peprilus triacanthus_Atl
phycis chesteri_Atl
pitar cordatus_Atl
placopecten magellanicus_Atl
platylambrus granulatus_Atl
pollachius virens_Atl
polydactylus octonemus_Atl
pomatomus saltatrix_Atl
porichthys plectrodon_Atl
Mean latitude (°N)
2020
2040
2060
2080
2100


NEFSC_NEUSSpring
portunus gibbesii_Atl
portunus spinimanus_Atl
priacanthus arenatus_Atl
prionotus carolinus_Atl
prionotus evolans_Atl
prionotus longispinosus_Atl
prionotus ophryas_Atl
prionotus paralatus_Atl
prionotus roseus_Atl
prionotus rubio_Atl
prionotus scitulus_Atl
prionotus stearnsi_Atl
prionotus tribulus_Atl
pristipomoides aquilonaris_Atl
pseudopleuronectes americanus_Atl
raja eglanteria_Atl
raja texana_Atl
raninoides louisianensis_Atl
reinhardtius hippoglossoides_Atl
renilla muelleri_Atl
rhizoprionodon terraenovae_Atl
rhomboplites aurorubens_Atl
rhynchoconger flavus_Atl
rimapenaeus similis_Atl
sabinea hystrix_Atl
sardinella aurita_Atl
saurida brasiliensis_Atl
scomber scombrus_Atl
scomberomorus maculatus_Atl
scophthalmus aquosus_Atl
scorpaea brasiliesis_Atl
scorpaena calcarata_Atl
scyliorhinus retifer_Atl
sebastes fasciatus_Atl
sebastes mentella_Atl
selar crumenophthalmus_Atl
Mean latitude (°N)


NEFSC_NEUSSpring
selene setapinnis_Atl
sergia robusta_Atl
serrivomer beanii_Atl
sicyonia brevirostris_Atl
sicyonia dorsalis_Atl
solenocera vioscai_Atl
sphoeroides dorsalis_Atl
sphoeroides parvus_Atl
sphoeroides spegleri_Atl
sphyraena guachancho_Atl
squalus acanthias_Atl
squatina dumeril_Atl
squilla chydaea_Atl
squilla empusa_Atl
stellifer lanceolatus_Atl
stenorhynchus seticornis_Atl
stenotomus caprinus_Atl
stenotomus chrysops_Atl
stephanolepis hispidus_Atl
stomias ferox_Atl
syacium gunteri_Atl
syacium papillosum_Atl
symphurus plagiusa_Atl
synaphobranchus kaupii_Atl
synodus foetens_Atl
synodus poeyi_Atl
syodus itermedius_Atl
tautogolabrus adspersus_Atl
trachiocephalus myops_Atl
trachurus lathami_Atl
trachypeeus costrictus_Atl
trichiurus lepturus_Atl
trichopsetta ventralis_Atl
triglops murrayi_Atl
upeneus parvus_Atl
urophycis chuss_Atl
Mean latitude (°N)
2020
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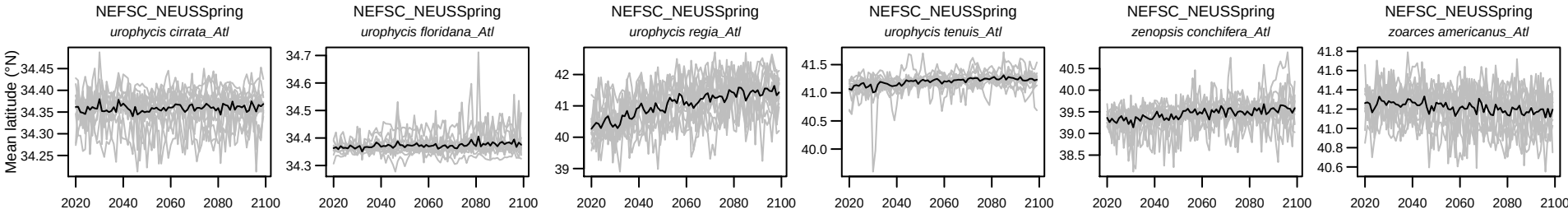
2100


NEFSC_NEUSSpring
urophycis cirrata_Atl
NEFSC_NEUSSpring
urophycis floridana_Atl
NEFSC_NEUSSpring
urophycis regia_Atl
NEFSC_NEUSSpring
urophycis tenuis_Atl
NEFSC_NEUSSpring
zenopsis conchifera_Atl
NEFSC_NEUSSpring
zoarces americanus_Atl
Mean latitude (°N)
34.45
34.40
34.35
34.30
34.25
34.7
34.6
34.5
34.4
34.3
42
41
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39
41.5
41.0
40.5
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39.5
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40.6
2020
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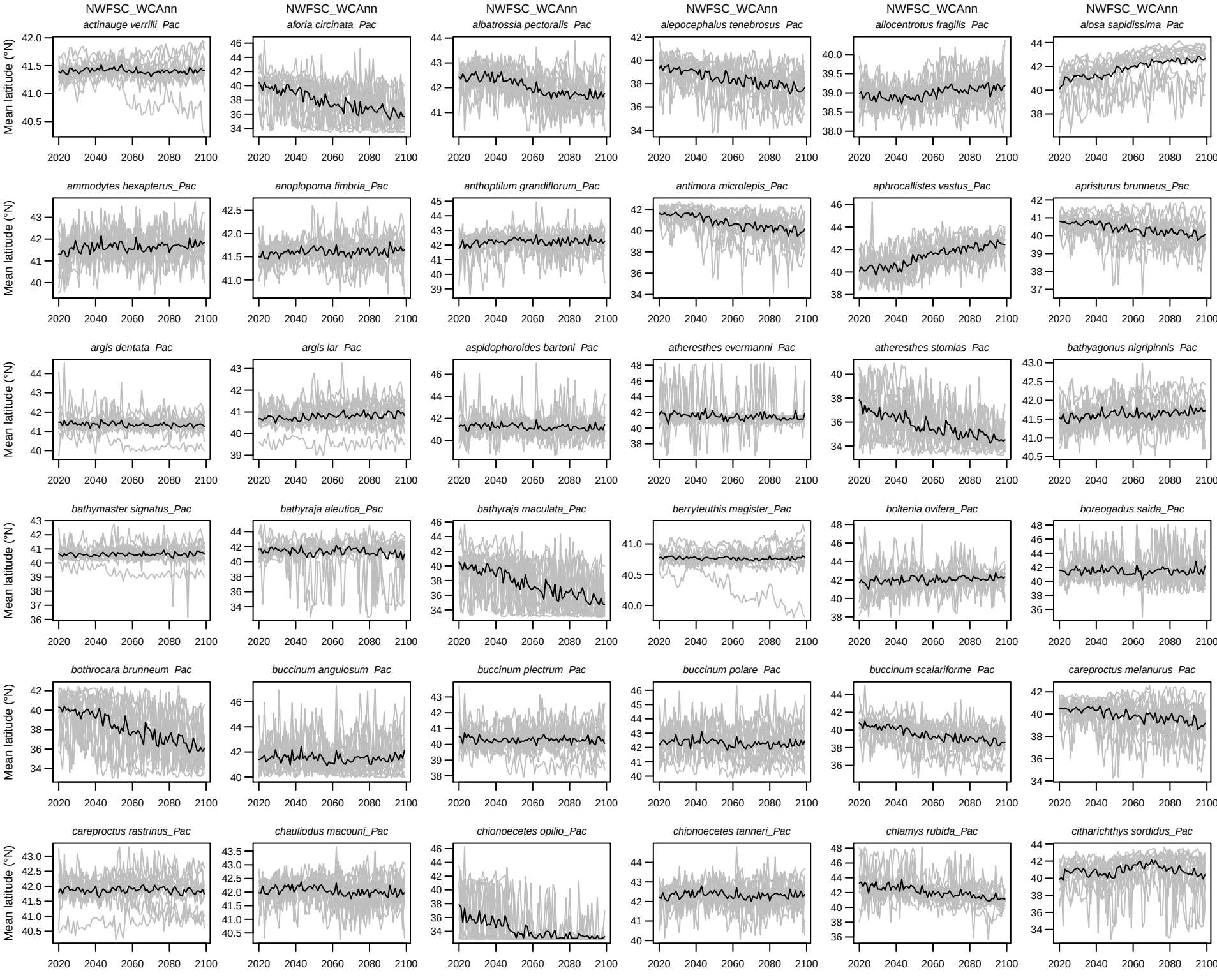
NWFSC_WCAnn
actinauge verrilli_Pac
aforia circinata_Pac
albatrossia pectoralis_Pac
alepocephalus tenebrosus_Pac
allocentrotus fragilis_Pac
alosa sapidissima_Pac
ammodytes hexapterus_Pac
anoplopoma fimbria_Pac
anthoptilum grandiflorum_Pac
antimora microlepis_Pac
aphrocallistes vastus_Pac
apristurus brunneus_Pac
argis dentata_Pac
argis lar_Pac
aspidophoroides bartoni_Pac
atheresthes evermanni_Pac
atheresthes stomias_Pac
bathyagonus nigripinnis_Pac
bathymaster signatus_Pac
bathyraja aleutica_Pac
bathyraja maculata_Pac
berryteuthis magister_Pac
boltenia ovifera_Pac
boreogadus saida_Pac
bothrocara brunneum_Pac
buccinum angulosum_Pac
buccinum plectrum_Pac
buccinum polare_Pac
buccinum scalariforme_Pac
careproctus melanurus_Pac
careproctus rastrinus_Pac
chauliodus macouni_Pac
chionoecetes opilio_Pac
chionoecetes tanneri_Pac
chlamys rubida_Pac
citharichthys sordidus_Pac
Mean latitude (°N)
2020
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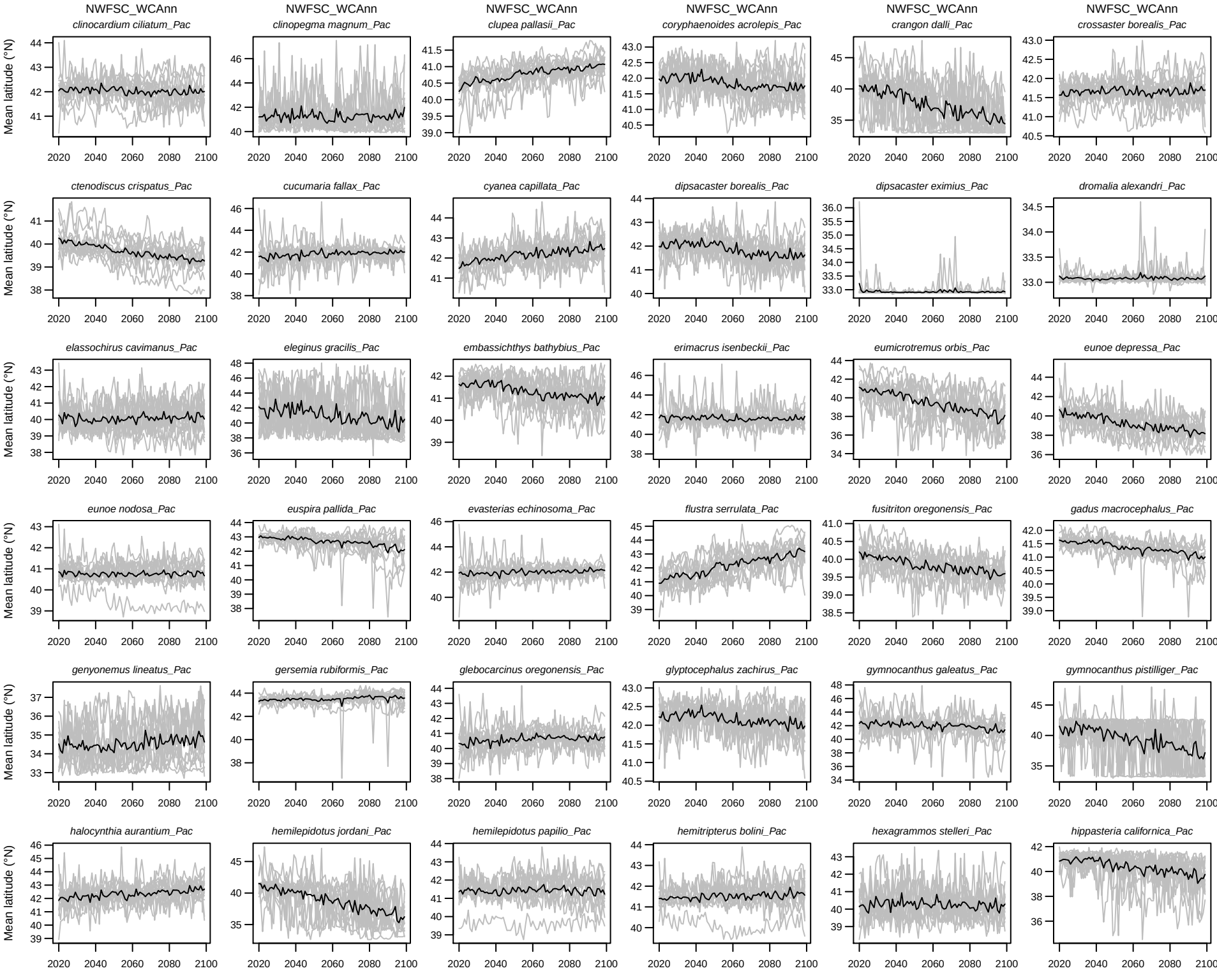
2100


NWFSC_WCAnn
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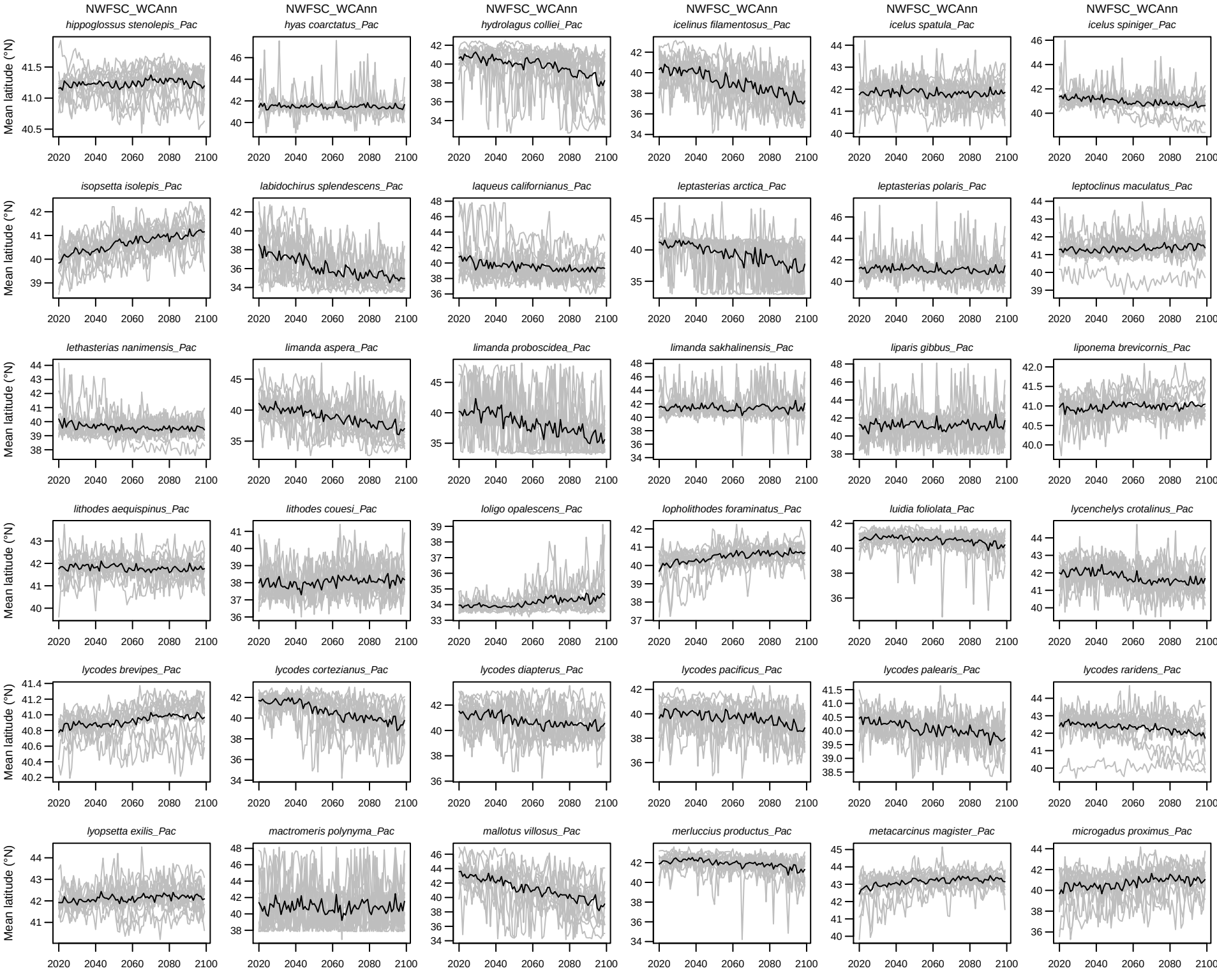
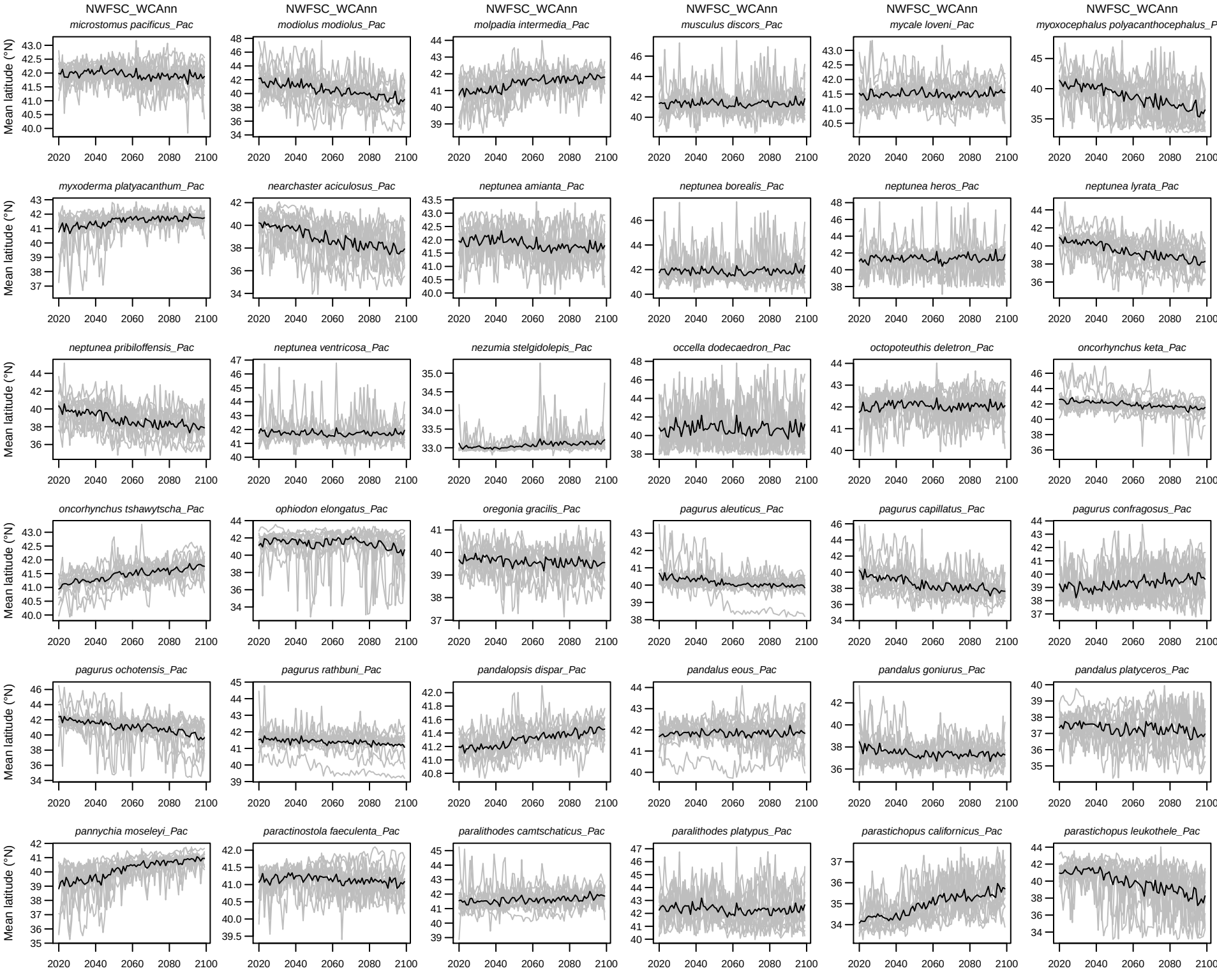
clinopegma magnum_Pac
clupea pallasii_Pac
coryphaenoides acrolepis_Pac
crangon dalli_Pac
crossaster borealis_Pac
ctenodiscus crispatus_Pac
cucumaria fallax_Pac
cyanea capillata_Pac
dipsacaster borealis_Pac
dipsacaster eximius_Pac
dromalia alexandri_Pac
elassochirus cavimanus_Pac
eleginus gracilis_Pac
embassichthys bathybius_Pac
erimacrus isenbeckii_Pac
eumicrotremus orbis_Pac
eunoe depressa_Pac
eunoe nodosa_Pac
euspira pallida_Pac
evasterias echinosoma_Pac
flustra serrulata_Pac
fusitriton oregonensis_Pac
gadus macrocephalus_Pac
genyonemus lineatus_Pac
gersemia rubiformis_Pac
glebocarcinus oregonensis_Pac
glyptocephalus zachirus_Pac
gymnocanthus galeatus_Pac
gymnocanthus pistilliger_Pac
halocynthia aurantium_Pac
hemilepidotus jordani_Pac
hemilepidotus papilio_Pac
hemitripterus bolini_Pac
hexagrammos stelleri_Pac
hippasteria californica_Pac
Mean latitude (°N)
2020
2040
2060
2080
2100


NWFSC_WCAnn
hippoglossus stenolepis_Pac
hyas coarctatus_Pac
hydrolagus colliei_Pac
icelinus filamentosus_Pac
icelus spatula_Pac
icelus spiniger_Pac
isopsetta isolepis_Pac
labidochirus splendescens_Pac
laqueus californianus_Pac
leptasterias arctica_Pac
leptasterias polaris_Pac
leptoclinus maculatus_Pac
lethasterias nanimensis_Pac
limanda aspera_Pac
limanda proboscidea_Pac
limanda sakhalinensis_Pac
liparis gibbus_Pac
liponema brevicornis_Pac
lithodes aequispinus_Pac
lithodes couesi_Pac
loligo opalescens_Pac
lopholithodes foraminatus_Pac
luidia foliolata_Pac
lycenchelys crotalinus_Pac
lycodes brevipes_Pac
lycodes cortezianus_Pac
lycodes diapterus_Pac
lycodes pacificus_Pac
lycodes palearis_Pac
lycodes raridens_Pac
lyopsetta exilis_Pac
mactromeris polynyma_Pac
mallotus villosus_Pac
merluccius productus_Pac
metacarcinus magister_Pac
microgadus proximus_Pac
Mean latitude (°N)
2020
2040
2060
2080
2100


NWFSC_WCAnn
microstomus pacificus_Pac
modiolus modiolus_Pac
molpadia intermedia_Pac
musculus discors_Pac
mycale loveni_Pac
myoxocephalus polyacanthocephalus_P
myxoderma platyacanthum_Pac
nearchaster aciculosus_Pac
neptunea amianta_Pac
neptunea borealis_Pac
neptunea heros_Pac
neptunea lyrata_Pac
neptunea pribiloffensis_Pac
neptunea ventricosa_Pac
nezumia stelgidolepis_Pac
occella dodecaedron_Pac
octopoteuthis deletron_Pac
oncorhynchus keta_Pac
oncorhynchus tshawytscha_Pac
ophiodon elongatus_Pac
oregonia gracilis_Pac
pagurus aleuticus_Pac
pagurus capillatus_Pac
pagurus confragosus_Pac
pagurus ochotensis_Pac
pagurus rathbuni_Pac
pandalopsis dispar_Pac
pandalus eous_Pac
pandalus goniurus_Pac
pandalus platyceros_Pac
pannychia moseleyi_Pac
paractinostola faeculenta_Pac
paralithodes camtschaticus_Pac
paralithodes platypus_Pac
parastichopus californicus_Pac
parastichopus leukothele_Pac
Mean latitude (°N)
2020
2040
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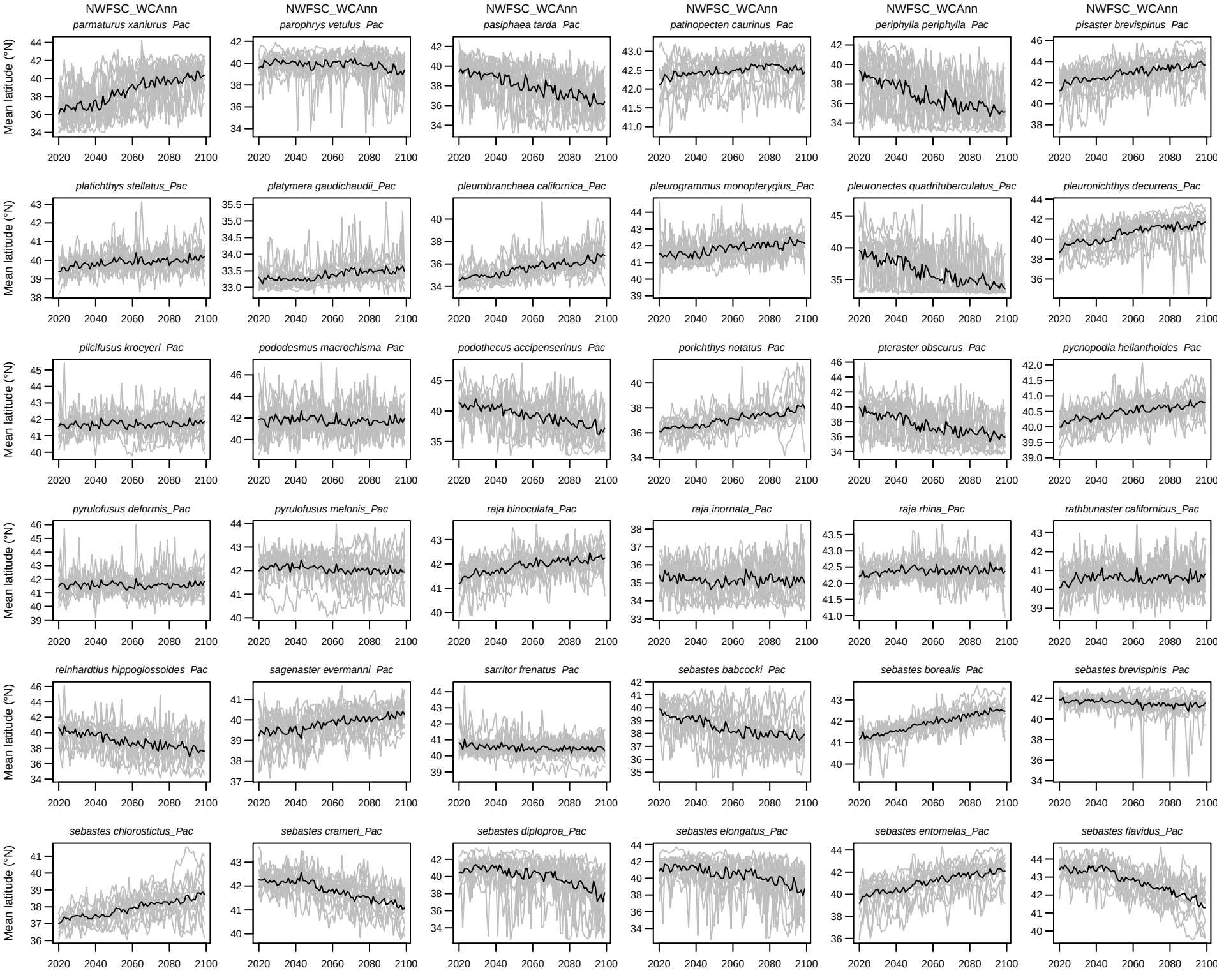
2100


NWFSC_WCAnn
parmaturus xaniurus_Pac
parophrys vetulus_Pac
pasiphaea tarda_Pac
patinopecten caurinus_Pac
periphylla periphylla_Pac
pisaster brevispinus_Pac
platichthys stellatus_Pac
platymera gaudichaudii_Pac
pleurobranchaea californica_Pac
pleurogrammus monopterygius_Pac
pleuronectes quadrituberculatus_Pac
pleuronichthys decurrens_Pac
plicifusus kroeyeri_Pac
pododesmus macrochisma_Pac
podothecus accipenserinus_Pac
porichthys notatus_Pac
pteraster obscurus_Pac
pycnopodia helianthoides_Pac
pyrulofusus deformis_Pac
pyrulofusus melonis_Pac
raja binoculata_Pac
raja inornata_Pac
raja rhina_Pac
rathbunaster californicus_Pac
reinhardtius hippoglossoides_Pac
sagenaster evermanni_Pac
sarritor frenatus_Pac
sebastes babcocki_Pac
sebastes borealis_Pac
sebastes brevispinis_Pac
sebastes chlorostictus_Pac
sebastes crameri_Pac
sebastes diploproa_Pac
sebastes elongatus_Pac
sebastes entomelas_Pac
sebastes flavidus_Pac
Mean latitude (°N)
2020
2040
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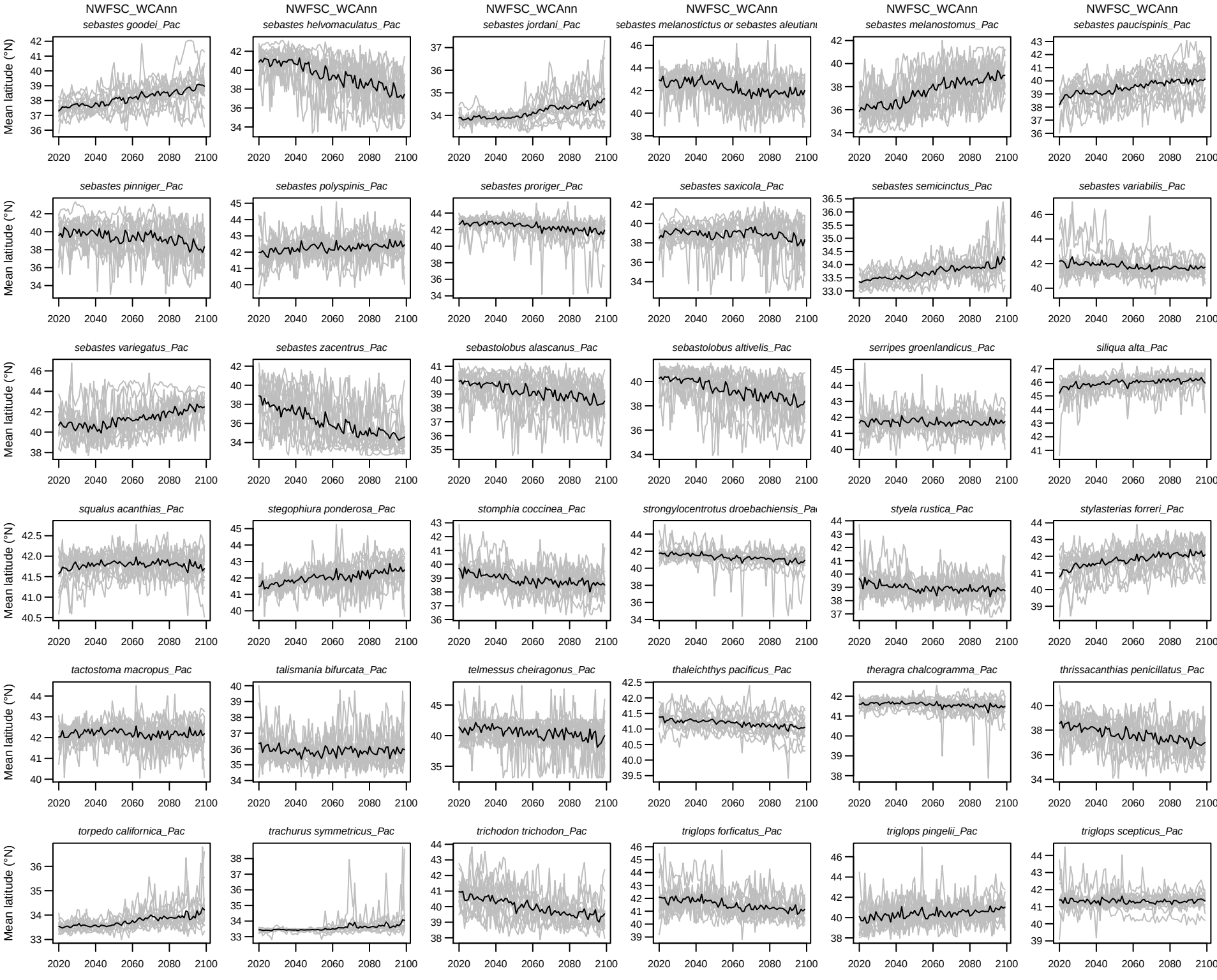
2100


NWFSC_WCAnn
sebastes goodei_Pac
sebastes helvomaculatus_Pac
sebastes jordani_Pac
sebastes melanostictus or sebastes aleutiani
sebastes melanostomus_Pac
sebastes paucispinis_Pac
sebastes pinniger_Pac
sebastes polyspinis_Pac
sebastes proriger_Pac
sebastes saxicola_Pac
sebastes semicinctus_Pac
sebastes variabilis_Pac
sebastes variegatus_Pac
sebastes zacentrus_Pac
sebastolobus alascanus_Pac
sebastolobus altivelis_Pac
serripes groenlandicus_Pac
siliqua alta_Pac
squalus acanthias_Pac
stegophiura ponderosa_Pac
stomphia coccinea_Pac
strongylocentrotus droebachiensis_Pa
styela rustica_Pac
stylasterias forreri_Pac
tactostoma macropus_Pac
talismania bifurcata_Pac
telmessus cheiragonus_Pac
thaleichthys pacificus_Pac
theragra chalcogramma_Pac
thrissacanthias penicillatus_Pac
torpedo californica_Pac
trachurus symmetricus_Pac
trichodon trichodon_Pac
triglops forficatus_Pac
triglops pingelii_Pac
triglops scepticus_Pac
Mean latitude (°N)
2020
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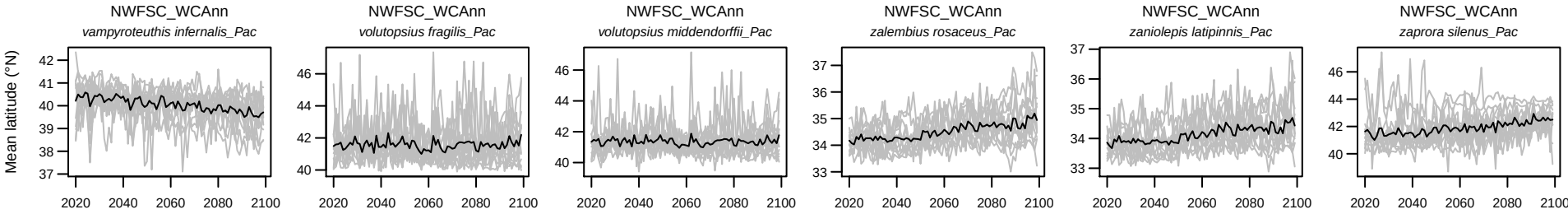
NWFSC_WCAnn
vampyroteuthis infernalis_Pac
NWFSC_WCAnn
volutopsius fragilis_Pac
NWFSC_WCAnn
volutopsius middendorffii_Pac
NWFSC_WCAnn
zalembius rosaceus_Pac
NWFSC_WCAnn
zaniolepis latipinnis_Pac
NWFSC_WCAnn
zaprora silenus_Pac
Mean latitude (°N)
2020
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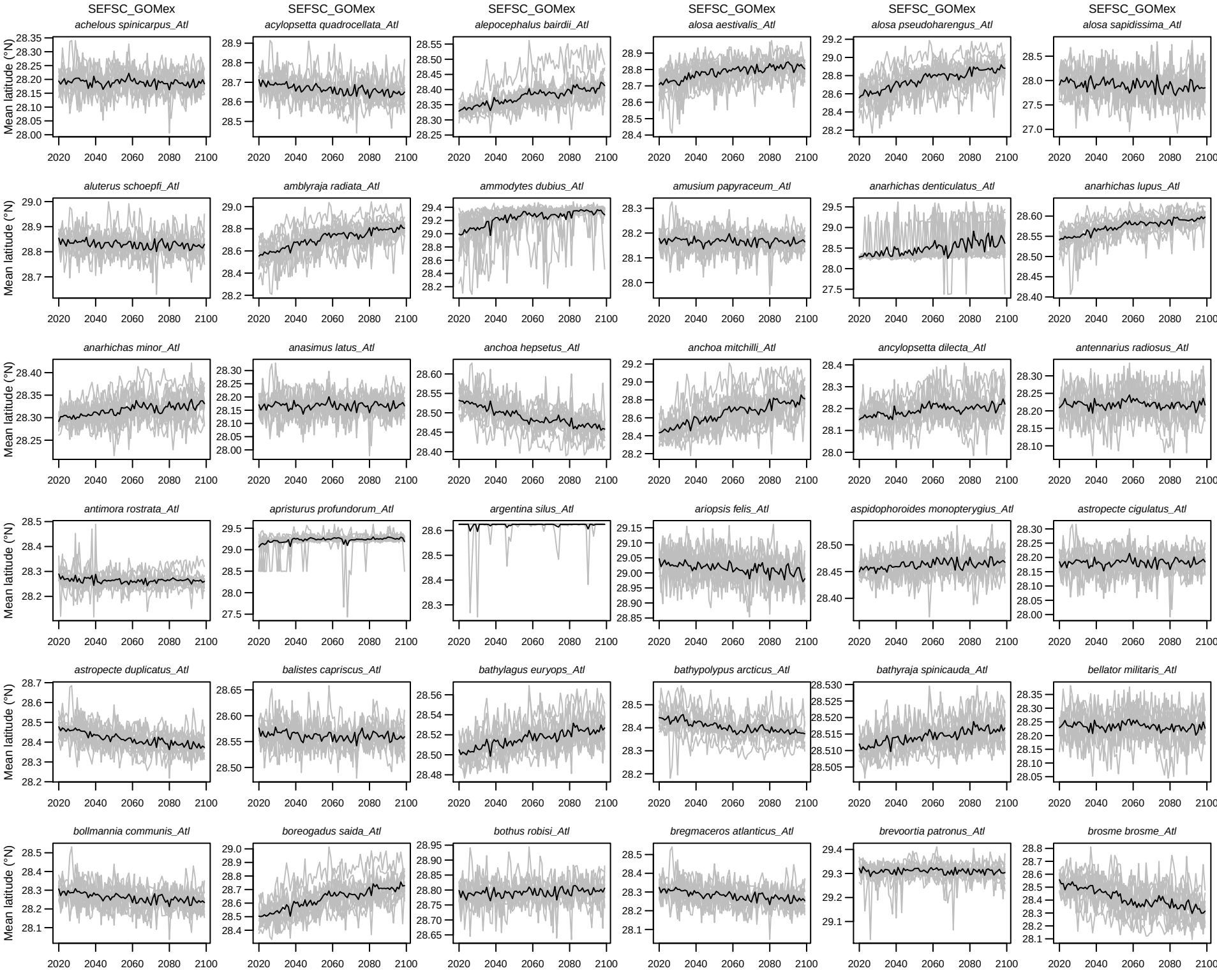
SEFSC_GOMex
achelous spinicarpus_Atl
acylopsetta quadrocellata_Atl
alepocephalus bairdii_Atl
alosa aestivalis_Atl
alosa pseudoharengus_Atl
alosa sapidissima_Atl
aluterus schoepfi_Atl
amblyraja radiata_Atl
ammodytes dubius_Atl
amusium papyraceum_Atl
anarhichas denticulatus_Atl
anarhichas lupus_Atl
anarhichas minor_Atl
anasimus latus_Atl
anchoa hepsetus_Atl
anchoa mitchilli_Atl
ancylopsetta dilecta_Atl
antennarius radiosus_Atl
antimora rostrata_Atl
apristurus profundorum_Atl
argentina silus_Atl
ariopsis felis_Atl
aspidophoroides monopterygius_Atl
astropecte cigulatus_Atl
astropecte duplicatus_Atl
balistes capriscus_Atl
bathylagus euryops_Atl
bathypolypus arcticus_Atl
bathyraja spinicauda_Atl
bellator militaris_Atl
bollmannia communis_Atl
boreogadus saida_Atl
bothus robisi_Atl
bregmaceros atlanticus_Atl
brevoortia patronus_Atl
brosme brosme_Atl
Mean latitude (°N)
2020
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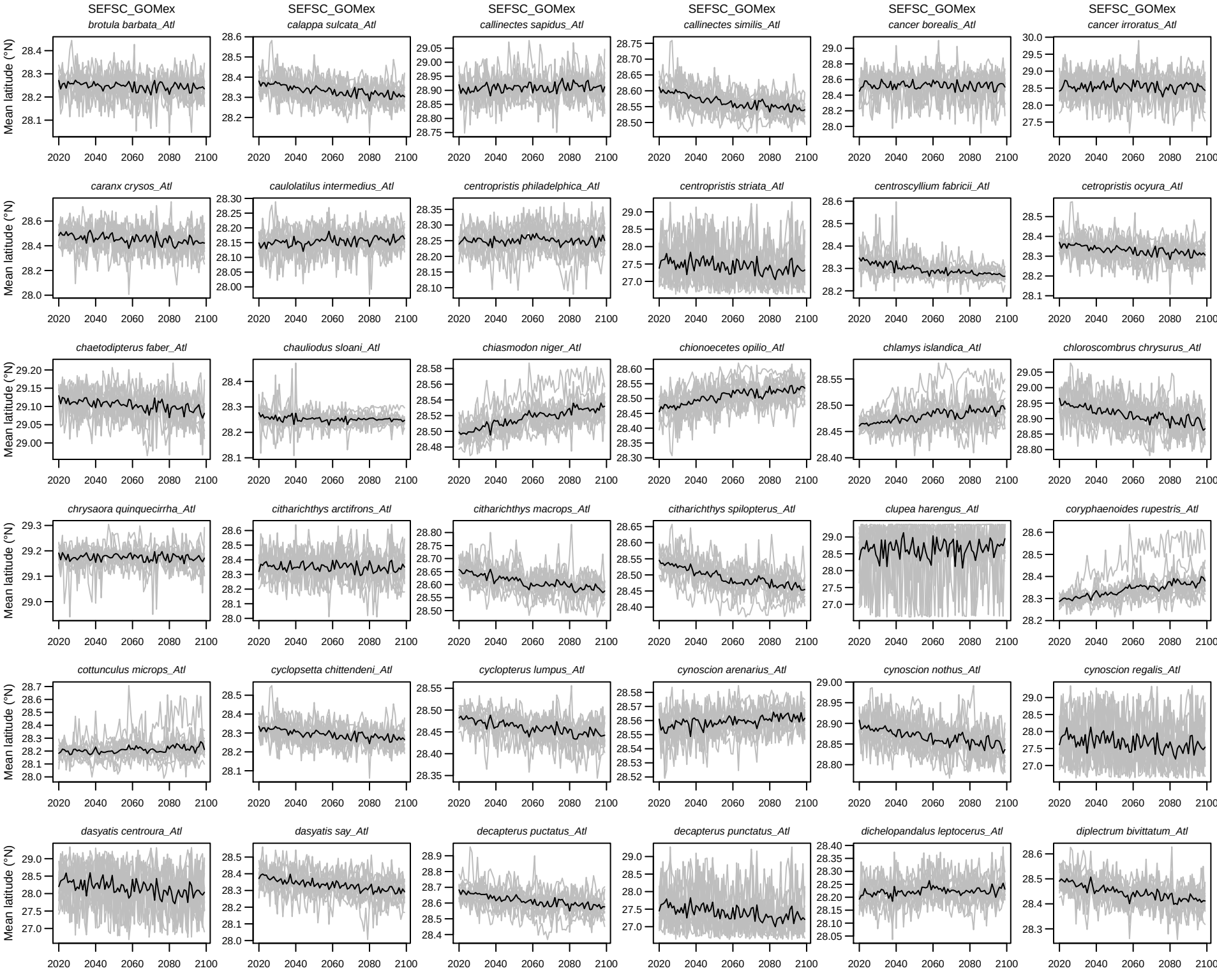
2100


SEFSC_GOMex
brotula barbata_Atl
calappa sulcata_Atl
callinectes sapidus_Atl
callinectes similis_Atl
cancer borealis_Atl
cancer irroratus_Atl
caranx crysos_Atl
caulolatilus intermedius_Atl
centropristis philadelphica_Atl
centropristis striata_Atl
centroscyllium fabricii_Atl
cetropristis ocyura_Atl
chaetodipterus faber_Atl
chauliodus sloani_Atl
chiasmodon niger_Atl
chionoecetes opilio_Atl
chlamys islandica_Atl
chloroscombrus chrysurus_Atl
chrysaora quinquecirrha_Atl
citharichthys arctifrons_Atl
citharichthys macrops_Atl
citharichthys spilopterus_Atl
clupea harengus_Atl
coryphaenoides rupestris_Atl
cottunculus microps_Atl
cyclopsetta chittendeni_Atl
cyclopterus lumpus_Atl
cynoscion arenarius_Atl
cynoscion nothus_Atl
cynoscion regalis_Atl
dasyatis centroura_Atl
dasyatis say_Atl
decapterus puctatus_Atl
decapterus punctatus_Atl
dichelopandalus leptocerus_Atl
diplectrum bivittatum_Atl
Mean latitude (°N)
2020
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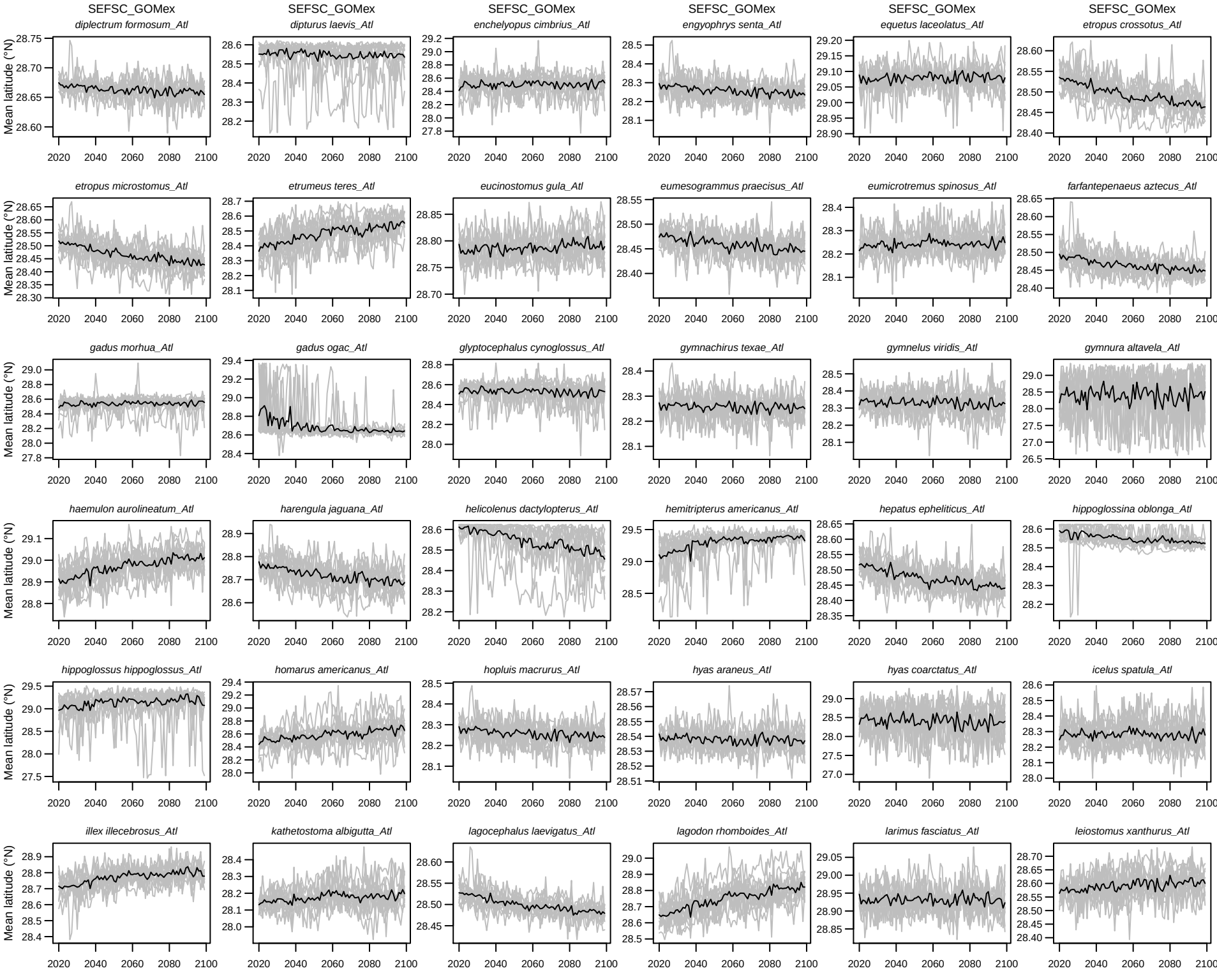
2100


SEFSC_GOMex
diplectrum formosum_Atl
dipturus laevis_Atl
enchelyopus cimbrius_Atl
engyophrys senta_Atl
equetus laceolatus_Atl
etropus crossotus_Atl
etropus microstomus_Atl
etrumeus teres_Atl
eucinostomus gula_Atl
eumesogrammus praecisus_Atl
eumicrotremus spinosus_Atl
farfantepenaeus aztecus_Atl
gadus morhua_Atl
gadus ogac_Atl
glyptocephalus cynoglossus_Atl
gymnachirus texae_Atl
gymnelus viridis_Atl
gymnura altavela_Atl
haemulon aurolineatum_Atl
harengula jaguana_Atl
helicolenus dactylopterus_Atl
hemitripterus americanus_Atl
hepatus epheliticus_Atl
hippoglossina oblonga_Atl
hippoglossus hippoglossus_Atl
homarus americanus_Atl
hopluis macrurus_Atl
hyas araneus_Atl
hyas coarctatus_Atl
icelus spatula_Atl
illex illecebrosus_Atl
kathetostoma albigutta_Atl
lagocephalus laevigatus_Atl
lagodon rhomboides_Atl
larimus fasciatus_Atl
leiostomus xanthurus_Atl
Mean latitude (°N)
2020
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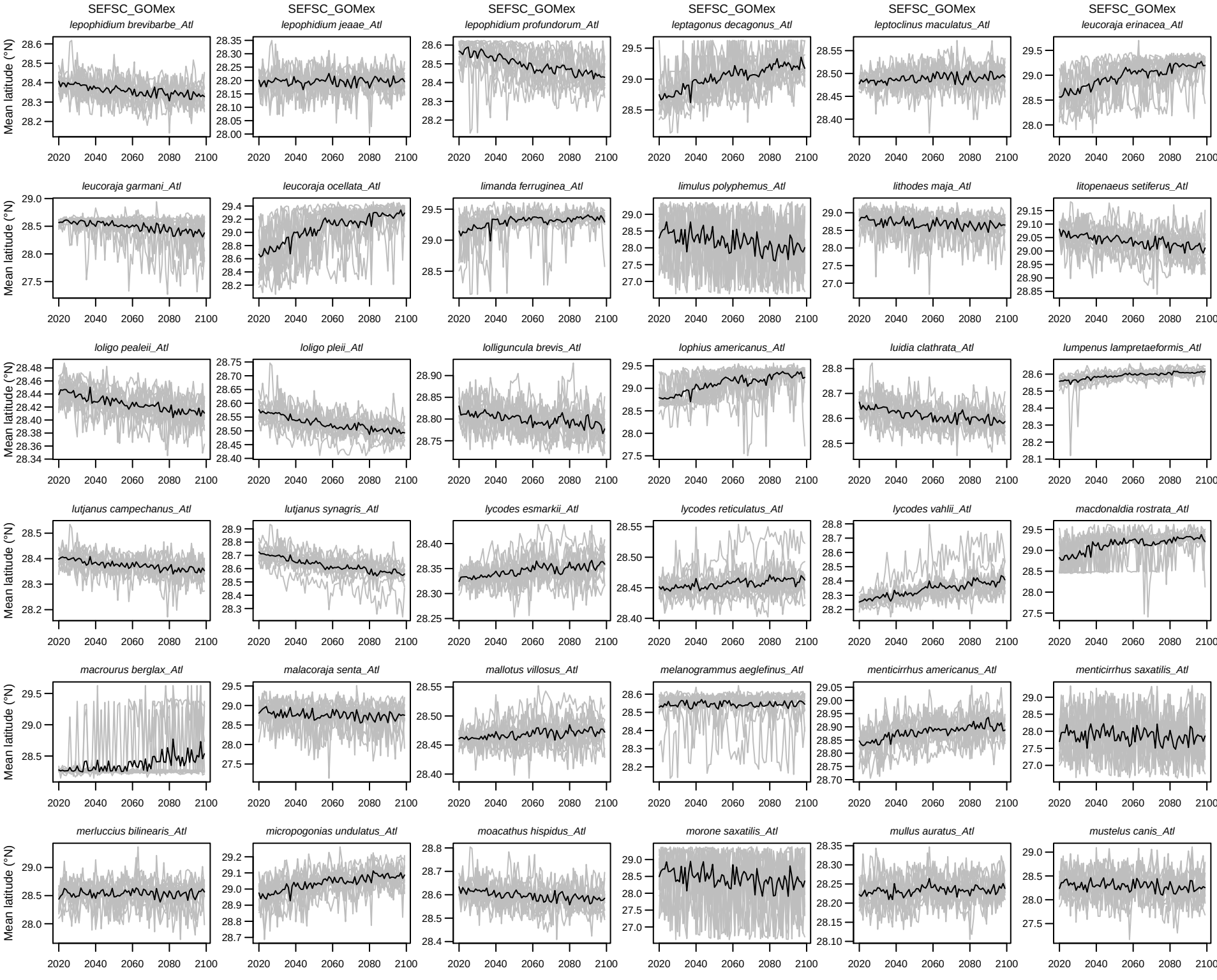
SEFSC_GOMex
lepophidium brevibarbe_Atl
lepophidium jeaae_Atl
lepophidium profundorum_Atl
leptagonus decagonus_Atl
leptoclinus maculatus_Atl
leucoraja erinacea_Atl
leucoraja garmani_Atl
leucoraja ocellata_Atl
limanda ferruginea_Atl
limulus polyphemus_Atl
lithodes maja_Atl
litopenaeus setiferus_Atl
loligo pealeii_Atl
loligo pleii_Atl
lolliguncula brevis_Atl
lophius americanus_Atl
luidia clathrata_Atl
lumpenus lampretaeformis_Atl
lutjanus campechanus_Atl
lutjanus synagris_Atl
lycodes esmarkii_Atl
lycodes reticulatus_Atl
lycodes vahlii_Atl
macdonaldia rostrata_Atl
macrourus berglax_Atl
malacoraja senta_Atl
mallotus villosus_Atl
melanogrammus aeglefinus_Atl
menticirrhus americanus_Atl
menticirrhus saxatilis_Atl
merluccius bilinearis_Atl
micropogonias undulatus_Atl
moacathus hispidus_Atl
morone saxatilis_Atl
mullus auratus_Atl
mustelus canis_Atl
Mean latitude (°N)
2020
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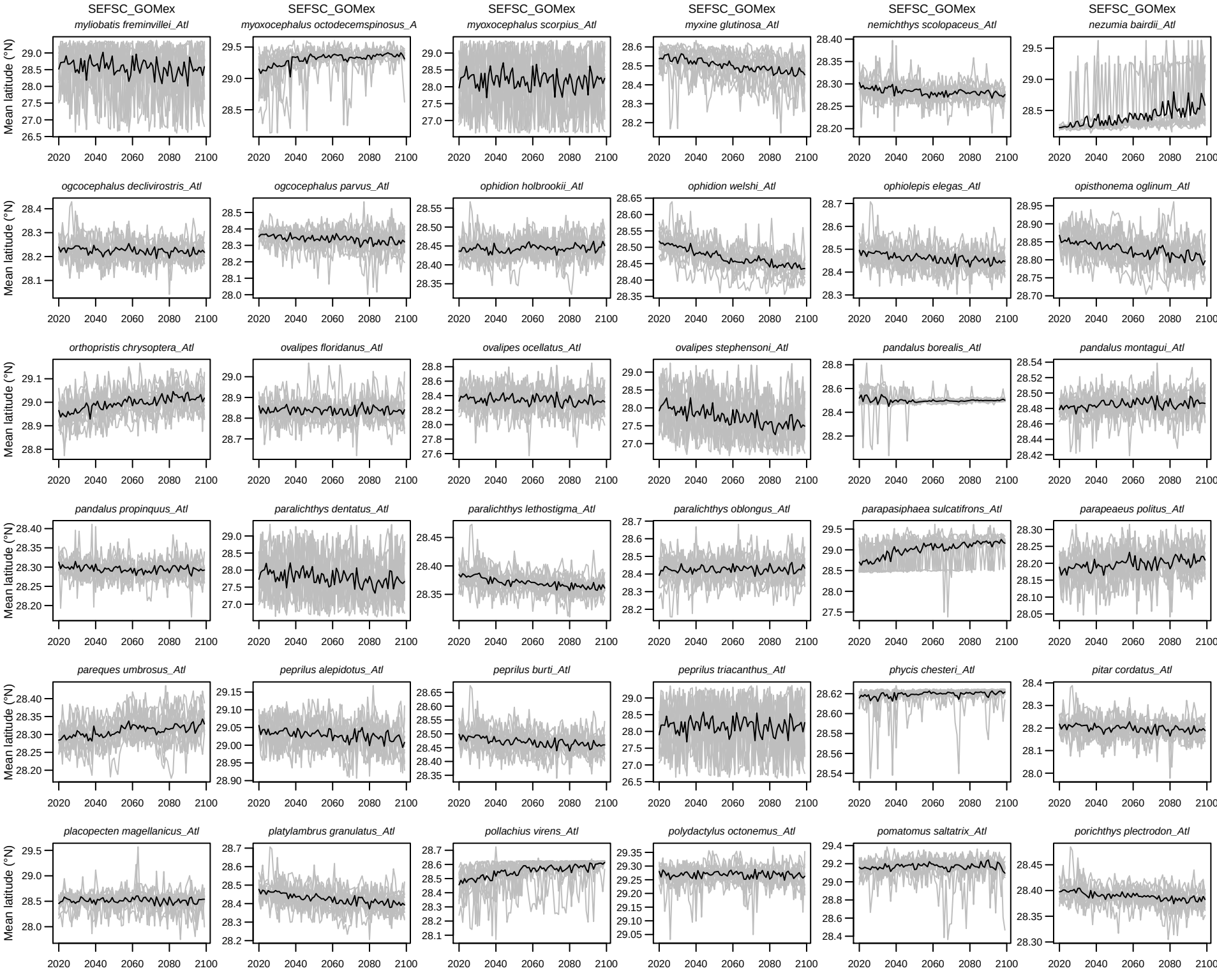
SEFSC_GOMex
myliobatis freminvillei_Atl
myoxocephalus octodecemspinosus_A
myoxocephalus scorpius_Atl
myxine glutinosa_Atl
nemichthys scolopaceus_Atl
nezumia bairdii_Atl
ogcocephalus declivirostris_Atl
ogcocephalus parvus_Atl
ophidion holbrookii_Atl
ophidion welshi_Atl
ophiolepis elegas_Atl
opisthonema oglinum_Atl
orthopristis chrysoptera_Atl
ovalipes floridanus_Atl
ovalipes ocellatus_Atl
ovalipes stephensoni_Atl
pandalus borealis_Atl
pandalus montagui_Atl
pandalus propinquus_Atl
paralichthys dentatus_Atl
paralichthys lethostigma_Atl
paralichthys oblongus_Atl
parapasiphaea sulcatifrons_Atl
parapeaeus politus_Atl
pareques umbrosus_Atl
peprilus alepidotus_Atl
peprilus burti_Atl
peprilus triacanthus_Atl
phycis chesteri_Atl
pitar cordatus_Atl
placopecten magellanicus_Atl
platylambrus granulatus_Atl
pollachius virens_Atl
polydactylus octonemus_Atl
pomatomus saltatrix_Atl
porichthys plectrodon_Atl
Mean latitude (°N)
2020
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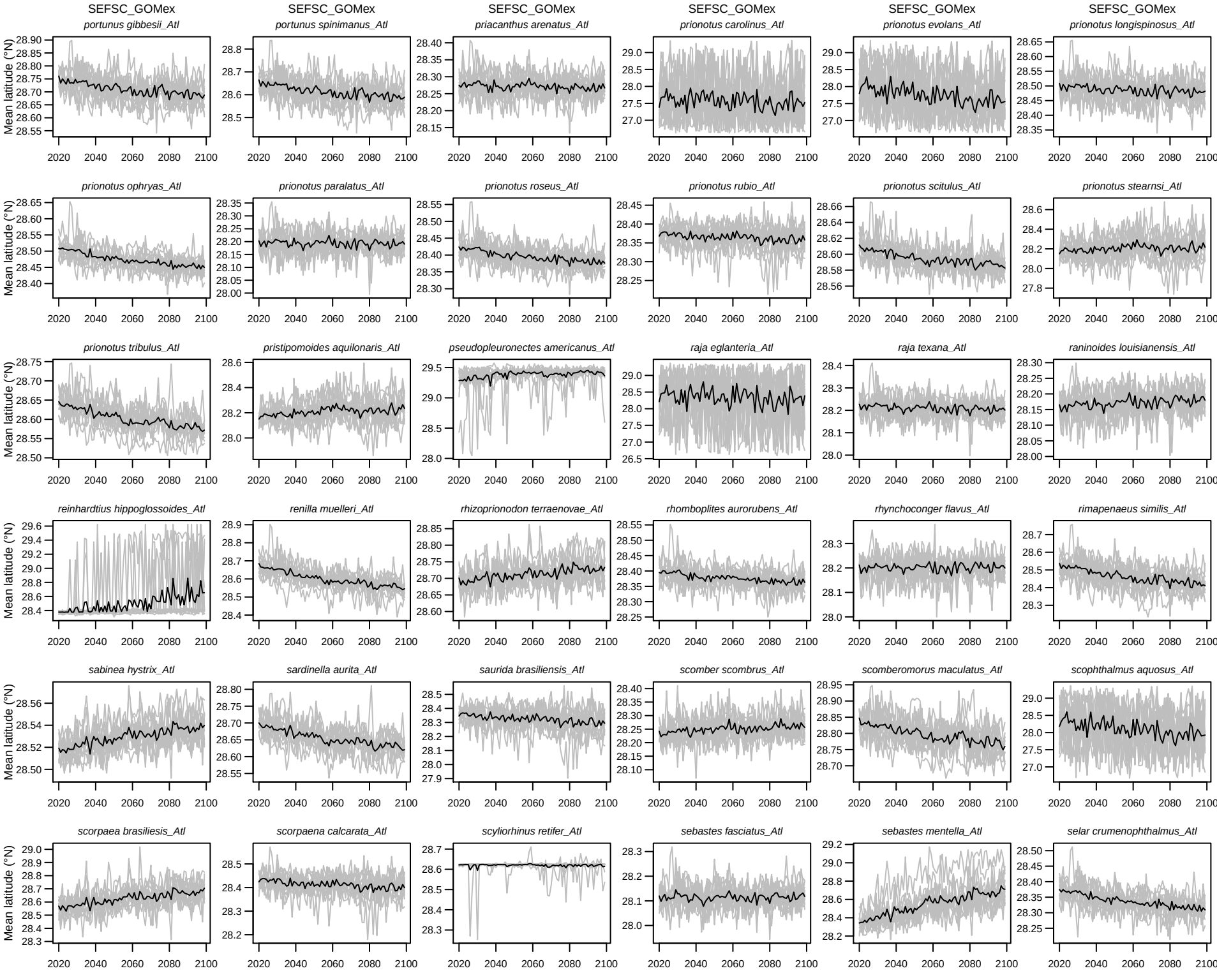
SEFSC_GOMex
portunus gibbesii_Atl
portunus spinimanus_Atl
priacanthus arenatus_Atl
prionotus carolinus_Atl
prionotus evolans_Atl
prionotus longispinosus_Atl
prionotus ophryas_Atl
prionotus paralatus_Atl
prionotus roseus_Atl
prionotus rubio_Atl
prionotus scitulus_Atl
prionotus stearnsi_Atl
prionotus tribulus_Atl
pristipomoides aquilonaris_Atl
pseudopleuronectes americanus_Atl
raja eglanteria_Atl
raja texana_Atl
raninoides louisianensis_Atl
reinhardtius hippoglossoides_Atl
renilla muelleri_Atl
rhizoprionodon terraenovae_Atl
rhomboplites aurorubens_Atl
rhynchoconger flavus_Atl
rimapenaeus similis_Atl
sabinea hystrix_Atl
sardinella aurita_Atl
saurida brasiliensis_Atl
scomber scombrus_Atl
scomberomorus maculatus_Atl
scophthalmus aquosus_Atl
scorpaea brasiliesis_Atl
scorpaena calcarata_Atl
scyliorhinus retifer_Atl
sebastes fasciatus_Atl
sebastes mentella_Atl
selar crumenophthalmus_Atl
Mean latitude (°N)
2020
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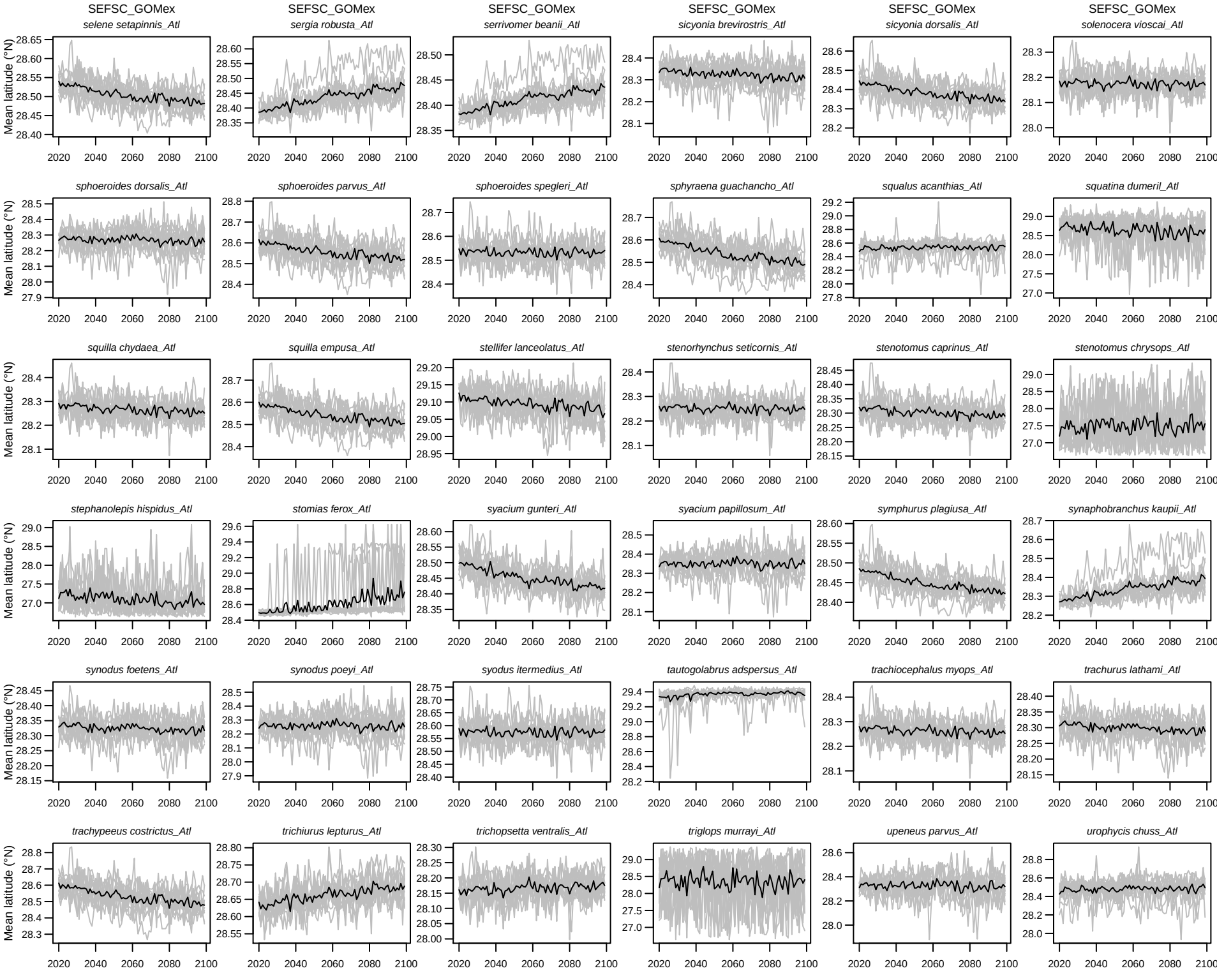
SEFSC_GOMex
selene setapinnis_Atl
sergia robusta_Atl
serrivomer beanii_Atl
sicyonia brevirostris_Atl
sicyonia dorsalis_Atl
solenocera vioscai_Atl
sphoeroides dorsalis_Atl
sphoeroides parvus_Atl
sphoeroides spegleri_Atl
sphyraena guachancho_Atl
squalus acanthias_Atl
squatina dumeril_Atl
squilla chydaea_Atl
squilla empusa_Atl
stellifer lanceolatus_Atl
stenorhynchus seticornis_Atl
stenotomus caprinus_Atl
stenotomus chrysops_Atl
stephanolepis hispidus_Atl
stomias ferox_Atl
syacium gunteri_Atl
syacium papillosum_Atl
symphurus plagiusa_Atl
synaphobranchus kaupii_Atl
synodus foetens_Atl
synodus poeyi_Atl
syodus itermedius_Atl
tautogolabrus adspersus_Atl
trachiocephalus myops_Atl
trachurus lathami_Atl
trachypeeus costrictus_Atl
trichiurus lepturus_Atl
trichopsetta ventralis_Atl
triglops murrayi_Atl
upeneus parvus_Atl
urophycis chuss_Atl
Mean latitude (°N)
2020
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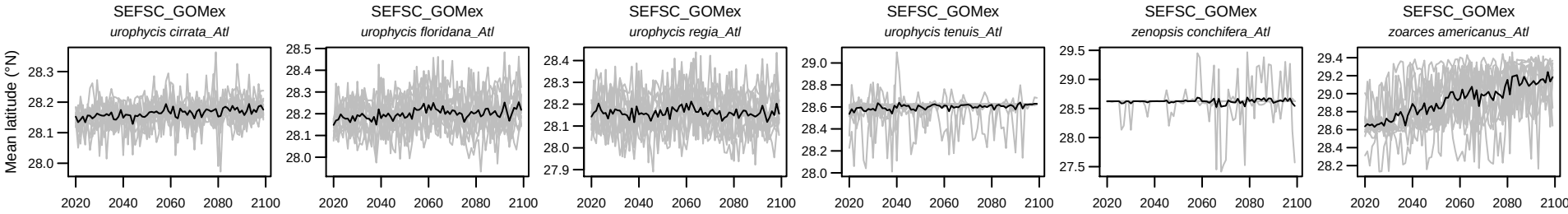
SEFSC_GOMex
urophycis cirrata_Atl
SEFSC_GOMex
urophycis floridana_Atl
SEFSC_GOMex
urophycis regia_Atl
SEFSC_GOMex
urophycis tenuis_Atl
SEFSC_GOMex
zenopsis conchifera_Atl
SEFSC_GOMex
zoarces americanus_Atl
Mean latitude (°N)
2020
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2080
2100