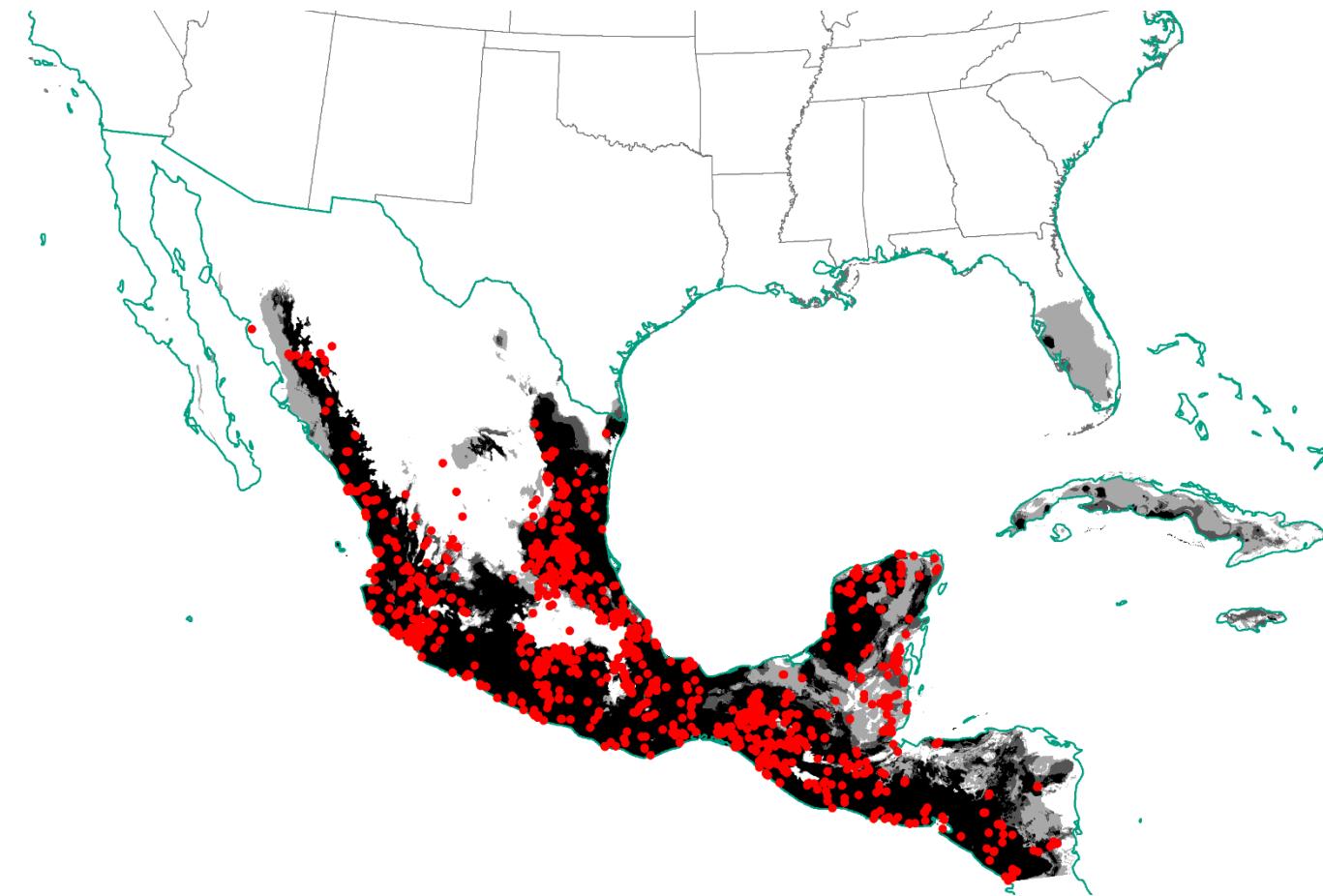


Comparison of ensemble maps for Vampire bats in North America

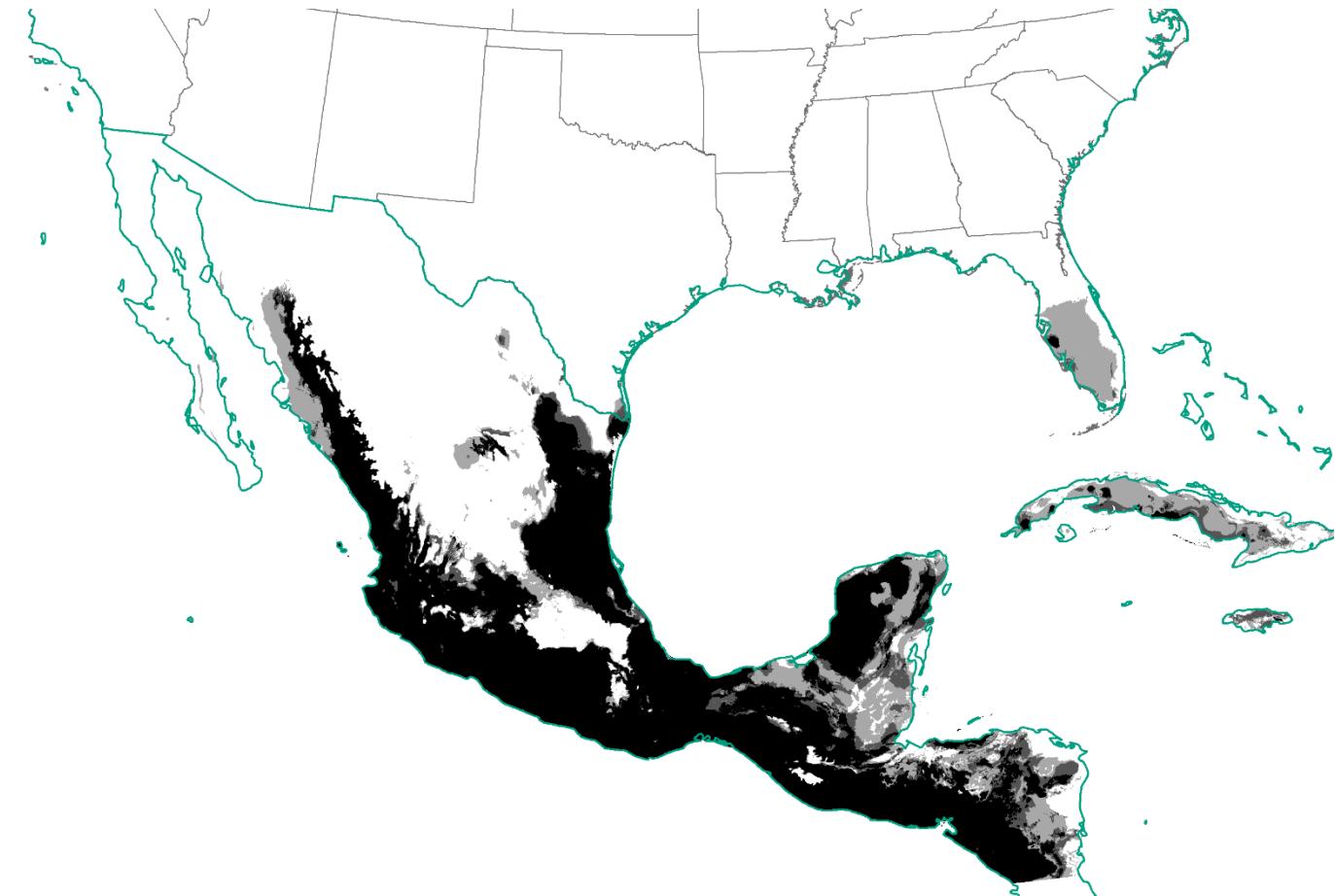
Hayes and Piaggio 2017

Using the downscaled global climate model data from CMIP5 (IPPC Fifth Assessment) and the 8.5 representative concentration pathway (which represents the greatest difference from current climate)

Ensemble map under current climate with Vampire locations

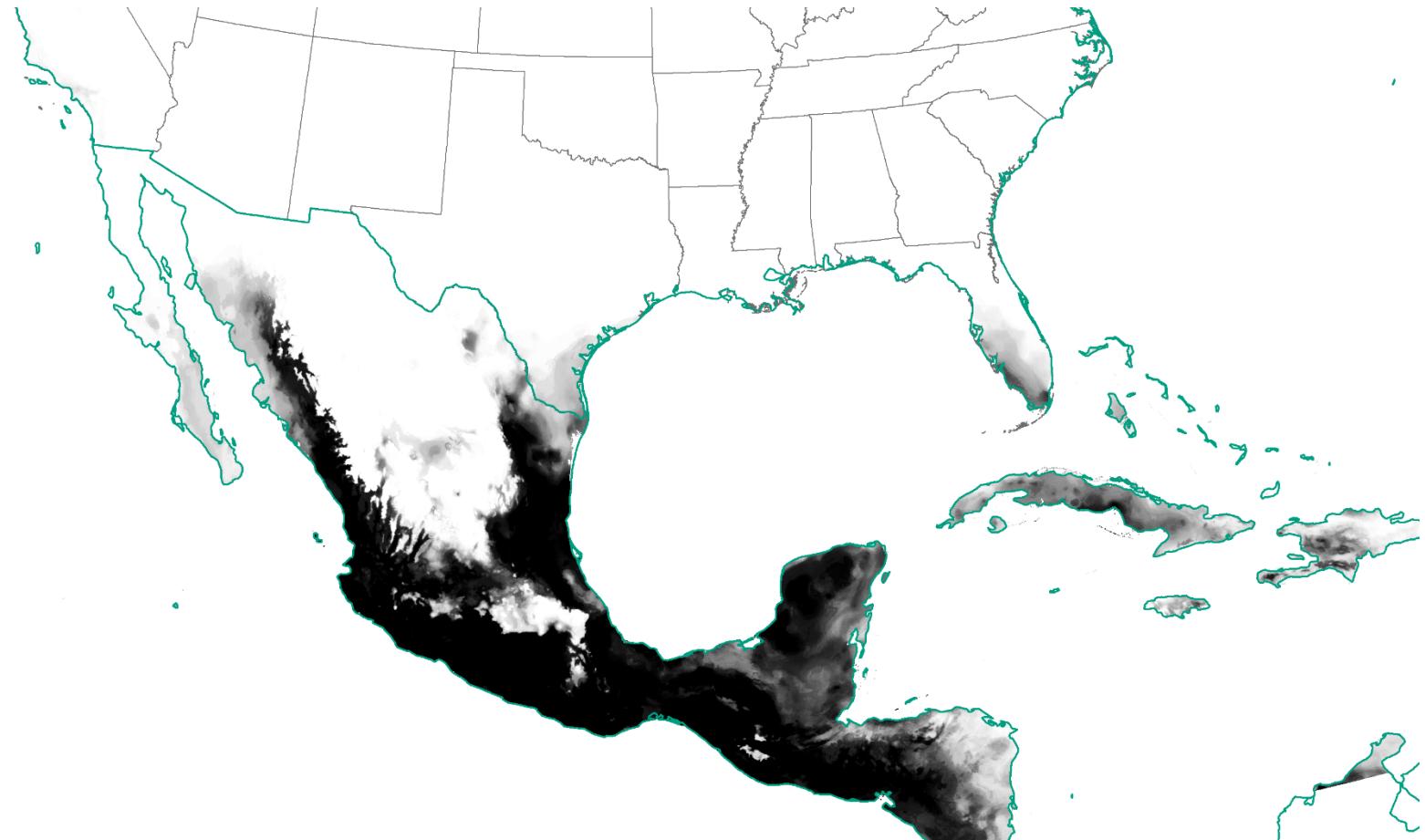


Ensemble map under current climate without Vampire locations



“Grand” ensemble map

17 future climate projections using 5 SDM approaches = 85 models

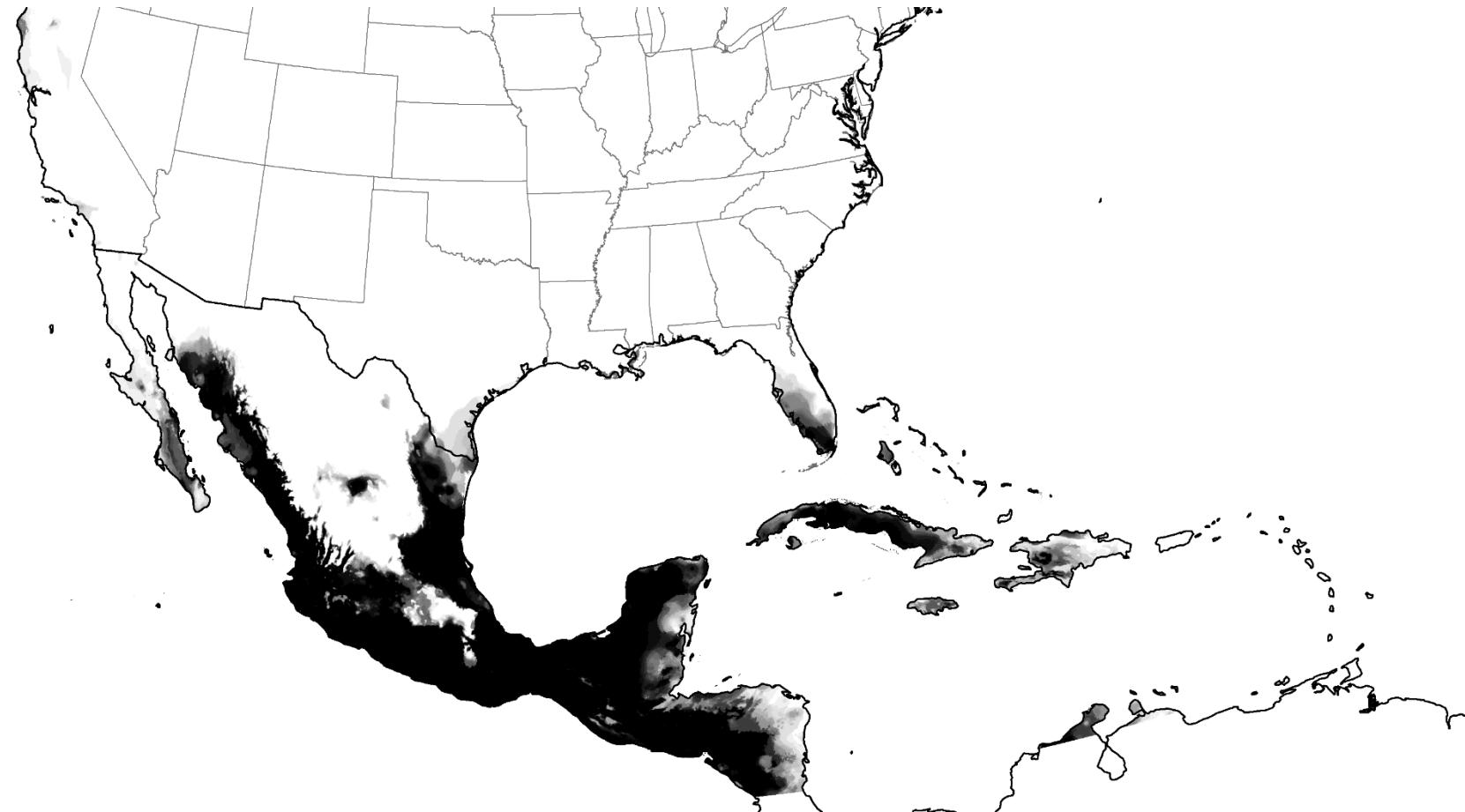


Future climate maps by SDM approach

Each with an ensemble of 17 future climate models

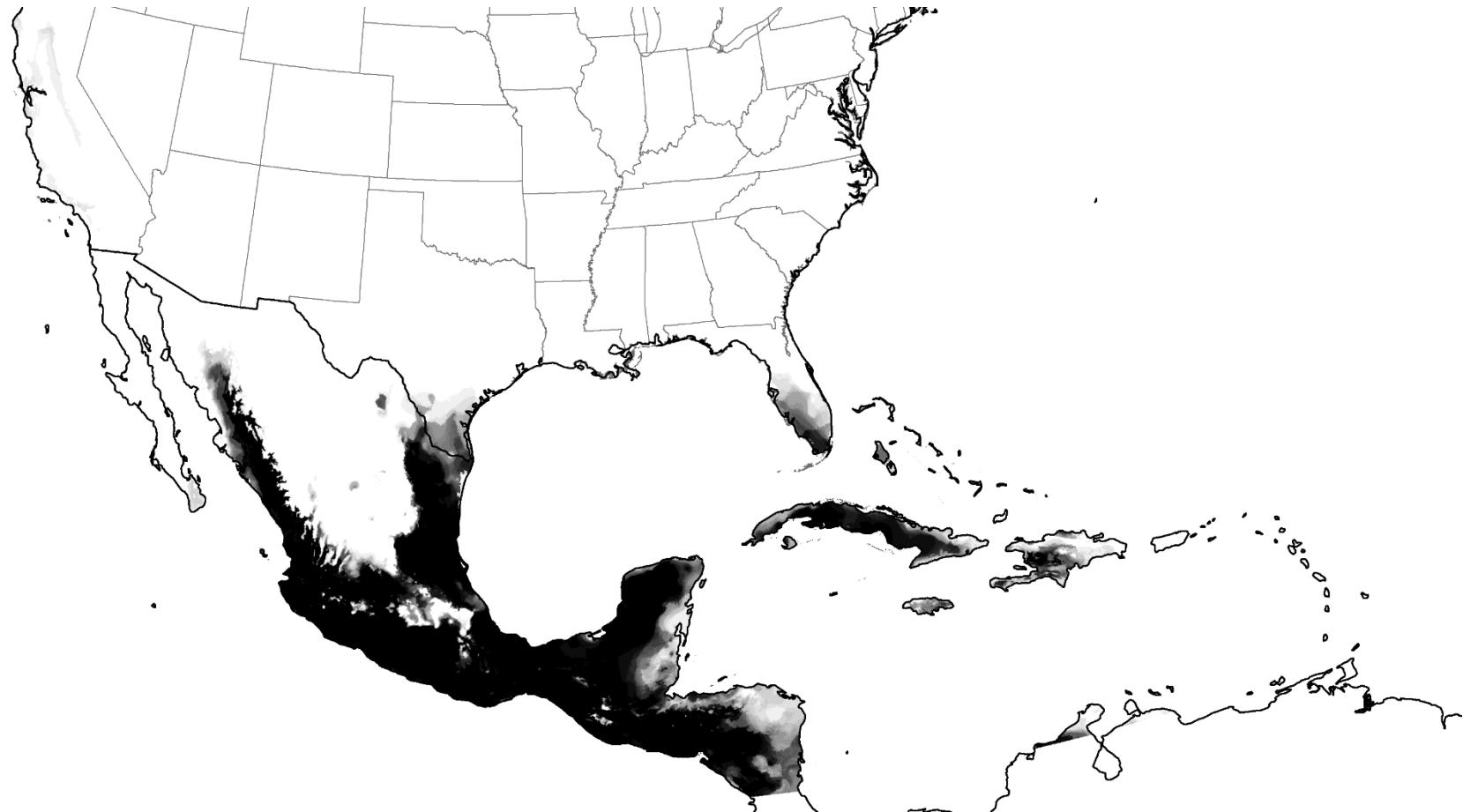
GLM ensemble map

17 future climate projections using generalized linear model
logistic regression approach



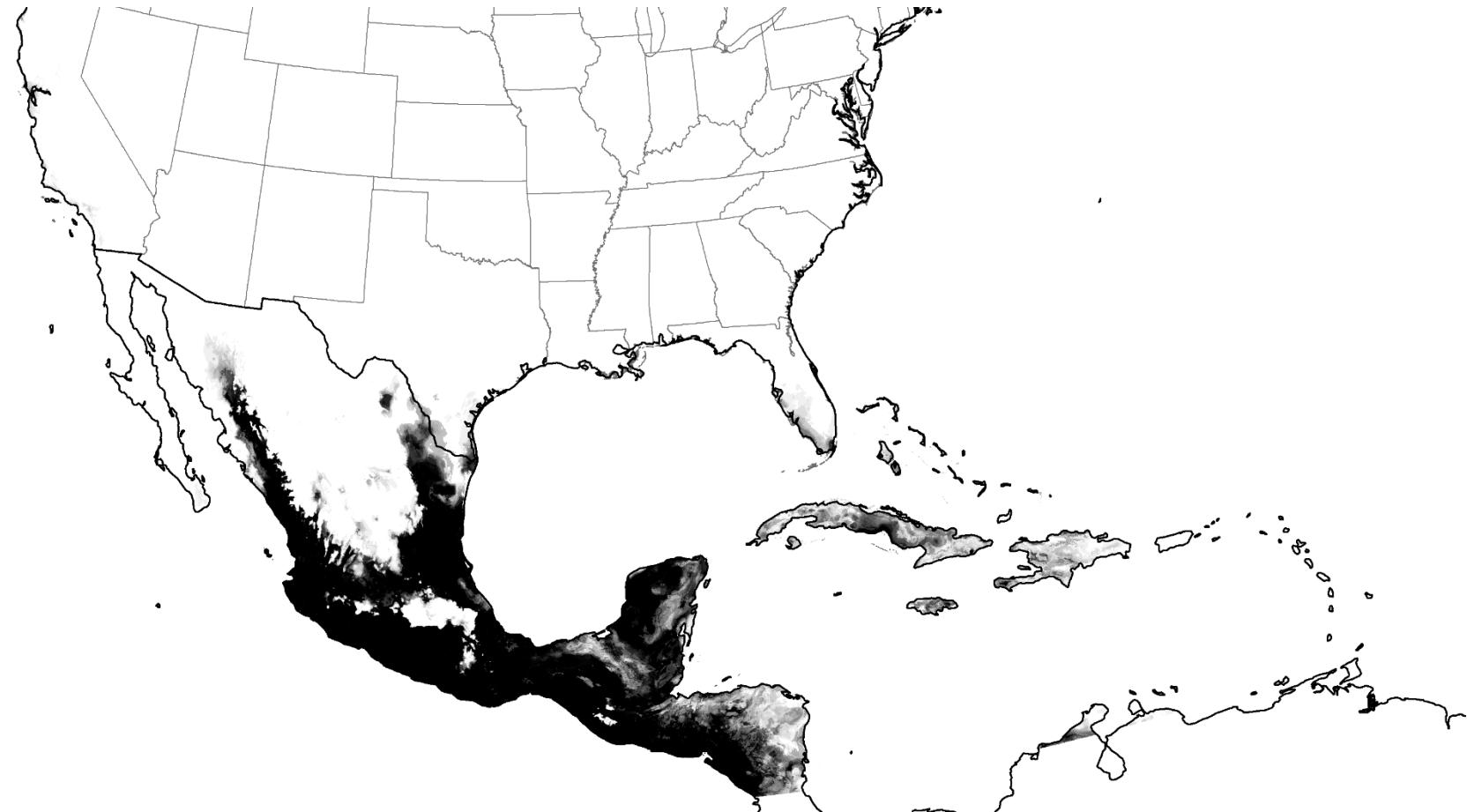
MARS ensemble map

17 future climate projections using multivariate adaptive regression splines approach



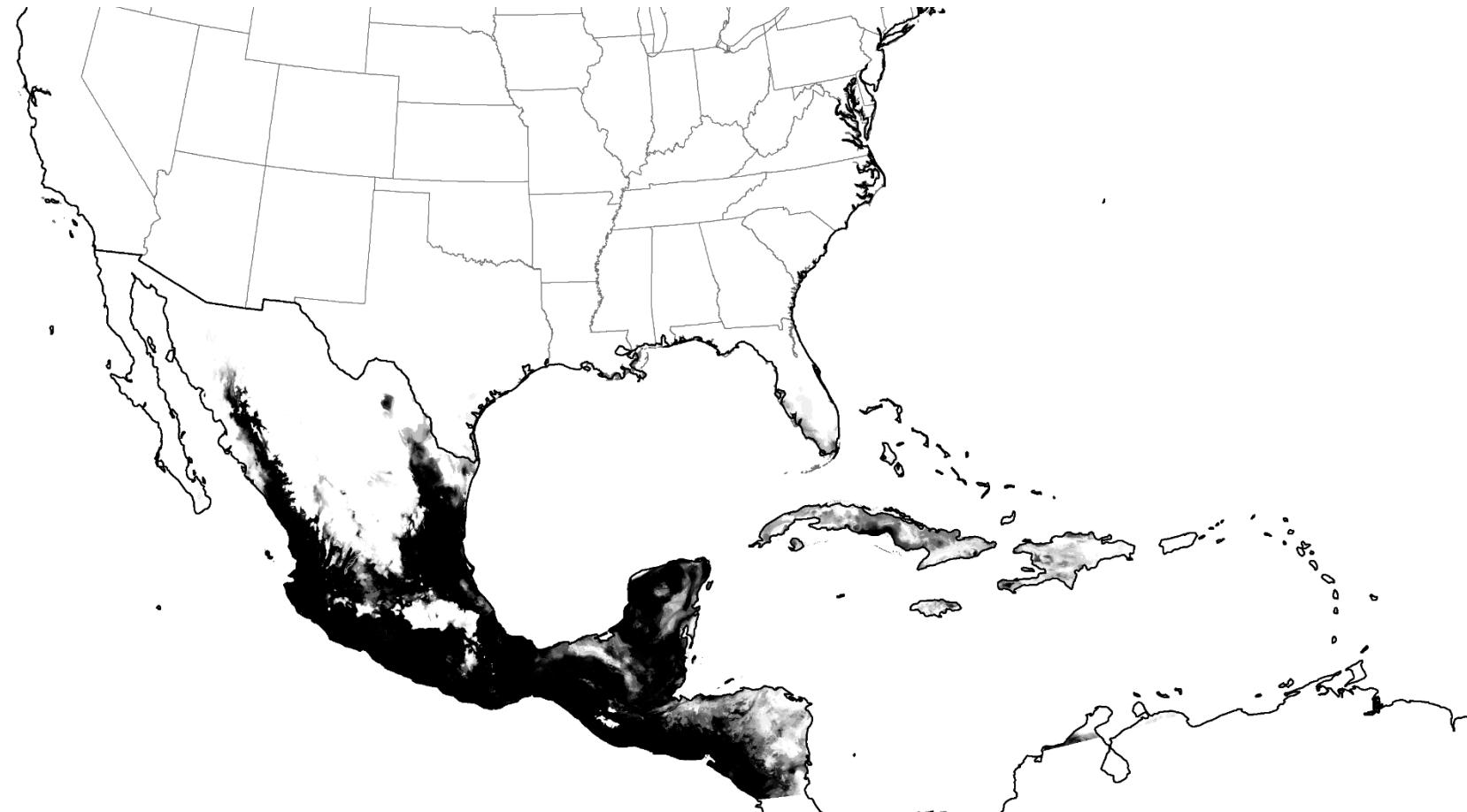
BRT ensemble map

17 future climate projections using boosted regression tree approach



RF ensemble map

17 future climate projections using the random forest approach



Maxent ensemble map

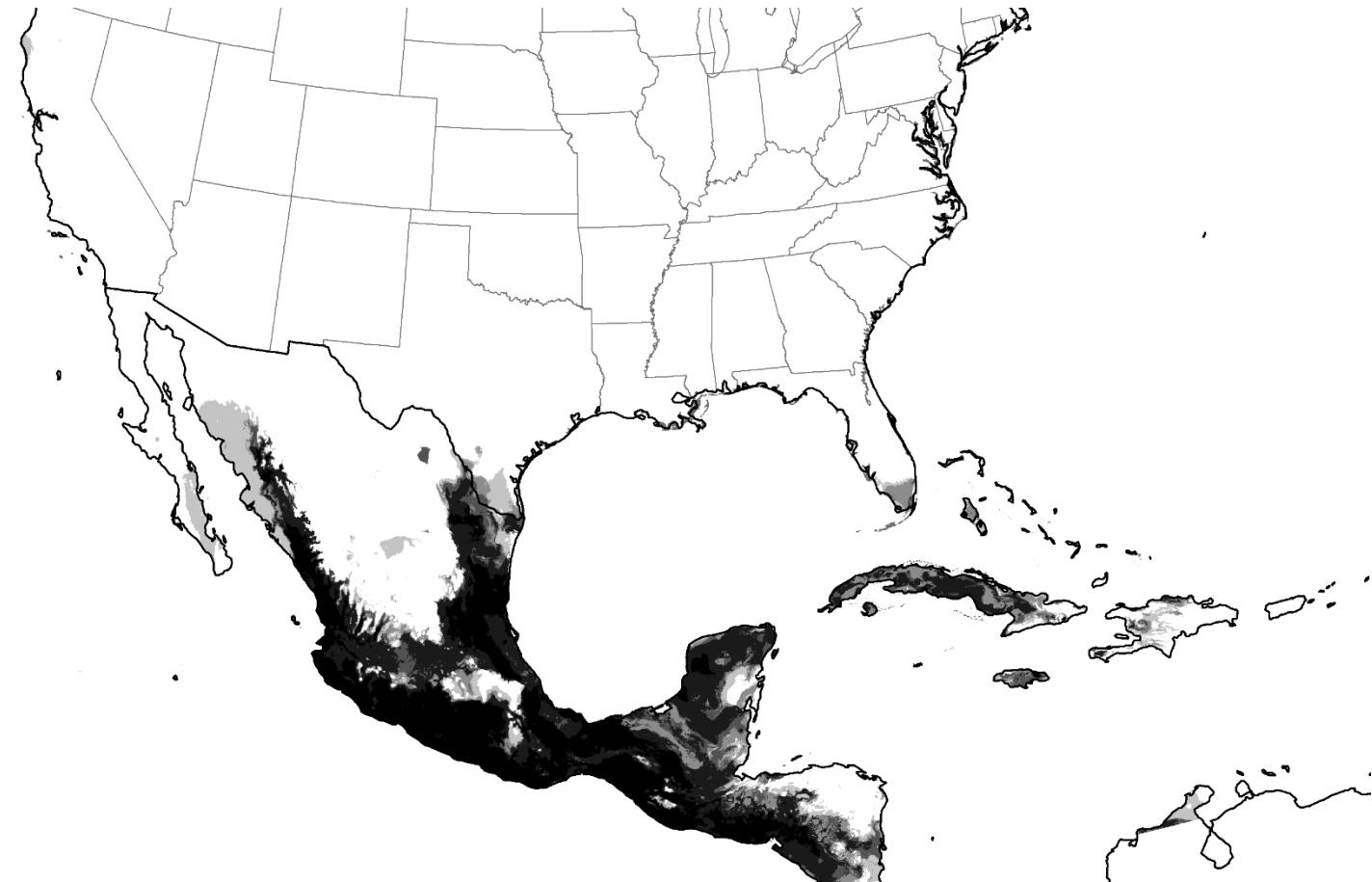
17 future climate projections using maximum entropy approach



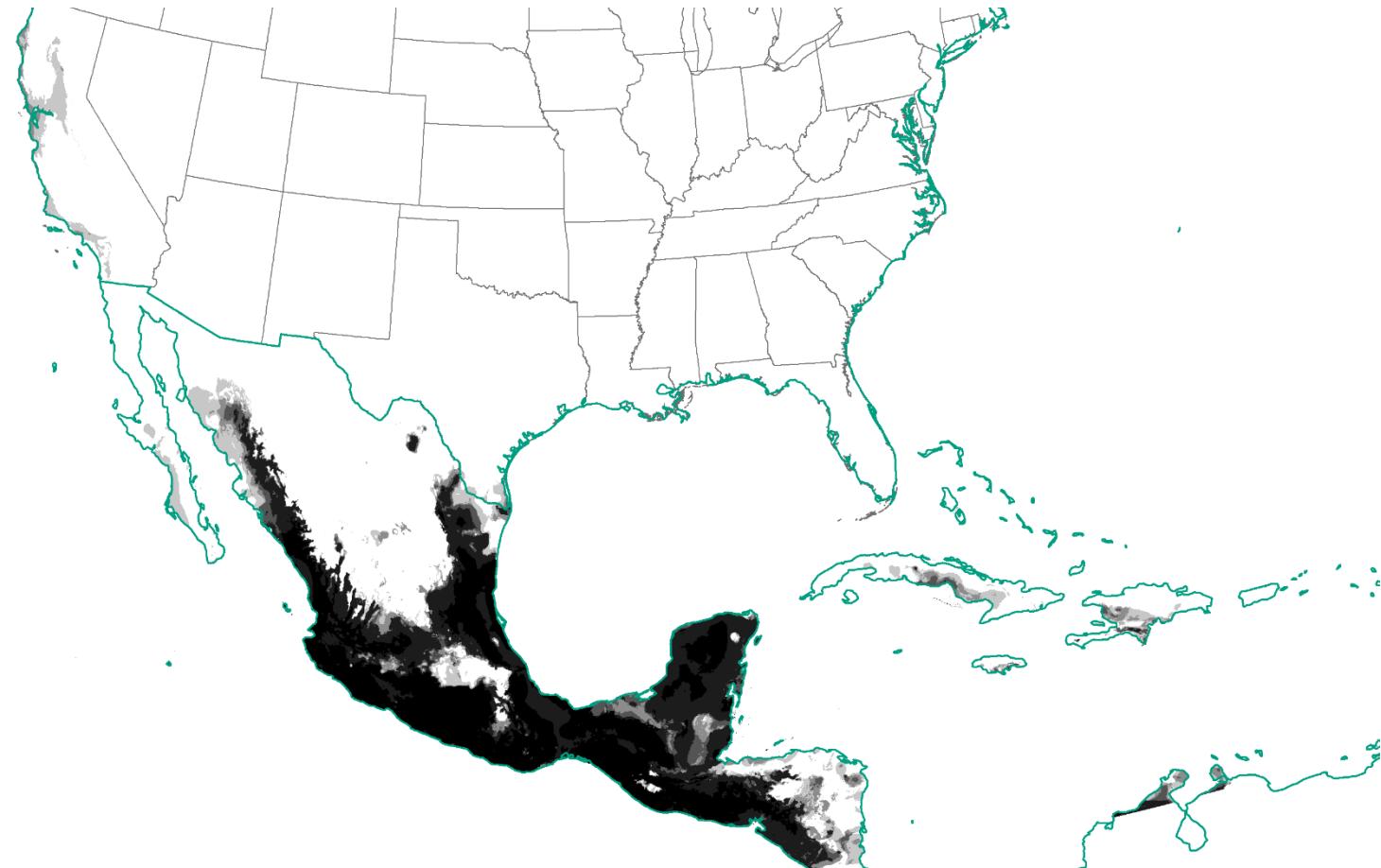
Future climate maps by climate model

Each with an ensemble of 5 SDM approaches for the given future climate model

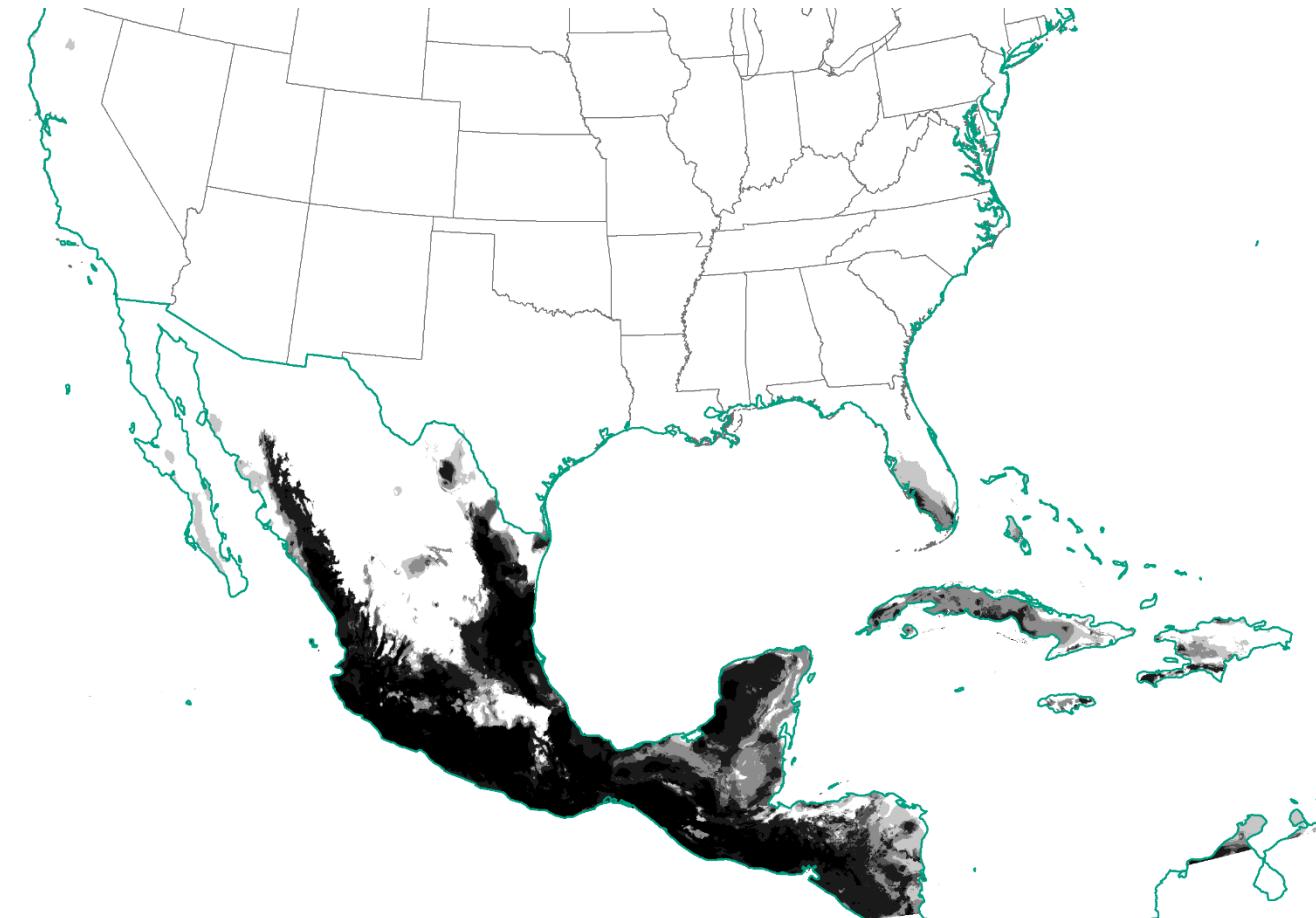
Australian Community model, Australia Atmospheric & earth system model (AC)



Beijing Normal University model, China
Atmospheric & earth system model
(BC)



Community Climate system model (NCAR), USA Atmospheric & earth system model (CC)



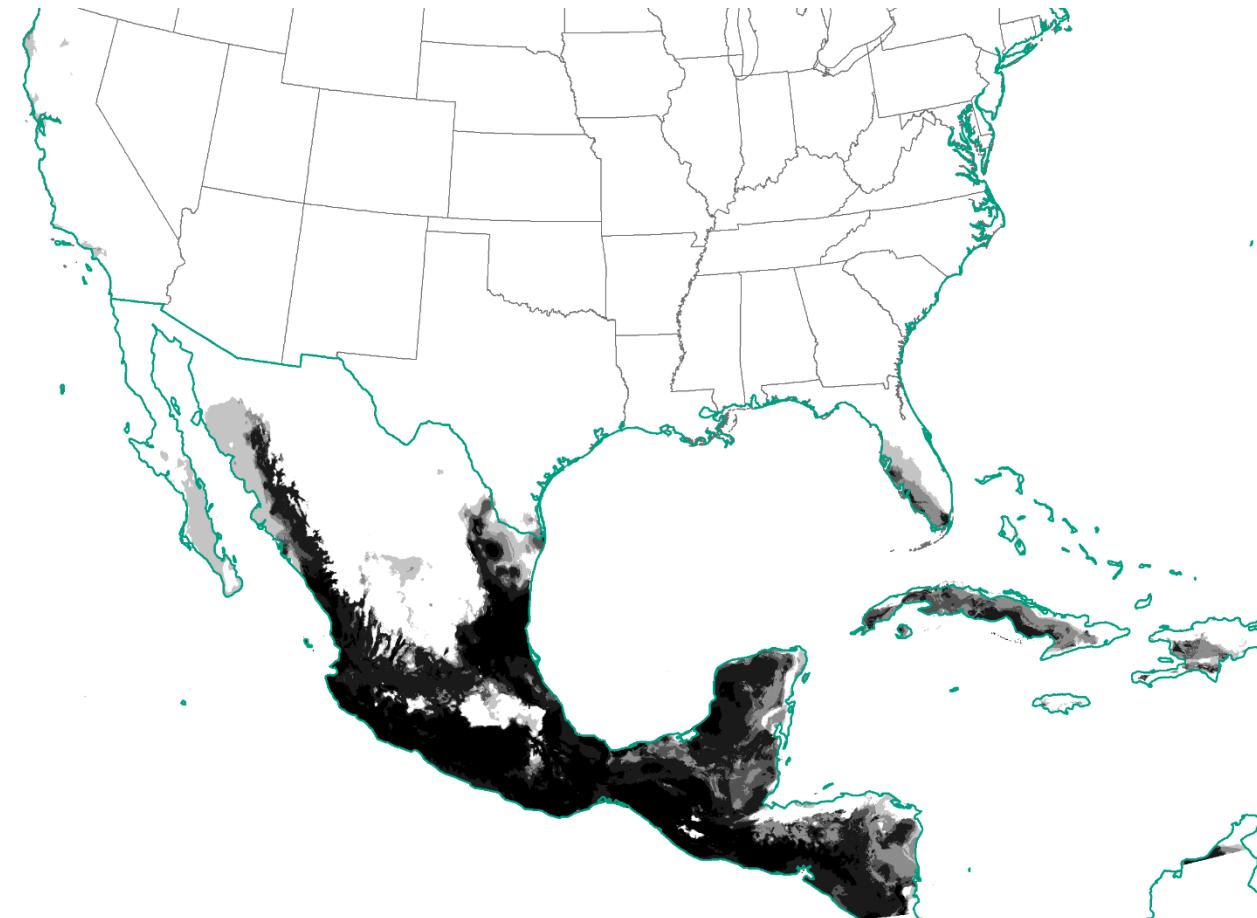
Centre National de Recherches Meteorologiques, France
Atmospheric model, not sure of other details
(CN)



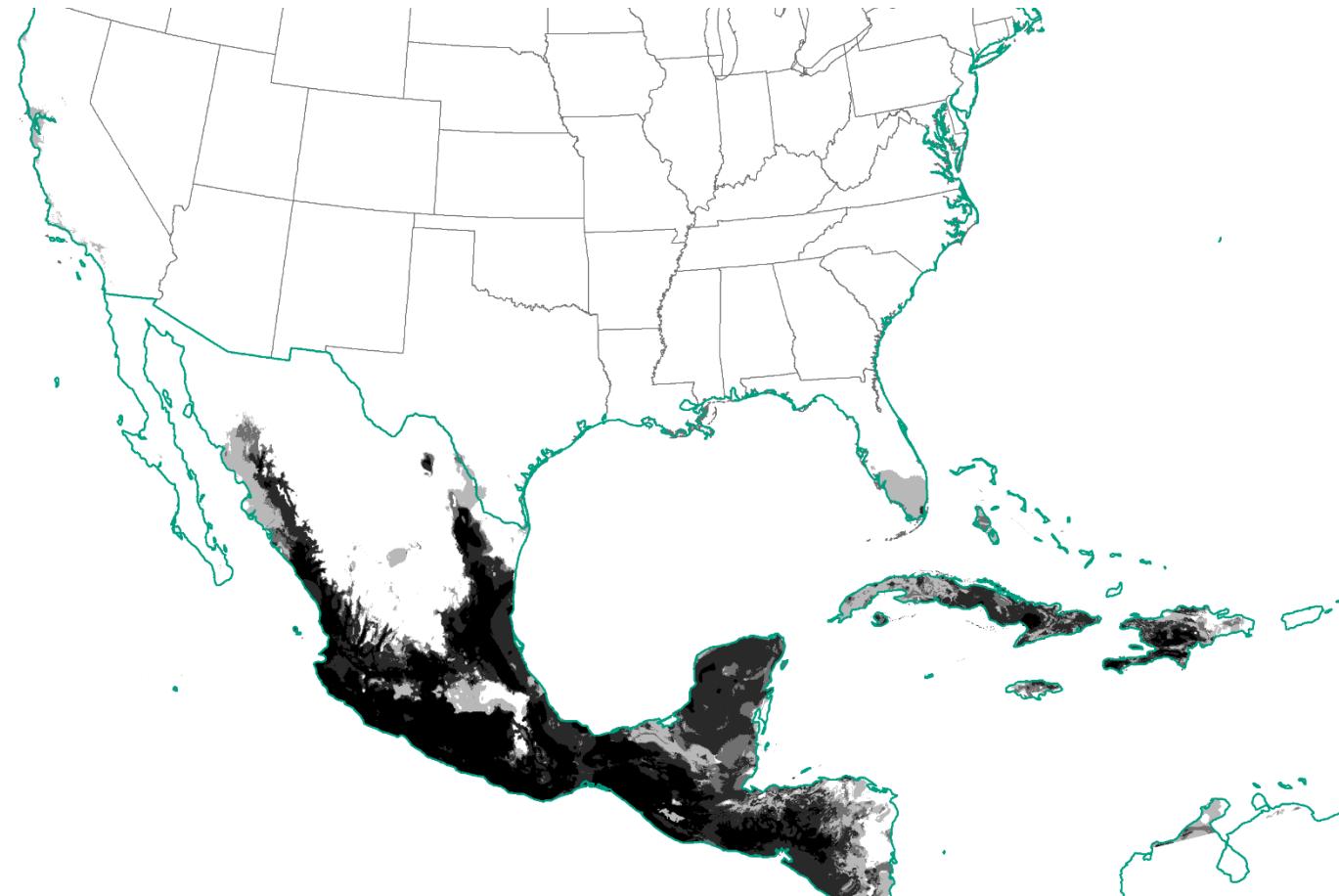
Geophysical Fluid dynamics Lab, NOAA, USA
Atmospheric model, not sure of other details
(GF)



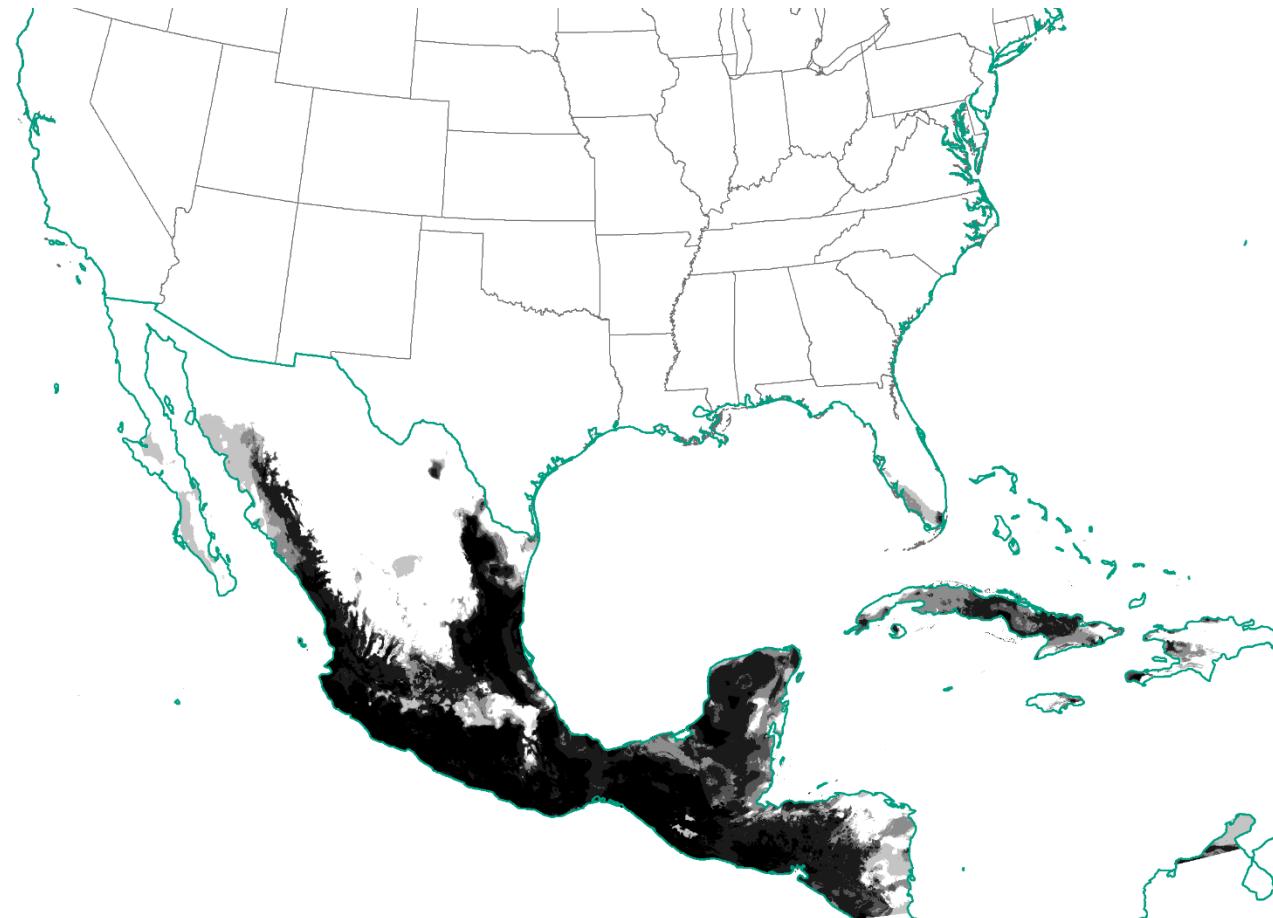
Goddard Institute for Space Studies (NASA), USA
Atmospheric & earth system model, one of most complex of
the models?
(GS)



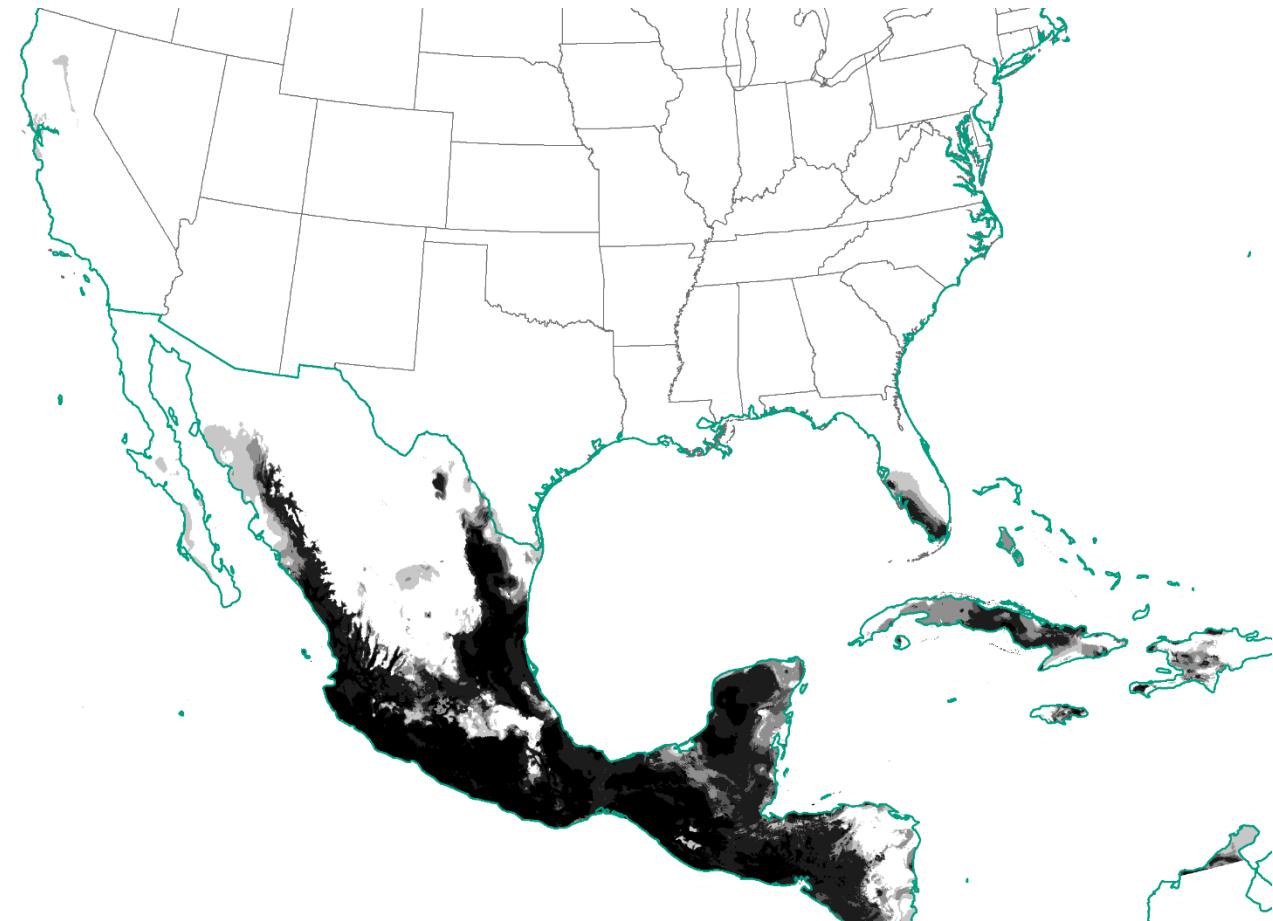
The Met Office Hadley Center (HadGEM2), UK Atmospheric and ocean model (HD)



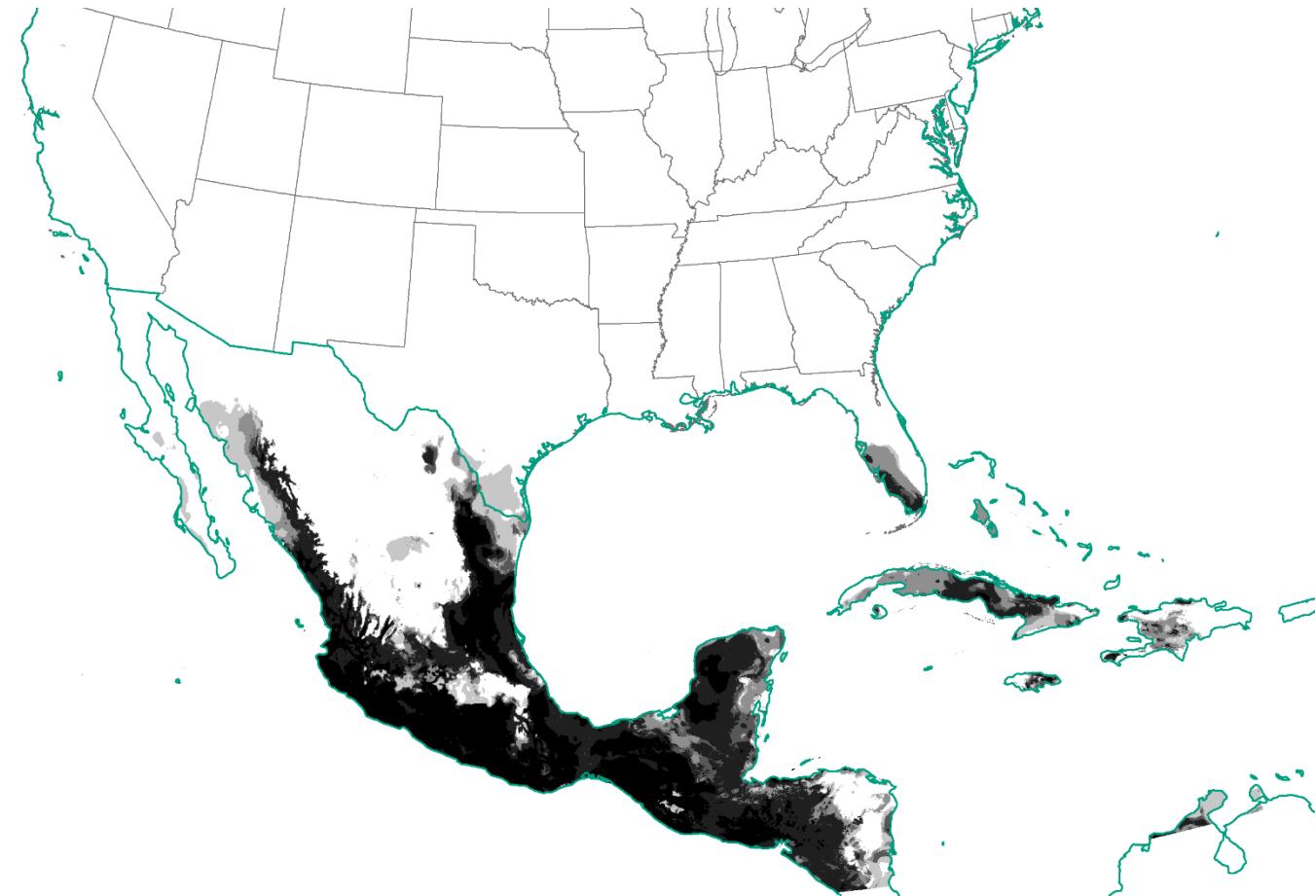
The Met Office Hadley Center (HadGEM2), UK Atmospheric & earth systems model (HE)



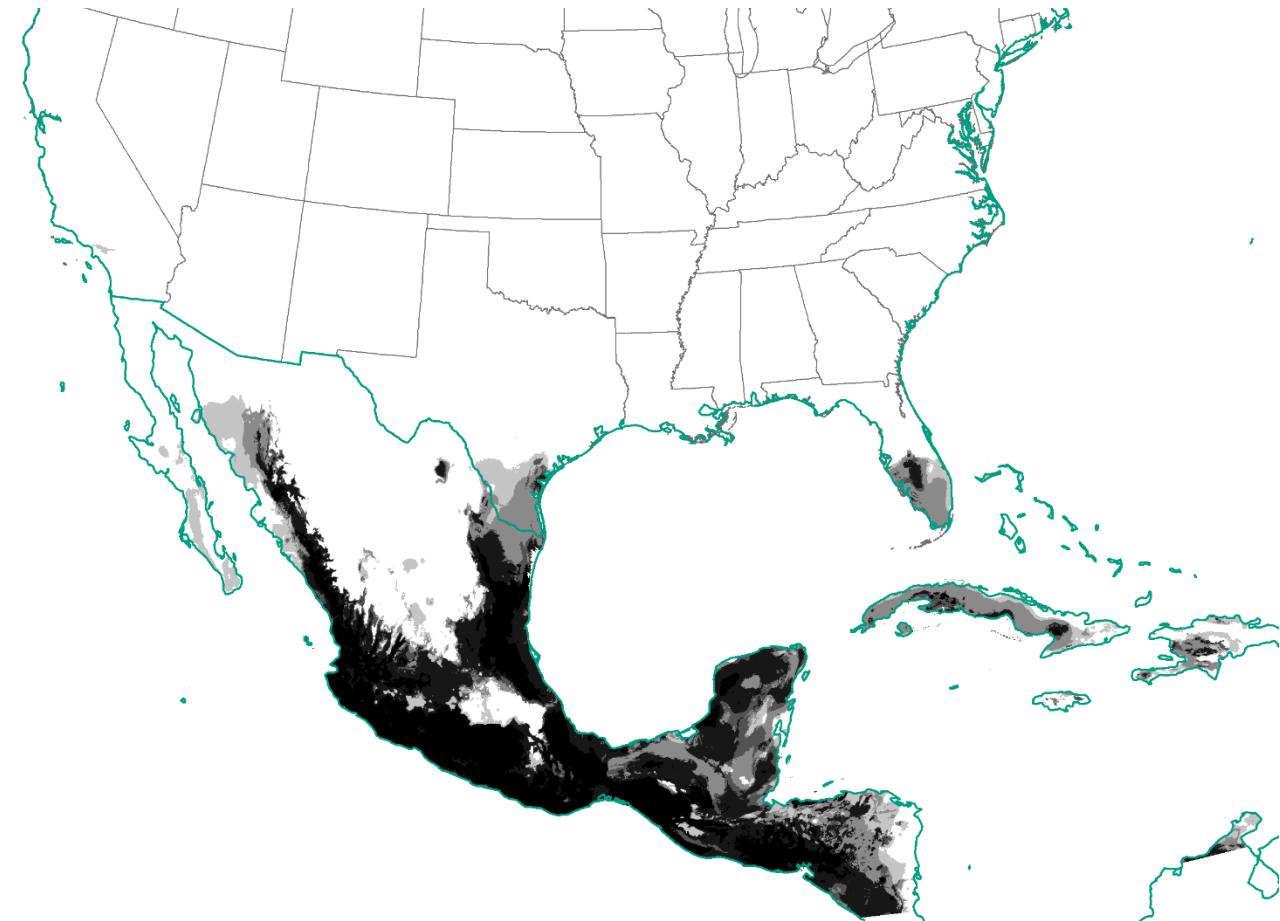
The Met Office Hadley Center (HadGEM2),
Full model, perhaps one of most complex?
(HG)



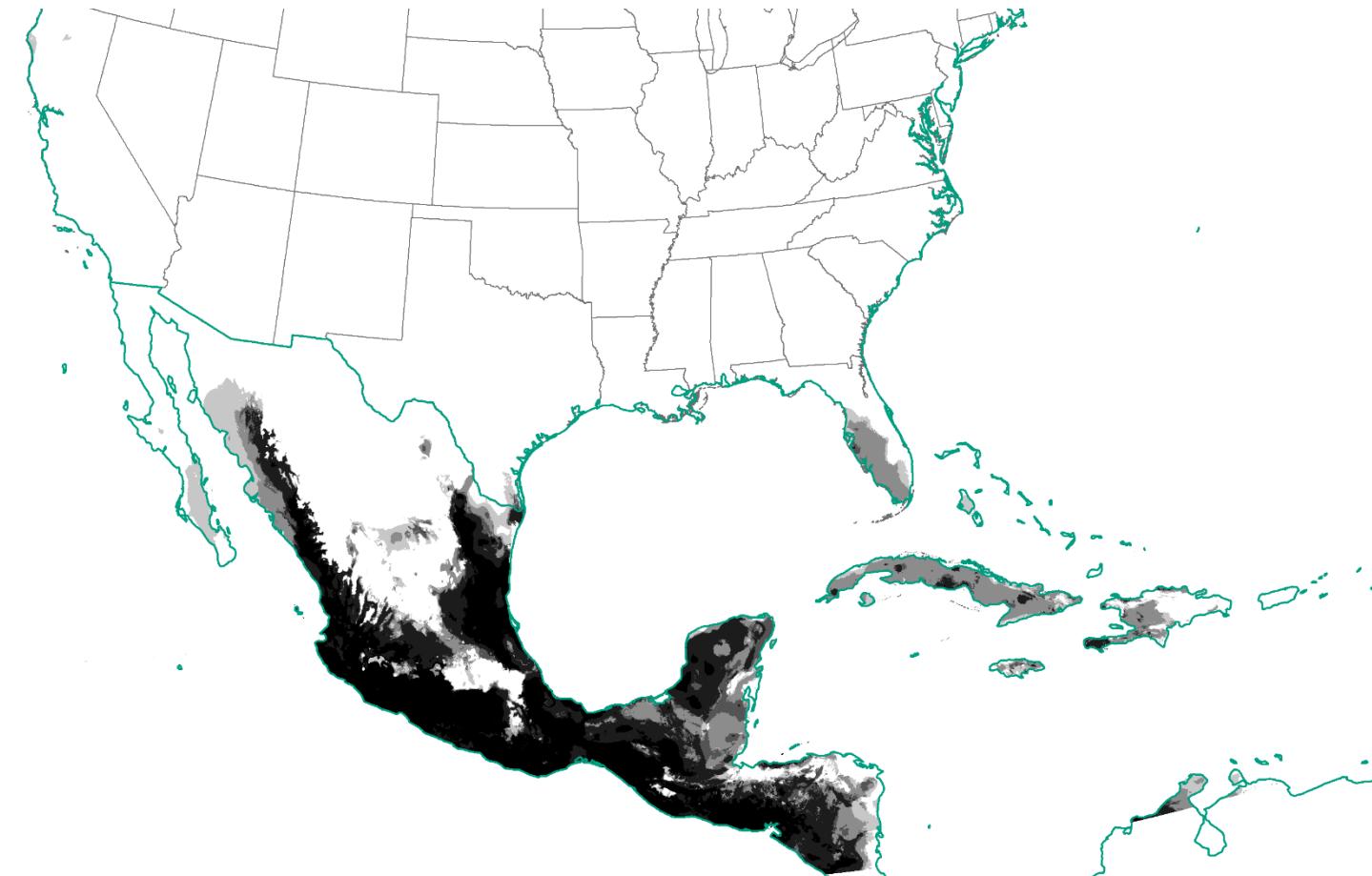
Institute for Numerical Mathematics, Russia
Atmospheric and other components?
(IN)



Institut Pierre Simon LaPlace Climate Modeling Center, France
Atmospheric model, not sure of other details.
(IP)



Japan Agency for Marine Earth Science (MIROC), Japan
Climate model only (?), this is what Lee et al (2012) used
(MC)

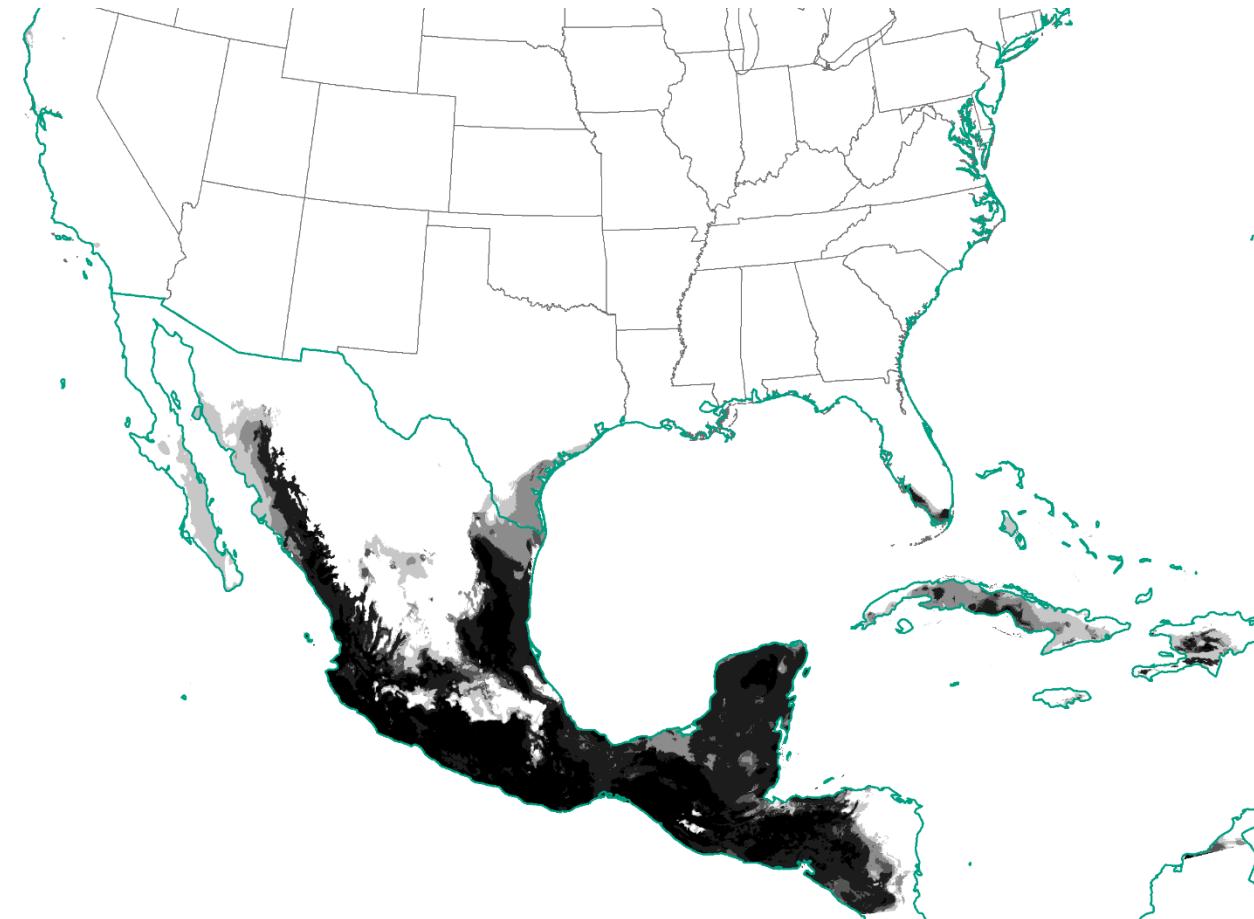


Meteorological Research Institute, Japan

Atmosphere & ocean model (MG)

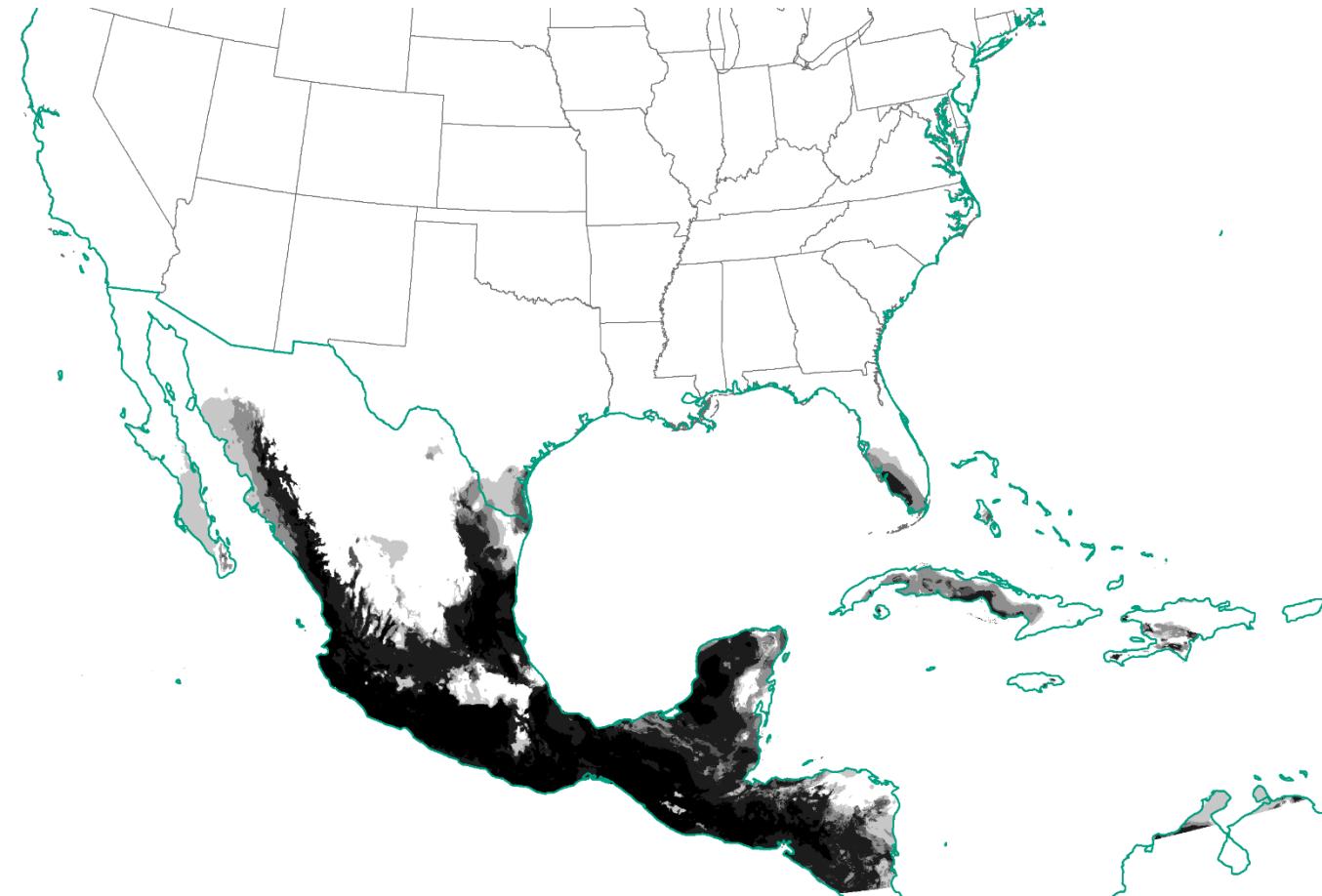


Model for Interdisciplinary Research, Japan Atmospheric & earth system model (MI)



Max Planck Institute, Germany

Atmosphere & earth system model (MP)



Norwegian Climate Centre, Norway (NO)

