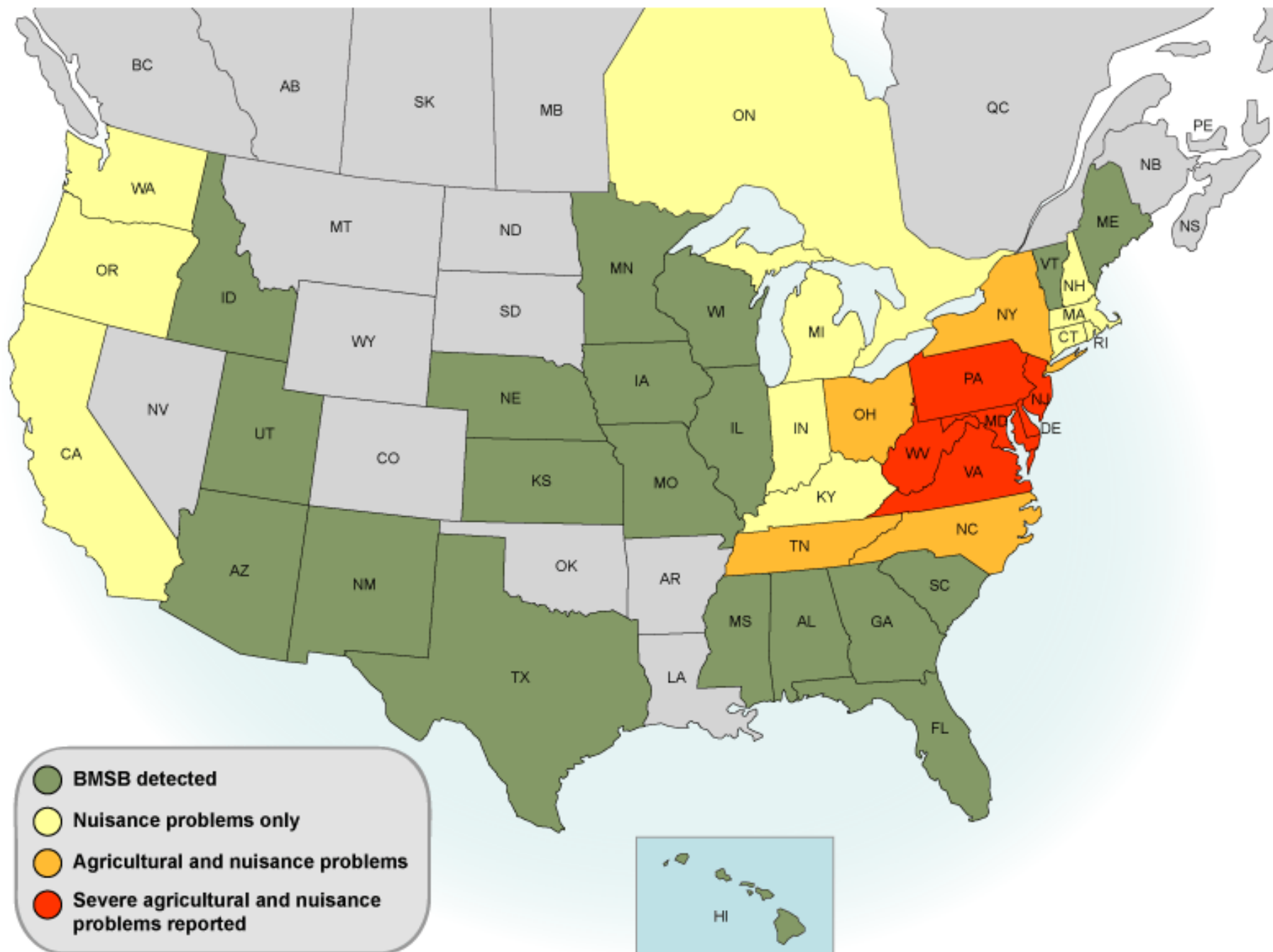


Crops at Risk To BMSB Damage





Niche Modeling

Zhu et al. 2012

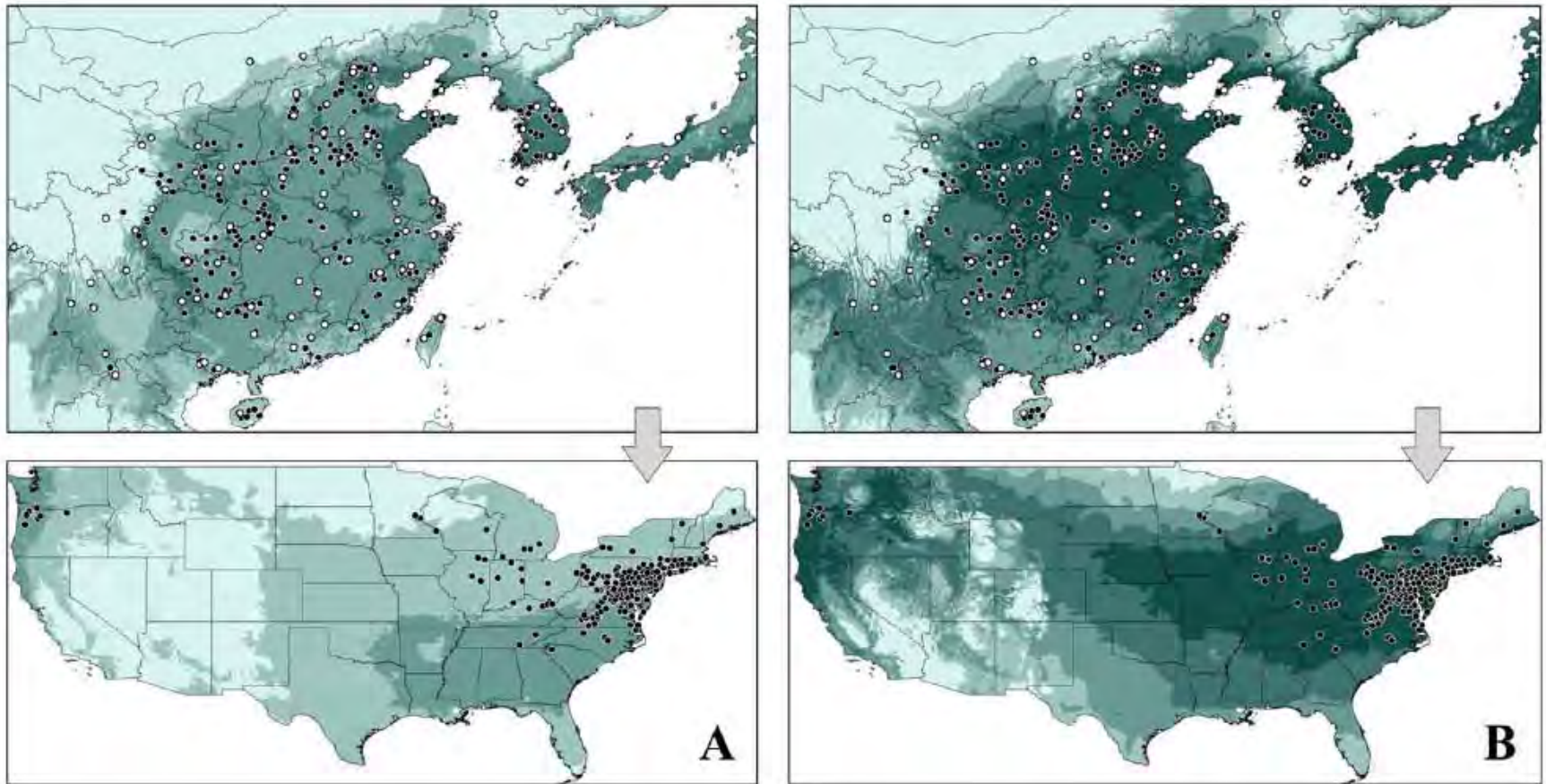


Figure 3. Niche models based on reduced native records and projected onto the US using Maxent. Dark green color represents high suitability, light green indicates low suitability. A: using 10 variables, B: using 6 variables, white and black dots represent the 95 occurrences for model calibration and the remaining for model evaluation.

doi:10.1371/journal.pone.0031246.g003

Niche Modeling

Zhu et al. 2012

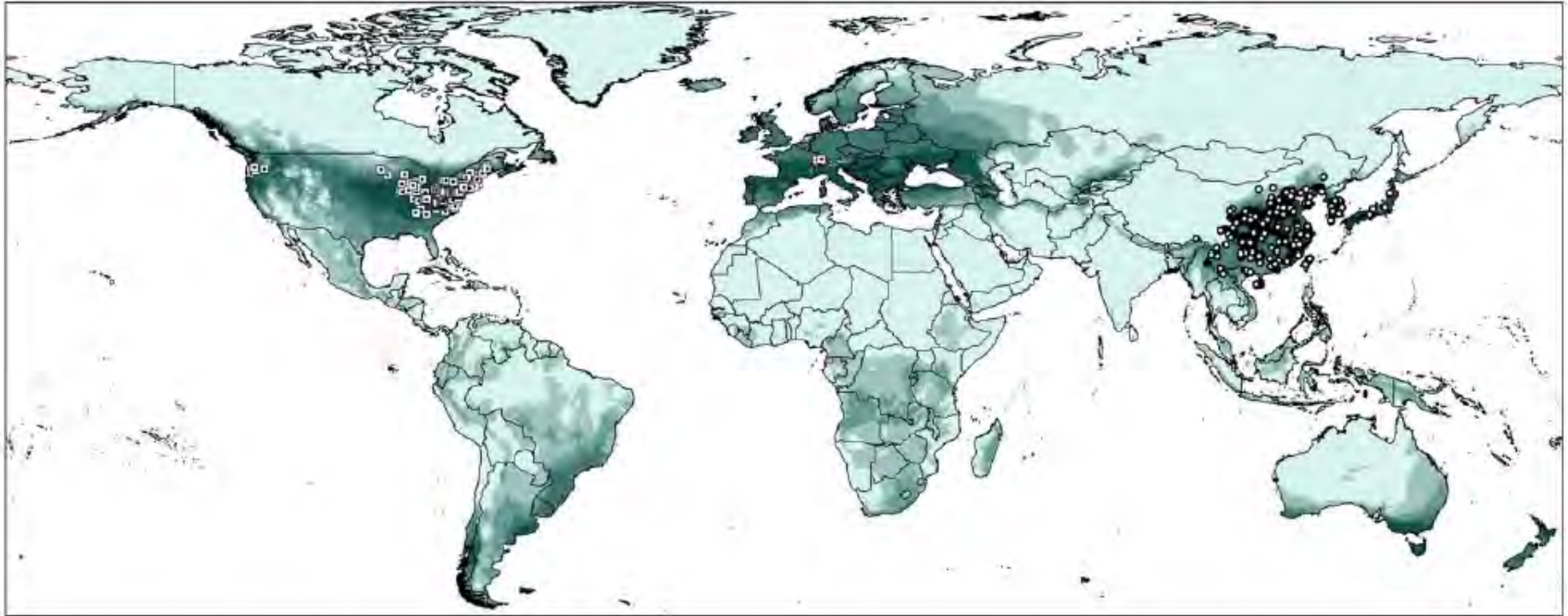


Figure 6. Niche model based on reduced native records and transferred worldwide using Maxent. Dark green color represents high suitability, light green indicates low suitability. White circles indicate the 95 occurrences used for model calibration, black dots and white squares represent the remaining native and invasive records used for model evaluation.
doi:10.1371/journal.pone.0031246.g006

Known Food Crops That Serve as Hosts for BMSB in North America

- Okra
- Amaranth
- Garden Snapdragon
- Horseradish
- Cabbage/collards
- Cayenne Pepper
- Pecan
- Edible Fig
- Soybean
- Sunflower
- Common Hops
- Apple
- Filberts/hazelnuts
- Cucumber
- Summer squash
- Beans
- Apricot
- Peach
- Cherry
- European Pear
- Asian Pear
- Raspberry/Blackberry
- Wineberry
- Eggplant
- Tomato
- Highbush blueberry
- Wine grape
- Corn

From "Host Plants of BMSB in the United States" at stopbmsb.org

Known Ornamentals That Serve as Hosts for BMSB in North America

- Glossy Abelia
- Maple spp.
- Red horse-chestnut
- Ohio Buckeye
- Blue wild indigo
- Birch spp.
- Butterfly bush
- Siberian pea shrub
- European hornbeam
- Catalpa
- Oriental Bittersweet
- Cock's comb
- Korean hackberry
- Common button bush
- Katsura tree
- Eastern and Texas redbud
- Chinese fringeweed
- Kentucky yellowwood
- Dogwood spp.
- Chinese quince
- Firethorn
- Korean sun pear
- Oak spp.
- Rose spp.
- Hawthorn spp.
- Japanese persimmon
- Russian Olive
- Weeping forsythia
- Ginko
- Honeylocust
- Mountain silverbell
- Seven son flower
- Crimson eyed Rosemallow
- Rose of Sharon
- Eastern Red Cedar
- Goldenrain tree
- Crape myrtle
- Japanese larch
- Chinese privet
- Sweetgum
- Star Magnolia
- Crabapple sp.
- Dawn redwood
- Black gum (Tupelo)
- Moth orchid
- Cherry spp.
- Chinese elm
- Viburnum spp.

From "Host Plants of BMSB in the United States" at stopbmsb.org

Known Wild Plants That Serve as Hosts for BMSB in North America

- Maple spp.
- Tree of Heaven
- Lesser burdock
- Paw paw
- Common hackberry
- Pitseed Goosefoot
- Dogwood
- Hawthorn
- Green ash
- White ash
- Witch hazel spp.
- Crabapple
- Mimosa
- White mulberry
- Leafy wild parsley
- Chokeberry
- American pokeweed
- Cherry spp.
- American mountain ash
- Eastern hemlock
- Wild grape
- Honeysuckle spp.
- Tulip Tree

Hosts Cited in the Asian Literature

Alder
Apple
Apricot
Argyi wormwood
Arrowroot
Asparagus
Azuki bean
Beet
Bell pepper
Birch
Black locust
Black nightshade
Burdock
Bushkiller
Cambridge cherry
Camphortree
Catalpa
Cedar

Cedar
Cherry
Chestnut
Chinese arborvitae
Chinese chaste tree
Chinese gooseberry
Chinese haw
Chinese hibiscus
Chinese long bean
Chinese milk vetch
Chinese parasol tree
Chinese tea
Chinese white poplar
Chinese wisteria
Chocolate vine
Citrus
Clover
Common mallow

Corn
Cowpea
Cucumber
Eggplant
Feather cockscomb
Fig
Grape

Hosts Cited in the Asian Literature

Green plum
Hairy vetch
Harlequin glorybower
Hinoki cypress
Hollyhock
Hops
Japanese bird cherry
Japanese cypress
Japanese spindle
Japanese weigela
Japanese yew
Japanese zelkova
Jasmine tobacco
Jujube
Kidney bean
Kudzu
Lilac
Lima bean
Loquat
Mandarin
Maple
Mulberry
Mums
Mustards
Oil-seed camellia

Wild olive
Orange
Oriental arborvitae
Empress tree
Pea
Peach
Pear
Persimmon
Pine
Plum
Pomegranate
Rape
Raspberry

Red elderberry
Rose balsam
Siberian elm
Small paper mulberry
Soybean
Staghorn sumac
Strawberry
String bean
Sunflower
Sweet corn
T'ang ts'oi
Tangerine
Tapioca
Tea tree
Tomato
Upland cotton
Viburnum
Wax myrtle
Weeping scholar tree
Wheat
Wolfberry
Yuzu

Potential BMSB Hosts/Crops At Risk

- Northeast
- Southeast
- Midwest
- Mountain
- Southwest
- West Coast