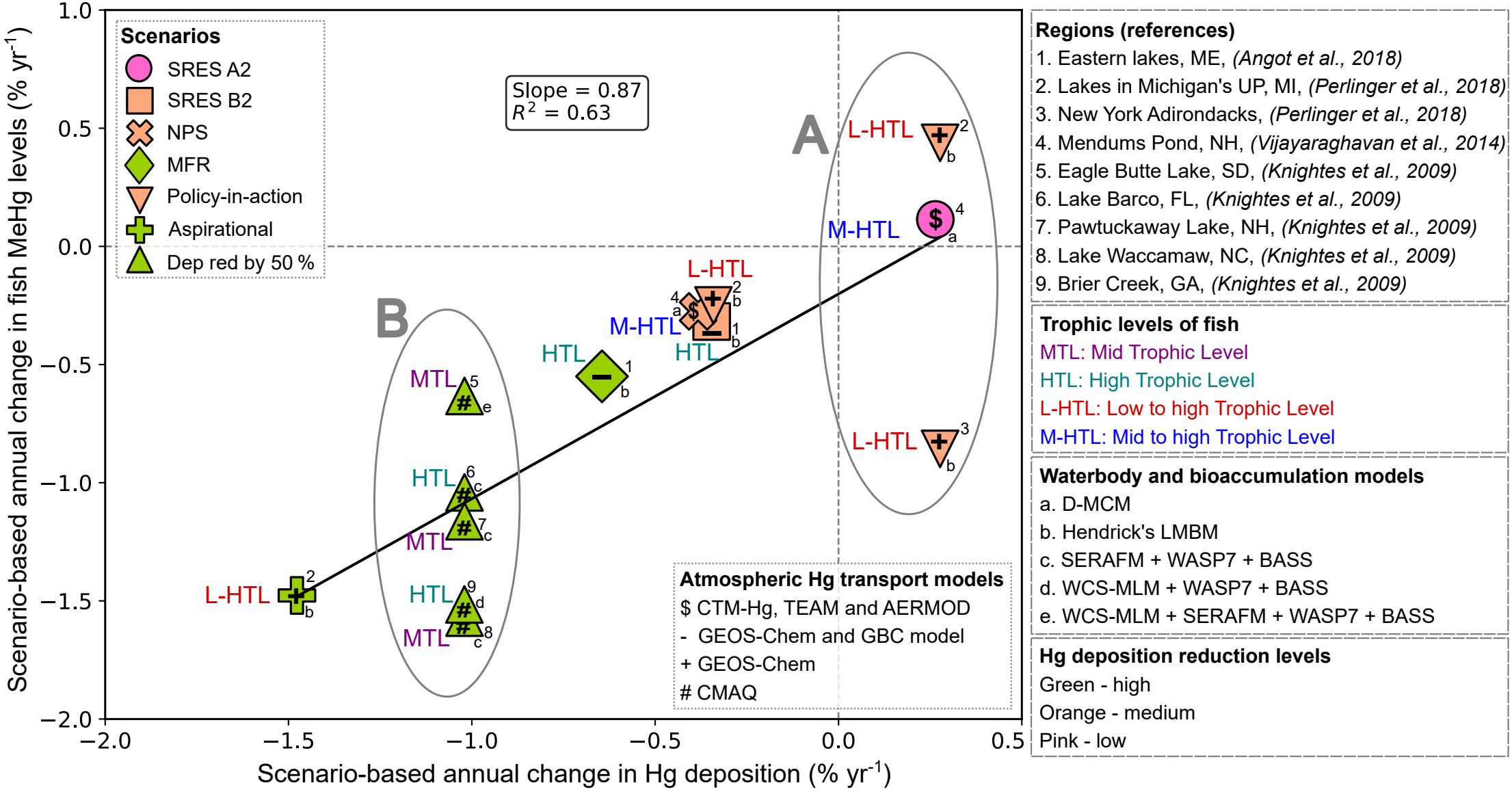
Scenarios
SRES A2
SRES B2
NPS
MFR
Policy-in-action
Aspirational
Dep red by 50 %
Slope = 0.87
R^2 = 0.63
A
B
L-HTL
M-HTL
HTL
MTL
Atmospheric Hg transport models
$ CTM-Hg, TEAM and AERMOD
- GEOS-Chem and GBC model
+ GEOS-Chem
# CMAQ
Scenario-based annual change in fish MeHg levels (% yr^{-1})
Scenario-based annual change in Hg deposition (% yr^{-1})
Regions (references)
1. Eastern lakes, ME, (Angot et al., 2018)
2. Lakes in Michigan's UP, MI, (Perlinger et al., 2018)
3. New York Adirondacks, (Perlinger et al., 2018)
4. Mendums Pond, NH, (Vijayaraghavan et al., 2014)
5. Eagle Butte Lake, SD, (Knightes et al., 2009)
6. Lake Barco, FL, (Knightes et al., 2009)
7. Pawtuckaway Lake, NH, (Knightes et al., 2009)
8. Lake Waccamaw, NC, (Knightes et al., 2009)
9. Brier Creek, GA, (Knightes et al., 2009)
Trophic levels of fish
MTL: Mid Trophic Level
HTL: High Trophic Level
L-HTL: Low to high Trophic Level
M-HTL: Mid to high Trophic Level
Waterbody and bioaccumulation models
a. D-MCM
b. Hendrick's LMBM
c. SERAFM + WASP7 + BASS
d. WCS-MLM + WASP7 + BASS
e. WCS-MLM + SERAFM + WASP7 + BASS
Hg deposition reduction levels
Green - high
Orange - medium
Pink - low