

Responses to Level 1, 2, 3 and Regional Emission Reductions

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Georgia Institute of Technology

VISTAS Meeting

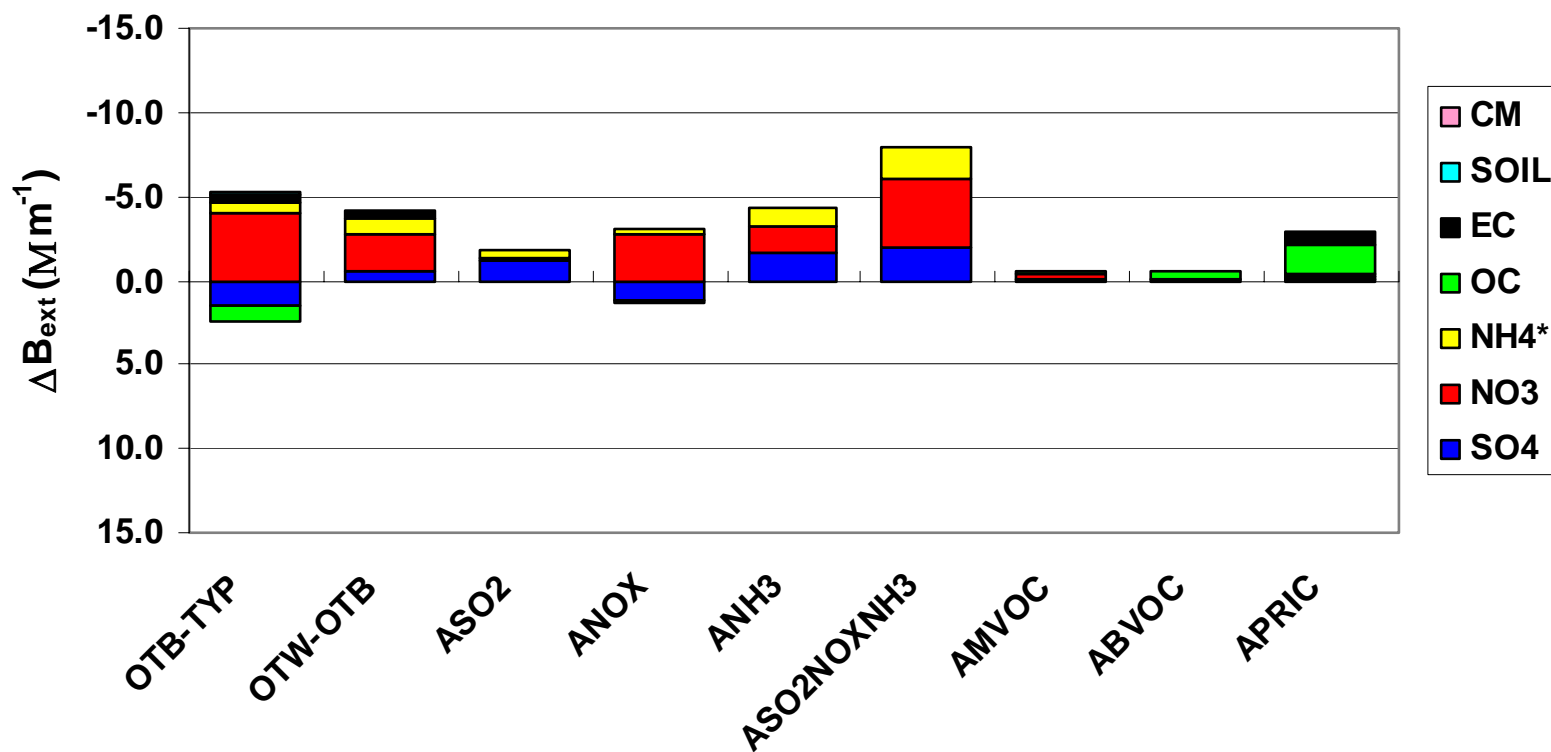
November 3, 2004

Overview

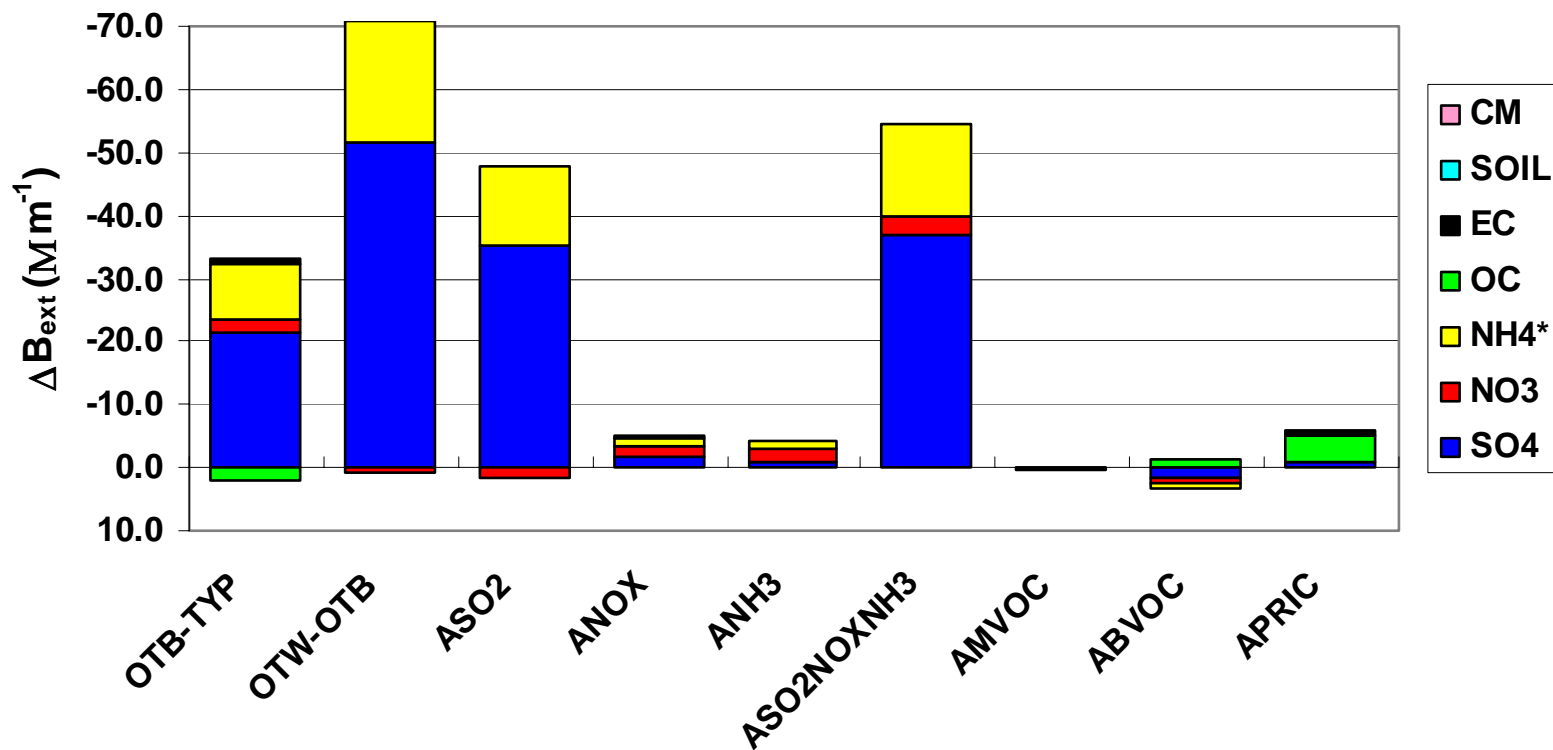
- Level 1 Responses
 - 30% reductions in SO₂/NO_x/NH₃/VOC/PC
- Level 2&3 Responses
 - 30% reductions in ground-level/elevated/boundary SO₂ and boundary SO₄
 - 30% reductions in coal-, other- and non-power plant elevated SO₂ inside VISTAS and elevated SO₂ outside
- Responses to Regional Reductions
 - 30% reductions in coal-fired power plant SO₂ in AL, FL, GA, KY, MS, NC, SC, TN, VA, WV
- at VISTAS Class-I areas
 - in order of decreasing response on 20% worst visibility days

Mammoth Cave

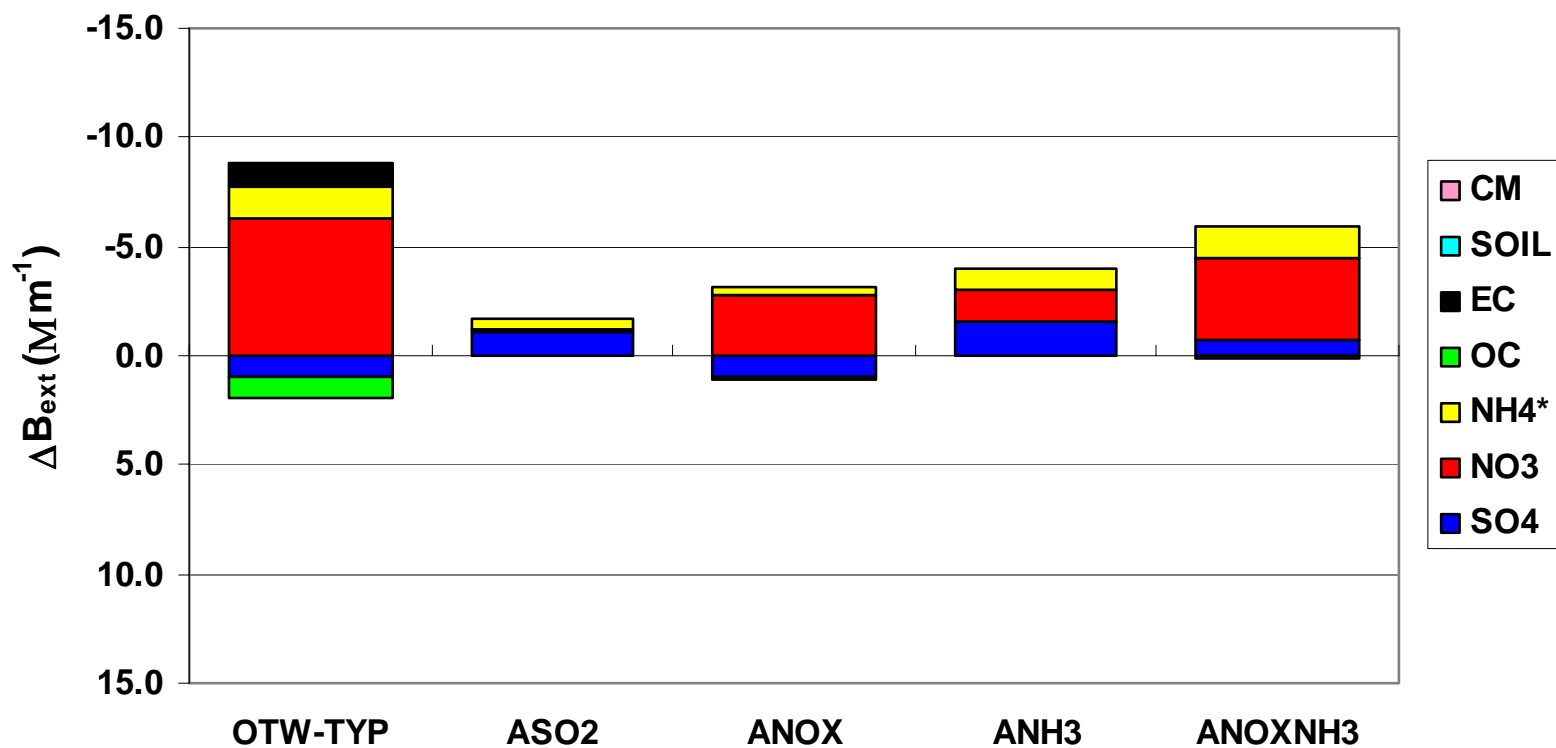
Weighted B_{ext} Response at Mammoth Cave to Reductions in OTB Emissions: Best 20%



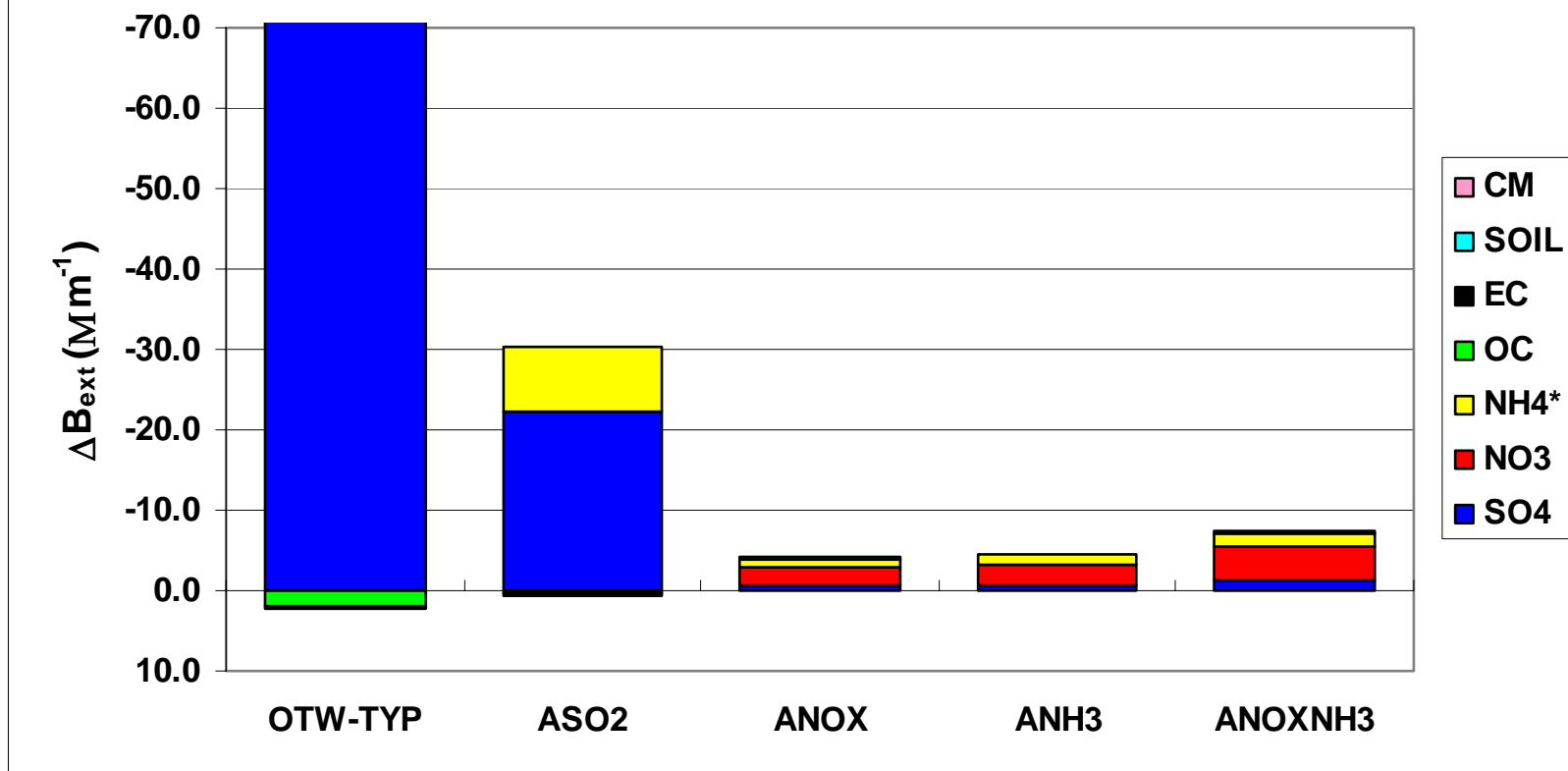
Weighted B_{ext} Response at Mammoth Cave to Reductions in OTB Emissions: Worst 20%



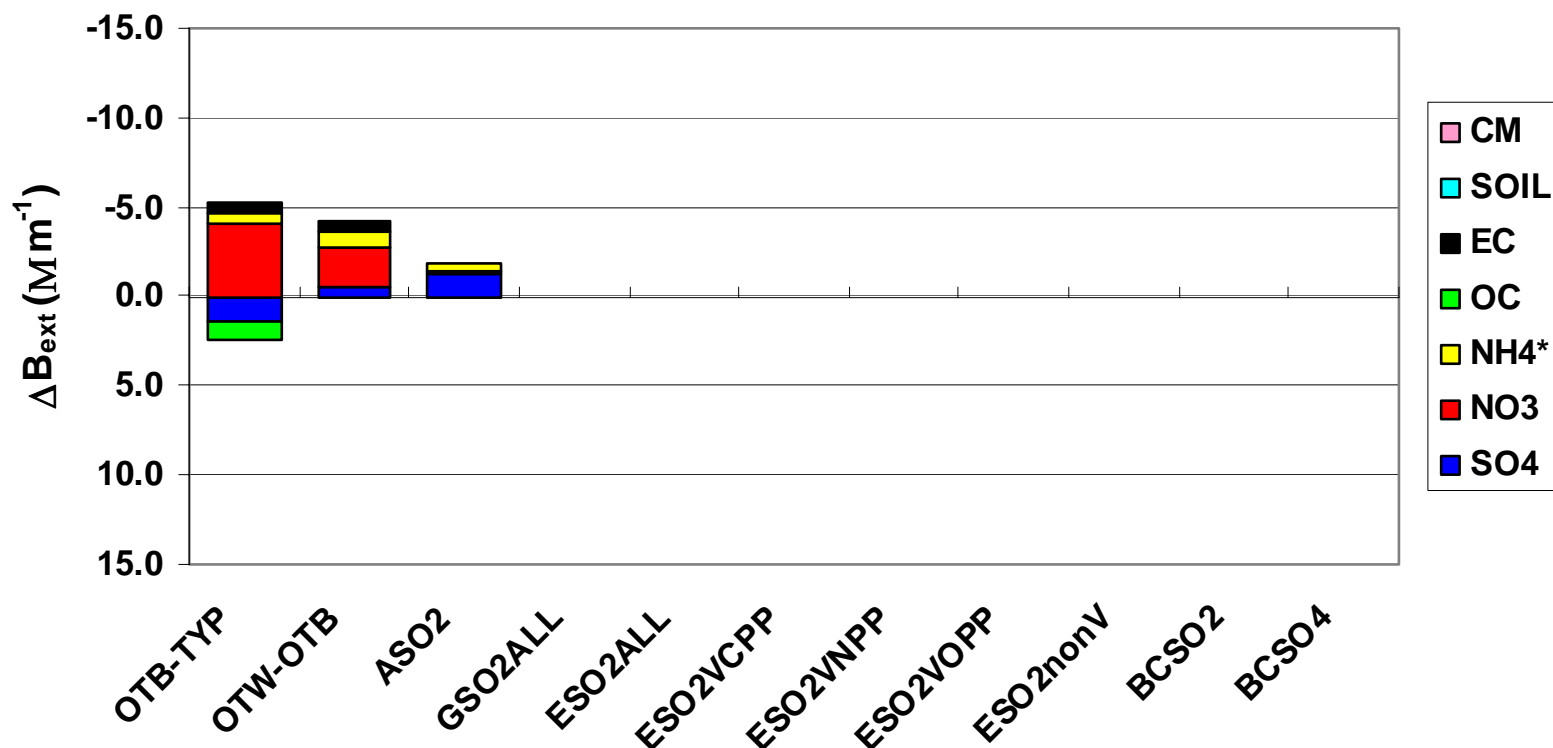
Weighted B_{ext} Response at Mammoth Cave to Reductions in OTW Emissions: Best 20%



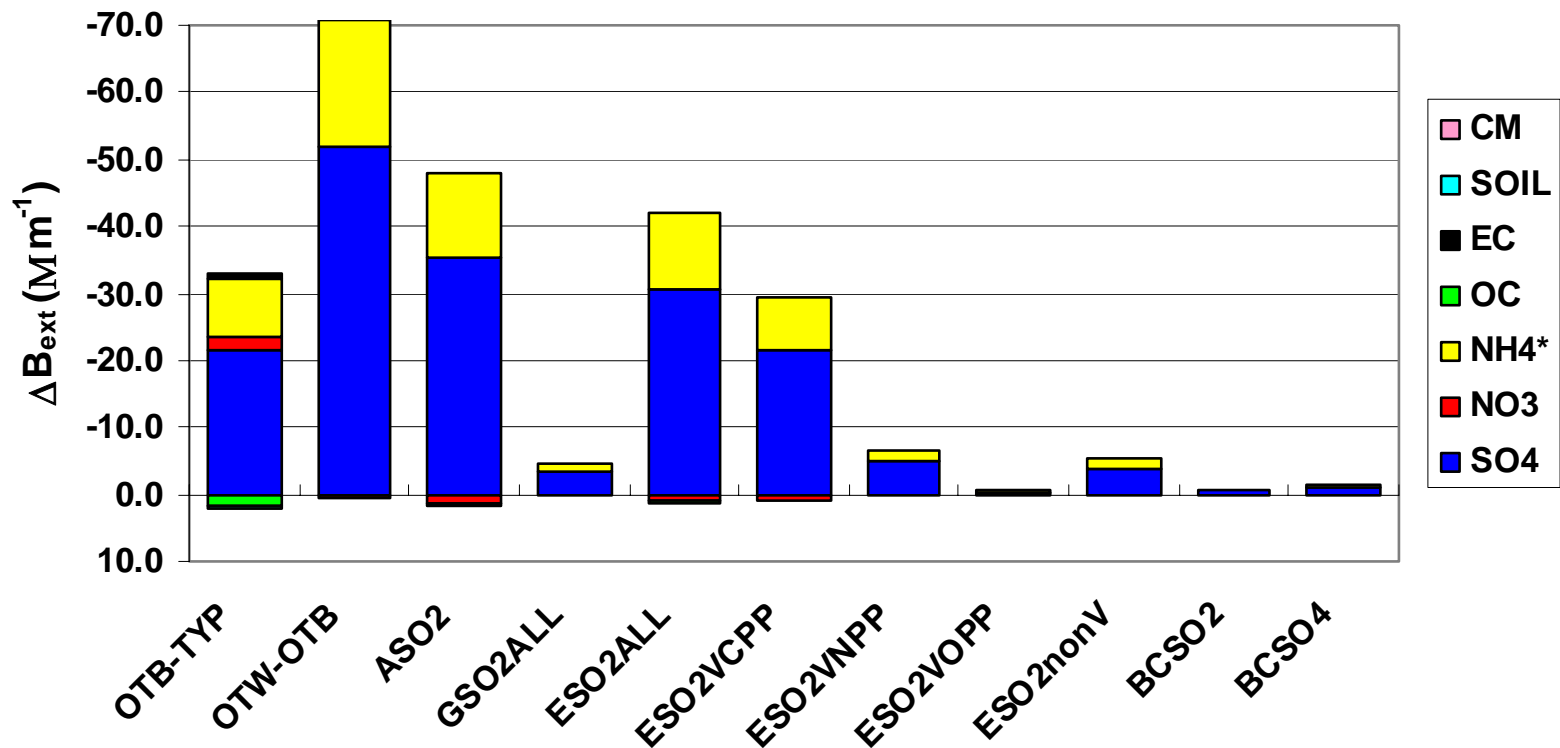
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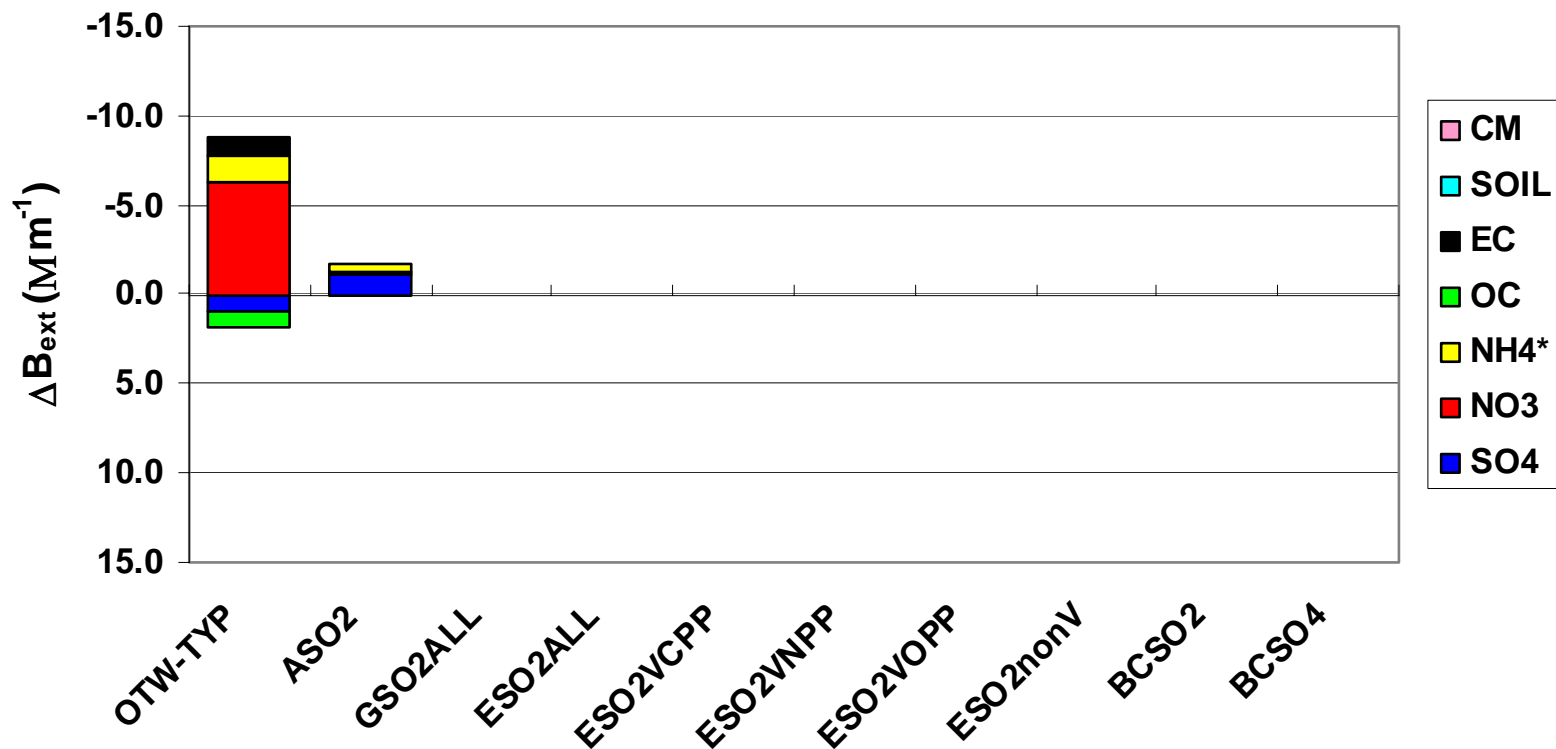
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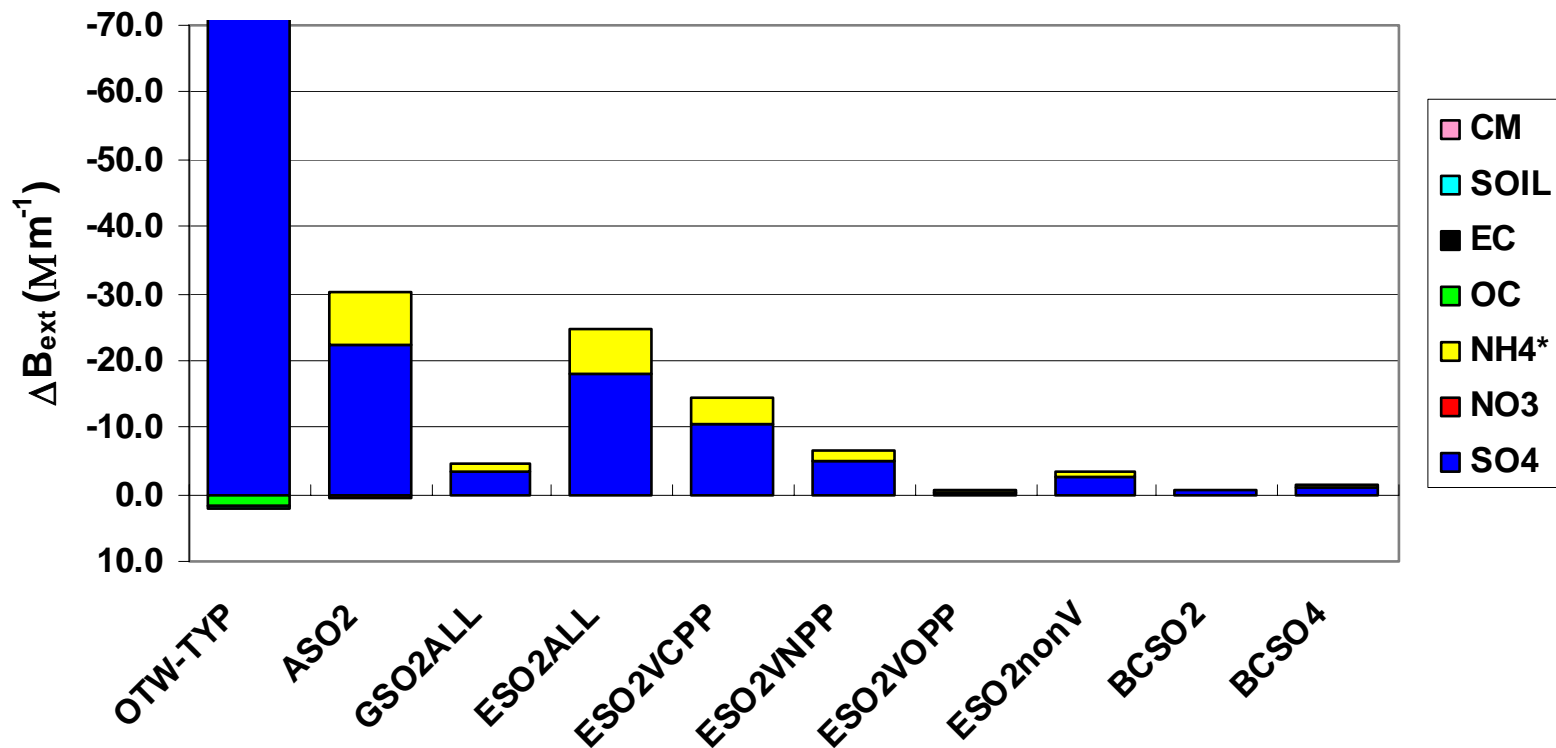
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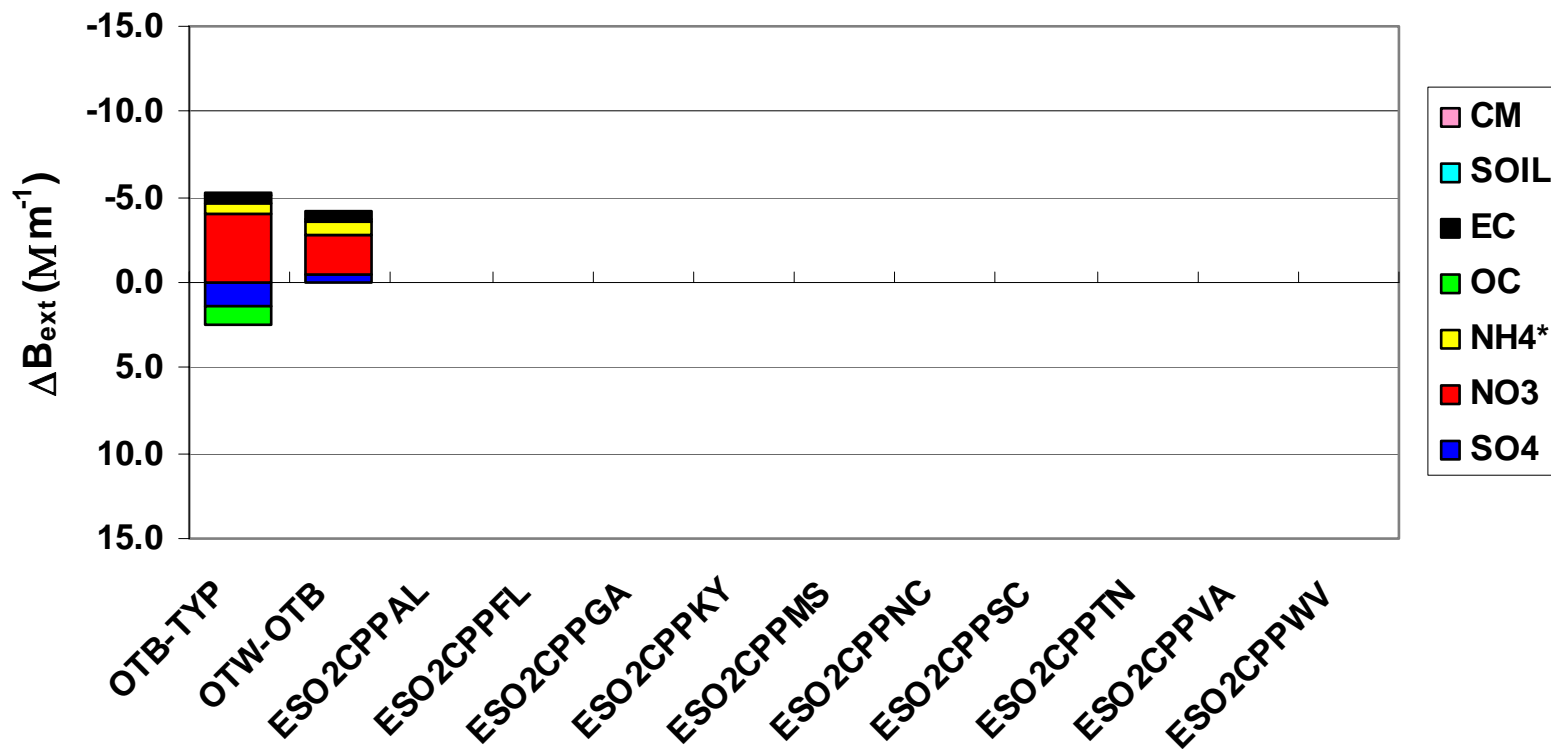
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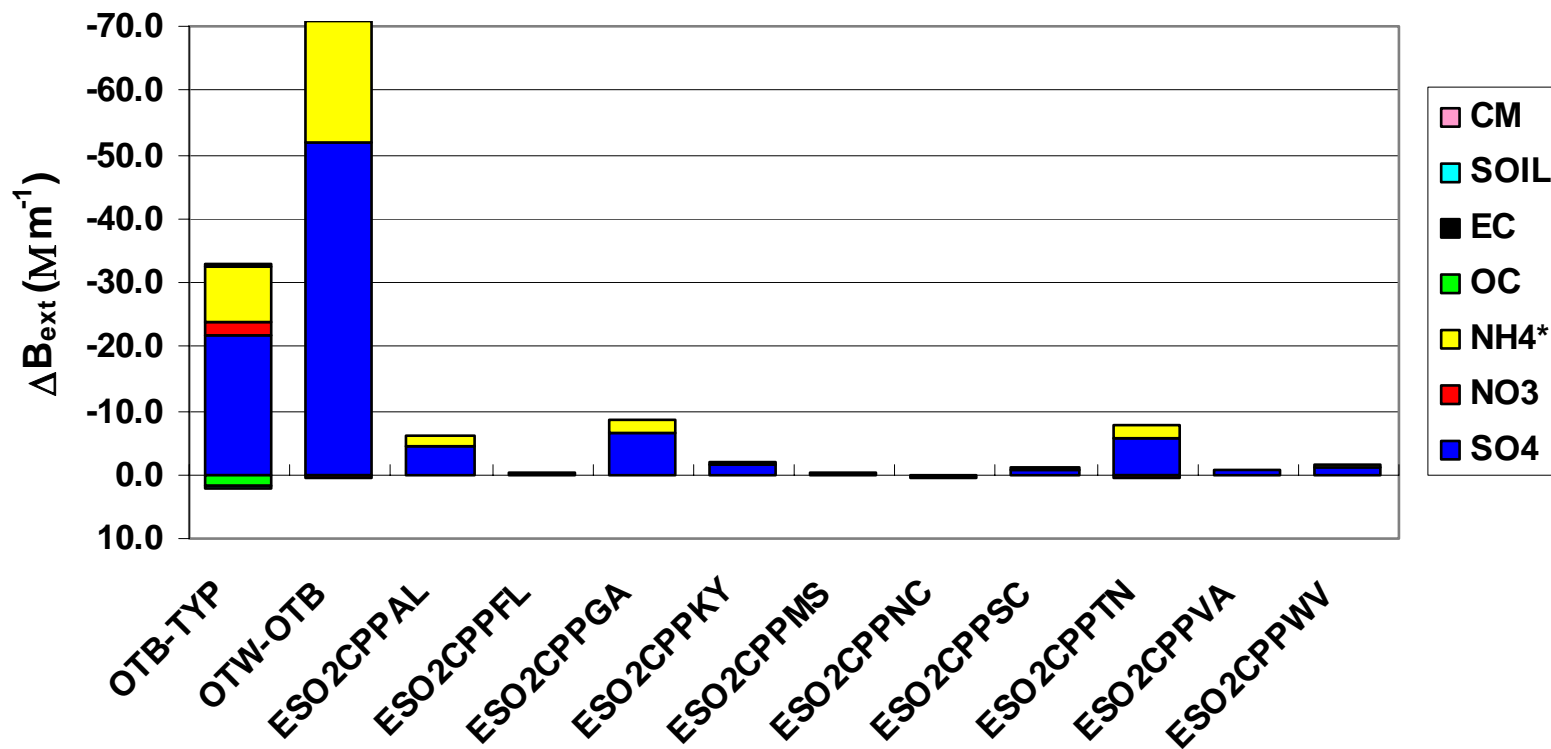
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Weighted B_{ext} Response at Mammoth Cave to Reductions in OTB Emissions: Best 20%

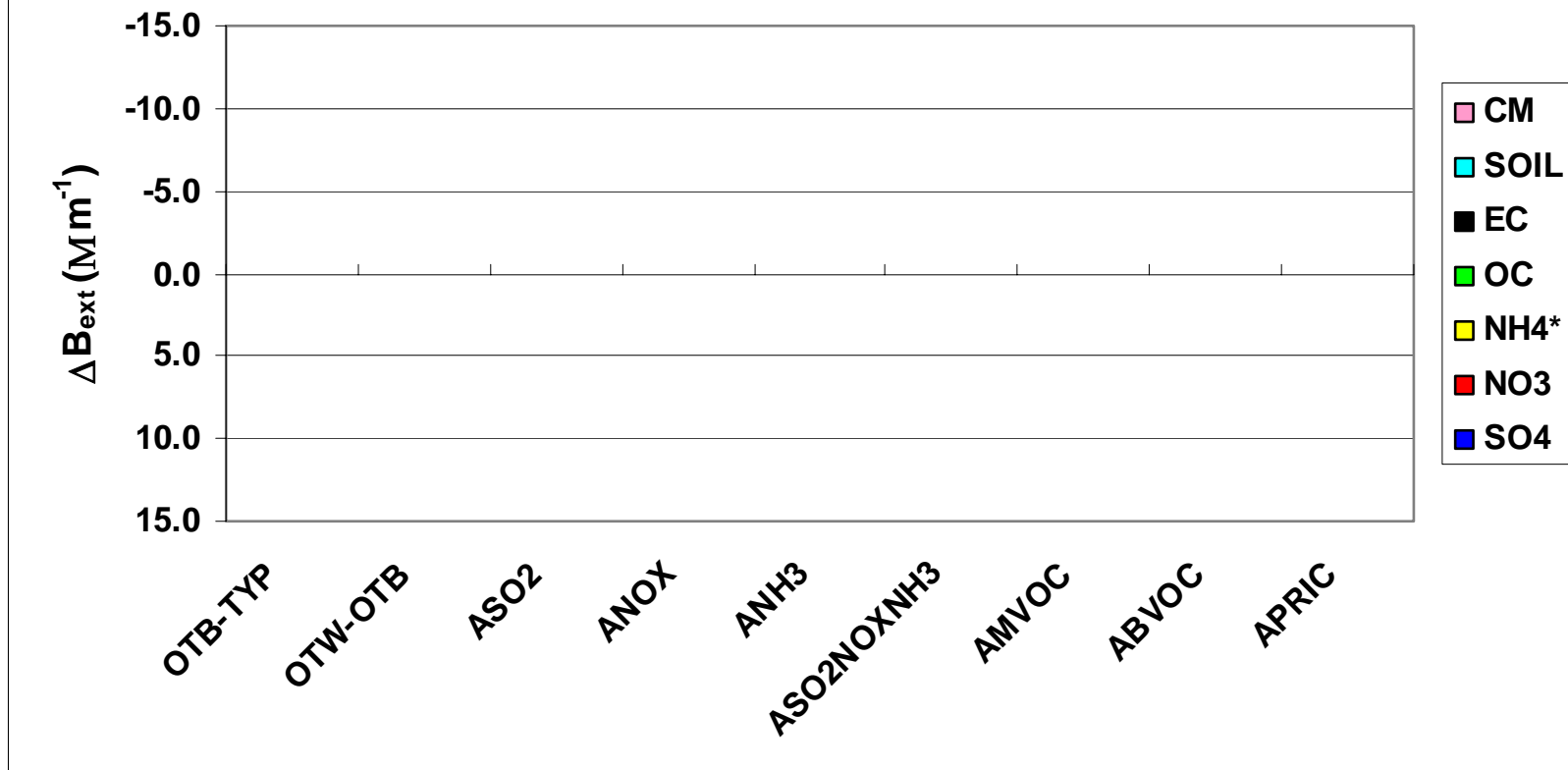


Weighted B_{ext} Response at Mammoth Cave to Reductions in OTB Emissions: Worst 20%

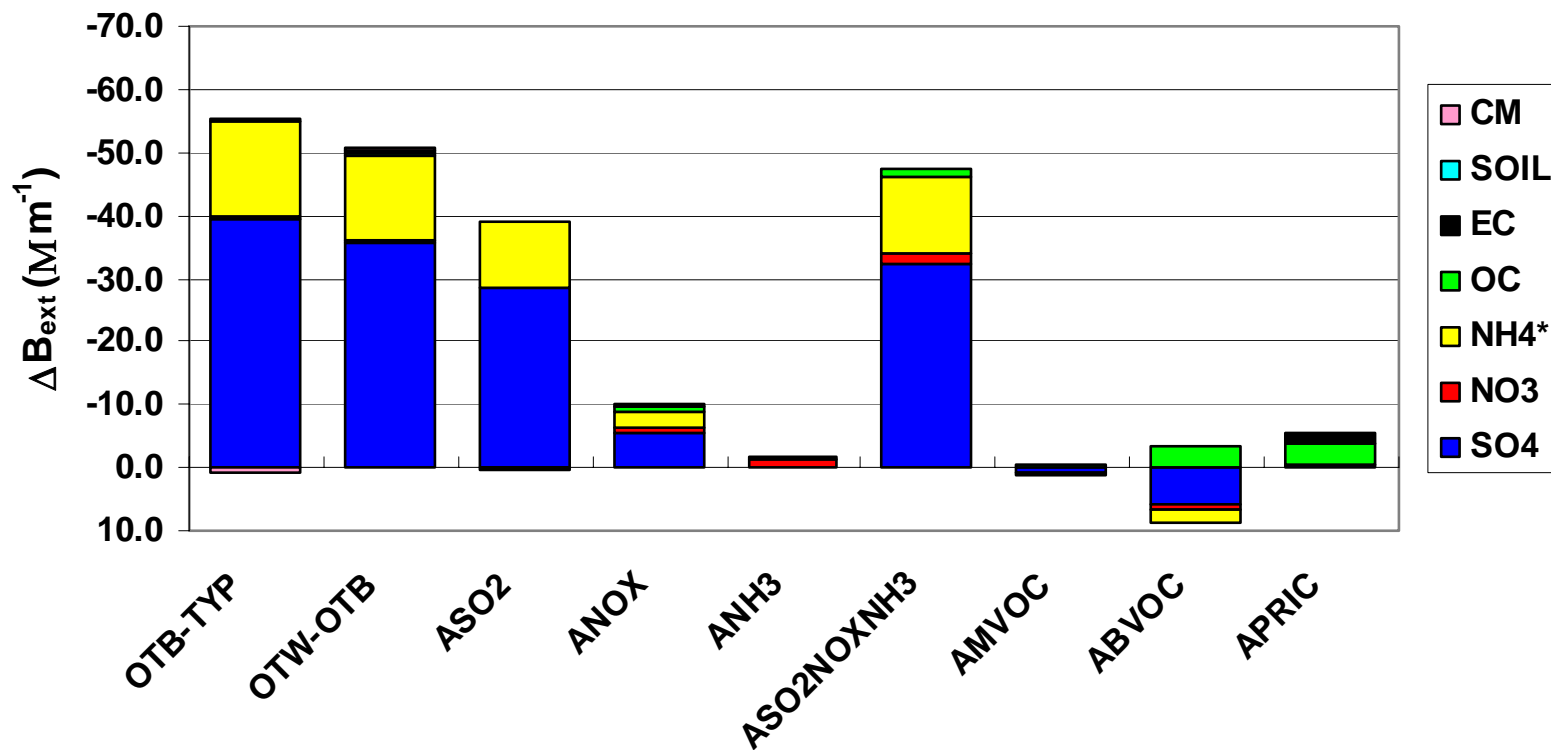


Cohutta

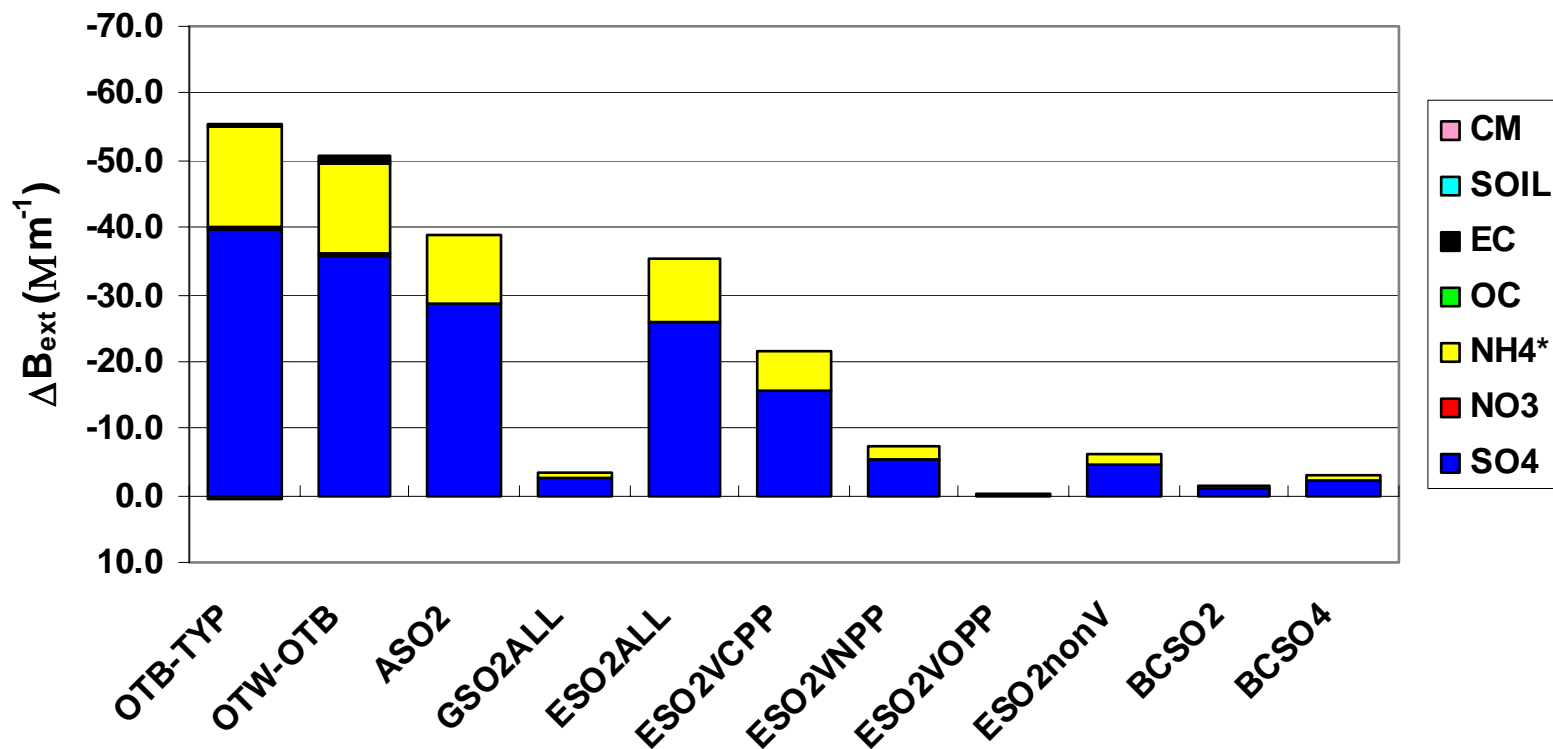
Weighted B_{ext} Response at Cohutta to Reductions in OTB Emissions: Best 20%



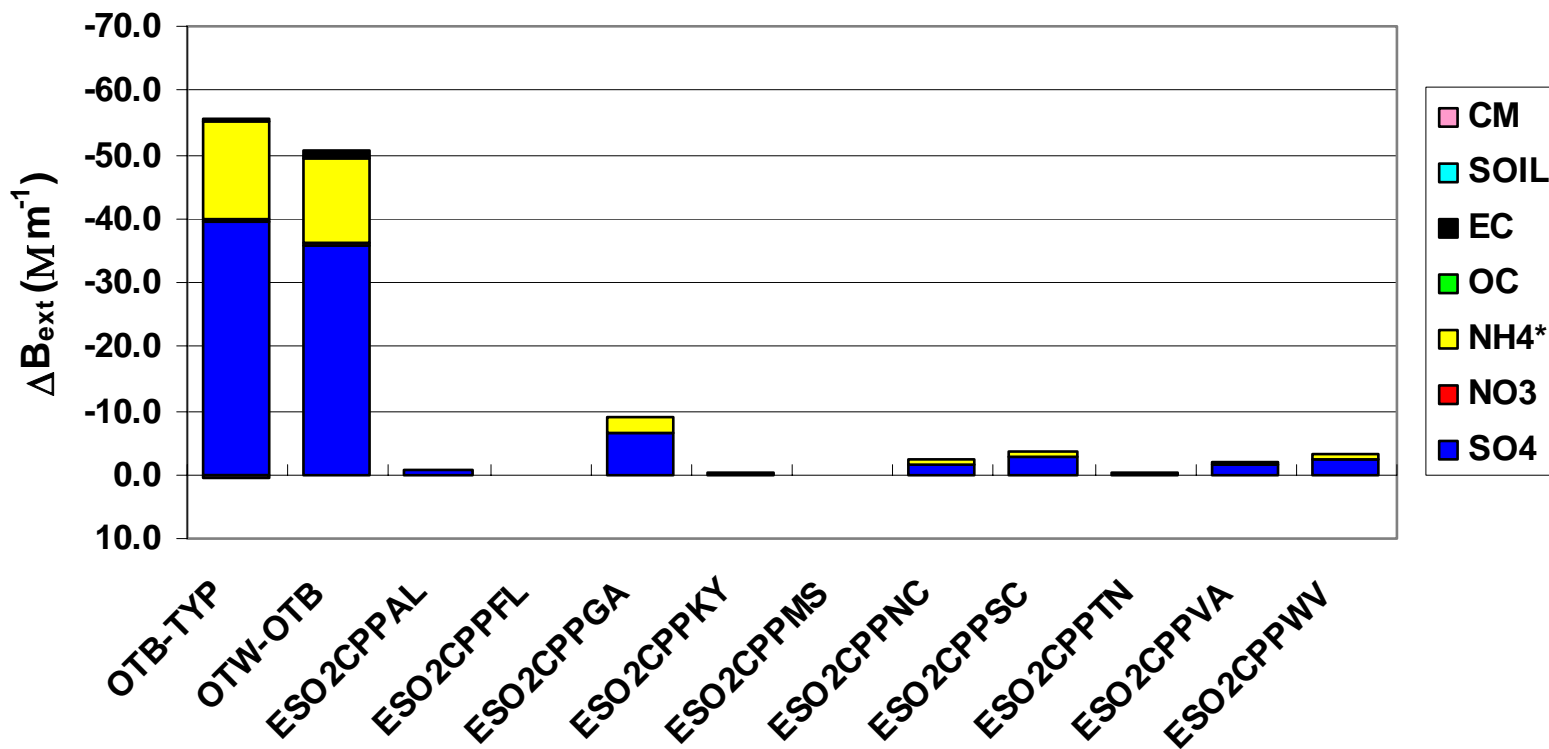
Weighted B_{ext} Response at Cohutta to Reductions in OTB Emissions: Worst 20%



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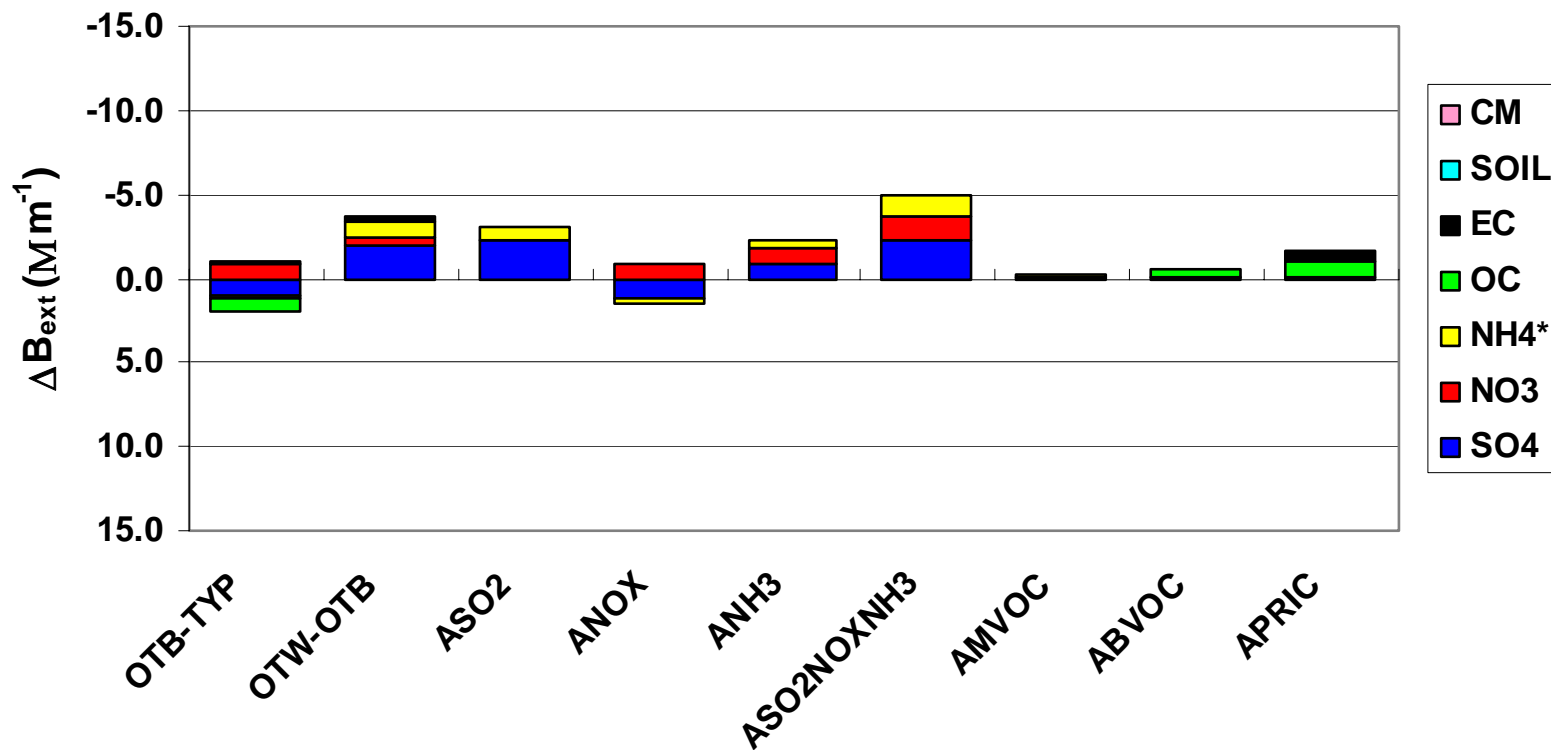


Weighted B_{ext} Response at Cohutta to Reductions in OTB Emissions: Worst 20%

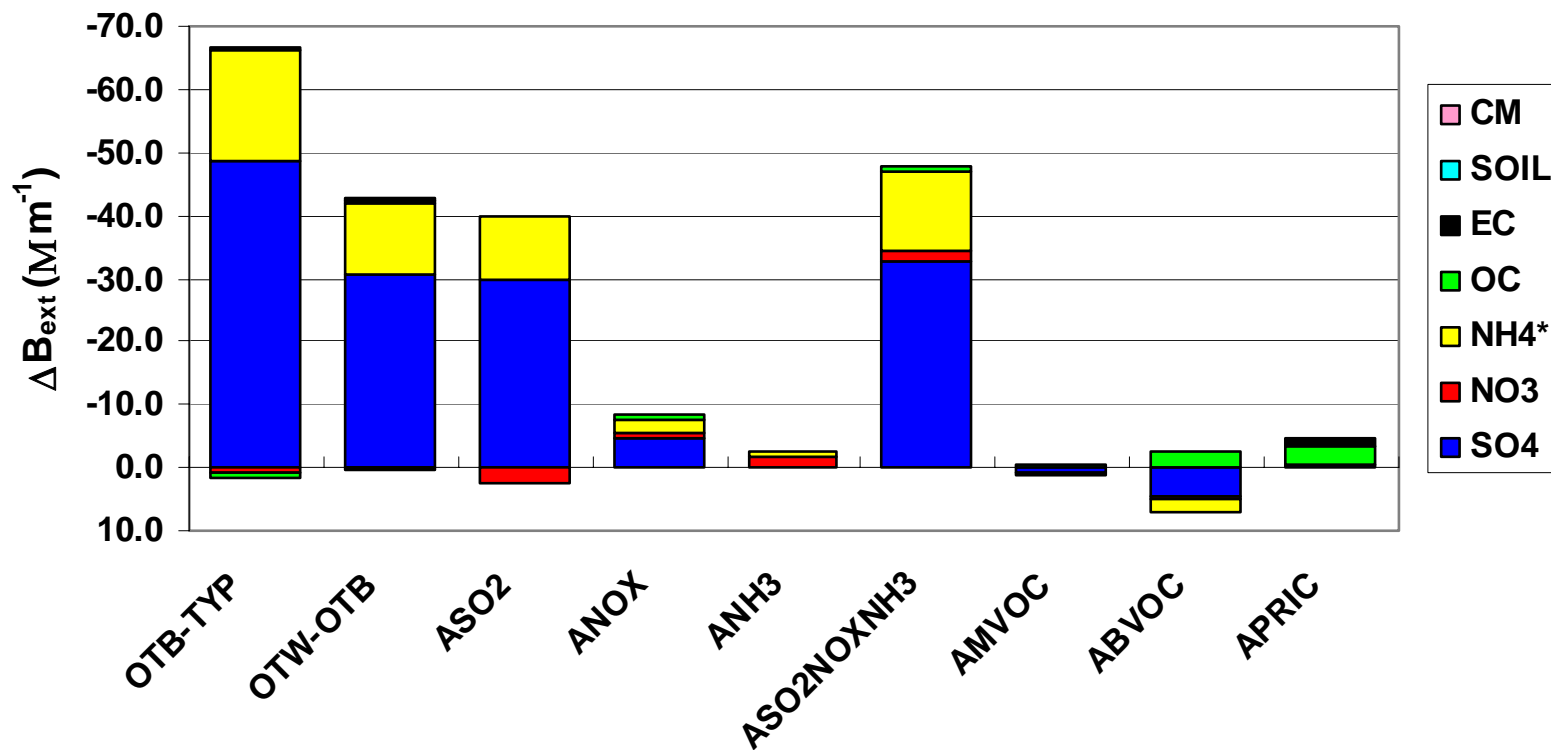


Great Smoky Mountains

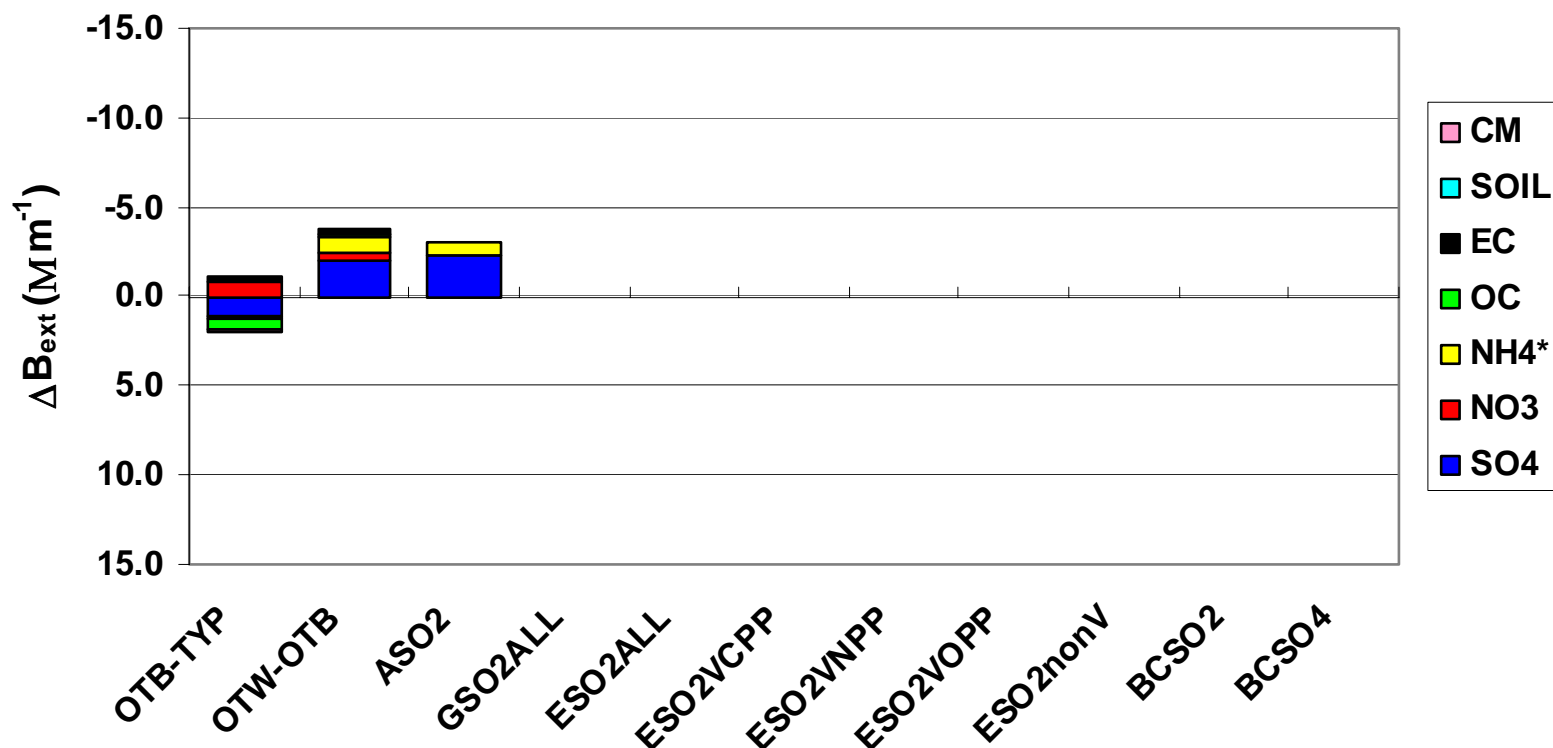
Weighted B_{ext} Response at Great Smoky Mountains to Reductions in OTB Emissions: Best 20%



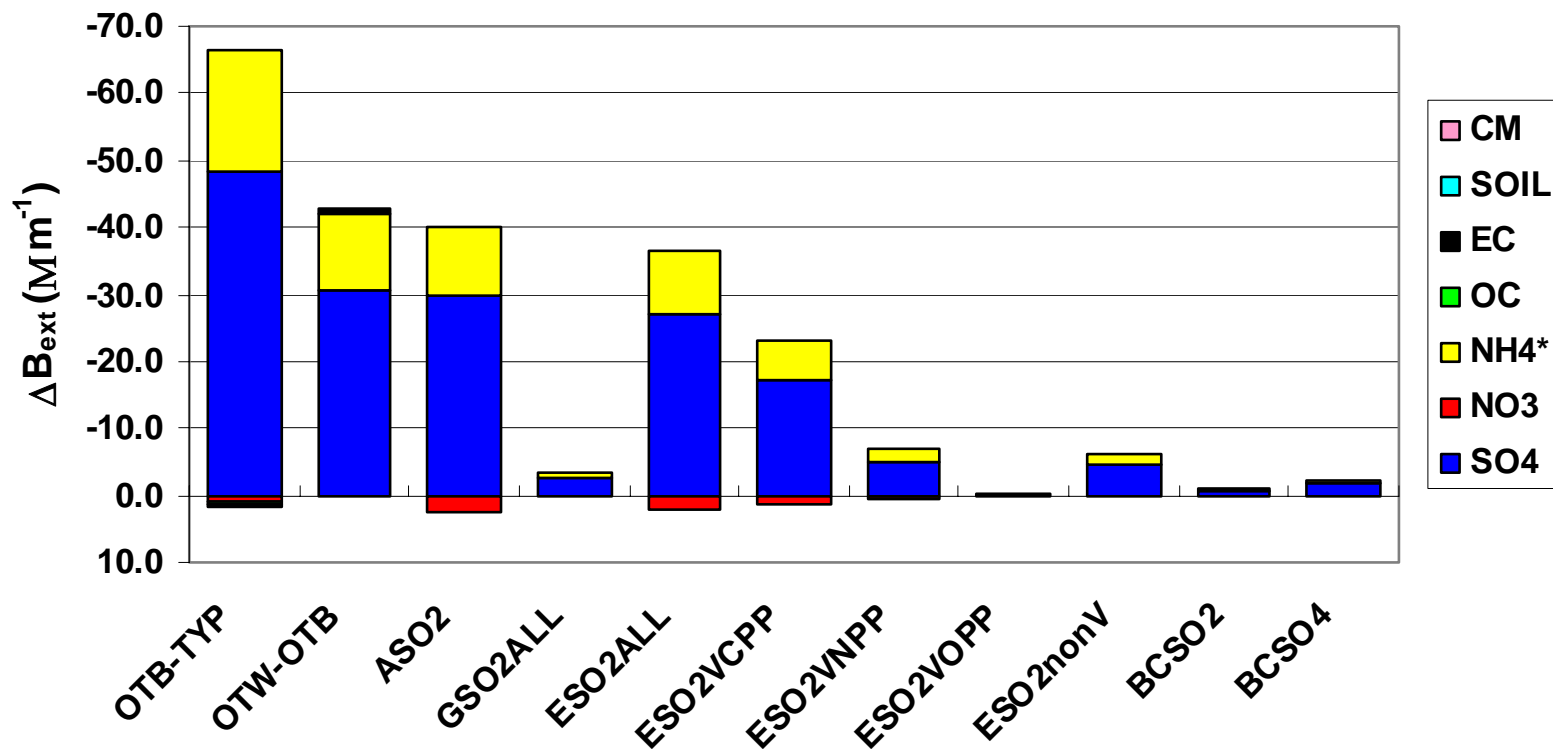
Weighted B_{ext} Response at Great Smoky Mountains to Reductions in OTB Emissions: Worst 20%



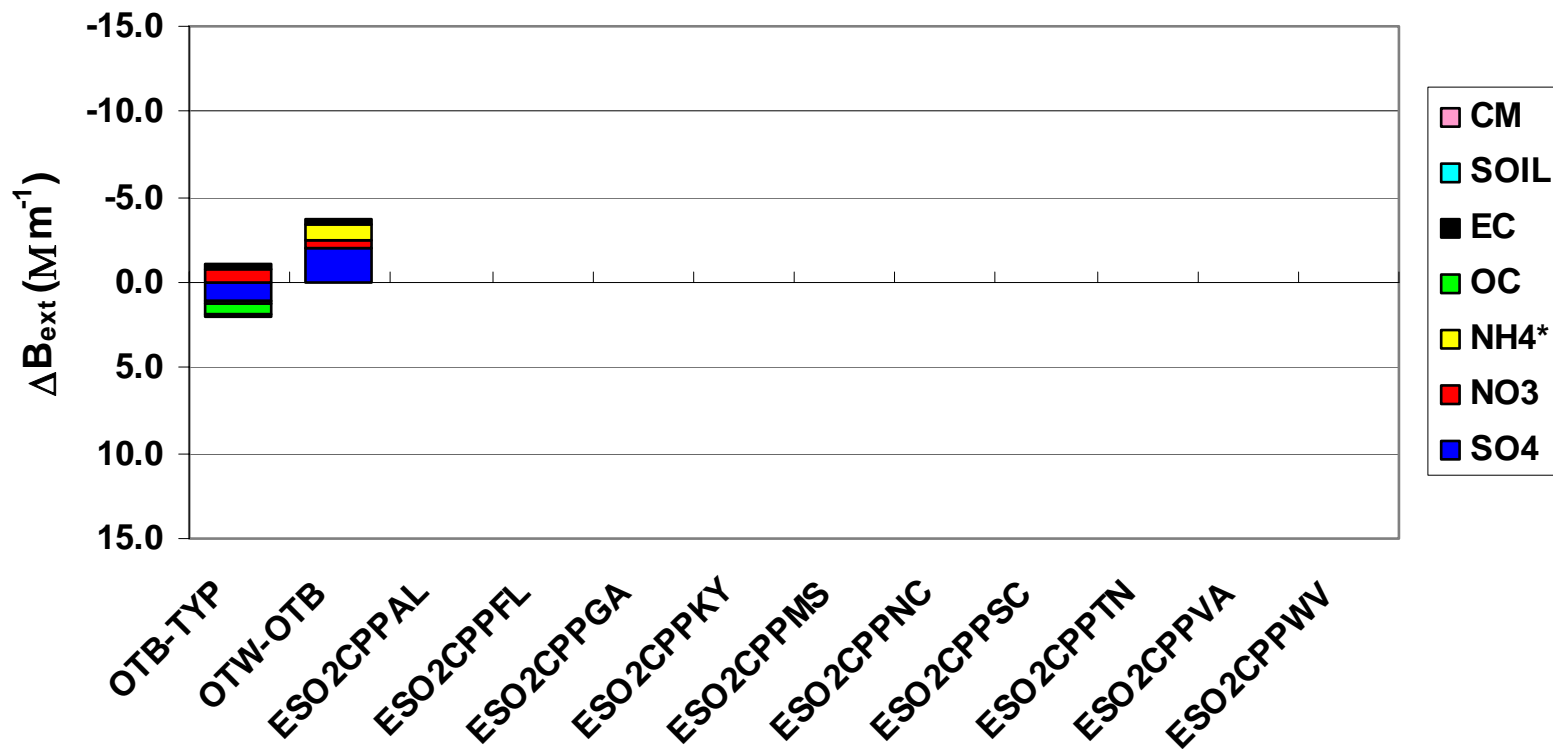
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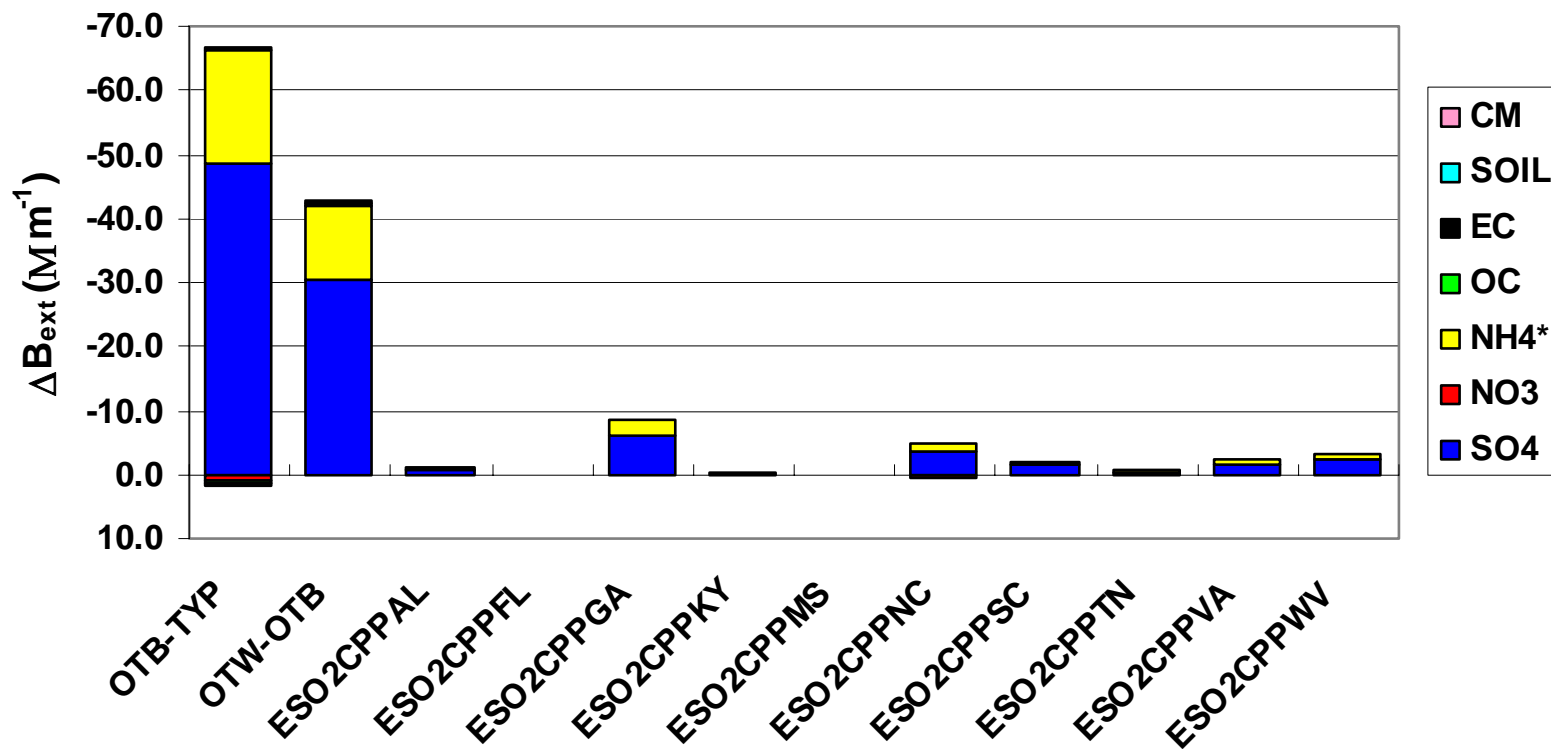
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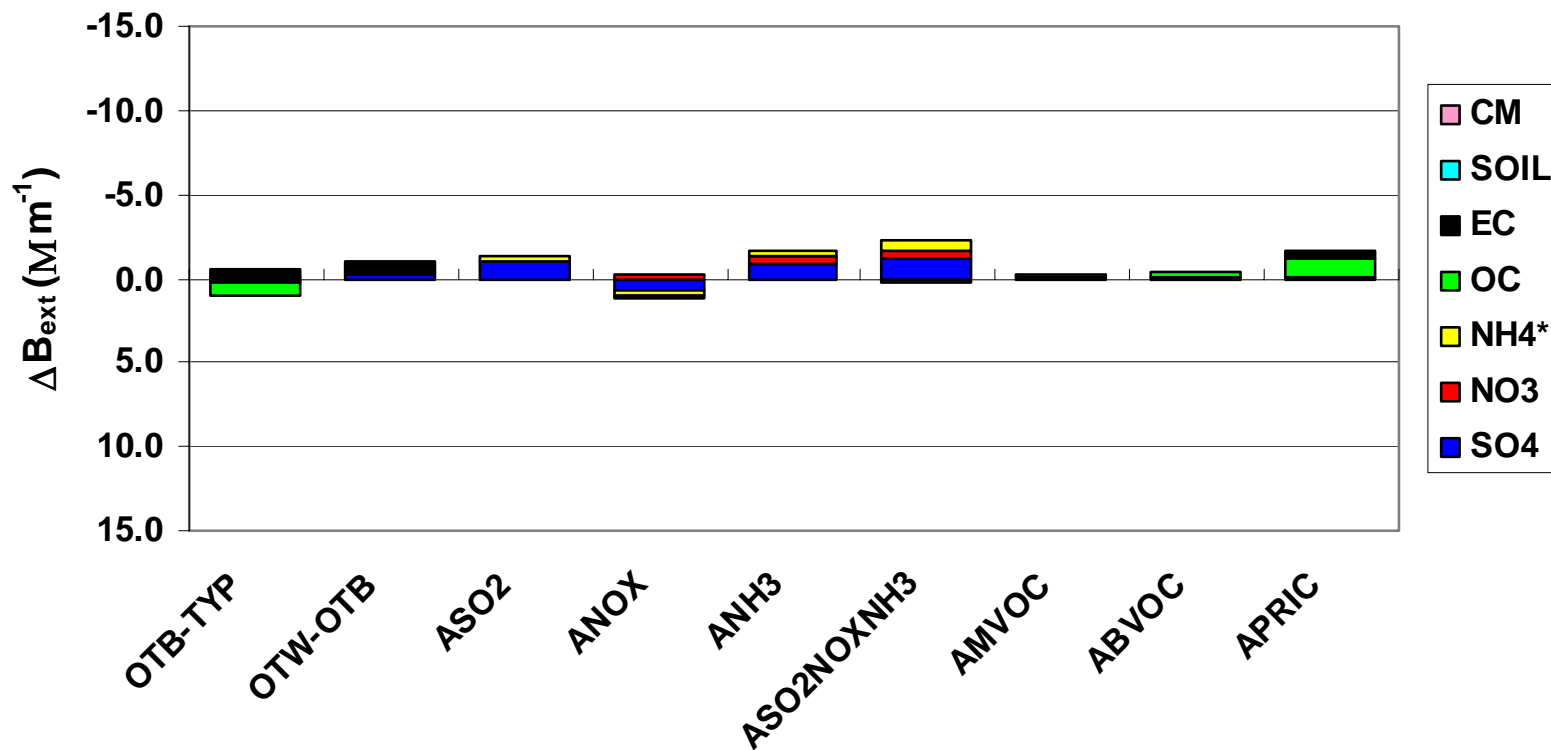


Weighted B_{ext} Response at Great Smoky Mountains to Reductions in OTB Emissions: Worst 20%

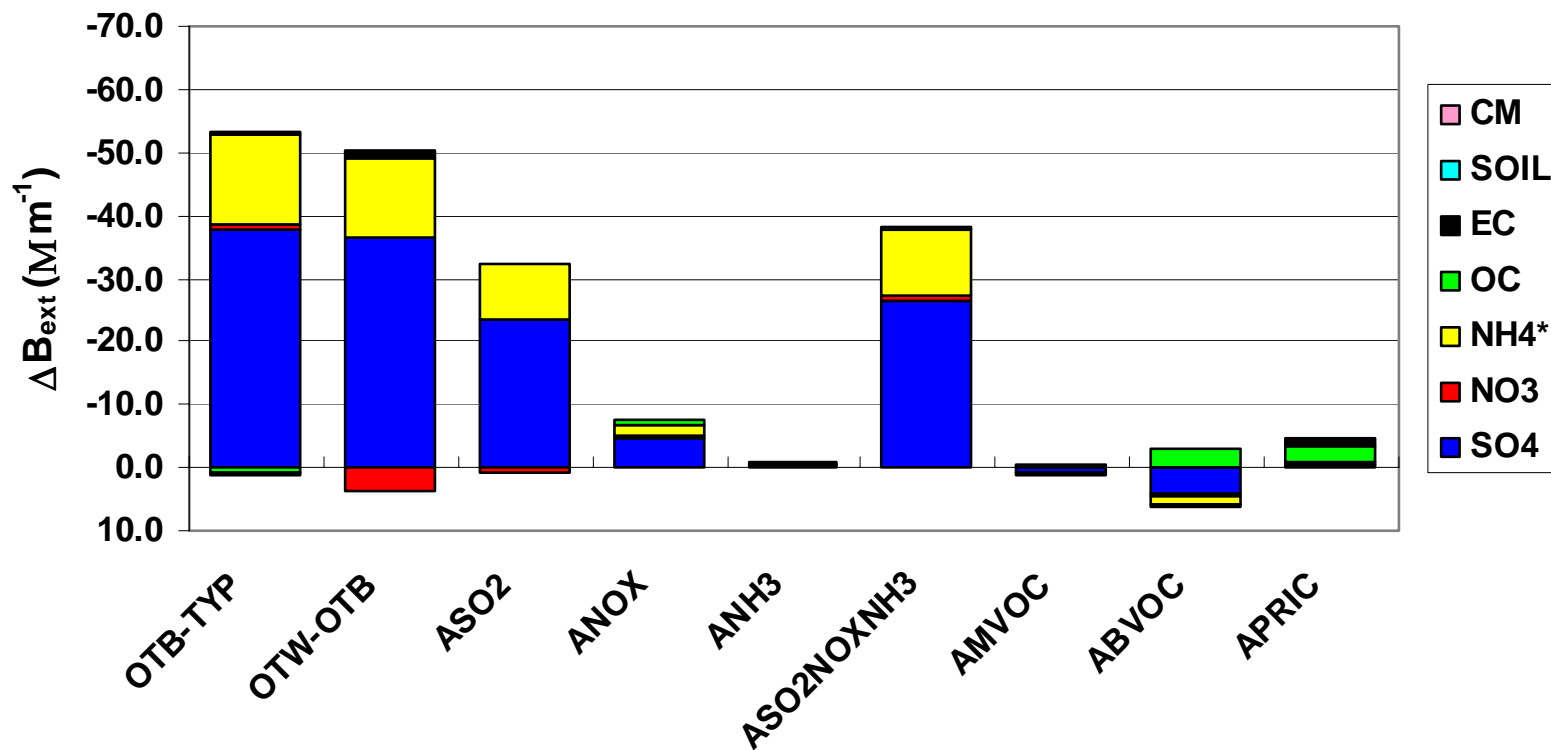


Linville Gorge

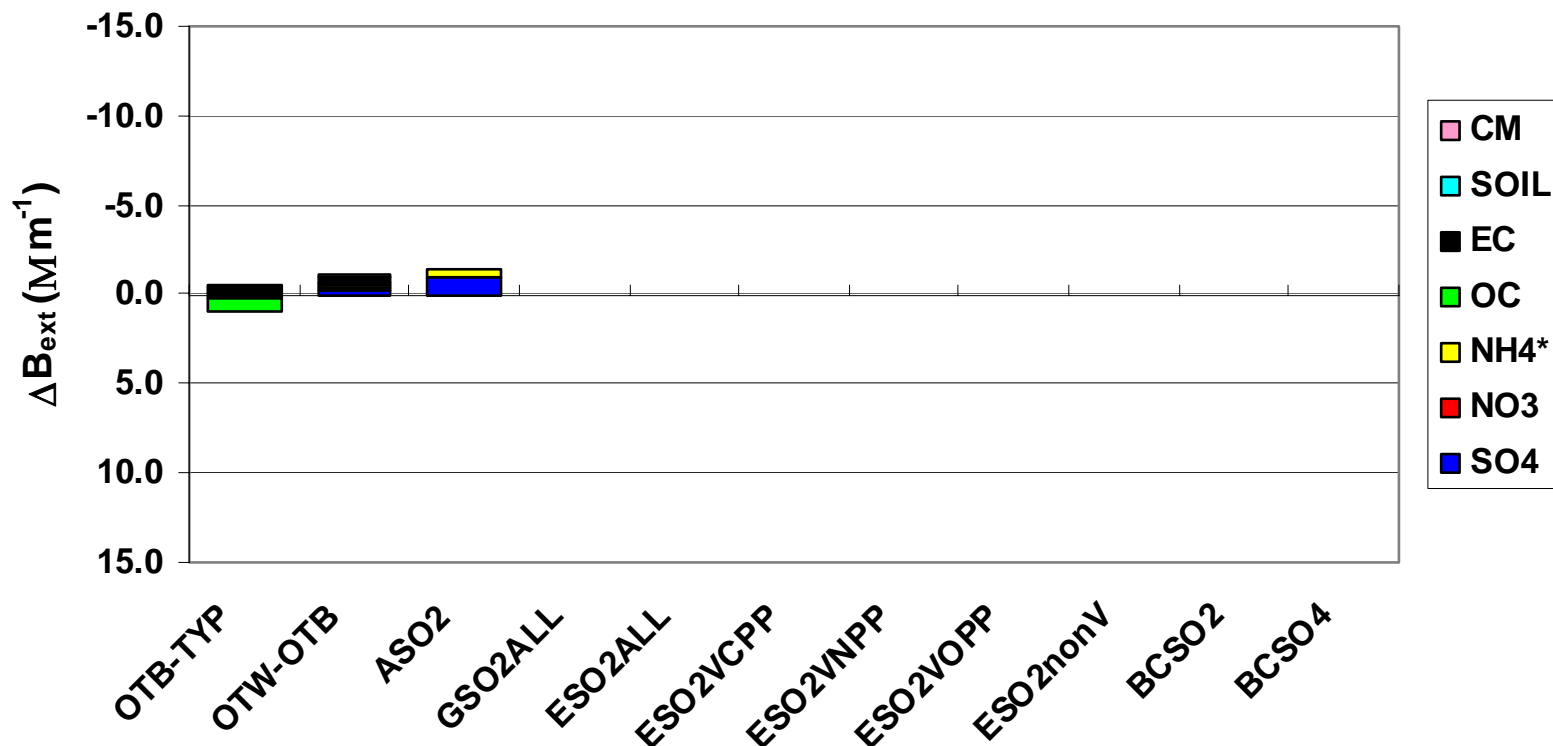
Weighted B_{ext} Response at Linville Gorge to Reductions in OTB Emissions: Best 20%



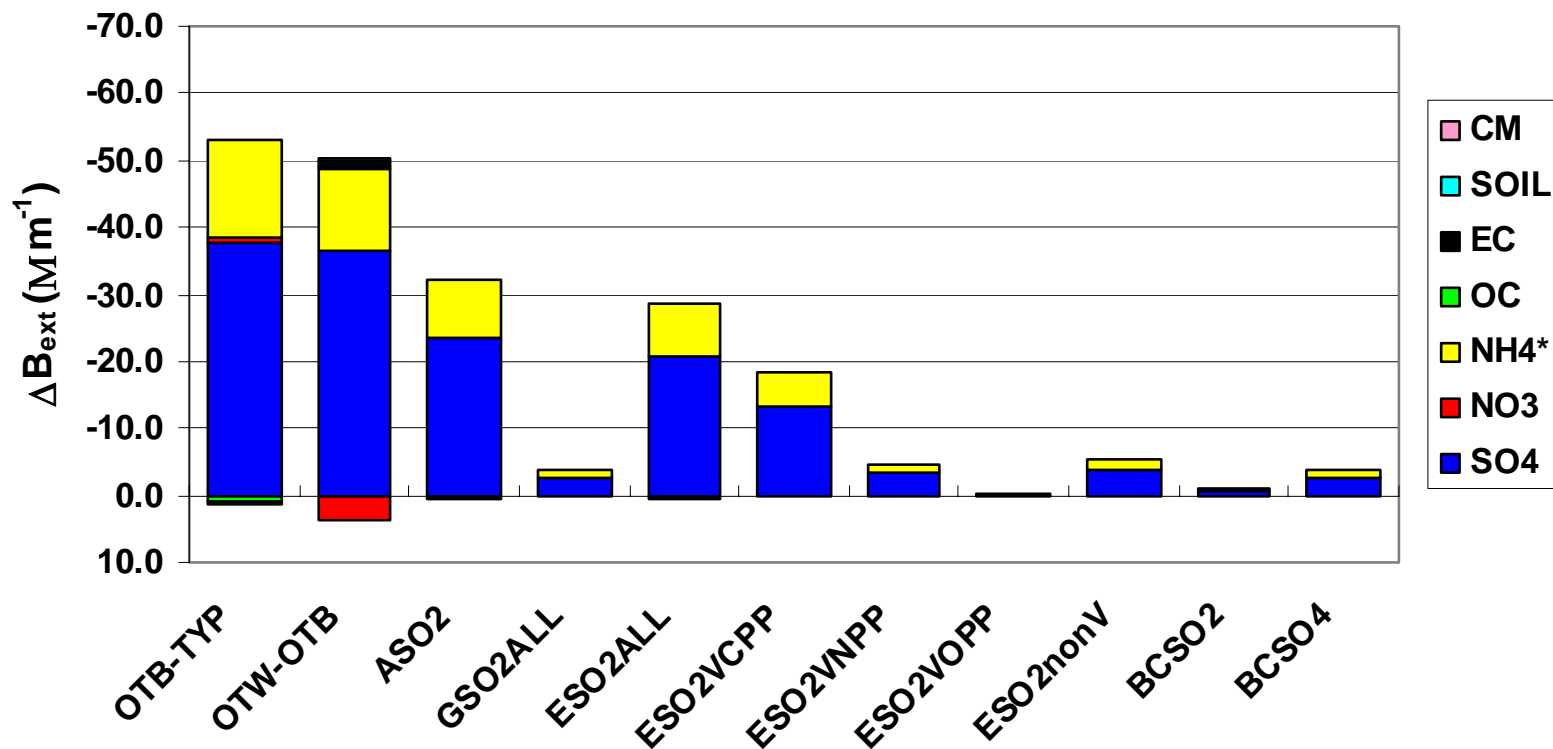
Weighted B_{ext} Response at Linville Gorge to Reductions in OTB Emissions: Worst 20%



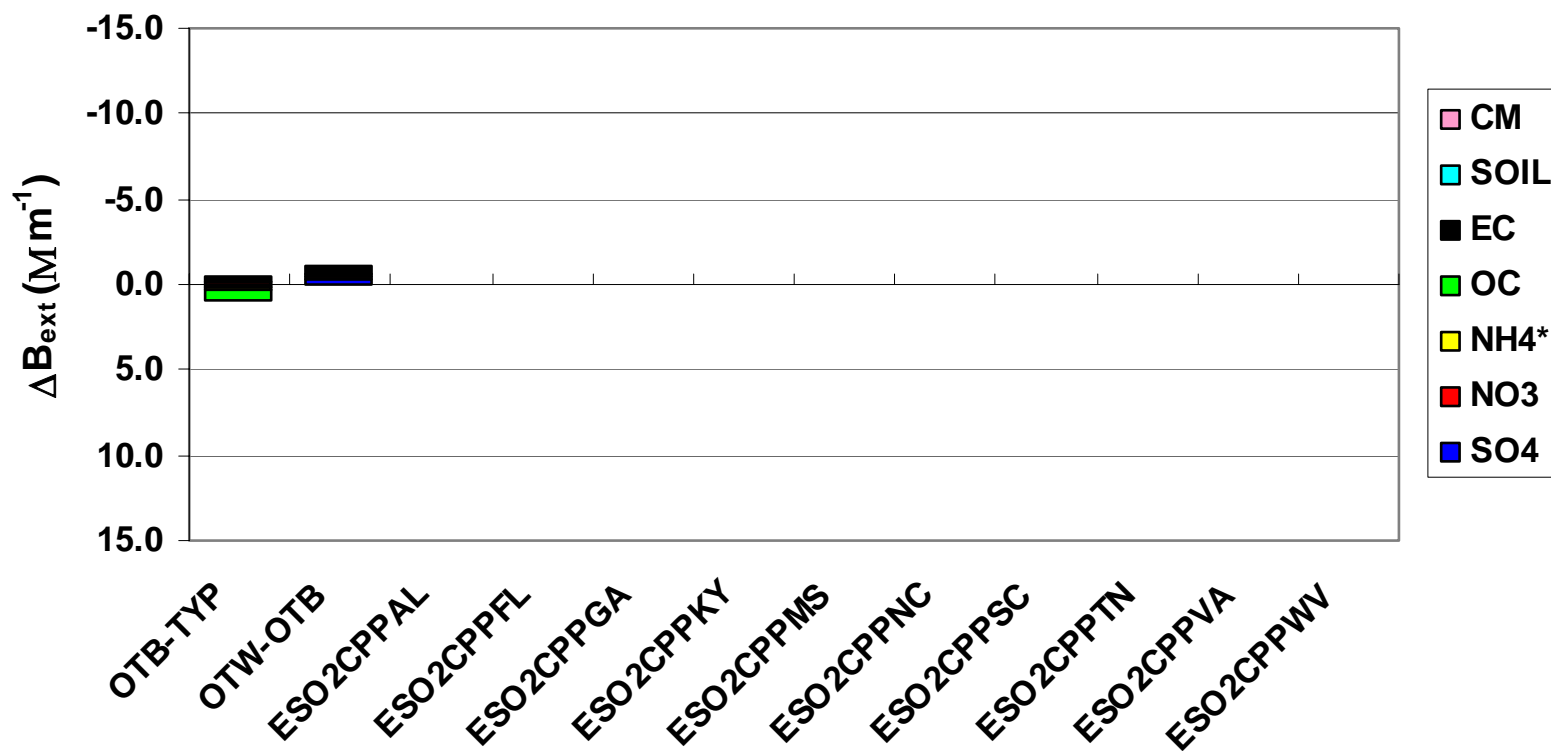
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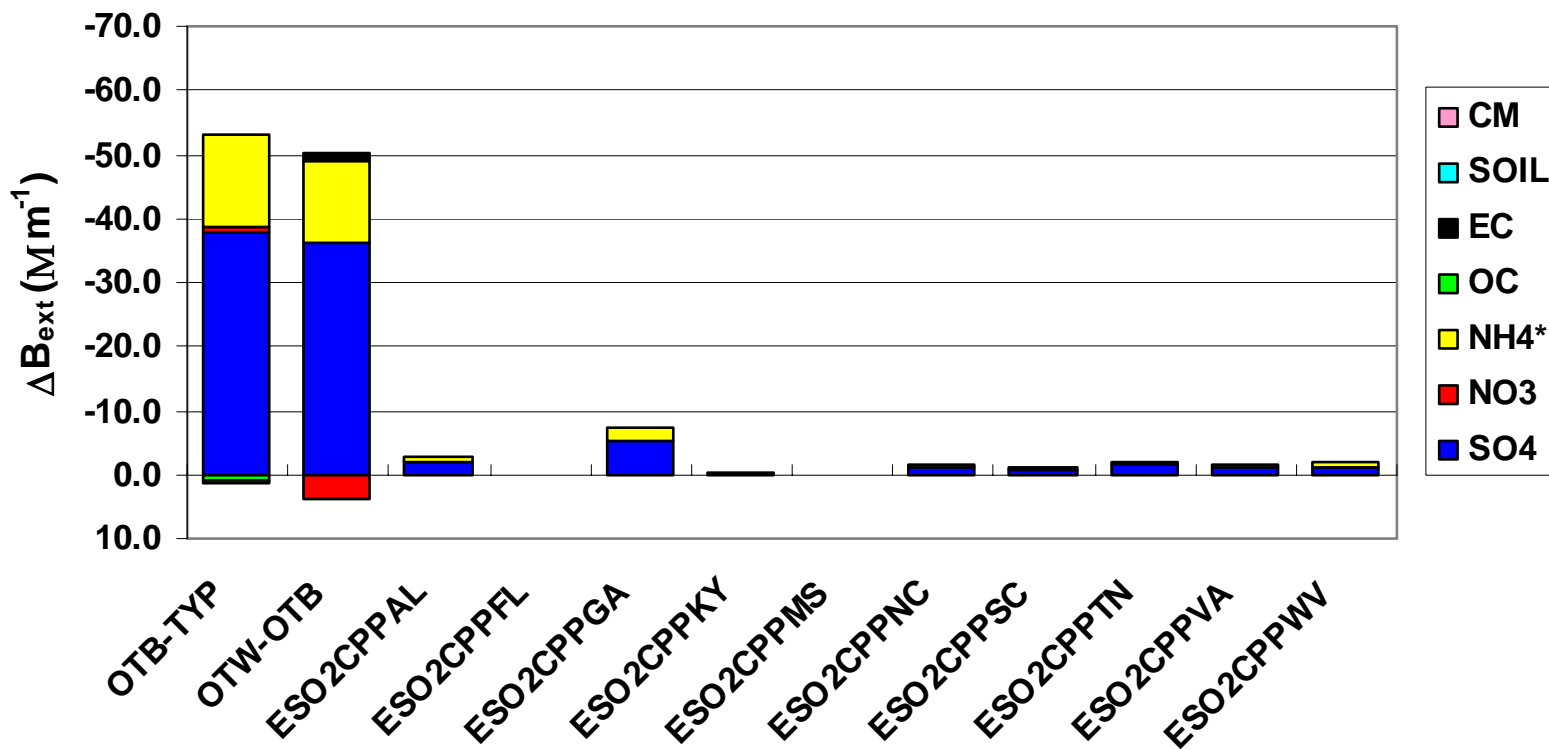
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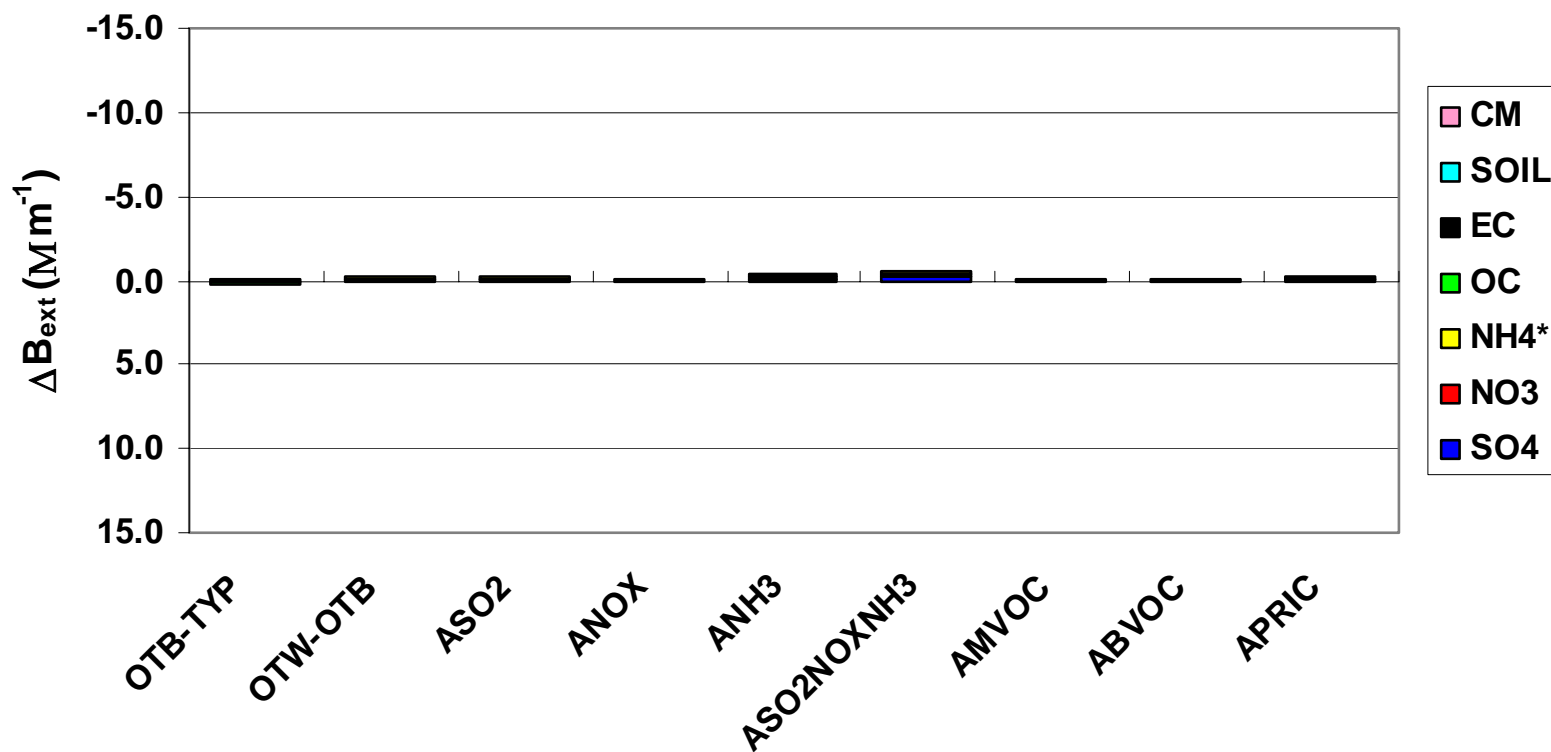


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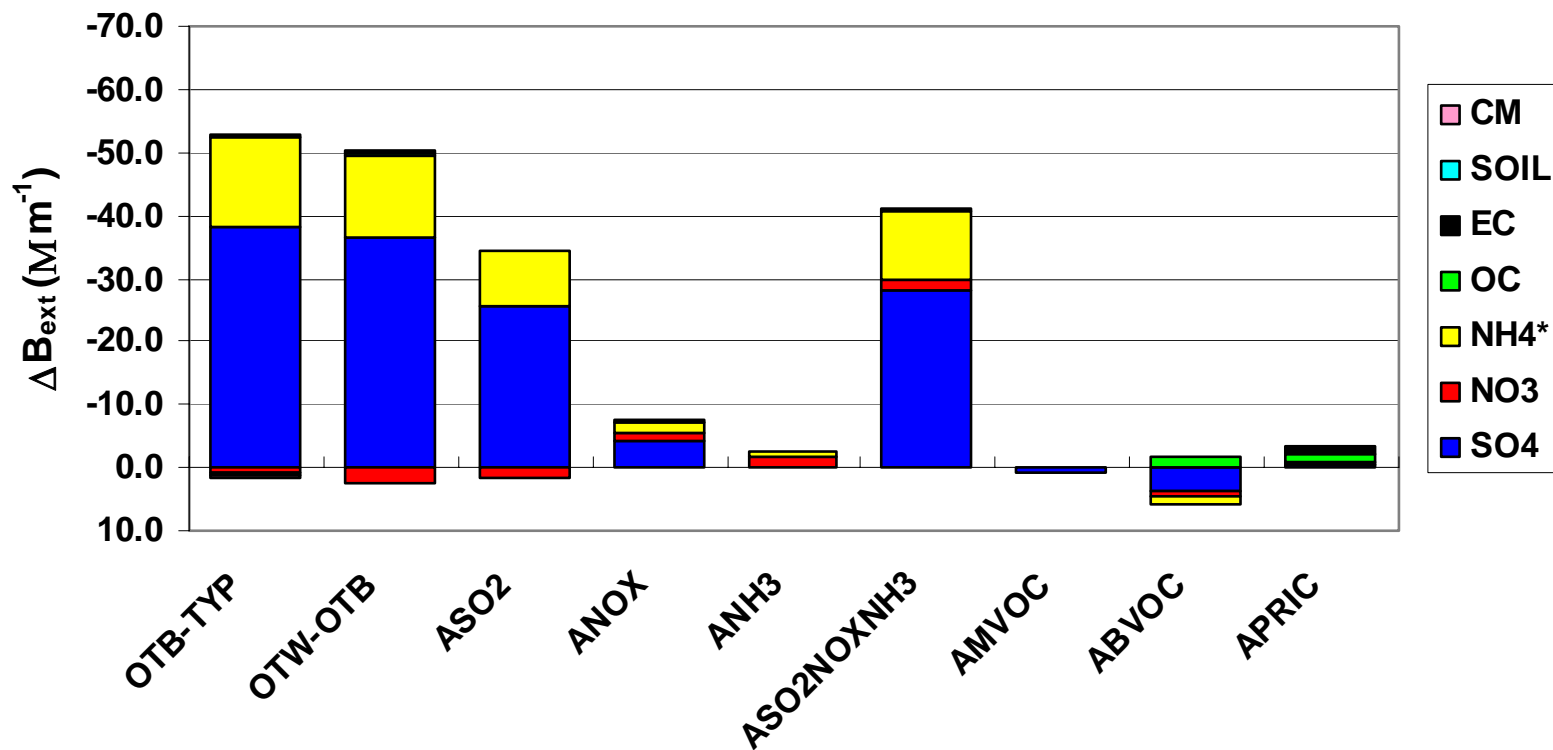


Shining Rock

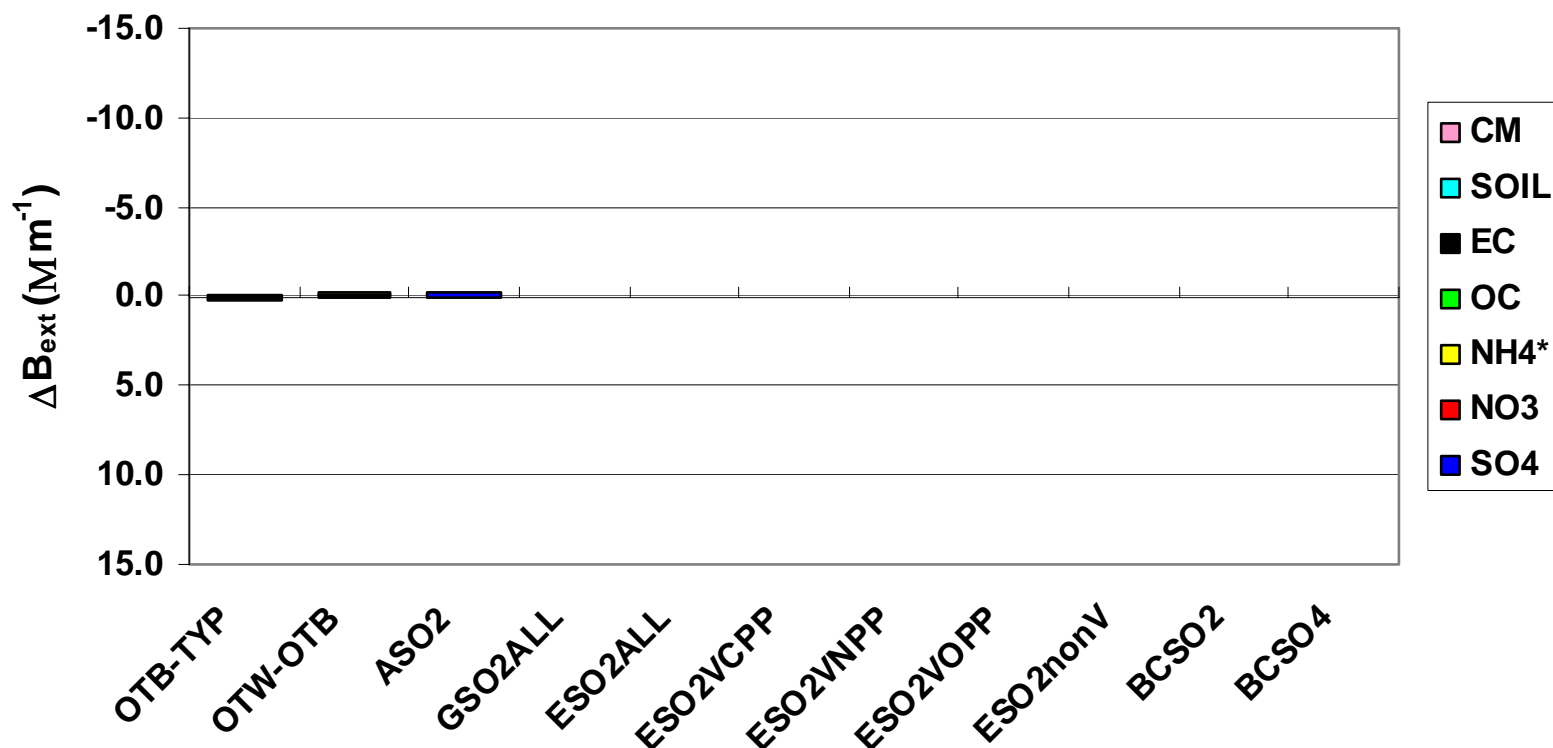
Weighted B_{ext} Response at Shining Rock to Reductions in OTB Emissions: Best 20%



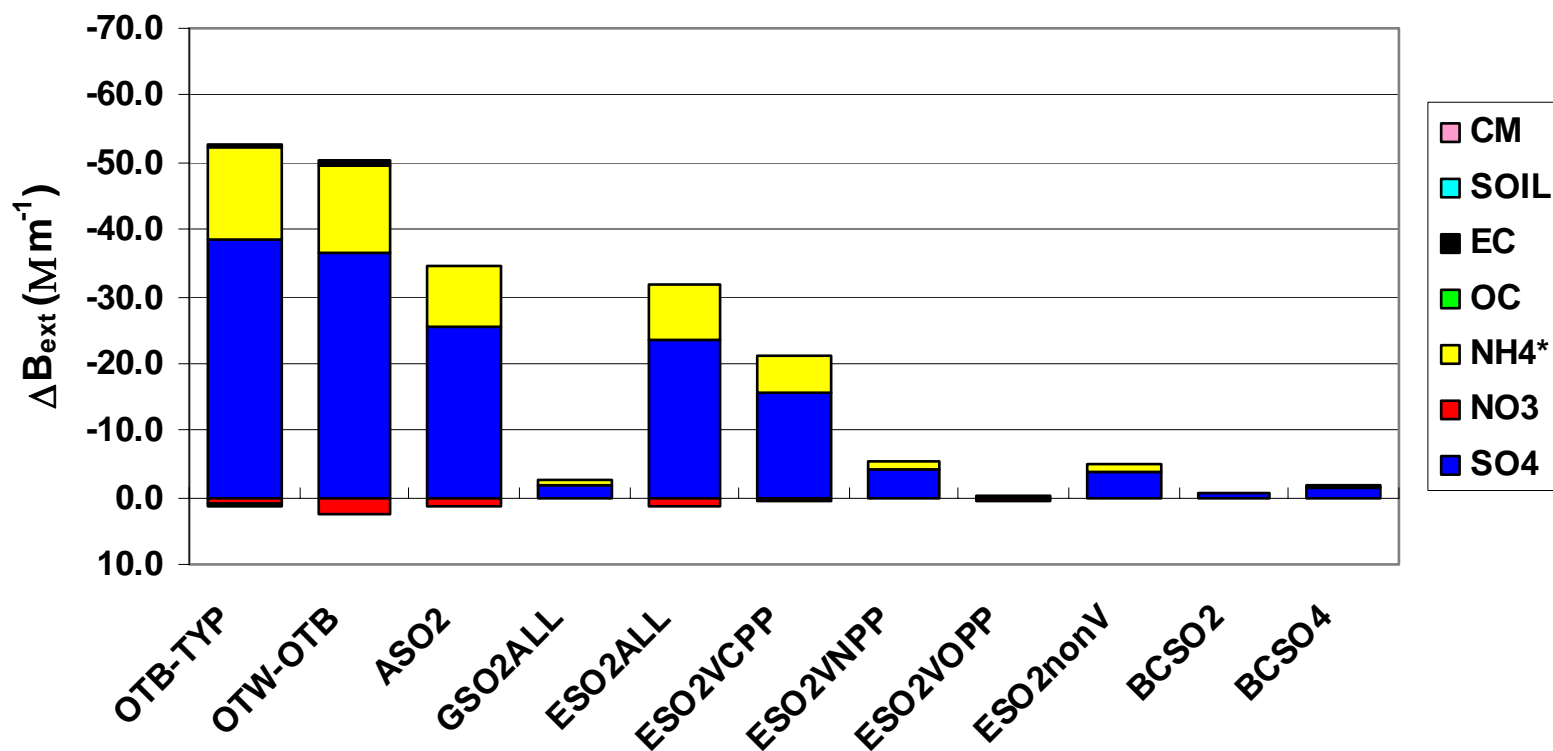
Weighted B_{ext} Response at Shining Rock to Reductions in OTB Emissions: Worst 20%



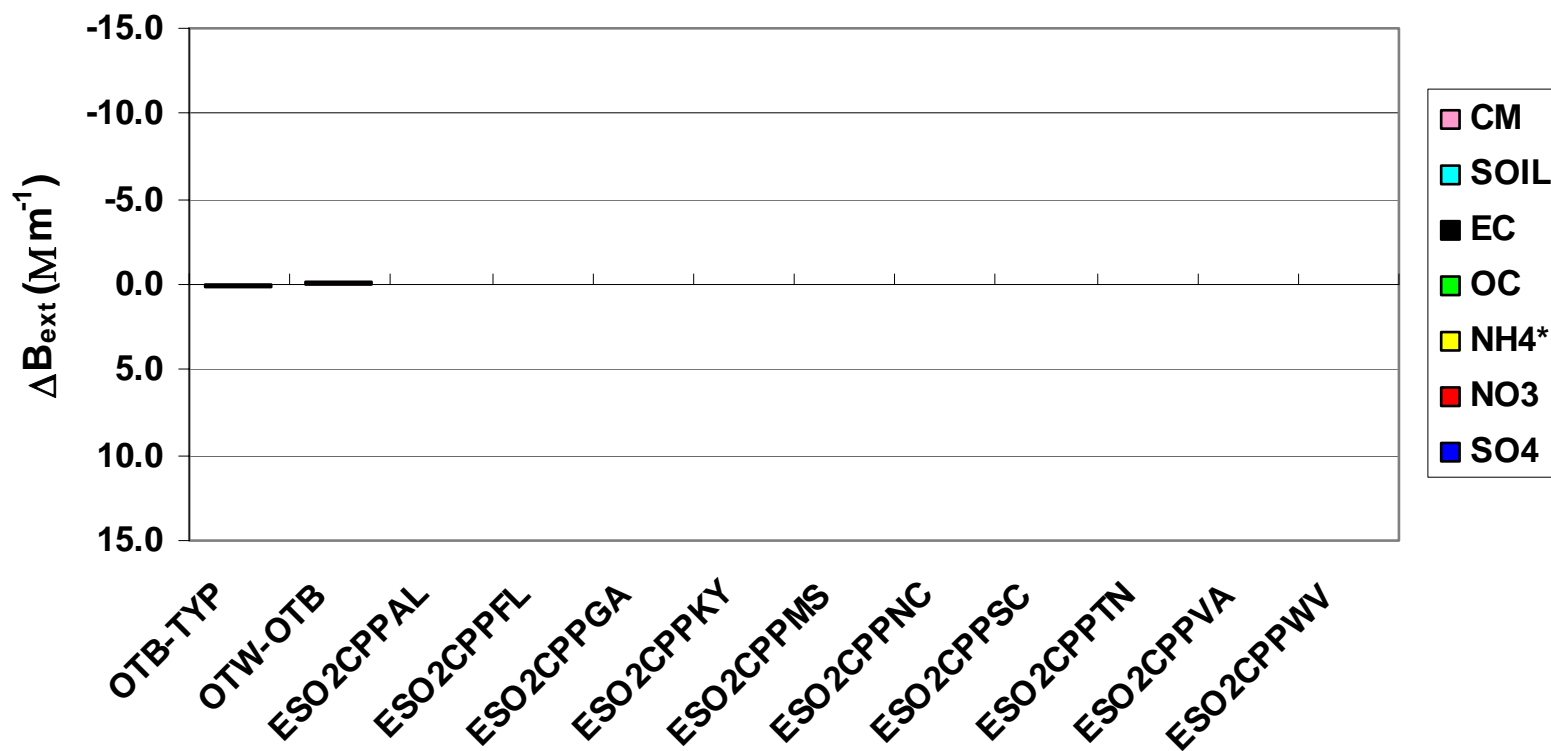
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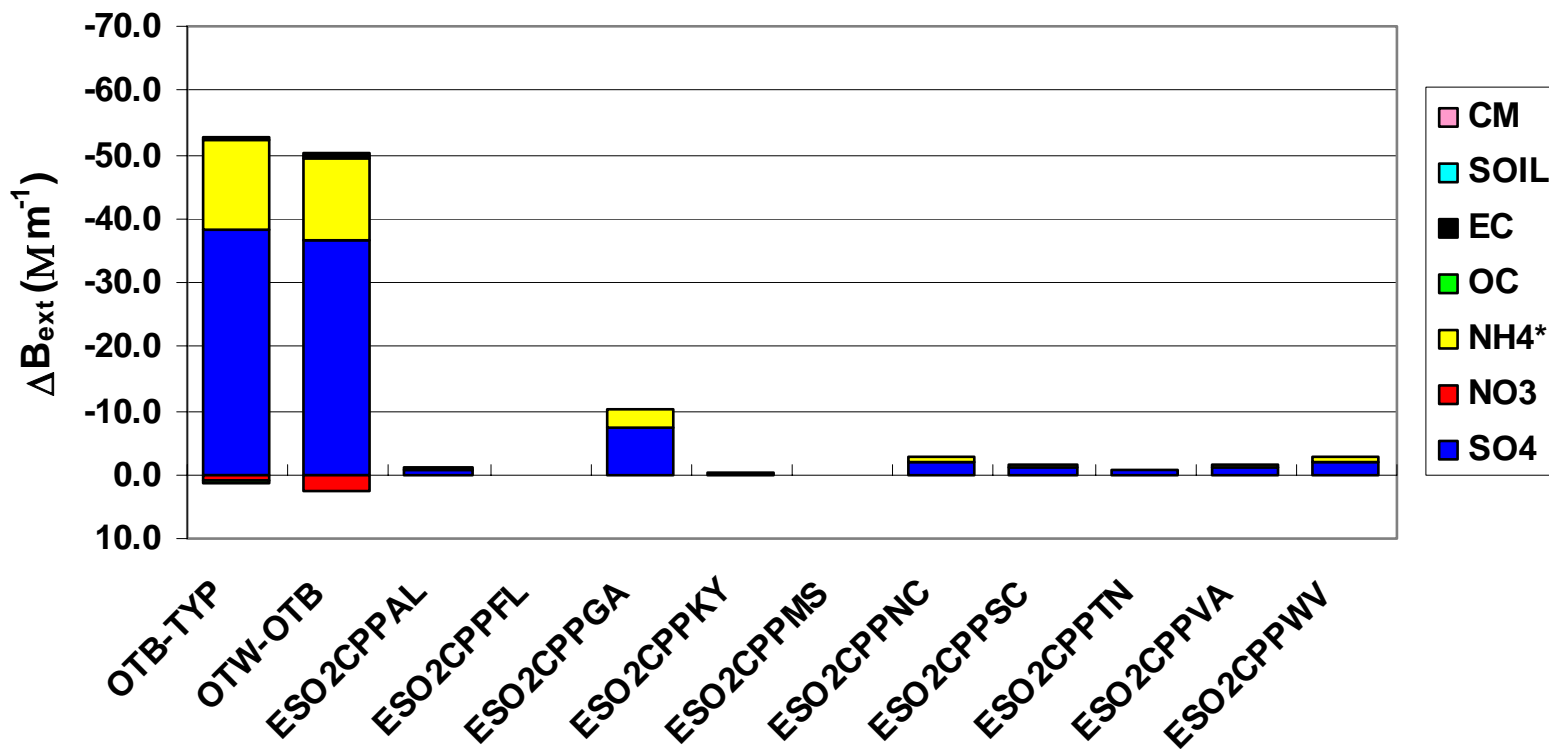
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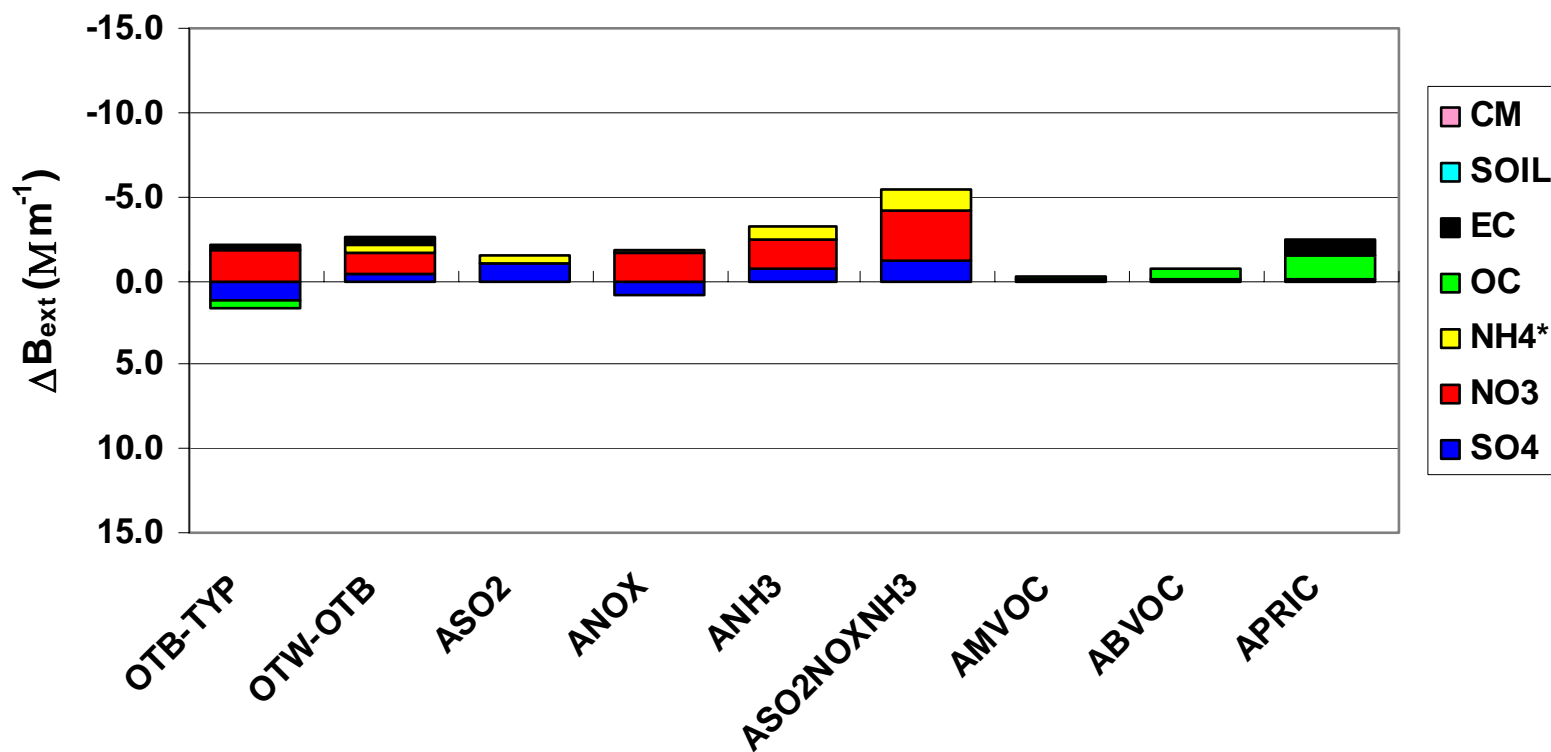


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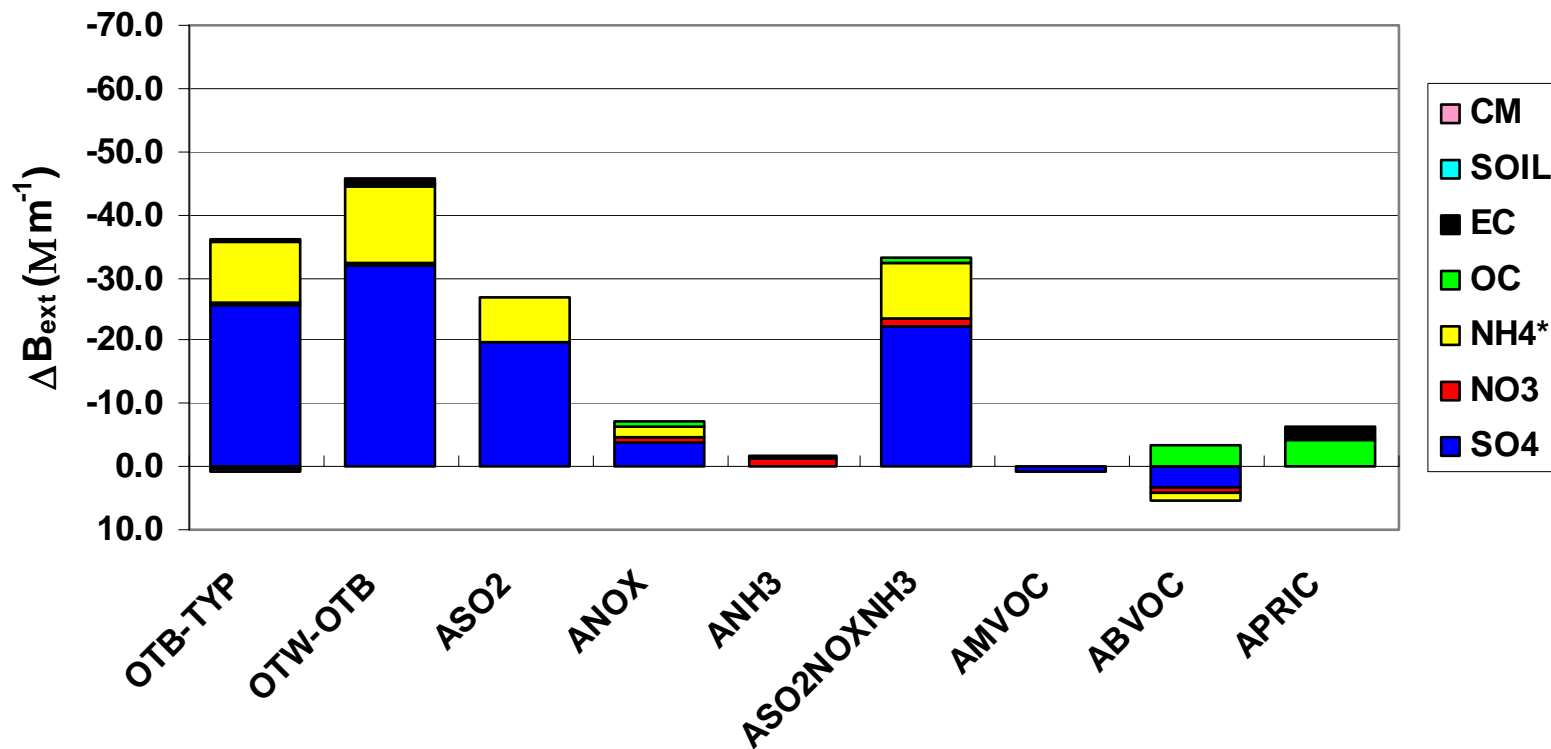


Sipsey

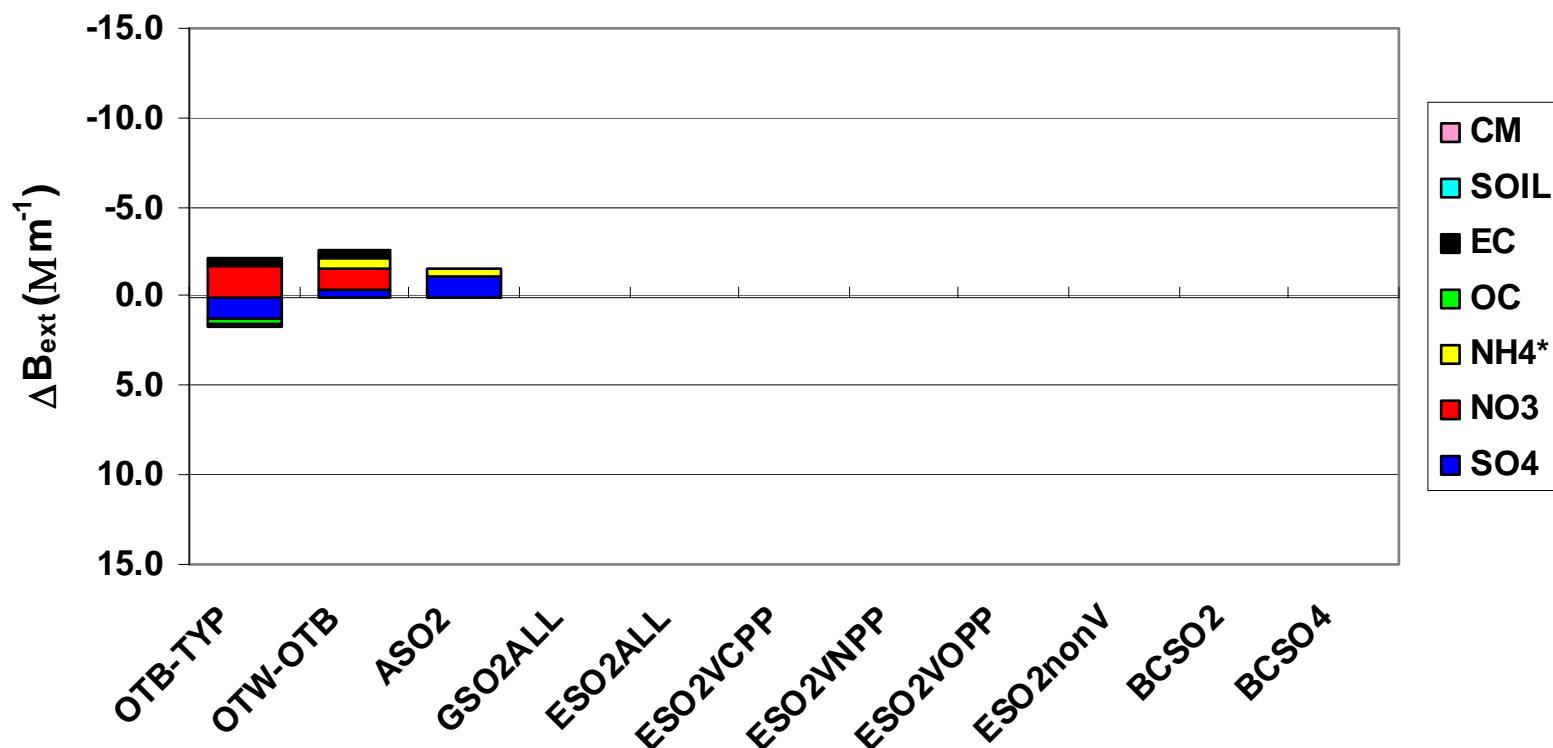
Weighted B_{ext} Response at Sipsley to Reductions in OTB Emissions: Best 20%



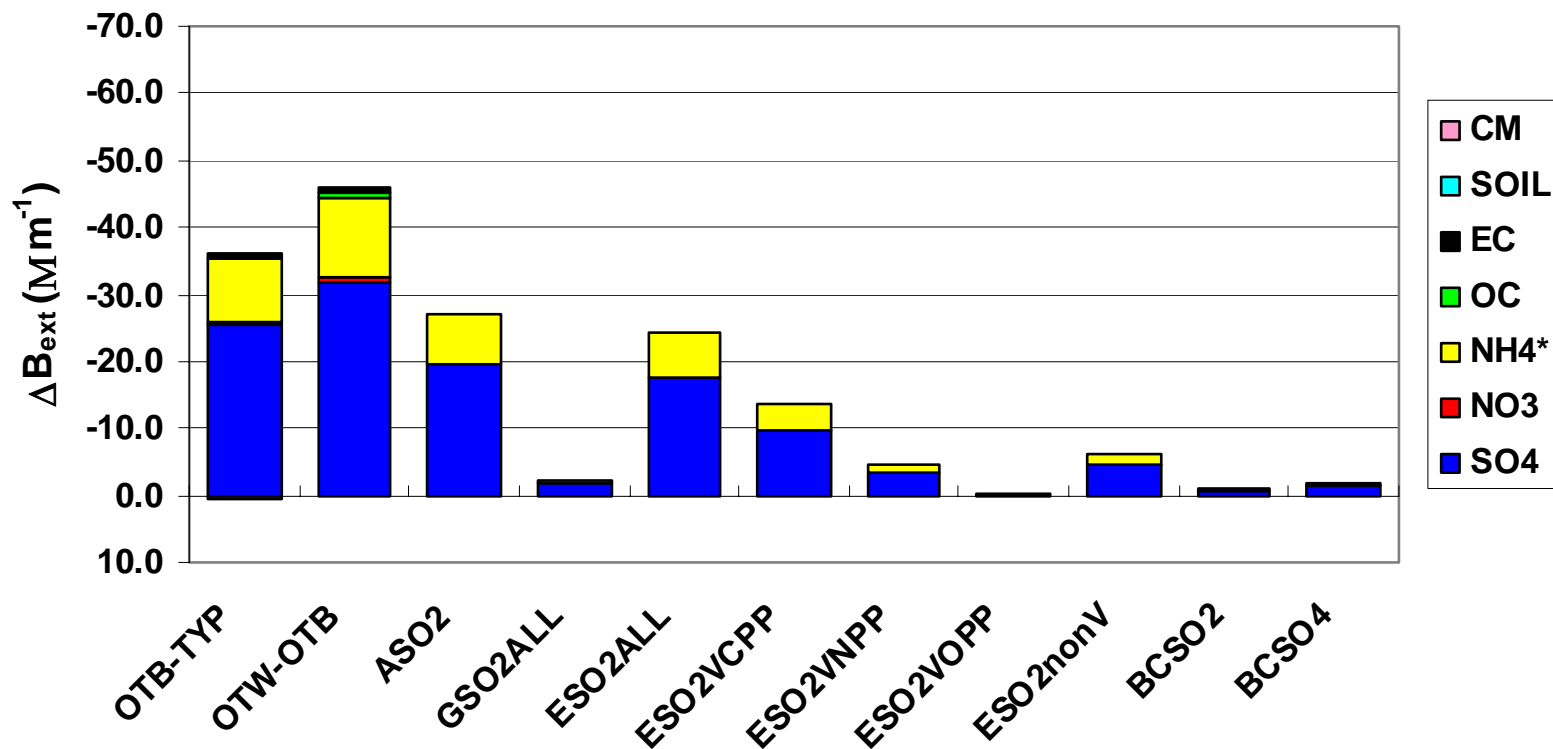
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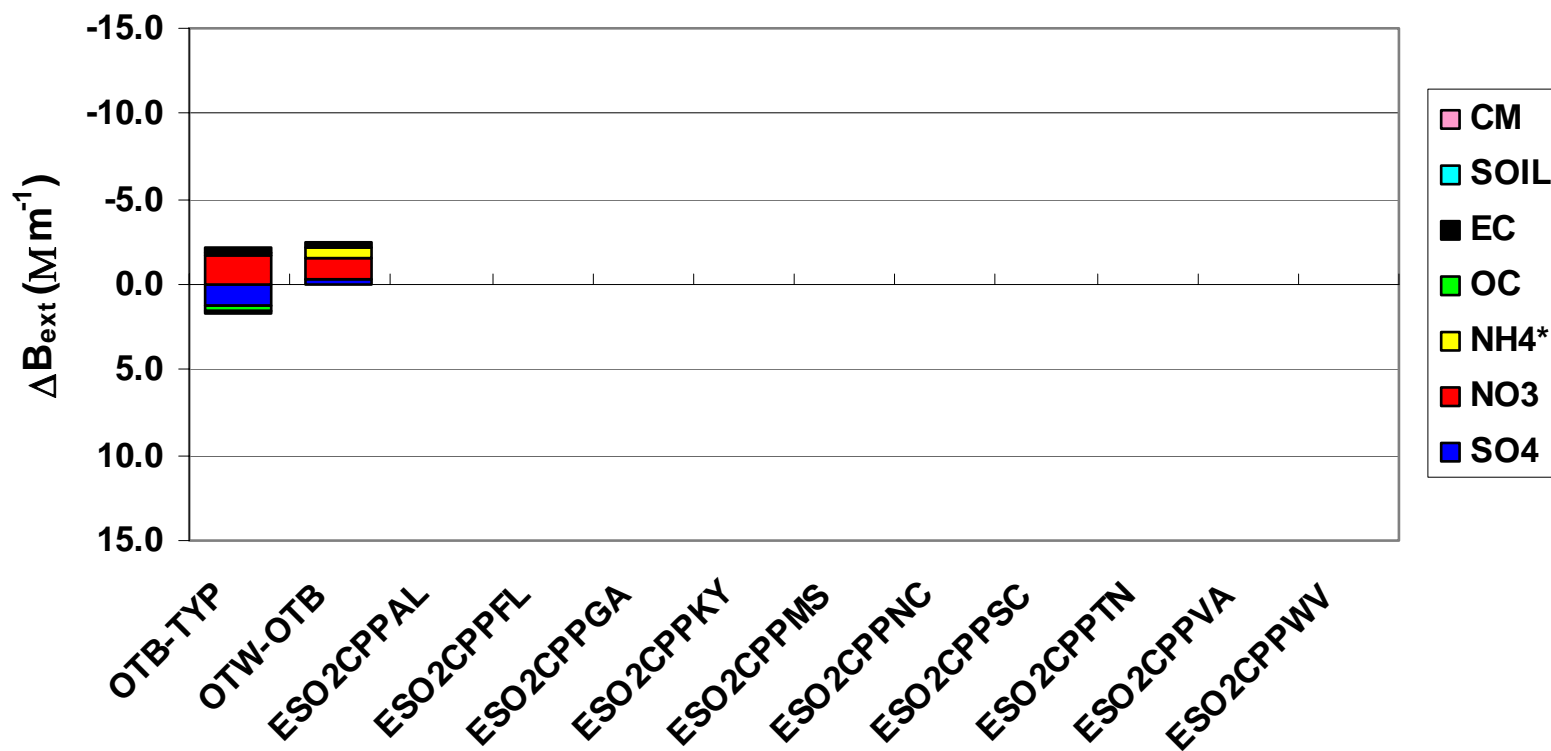
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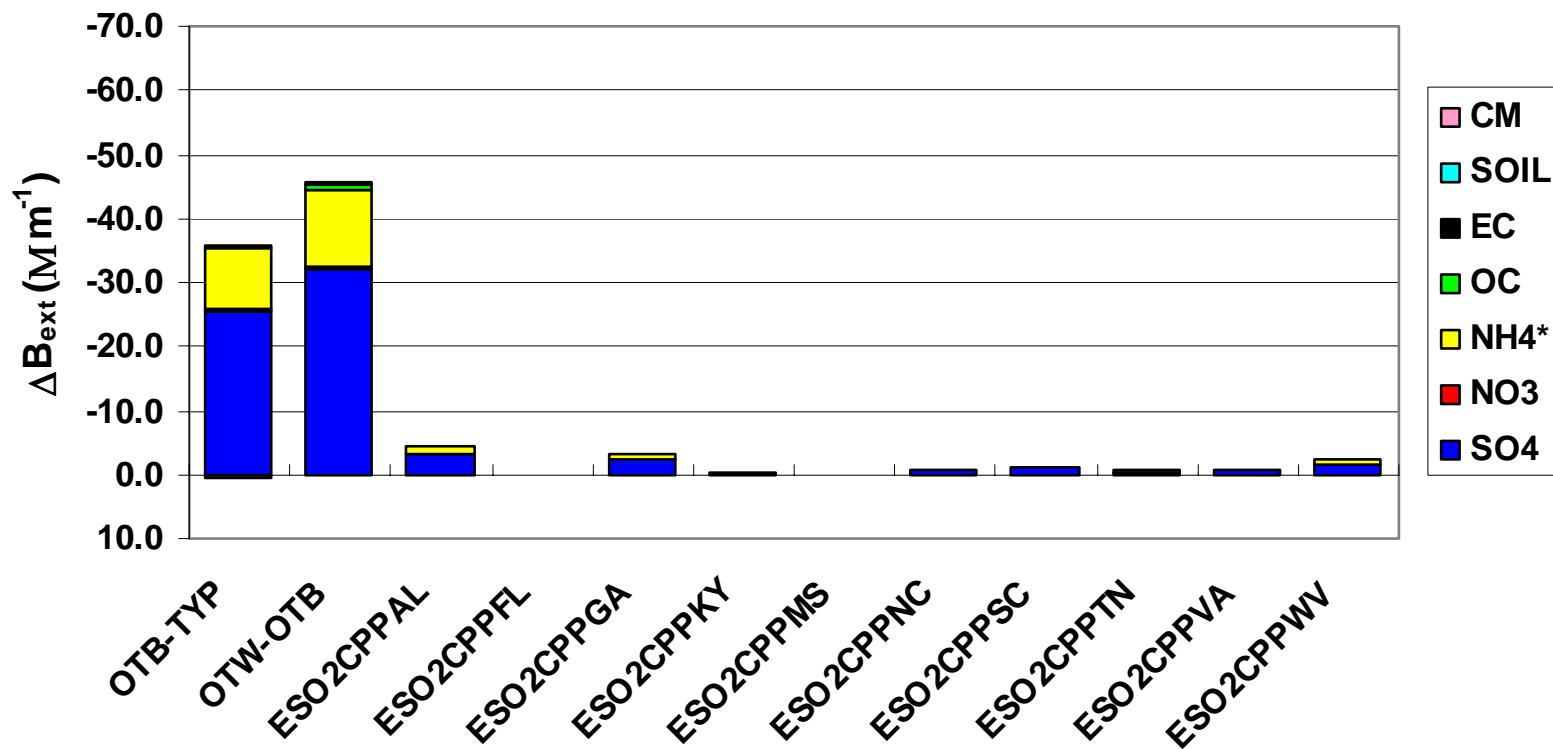
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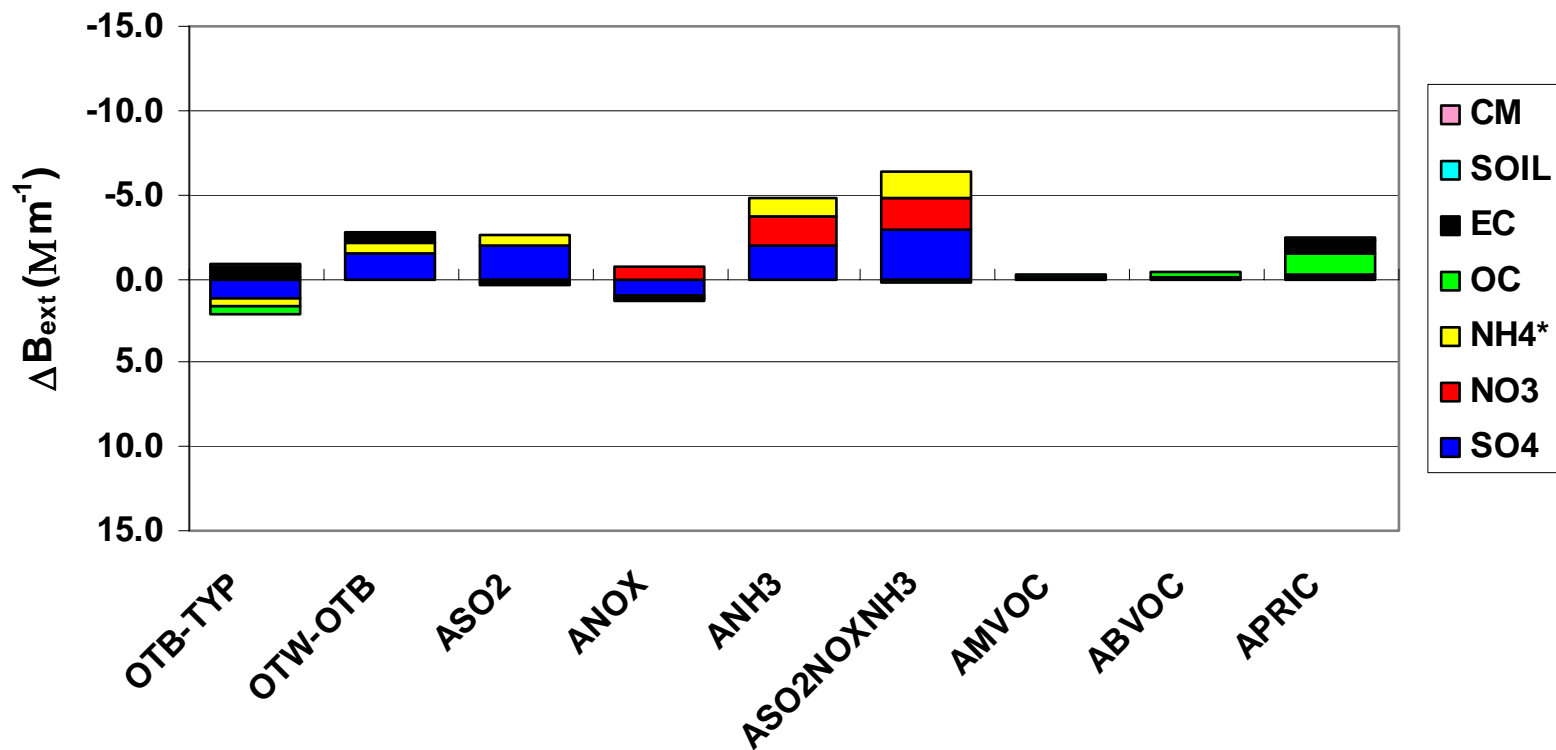


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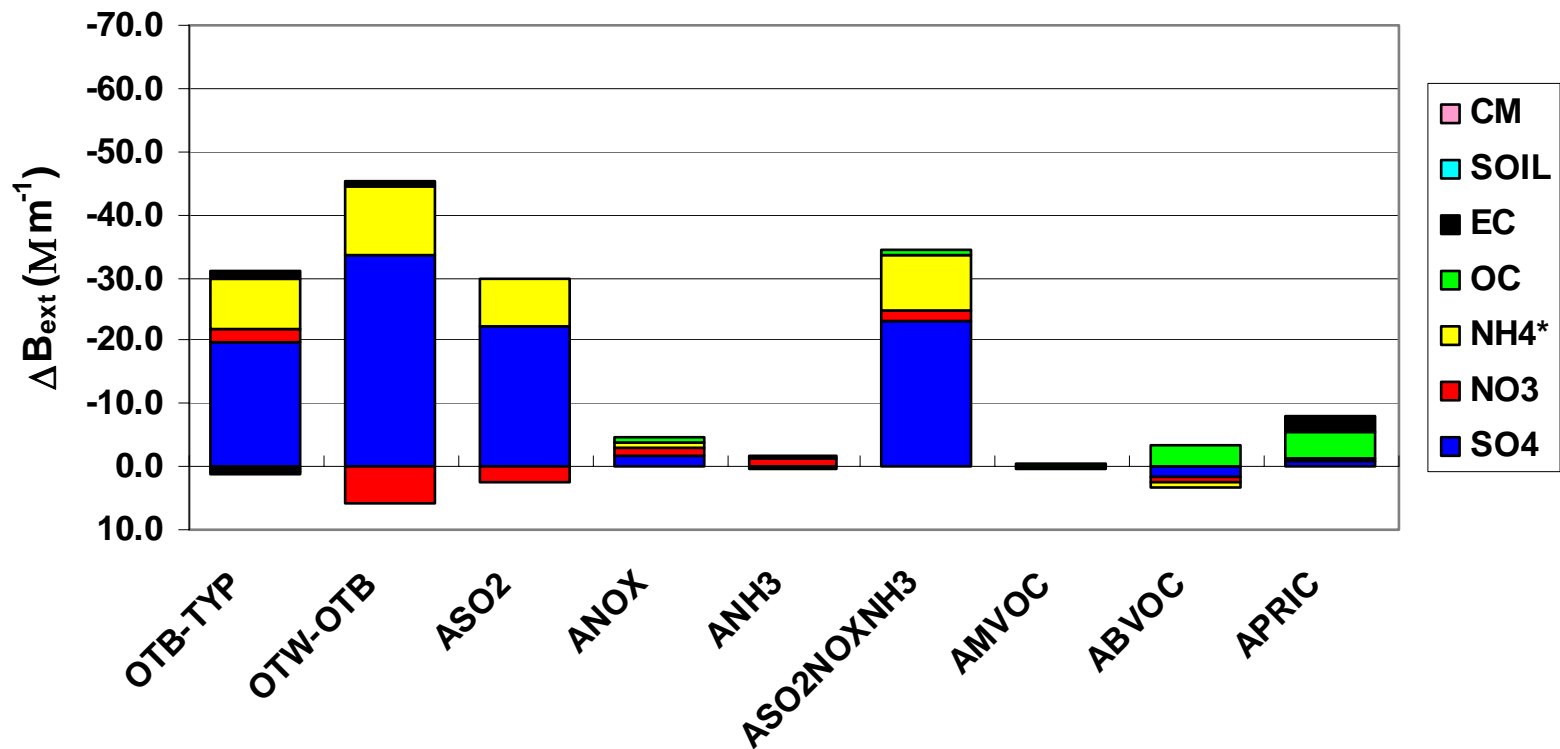


James River Face

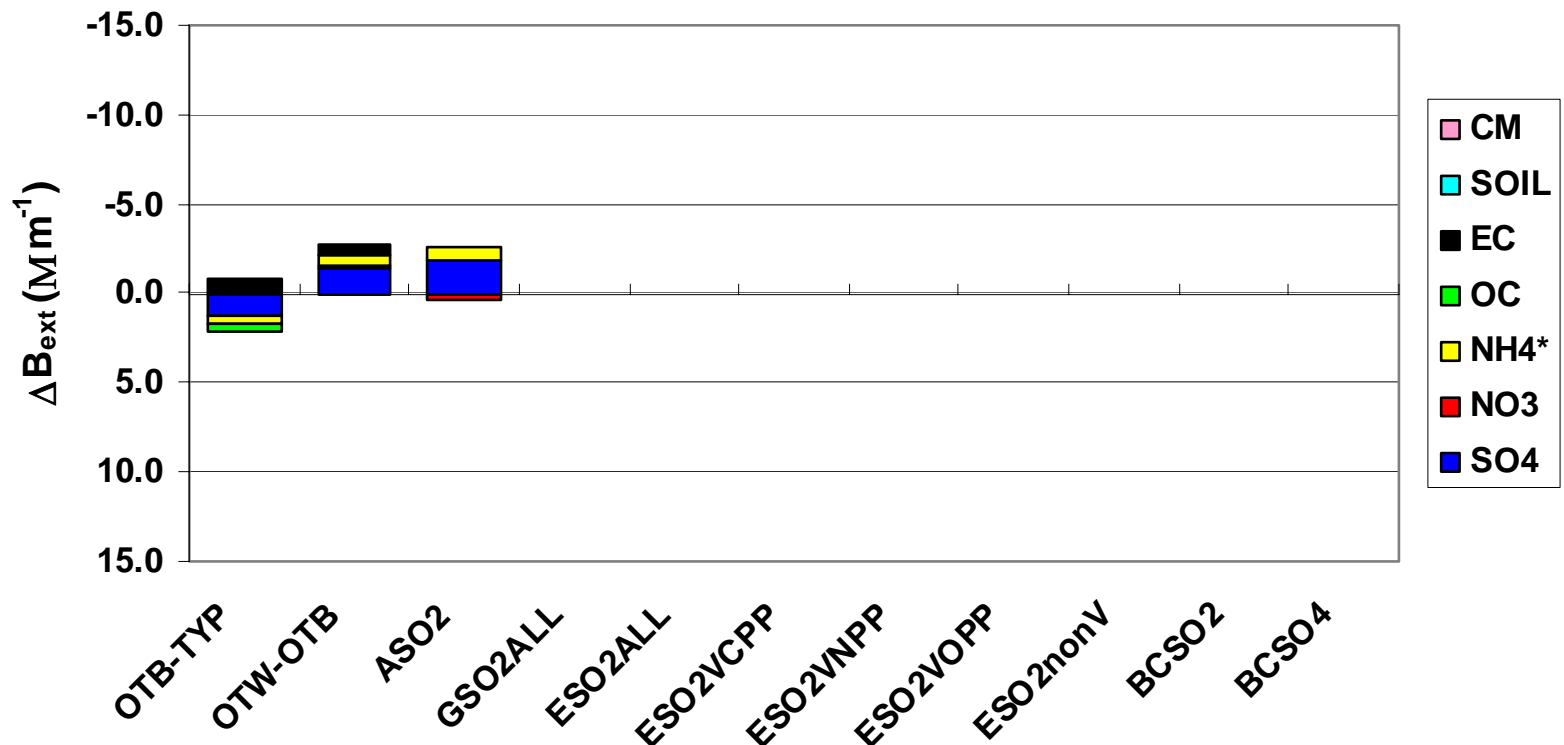
Weighted B_{ext} Response at James River Face to Reductions in OTB Emissions: Best 20%



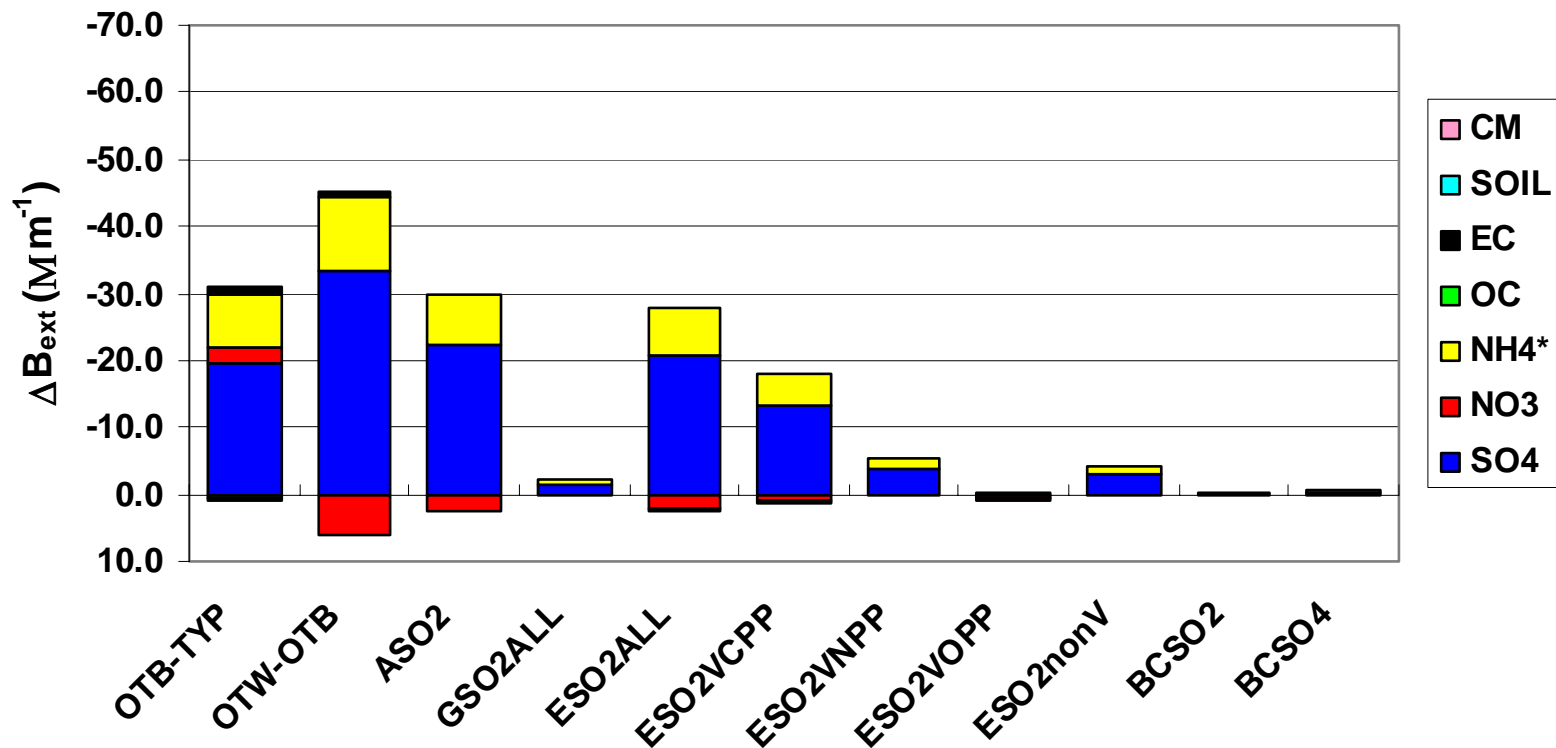
Weighted B_{ext} Response at James River Face to Reductions in OTB Emissions: Worst 20%



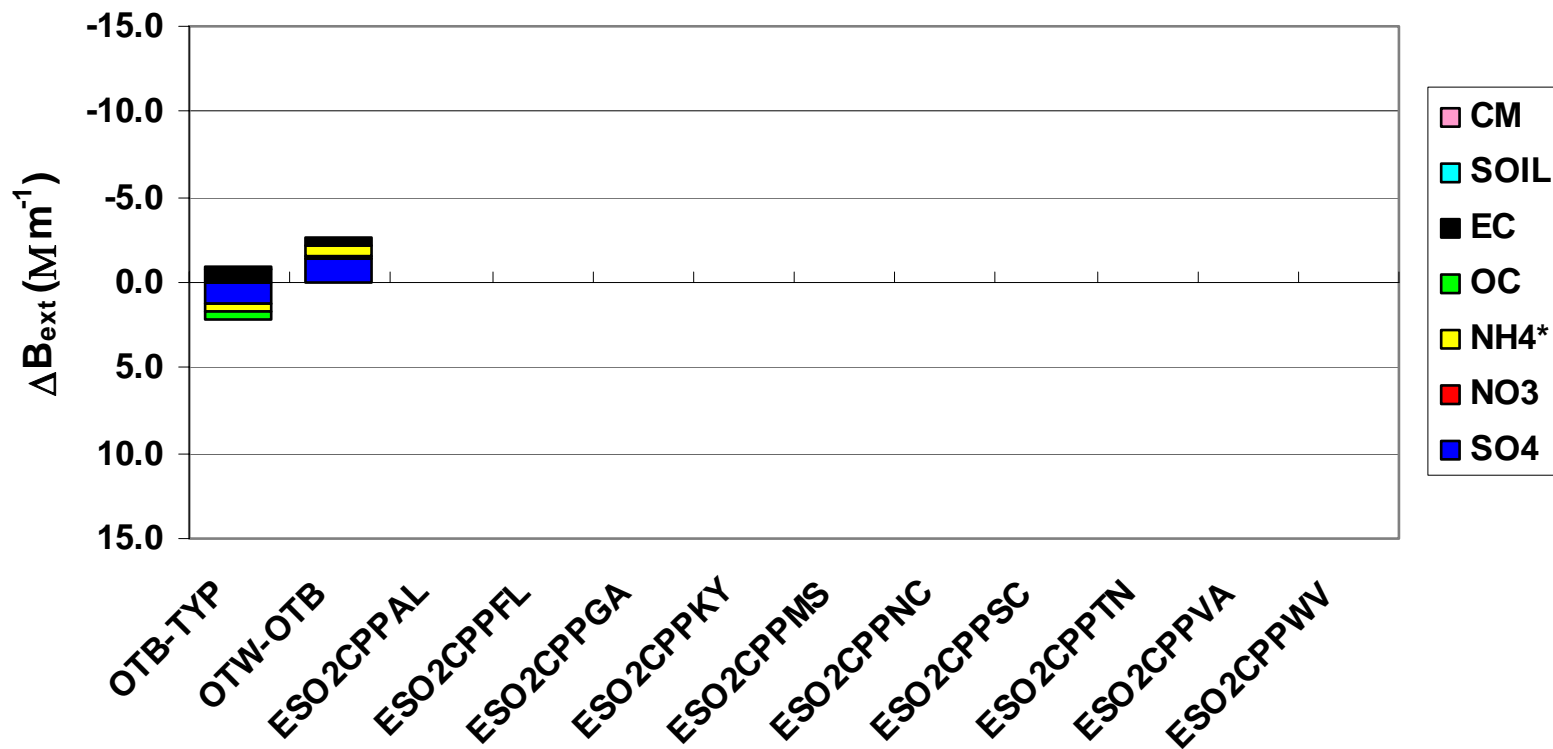
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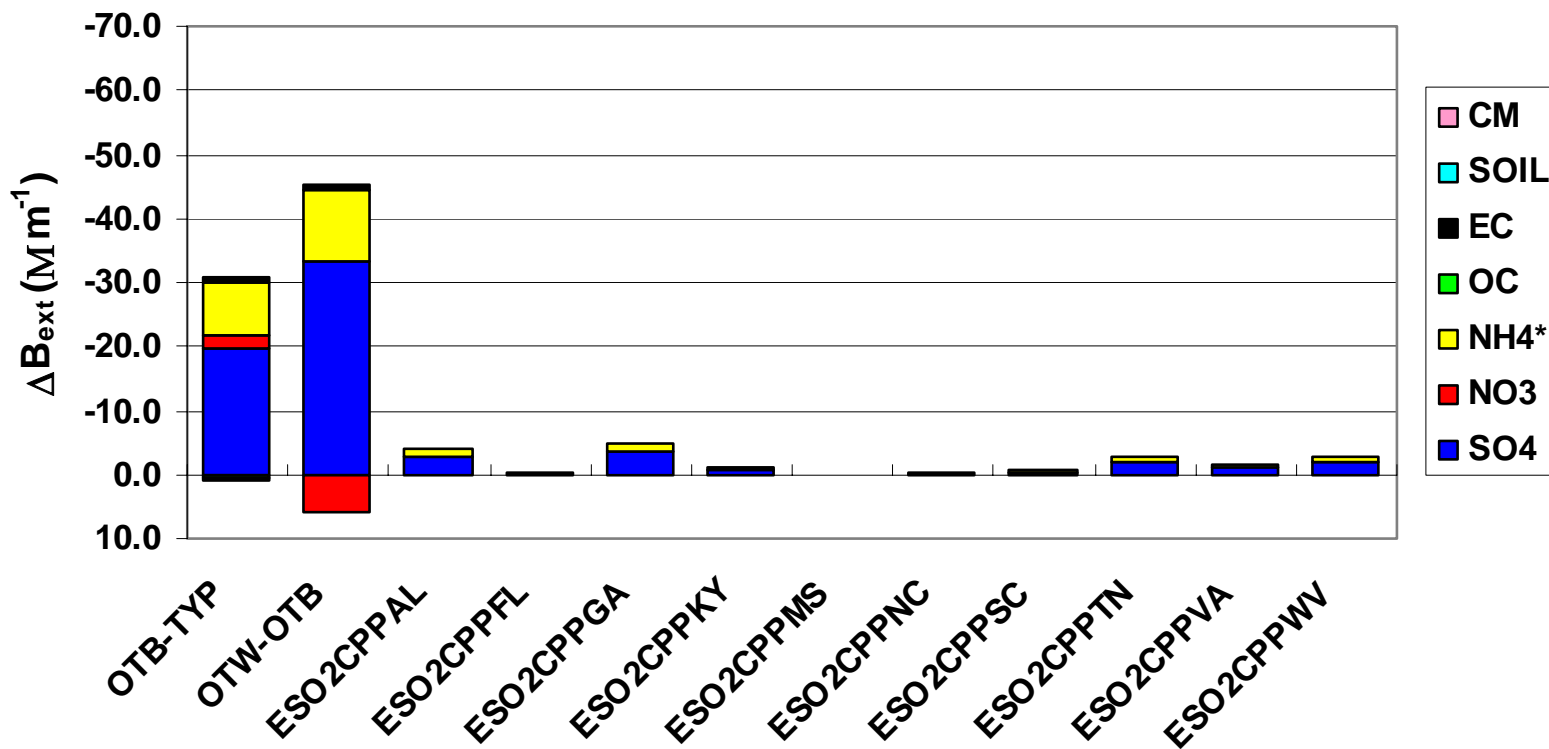
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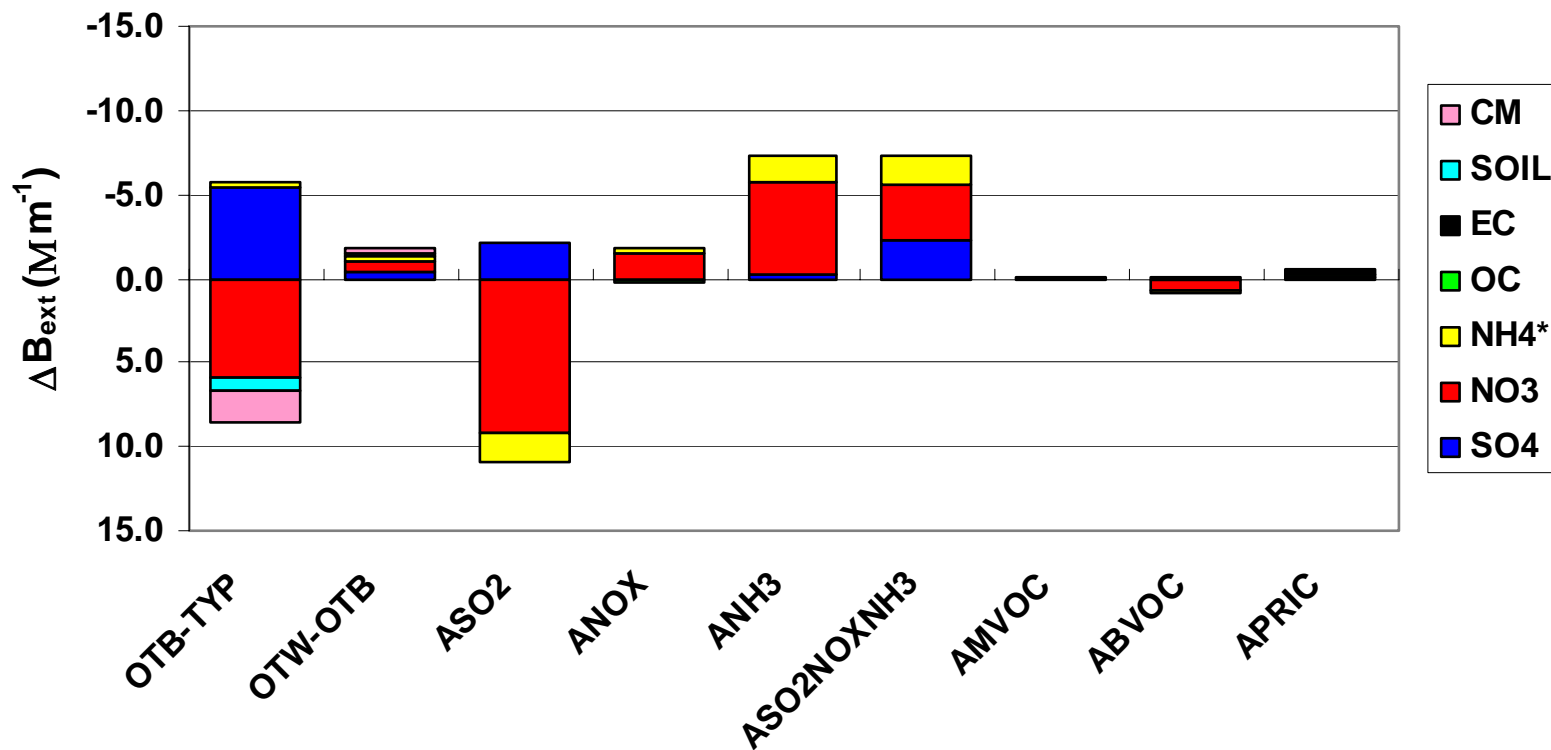


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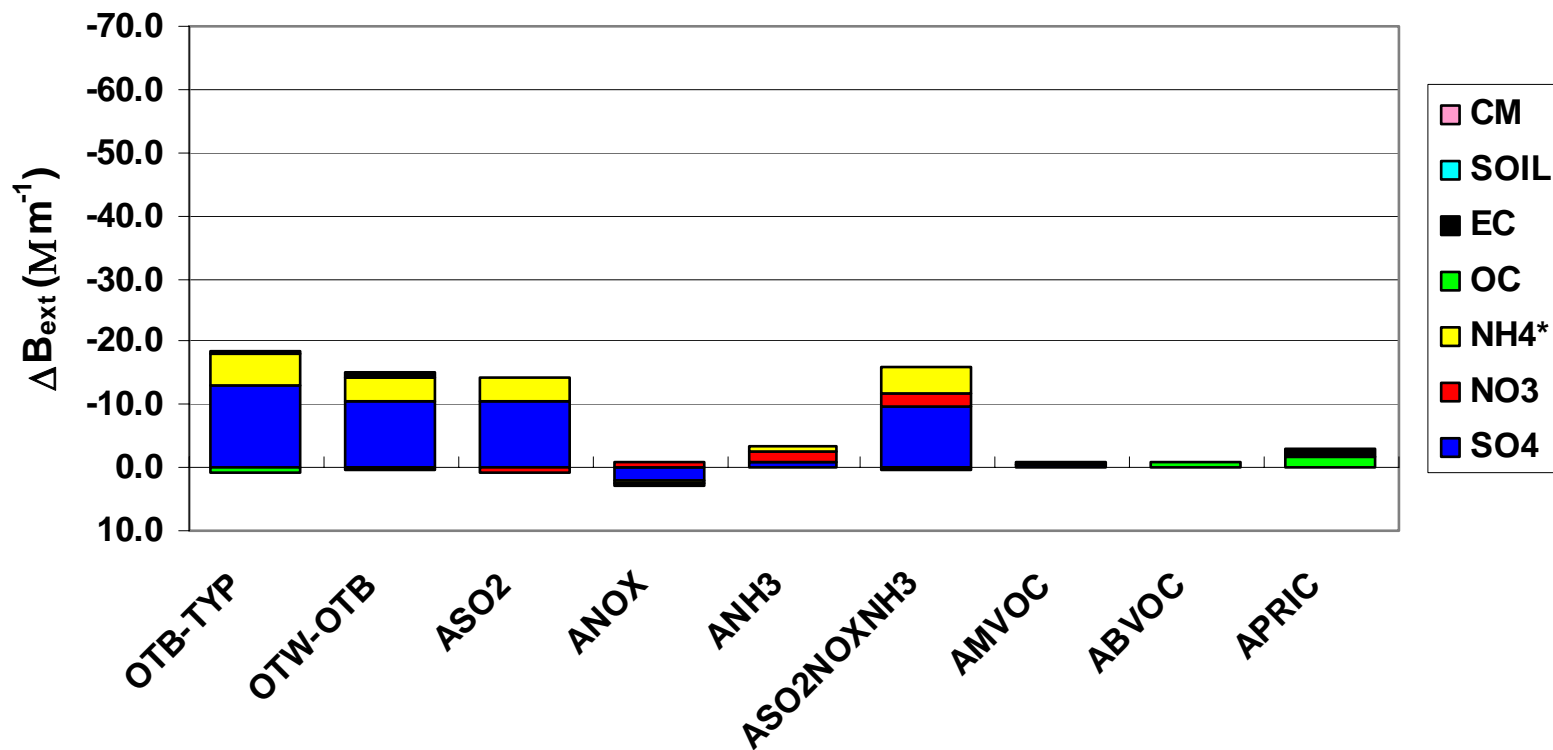


Cape Romain

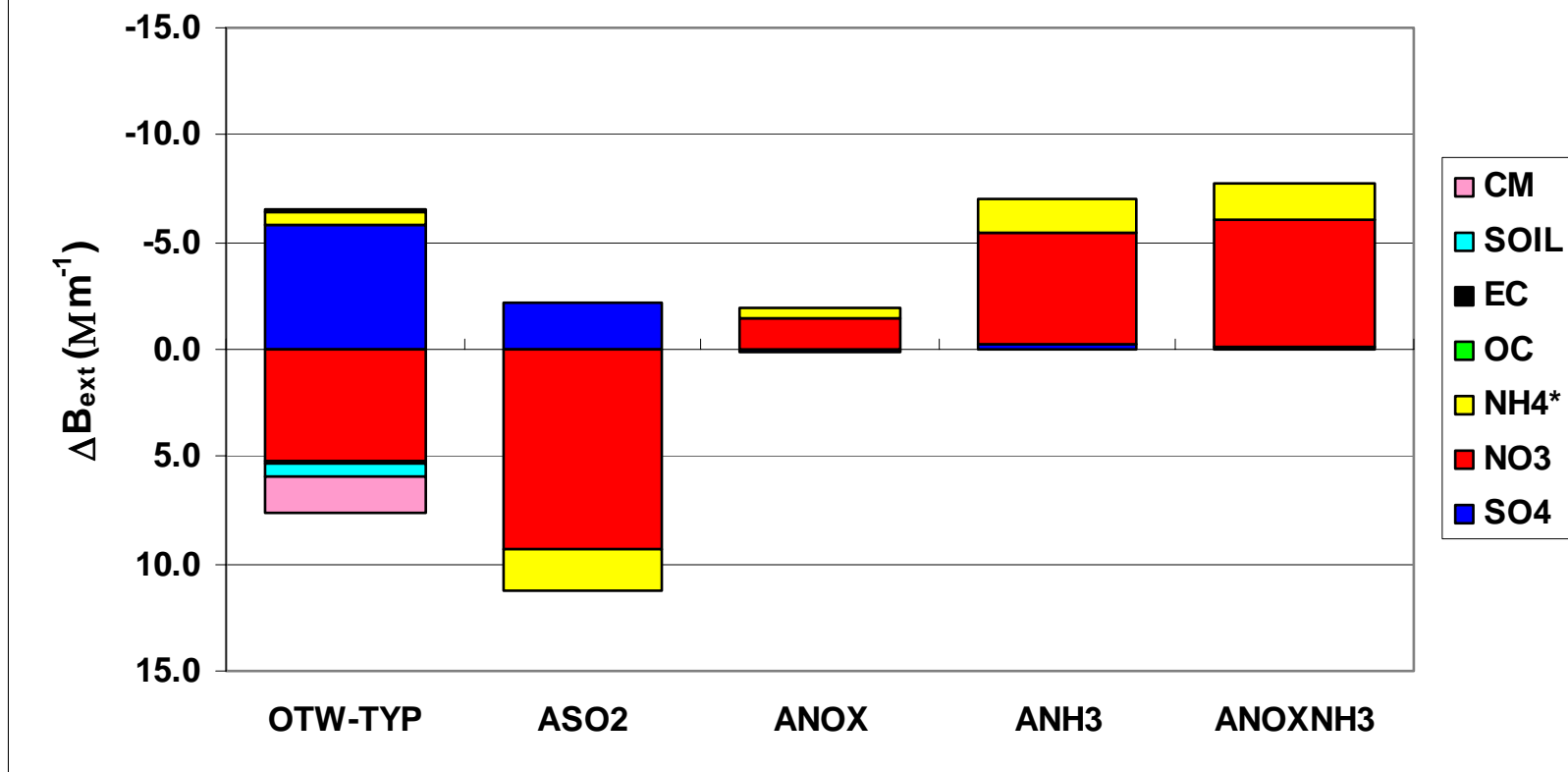
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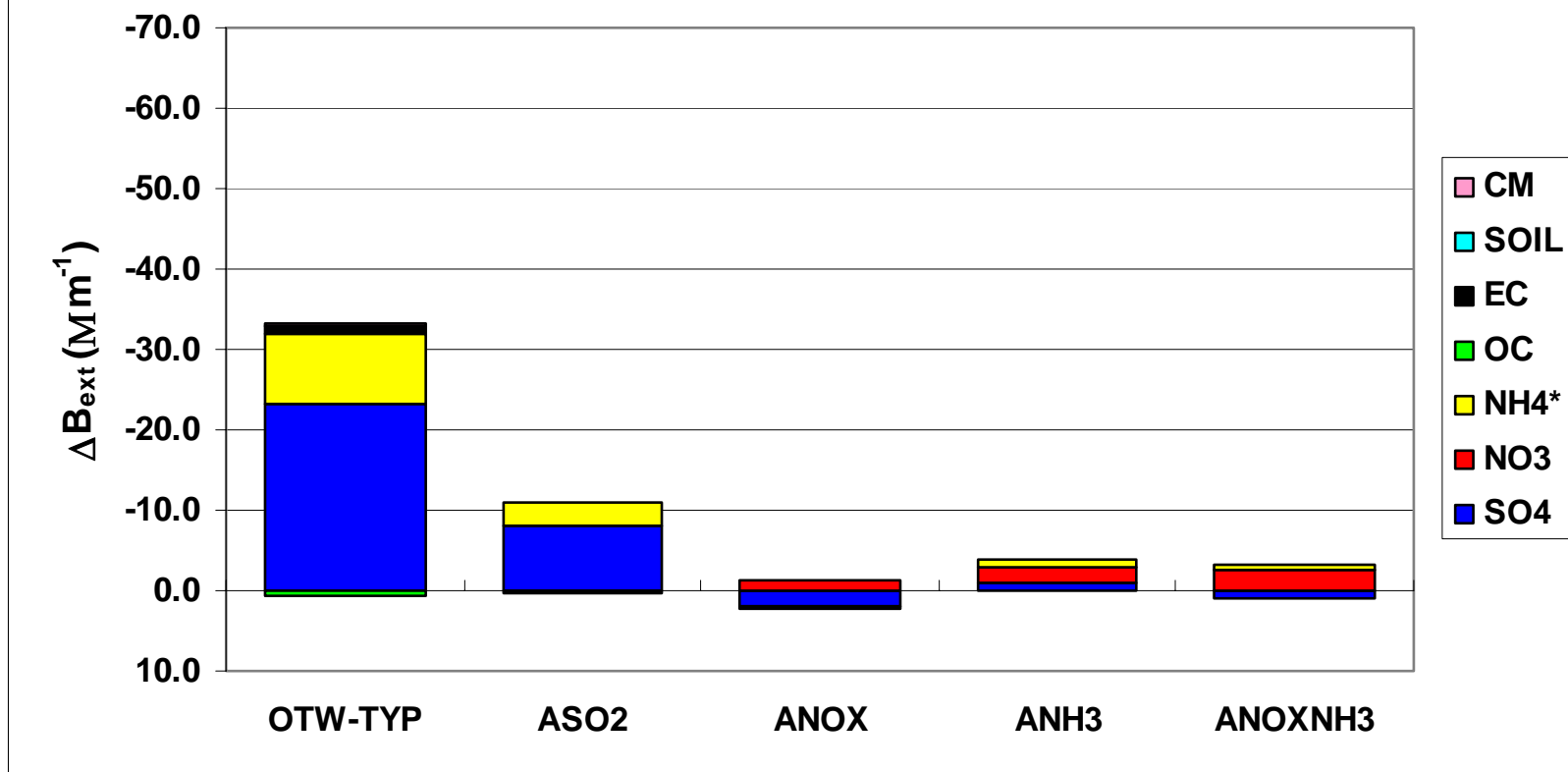
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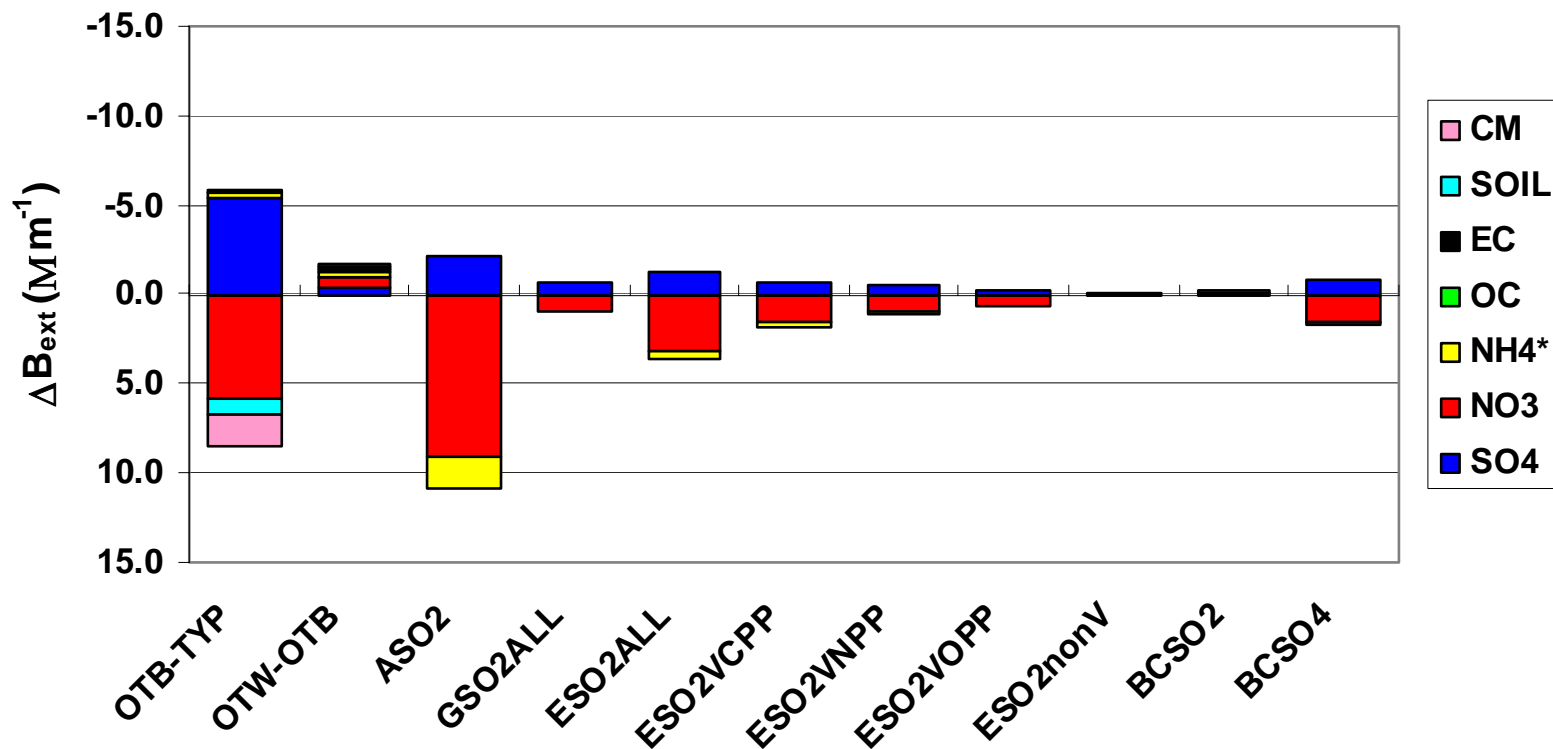
Weighted B_{ext} Response at Cape Romain to Reductions in OTW Emissions: Best 20%



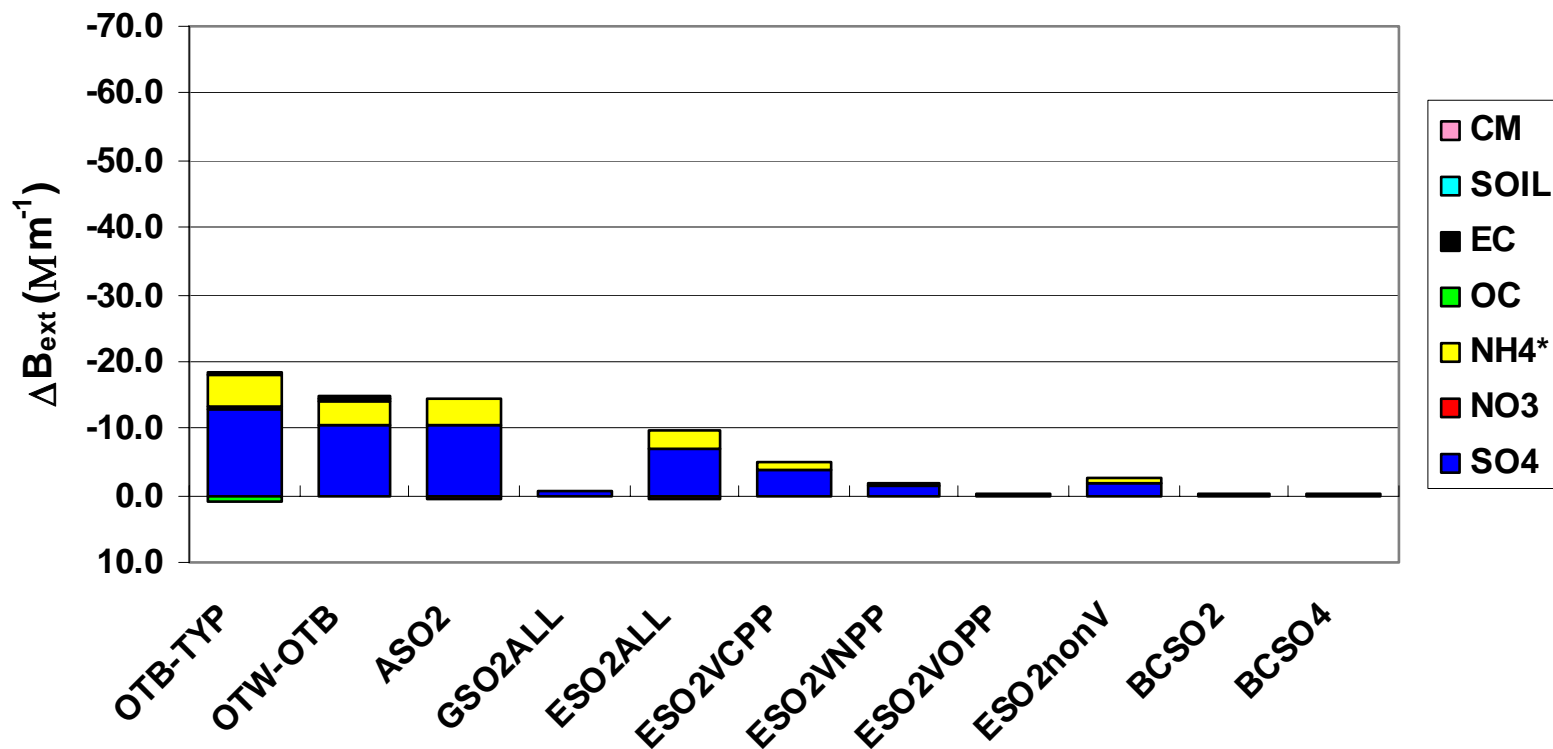
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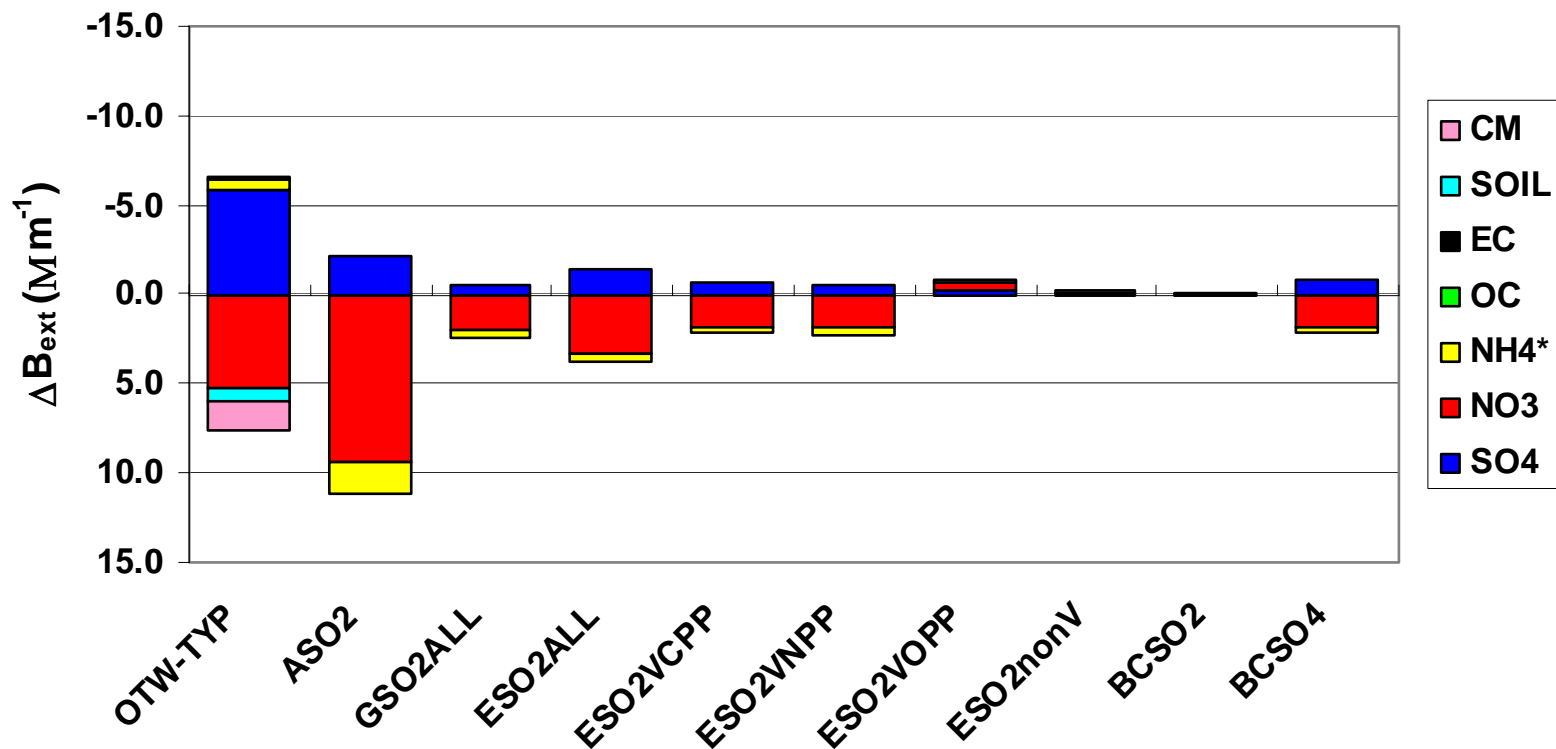
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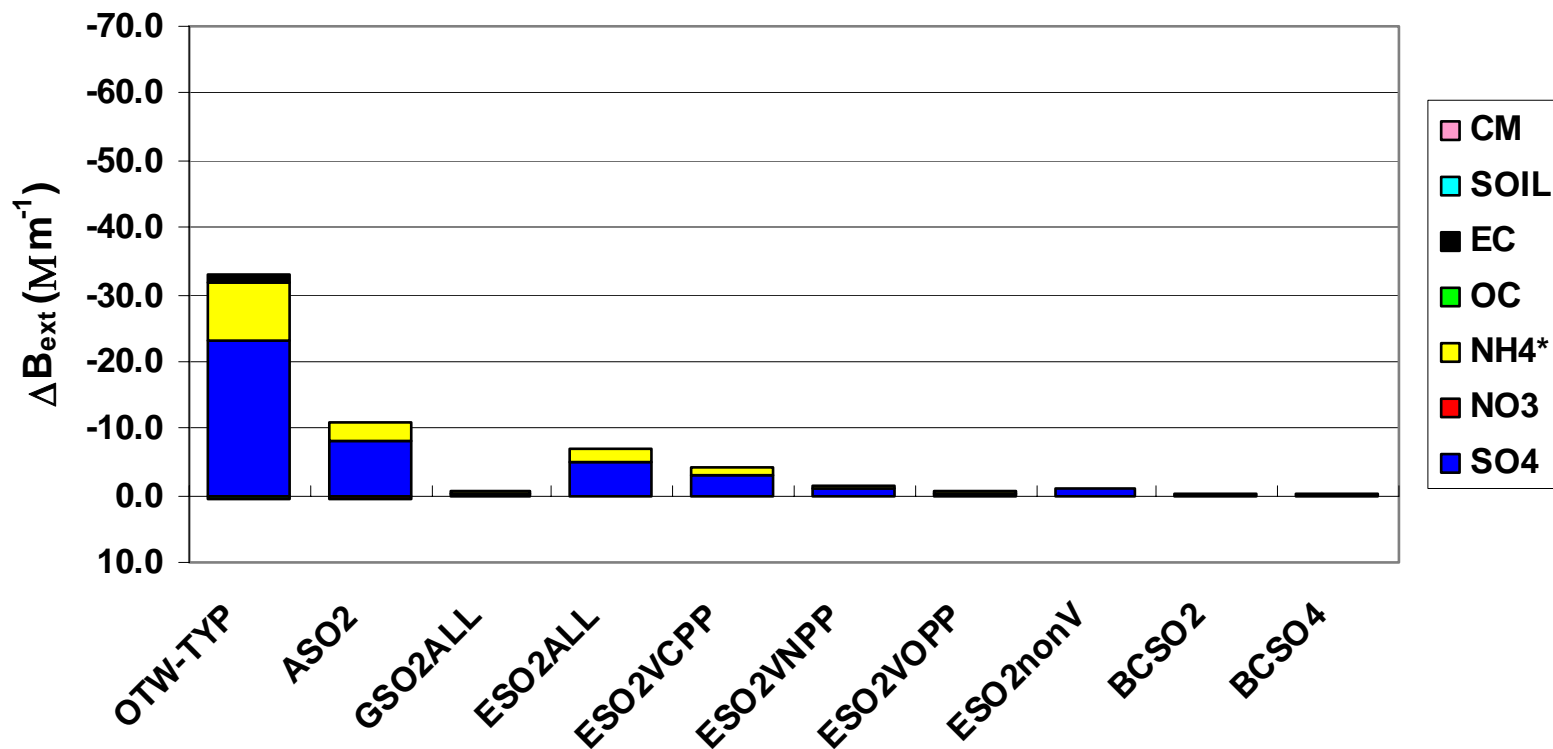
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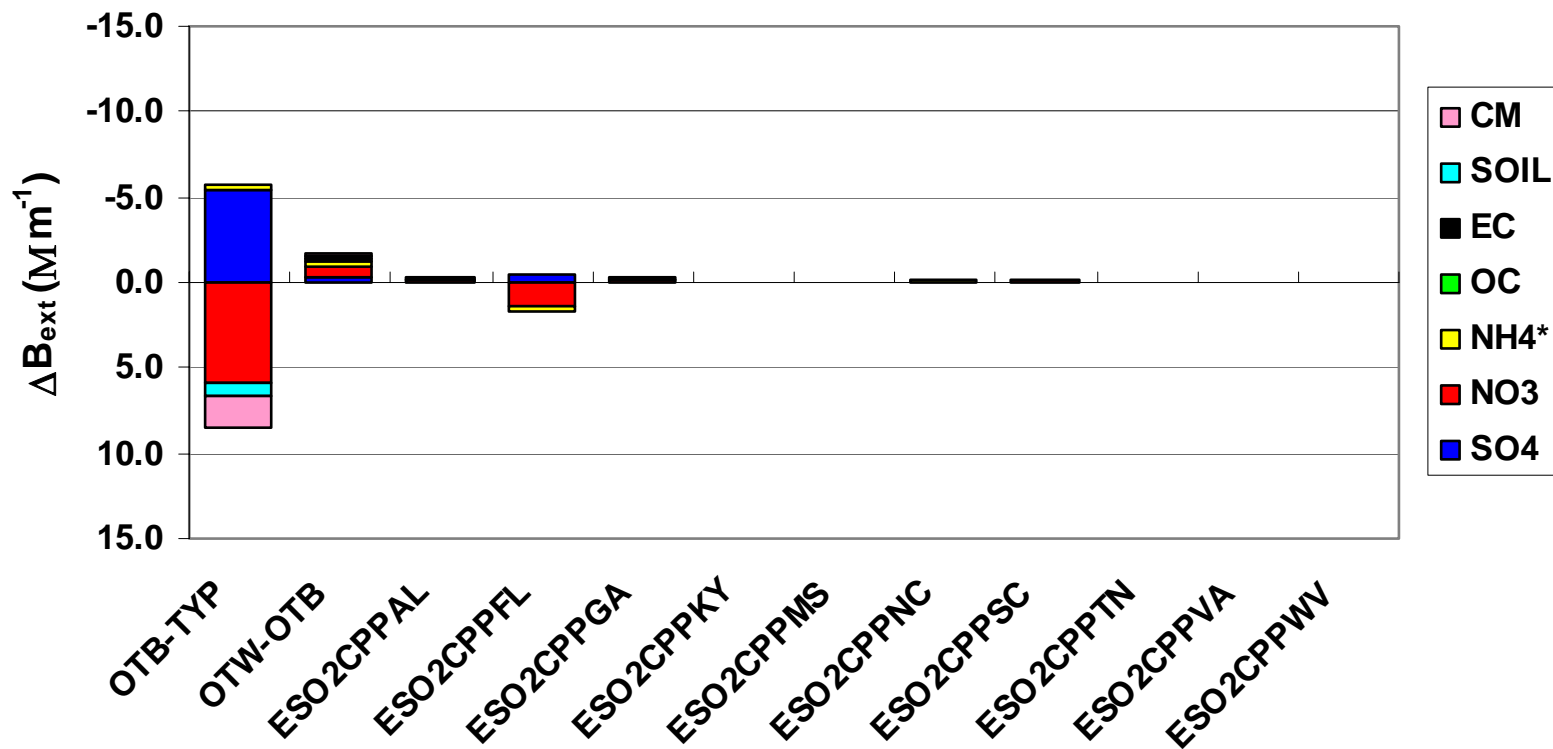
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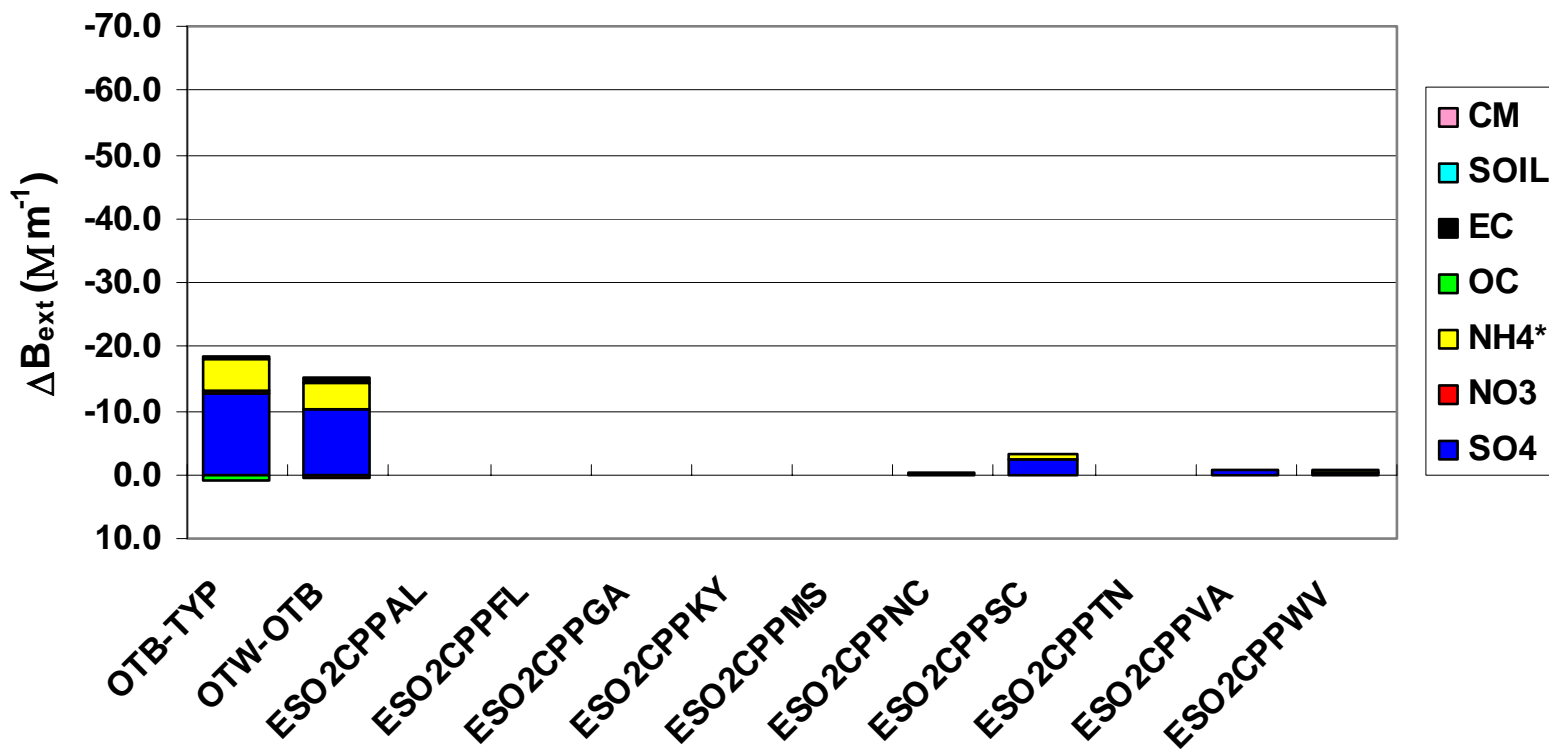
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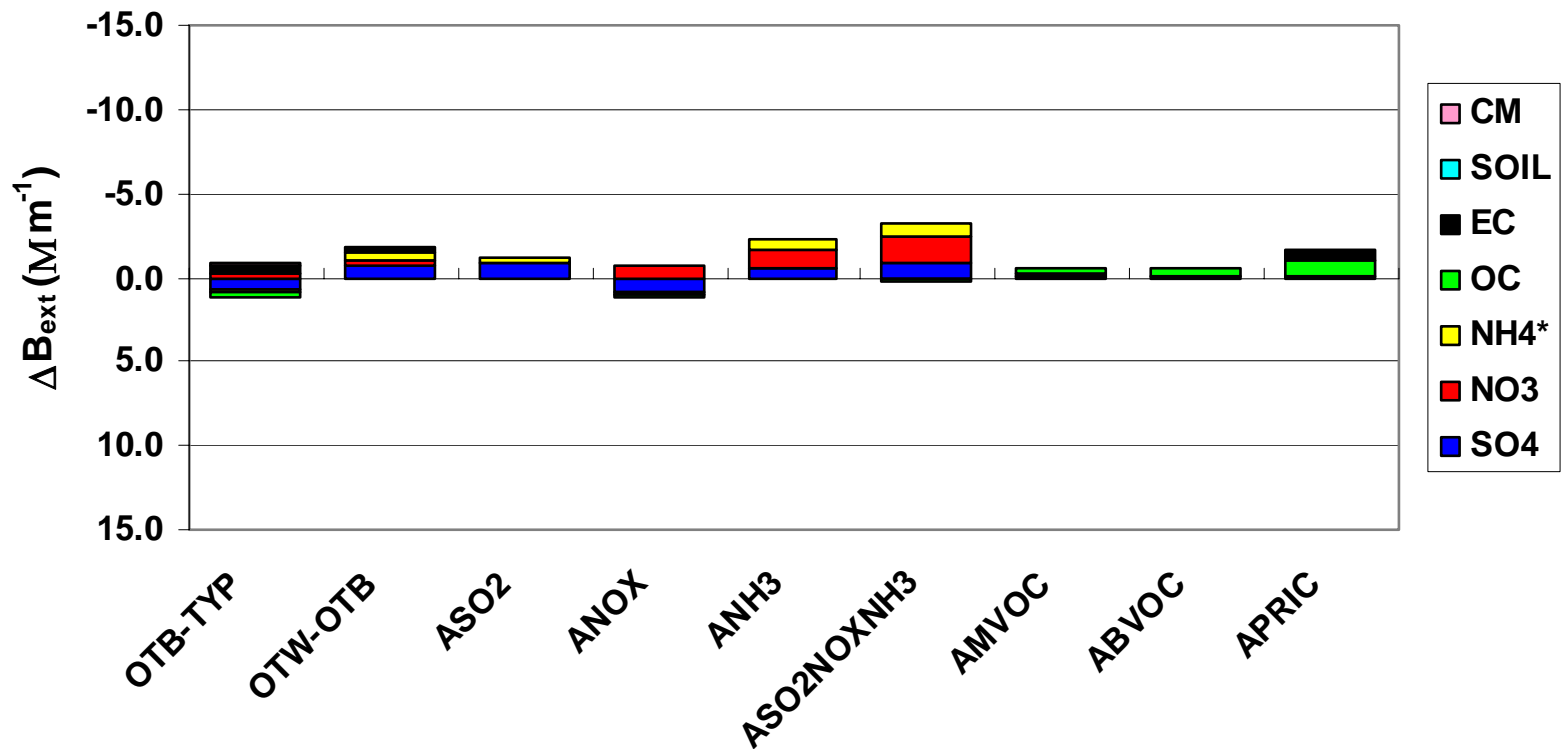


Weighted B_{ext} Response at Cape Romain to Reductions in OTB Emissions: Worst 20%

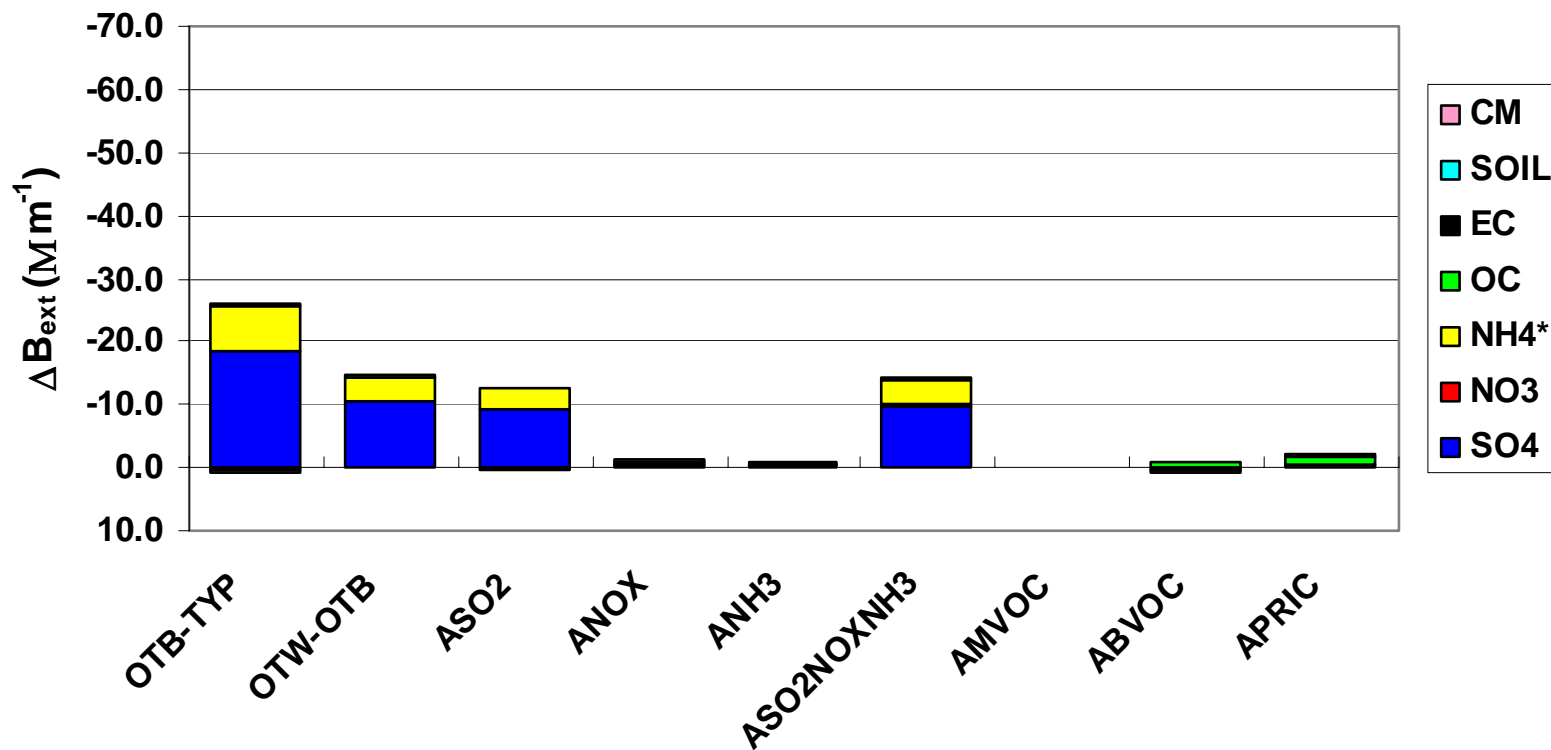


Dolly Sods

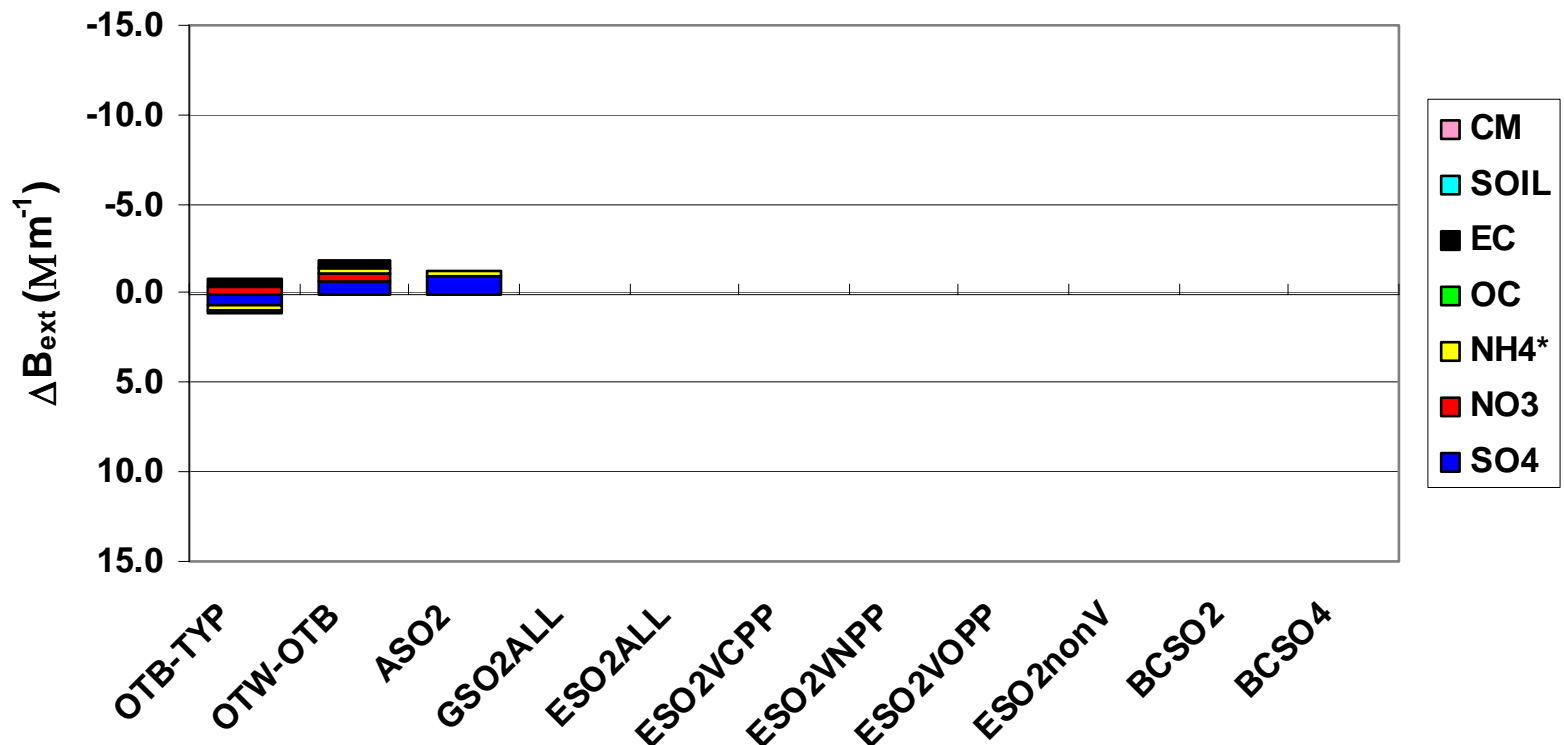
Weighted B_{ext} Response at Dolly Sods to Reductions in OTB Emissions: Best 20%



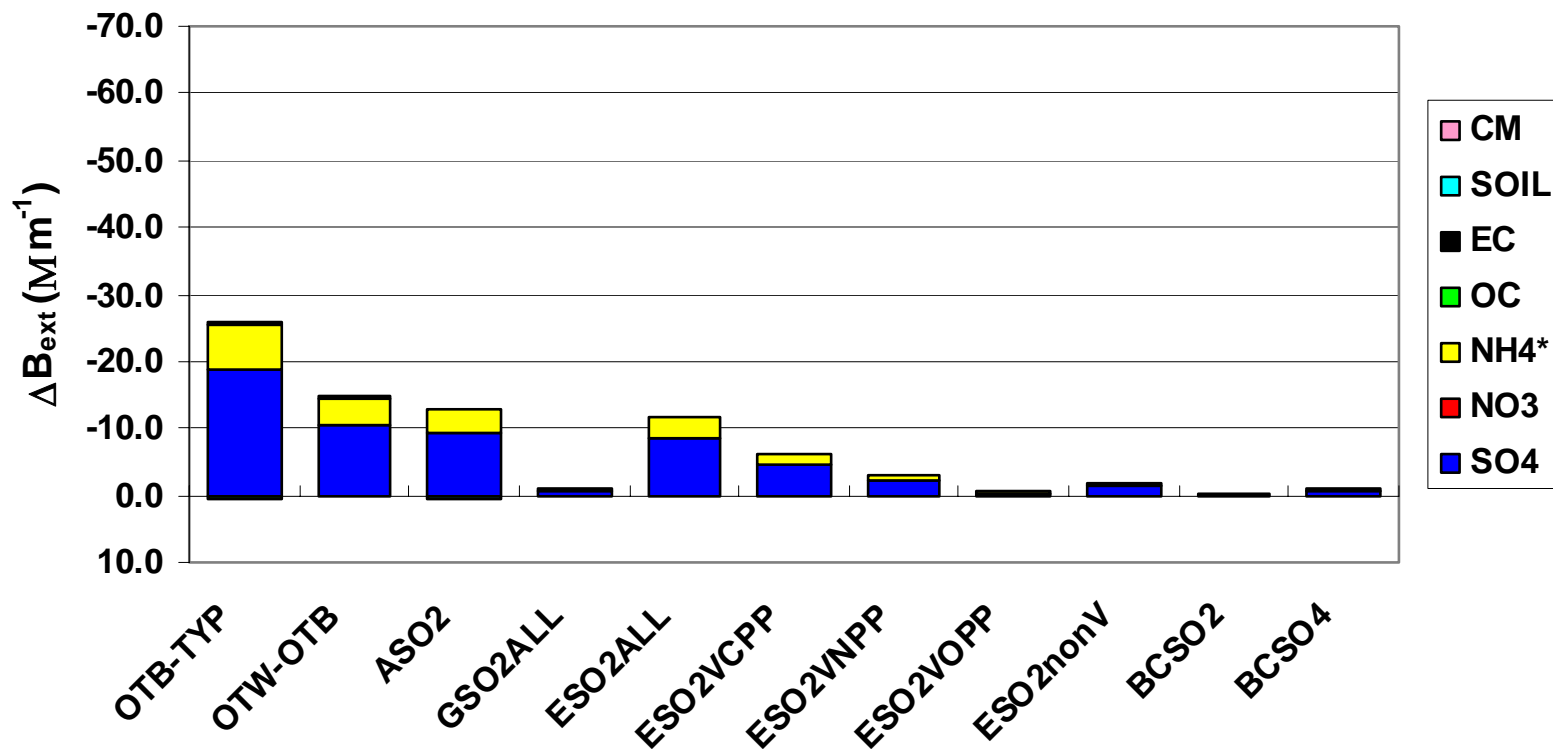
Weighted B_{ext} Response at Dolly Sods to Reductions in OTB Emissions: Worst 20%



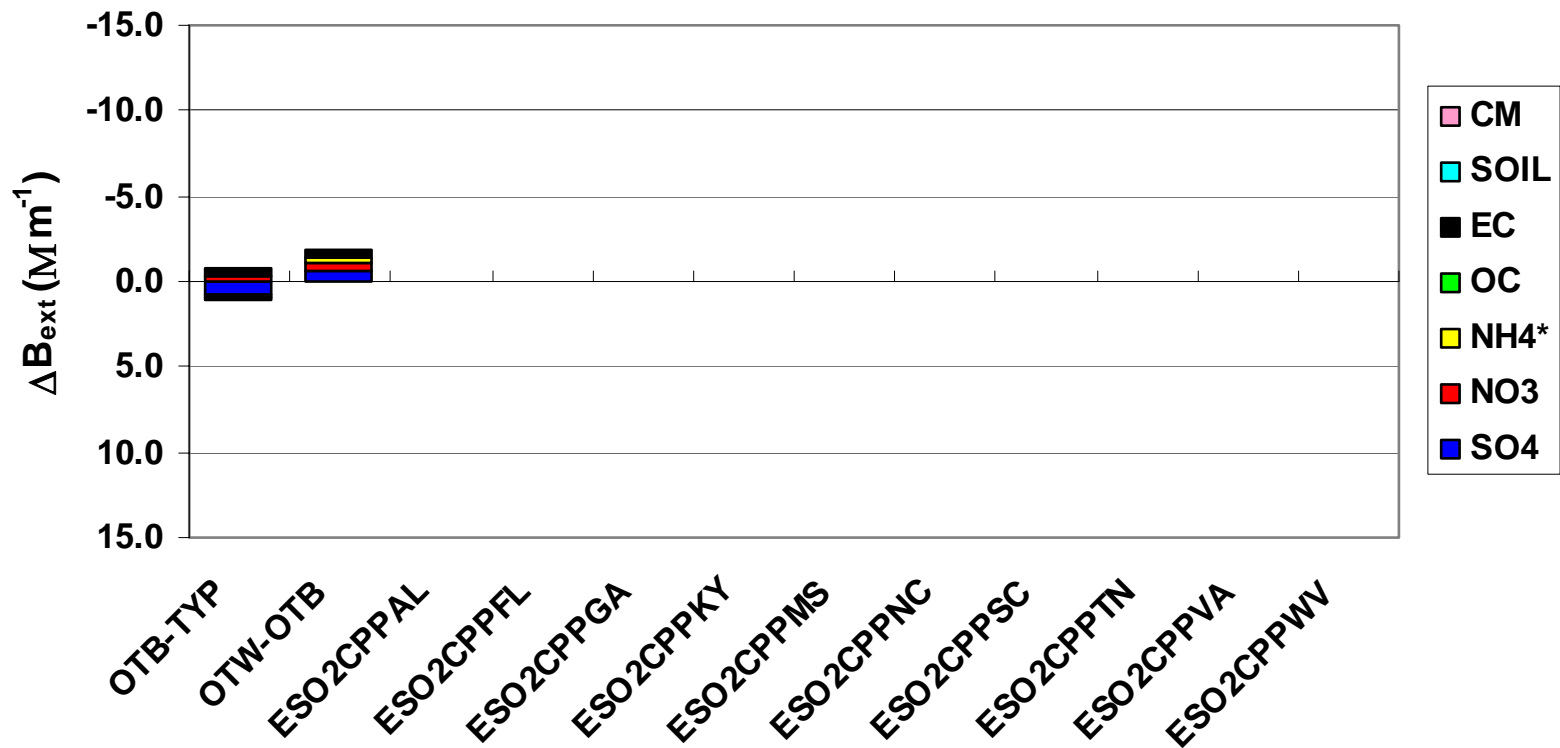
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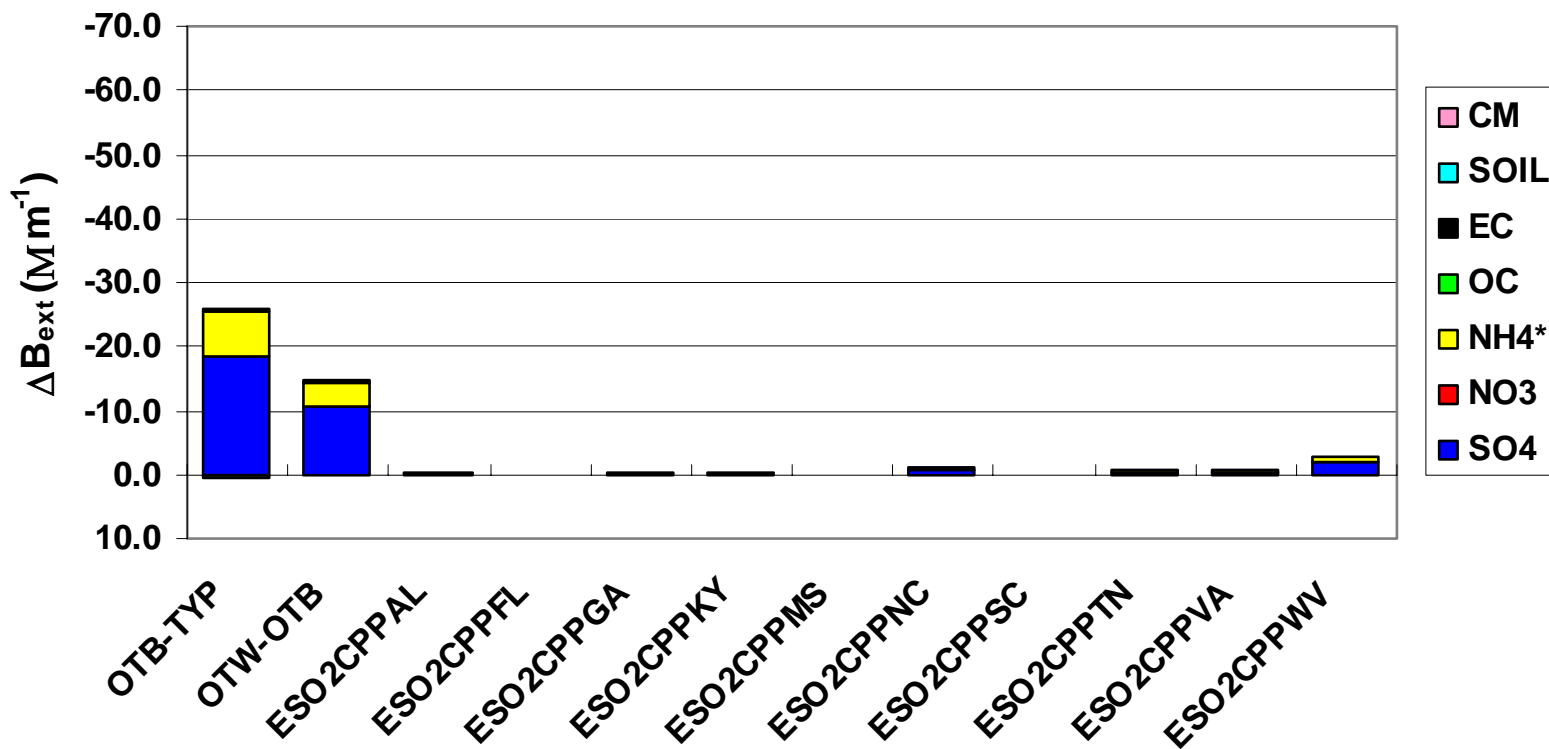
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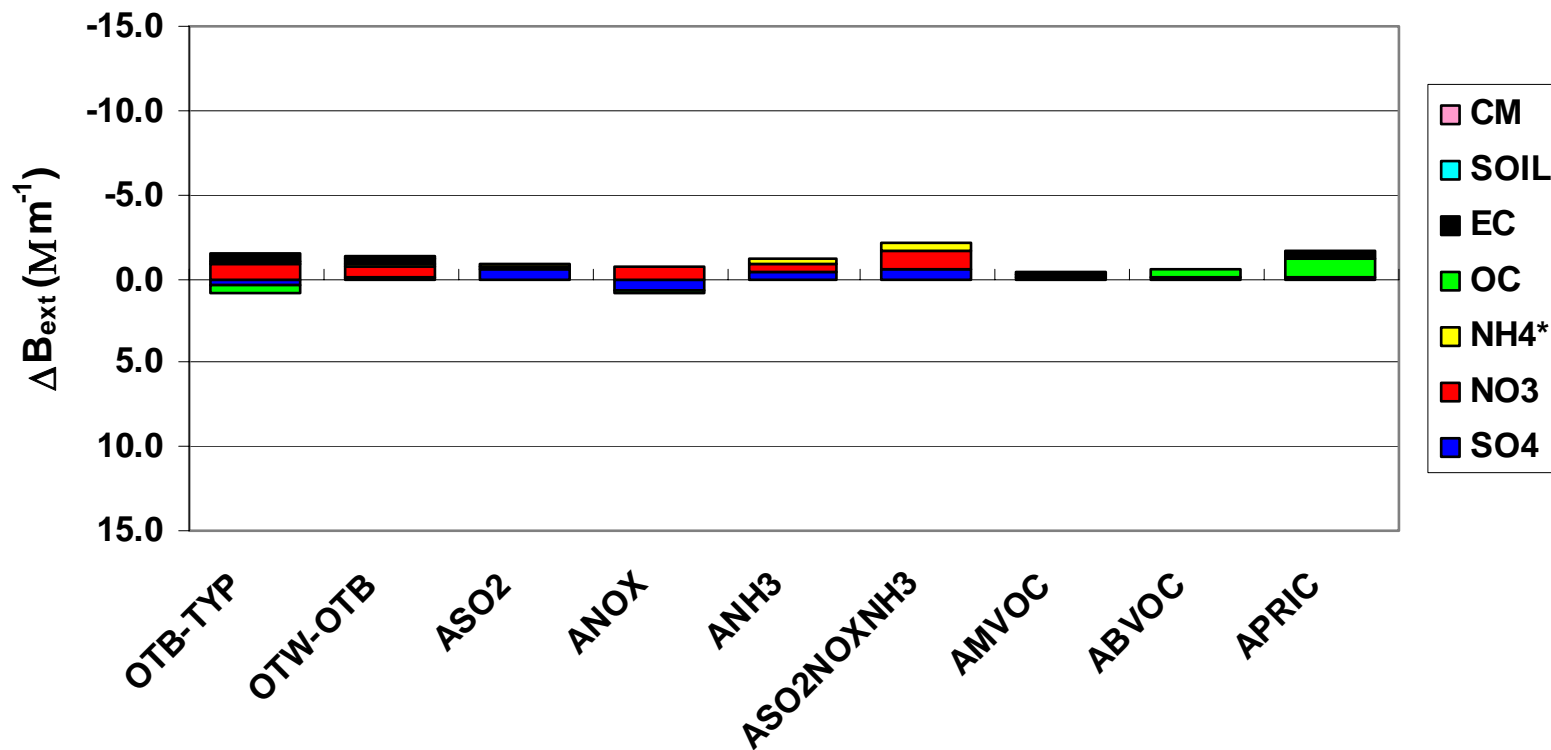


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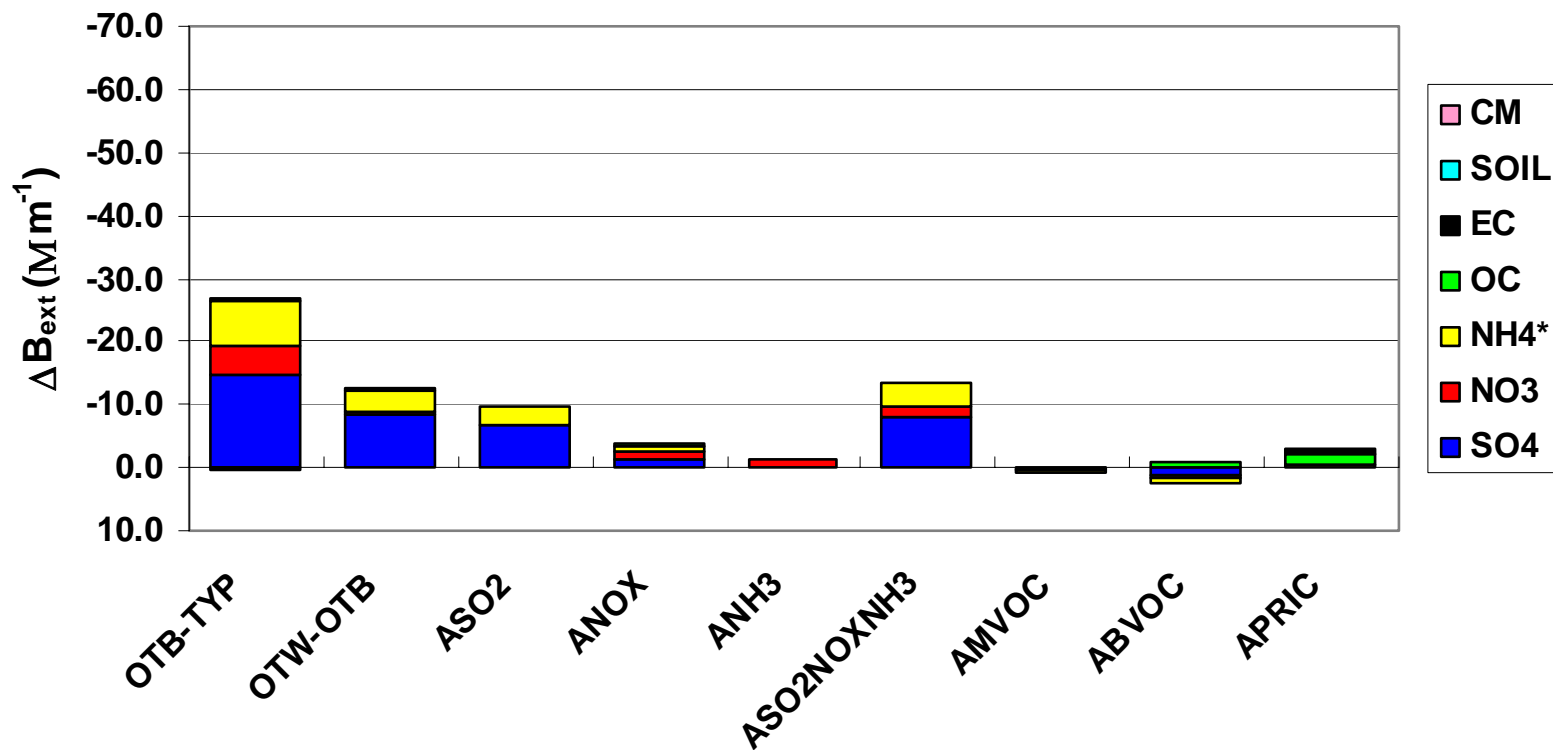


Shenandoah

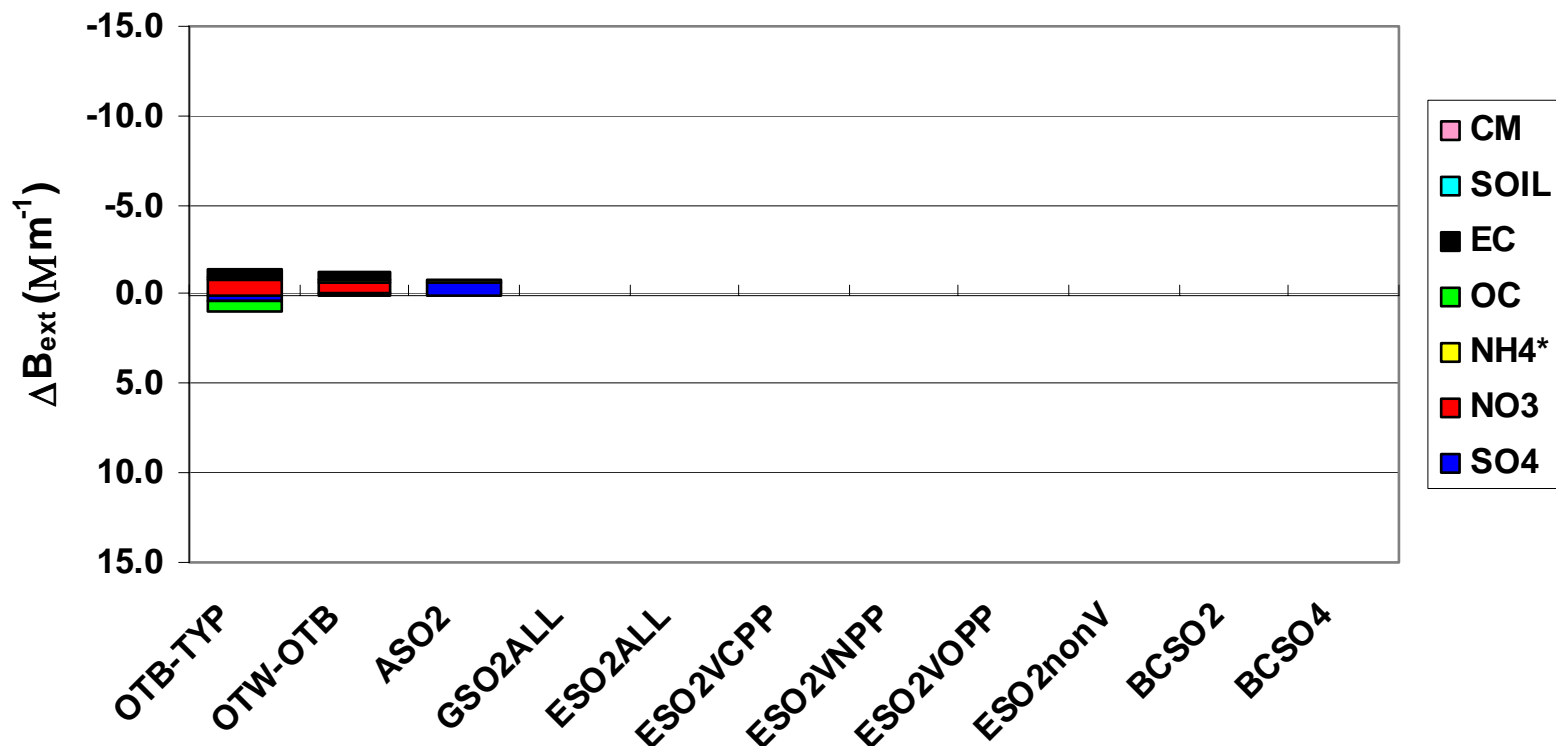
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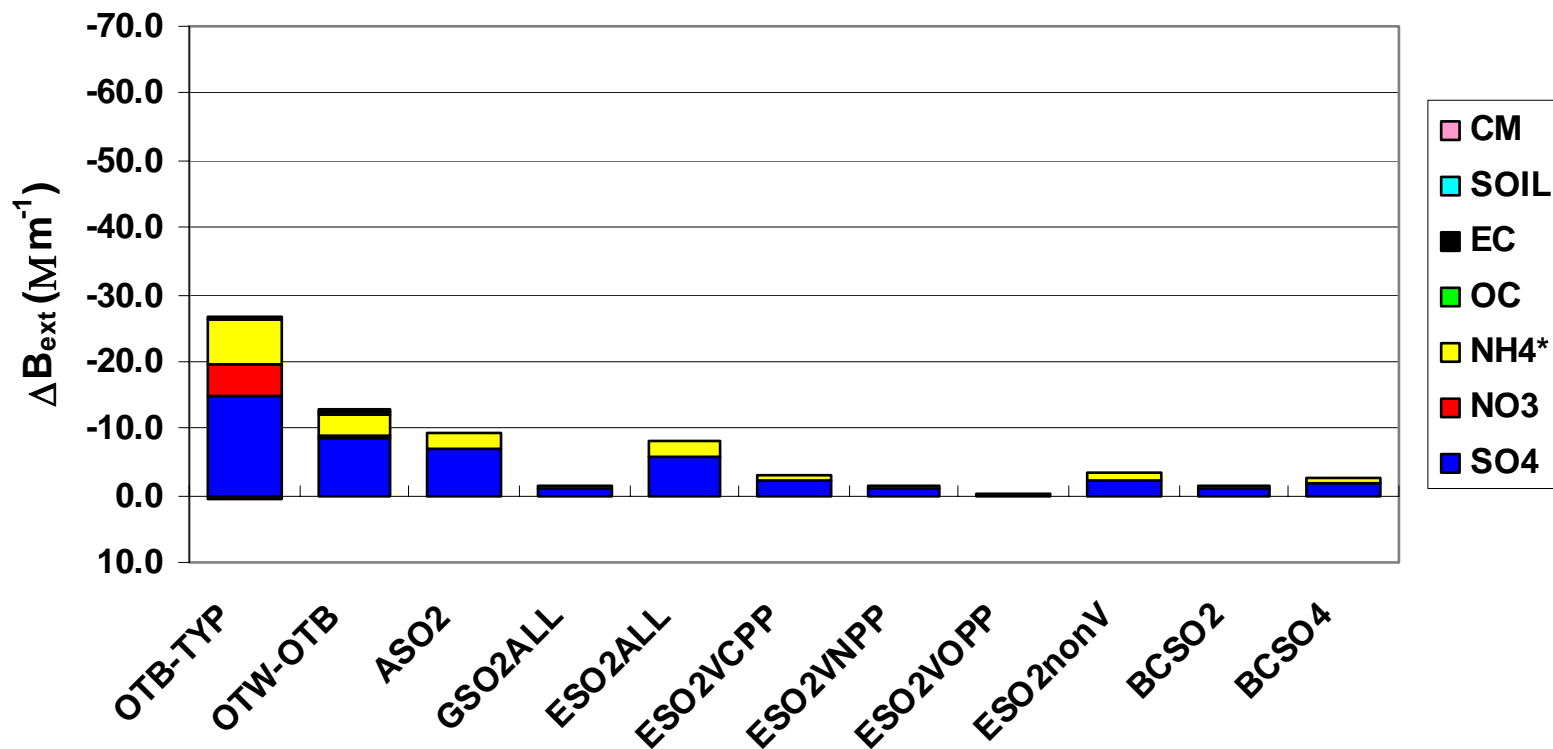
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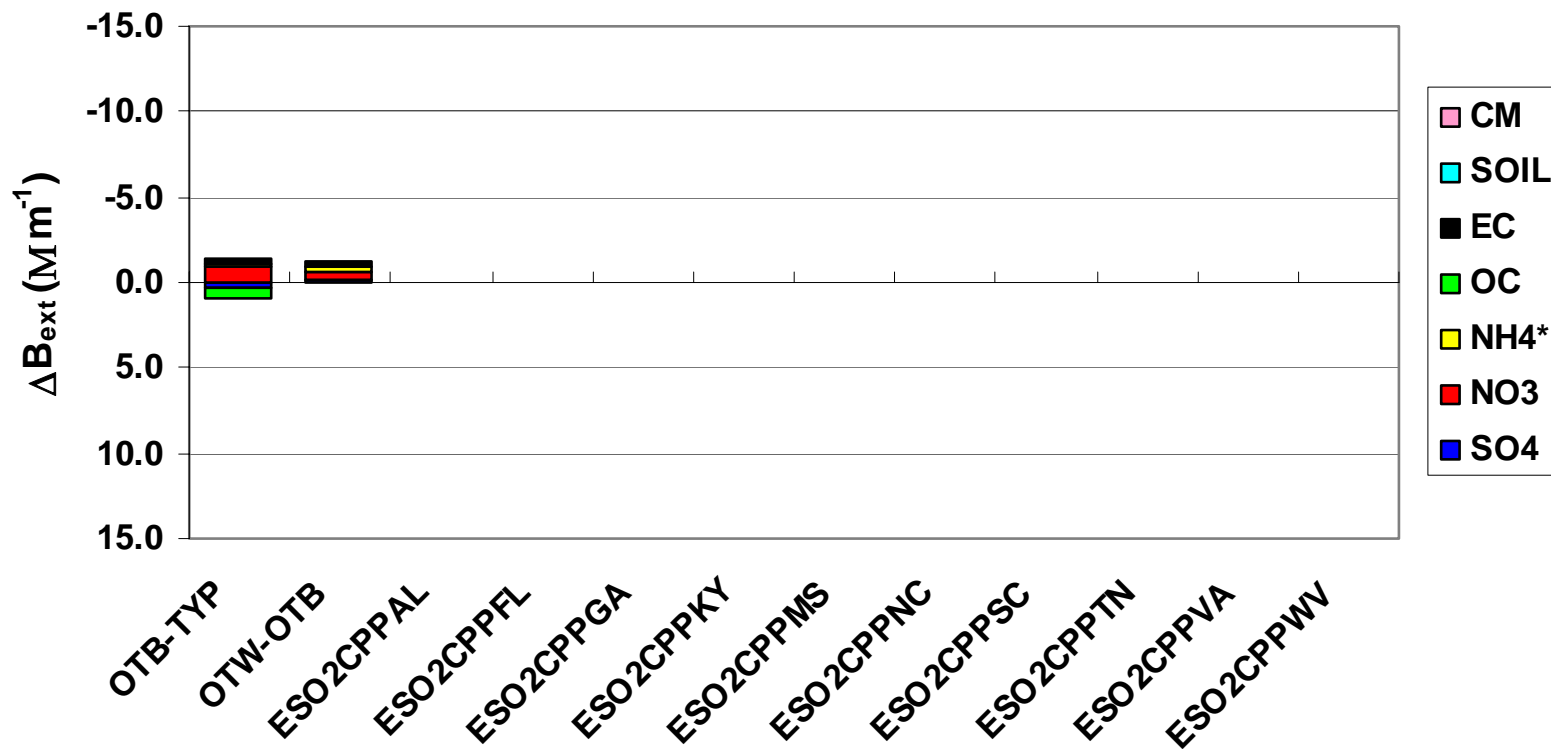
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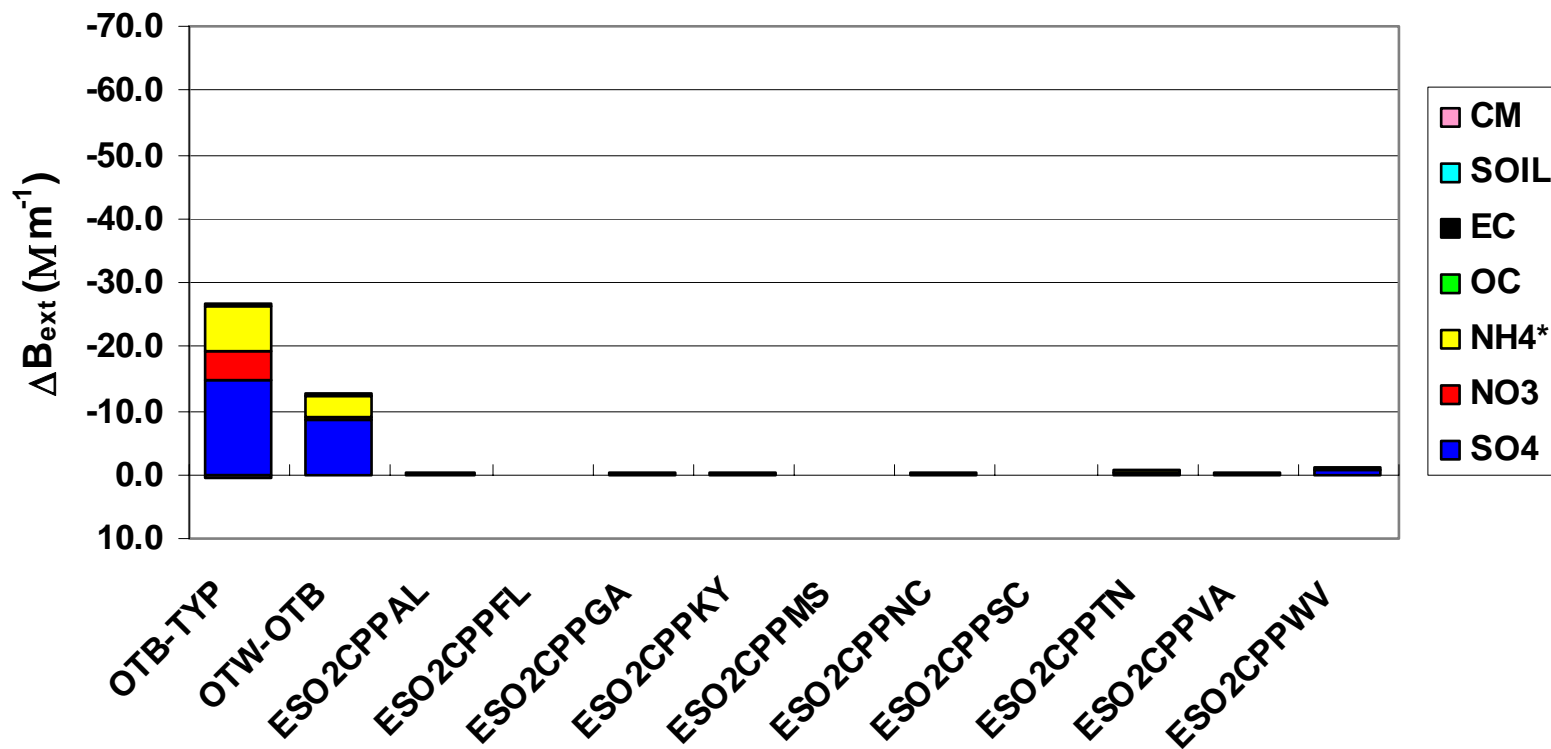
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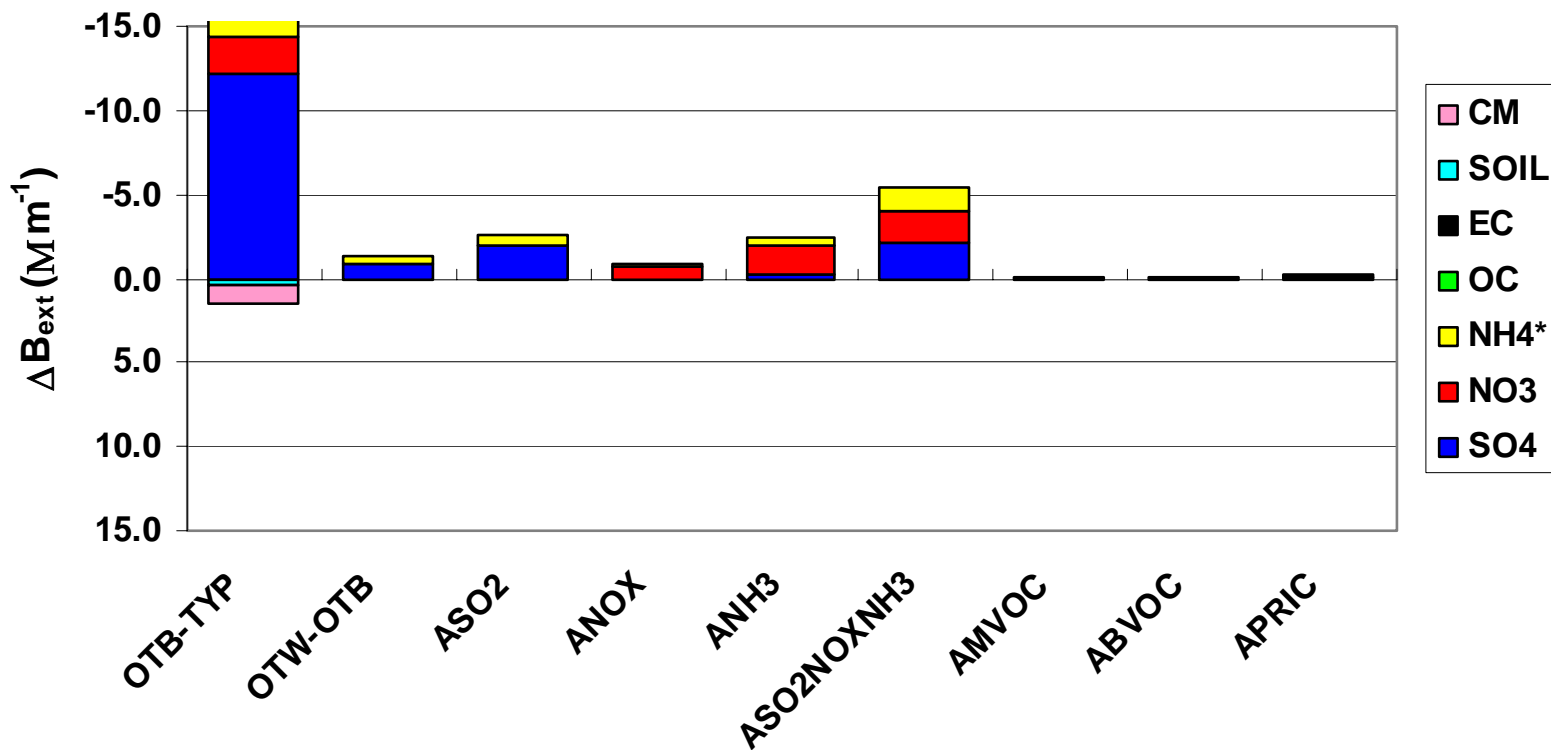


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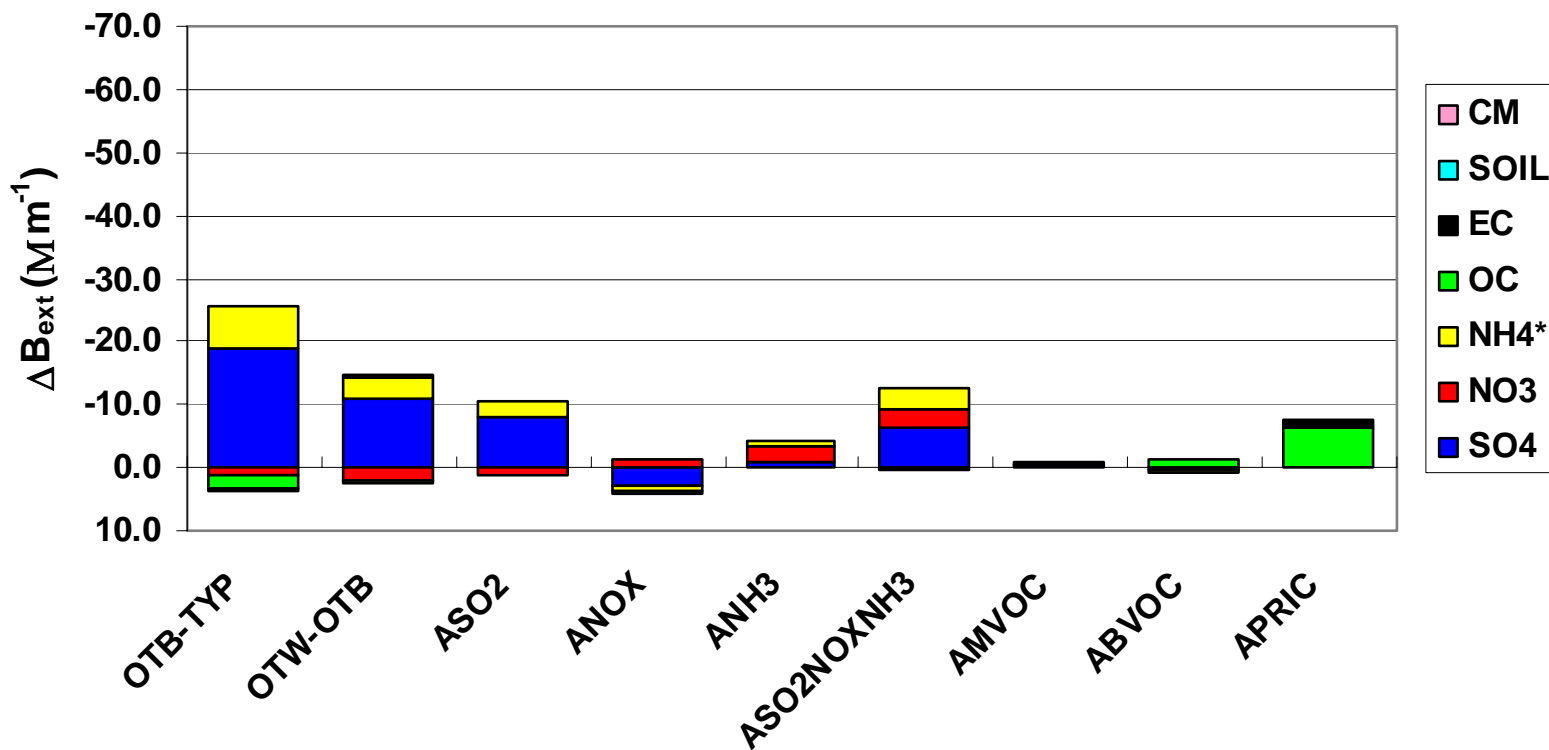


Chassahowitzka

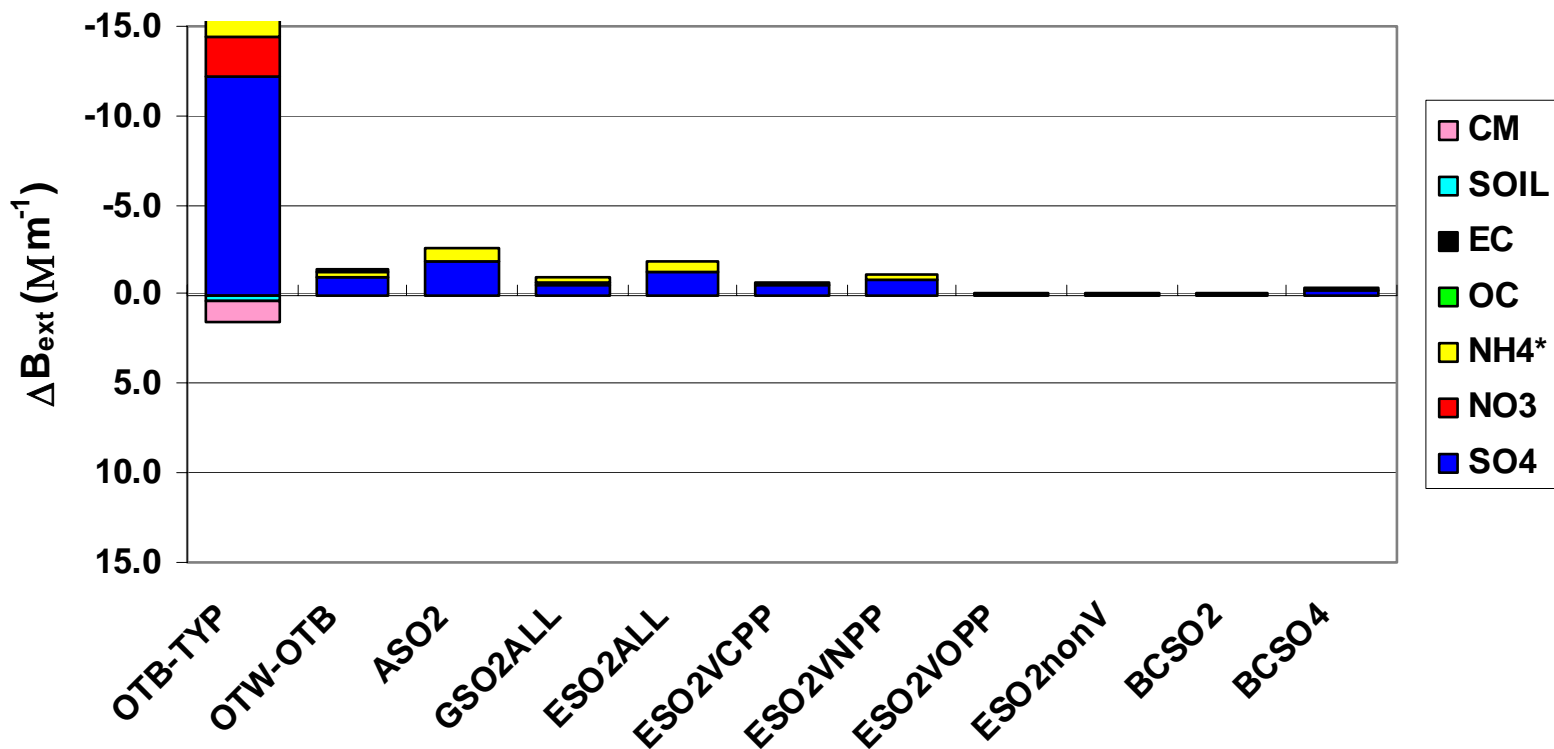
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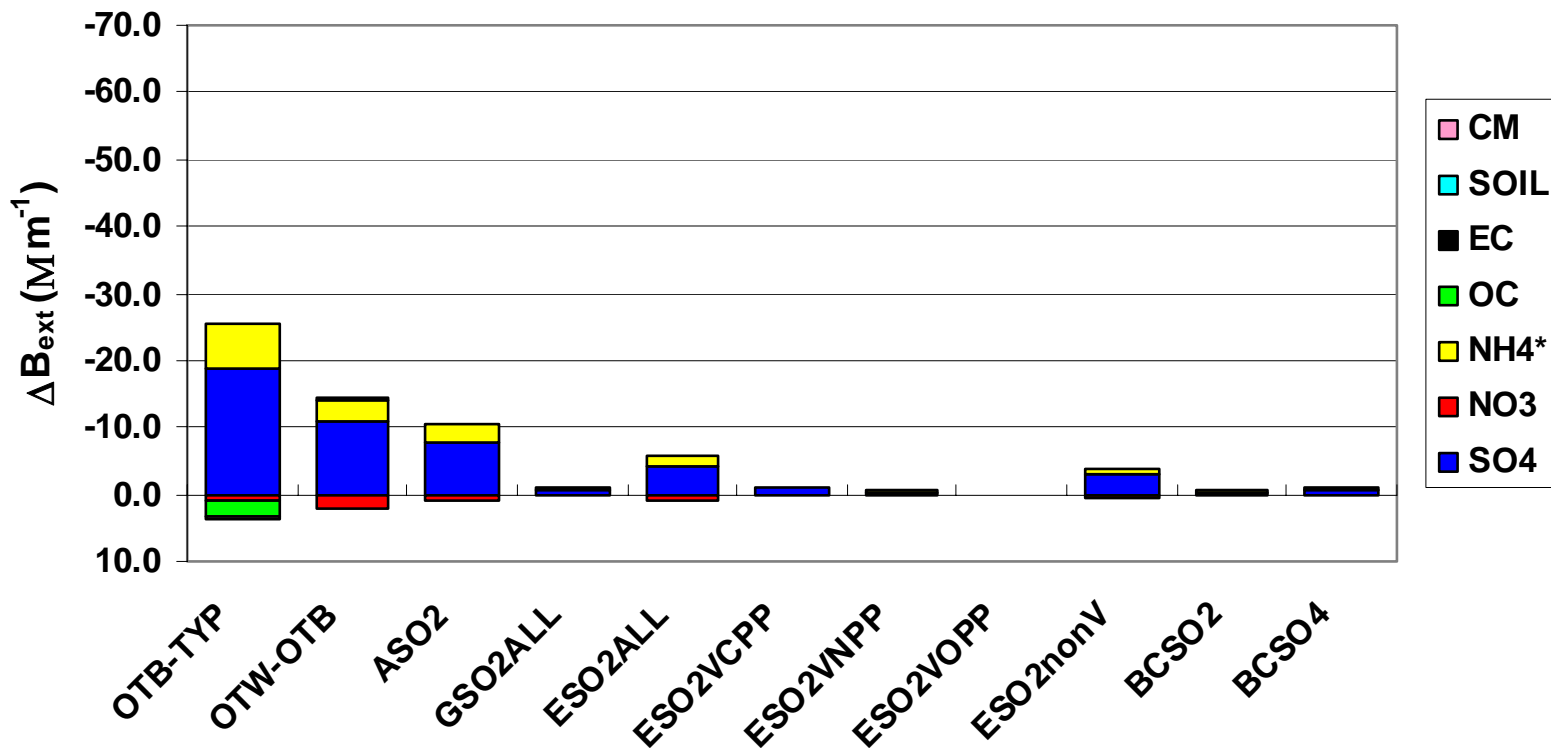
Weighted B_{ext} Response at Chassahowitzka to Reductions in OTB Emissions: Worst 20%



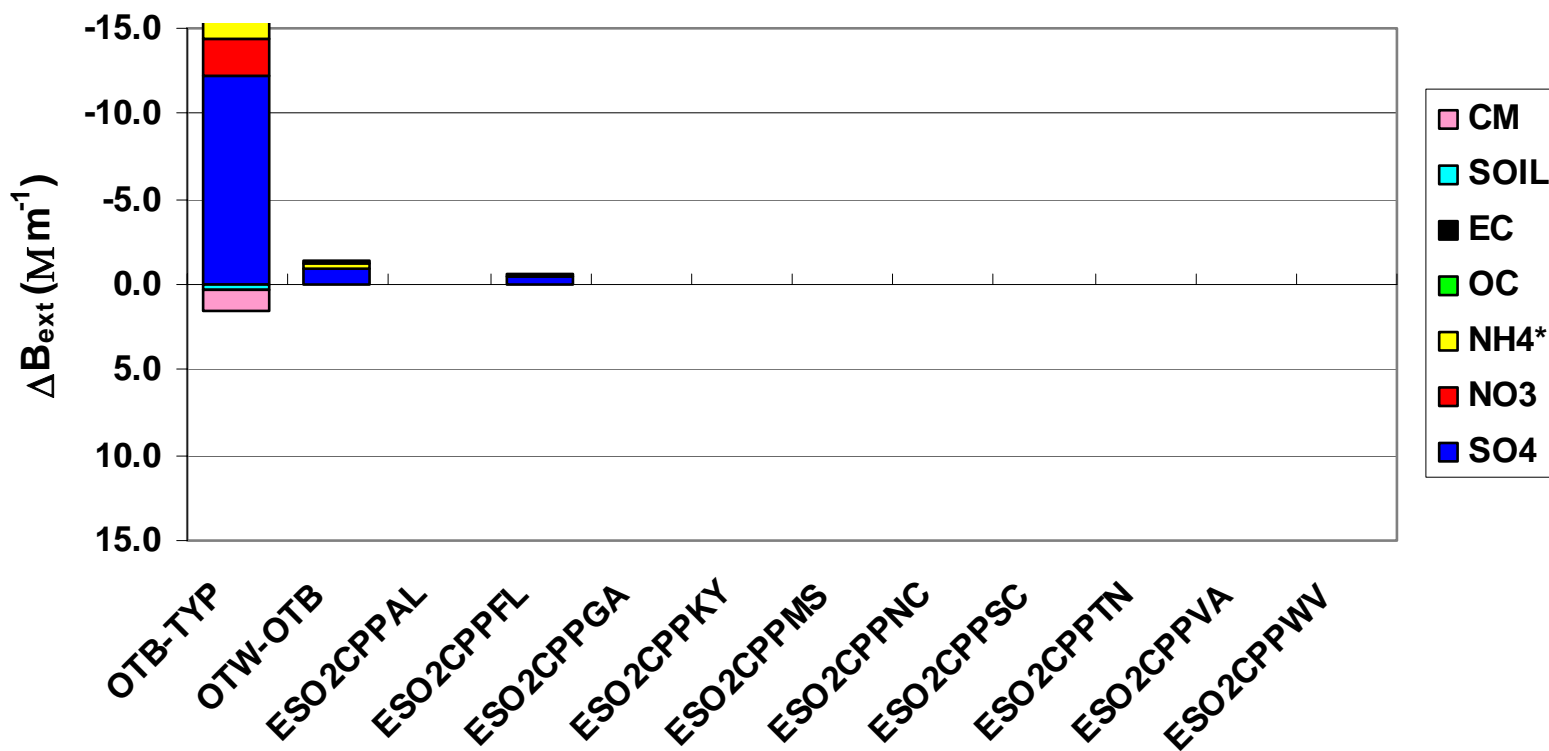
Weighted B_{ext} Response at Chassahowitzka to Reductions in OTB Emissions: Best 20%



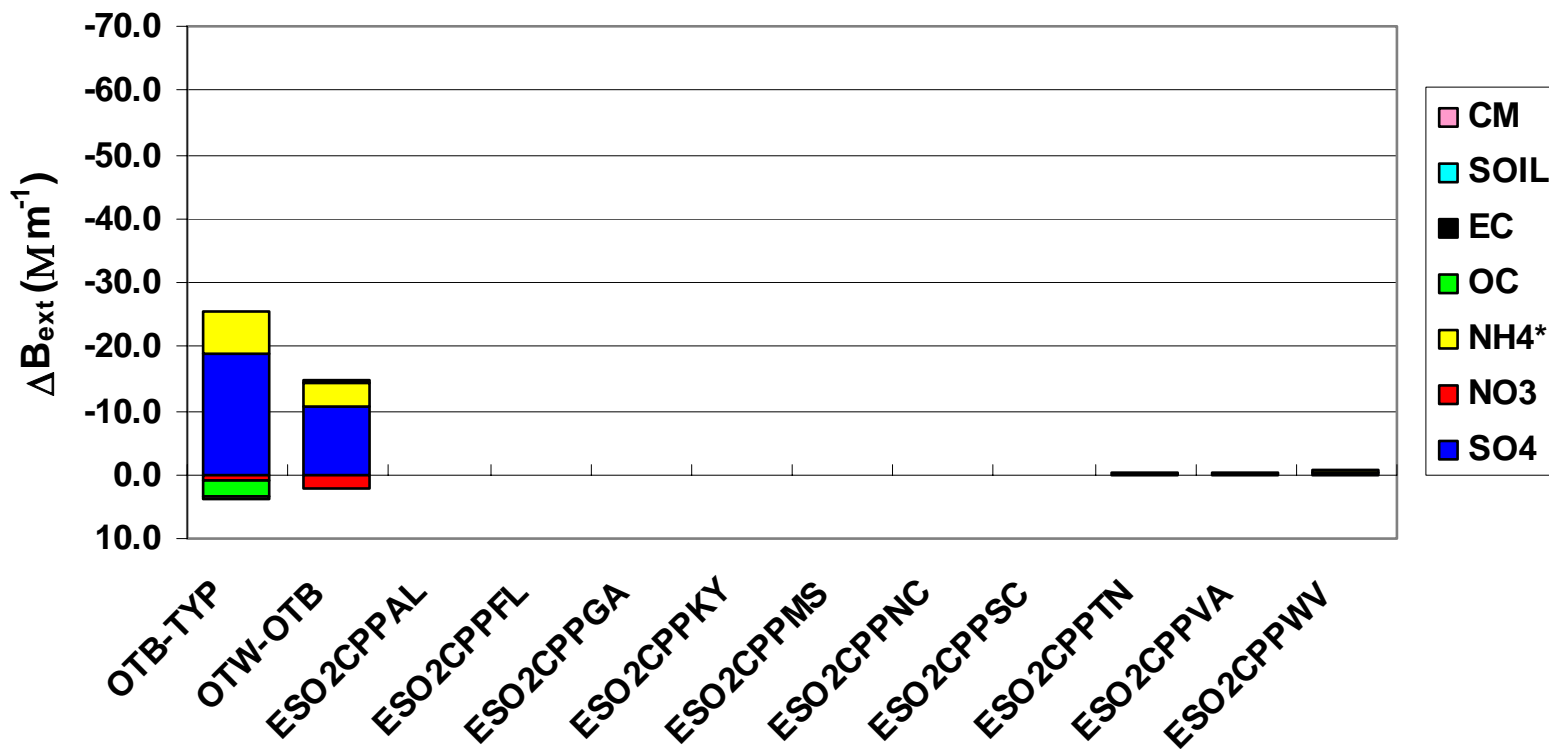
Weighted B_{ext} Response at Chassahowitzka to Reductions in OTB Emissions: Worst 20%



Weighted B_{ext} Response at Chassahowitzka to Reductions in OTB Emissions: Best 20%

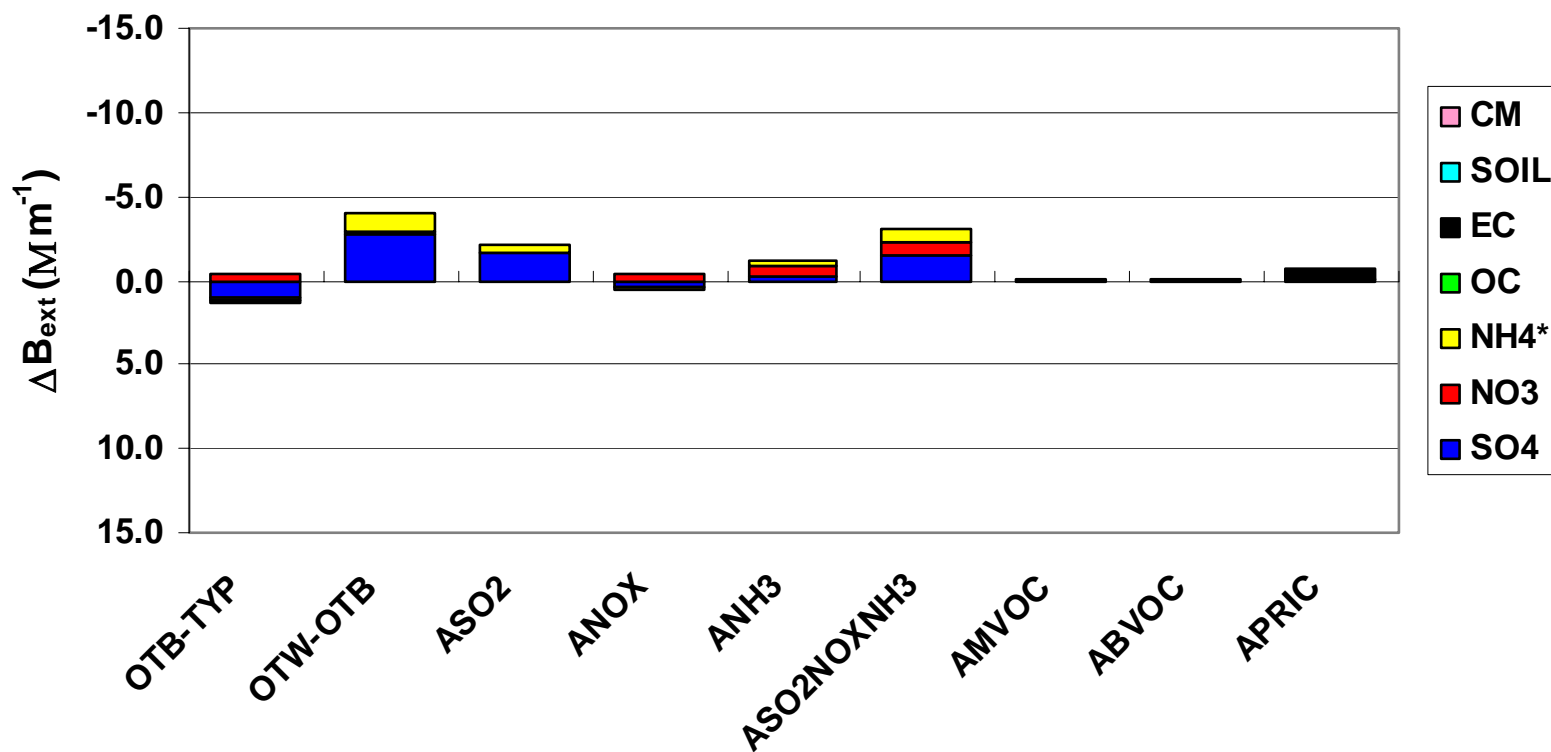


Weighted B_{ext} Response at Chassahowitzka to Reductions in OTB Emissions: Worst 20%

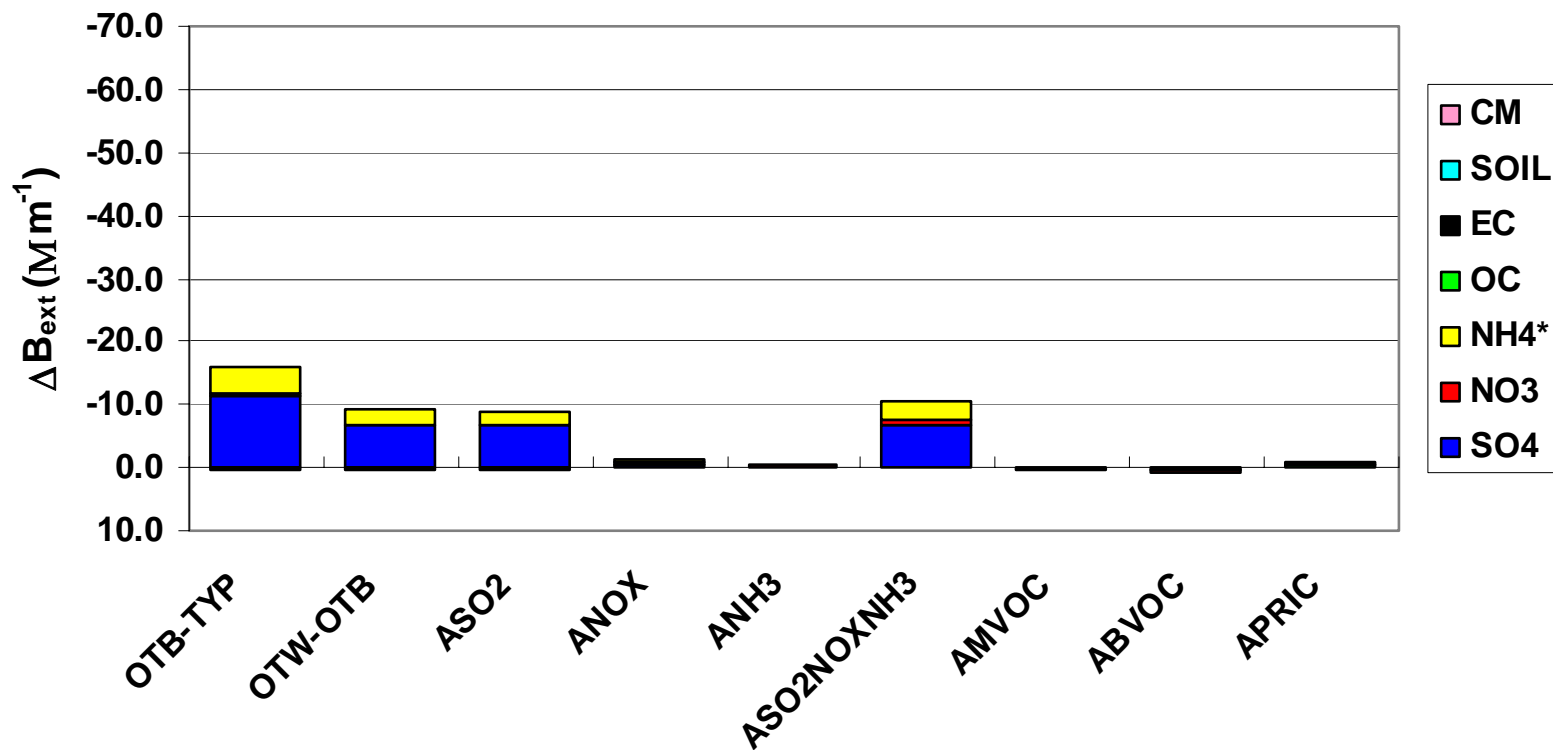


Saint Marks

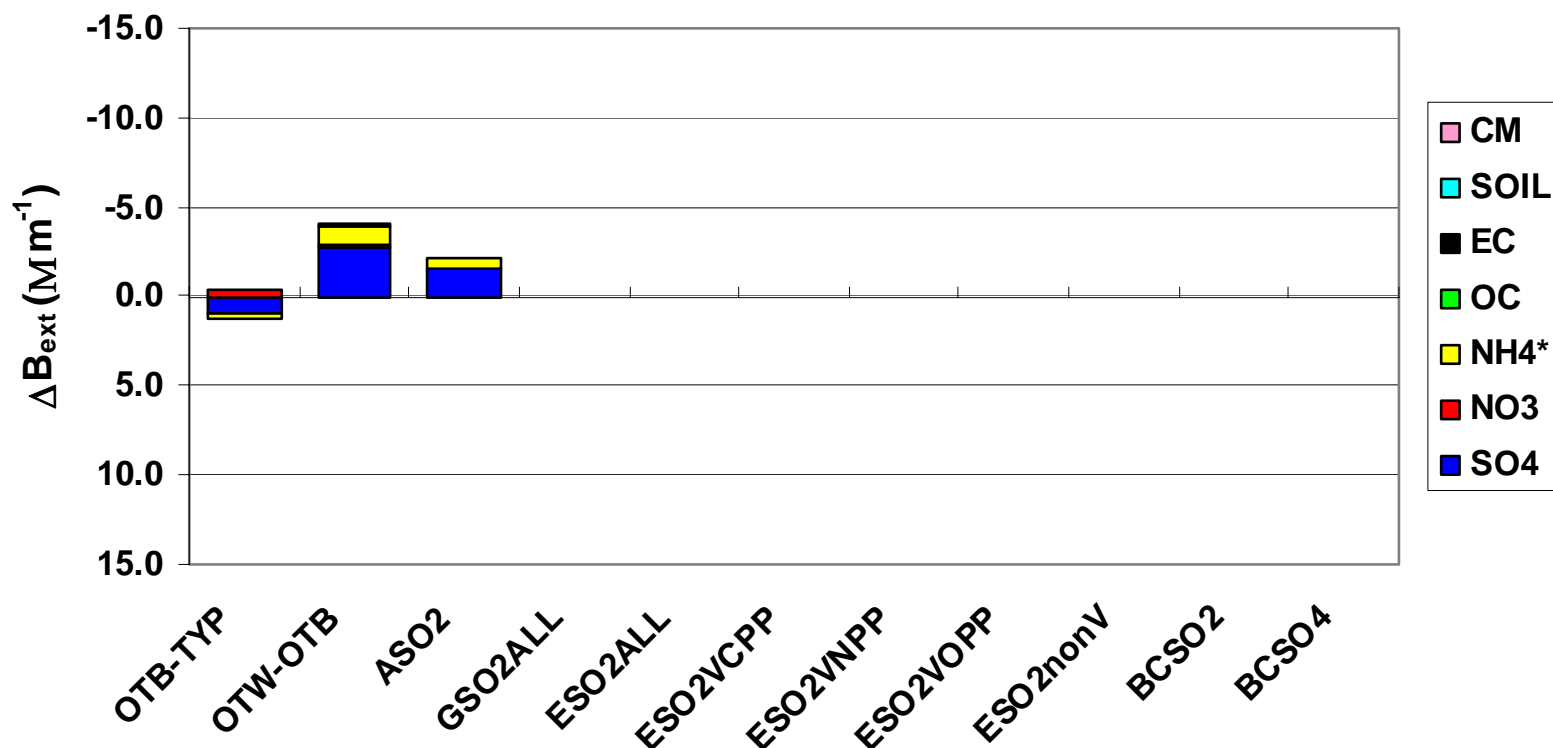
Weighted B_{ext} Response at Saint Marks to Reductions in OTB Emissions: Best 20%



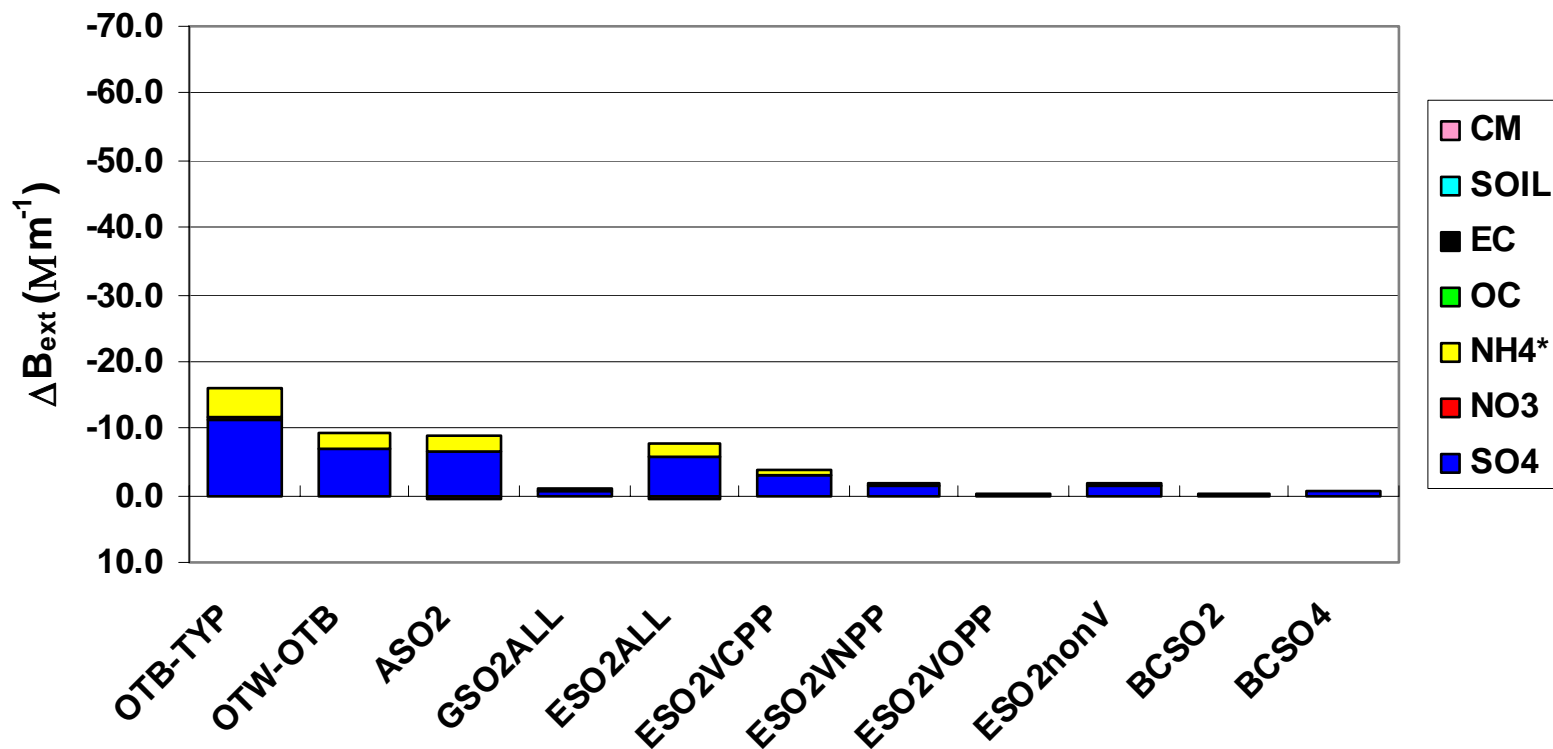
Weighted B_{ext} Response at Saint Marks to Reductions in OTB Emissions: Worst 20%



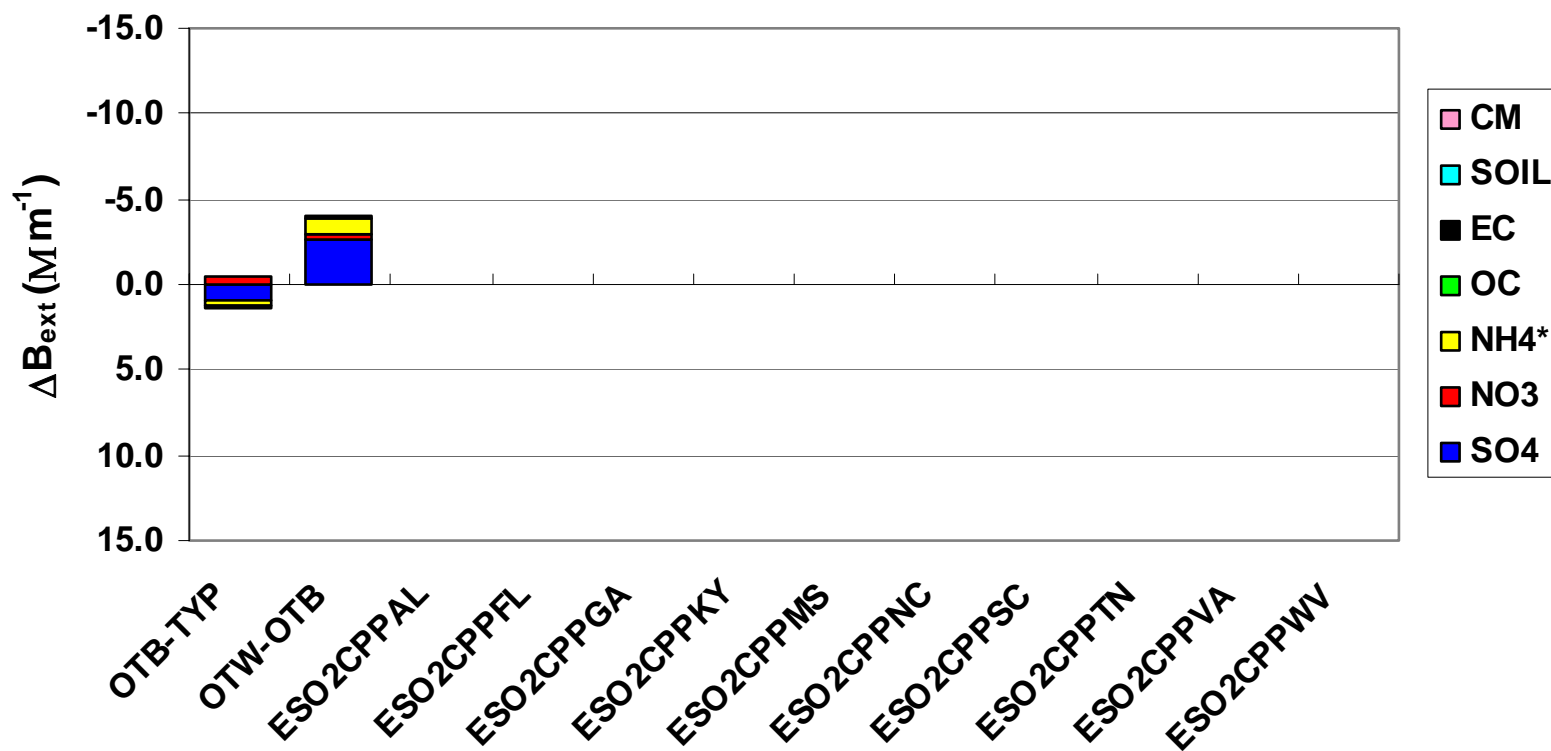
Weighted B_{ext} Response at Saint Marks to Reductions in OTB Emissions: Best 20%



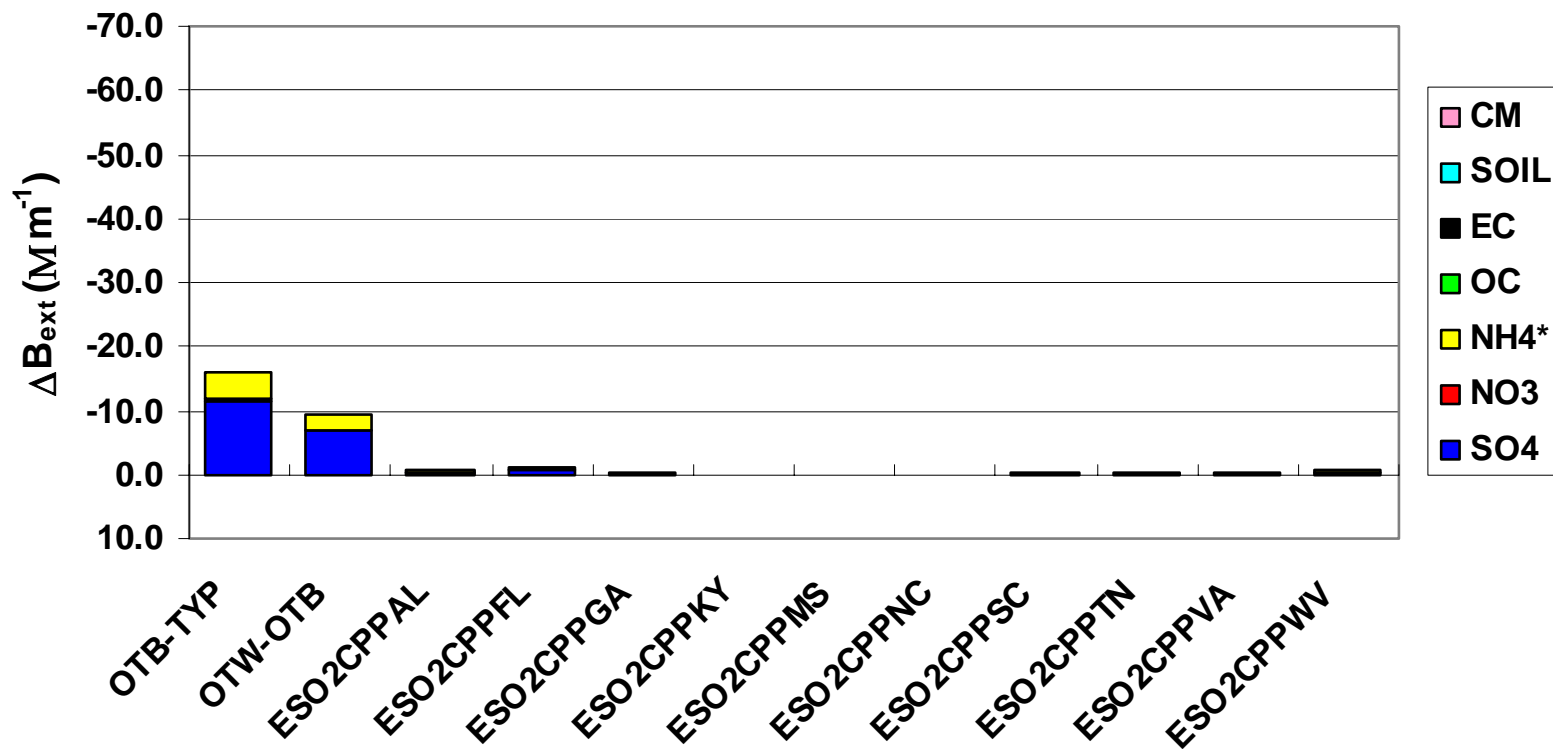
Weighted B_{ext} Response at Saint Marks to Reductions in OTB Emissions: Worst 20%



Weighted B_{ext} Response at Saint Marks to Reductions in OTB Emissions: Best 20%

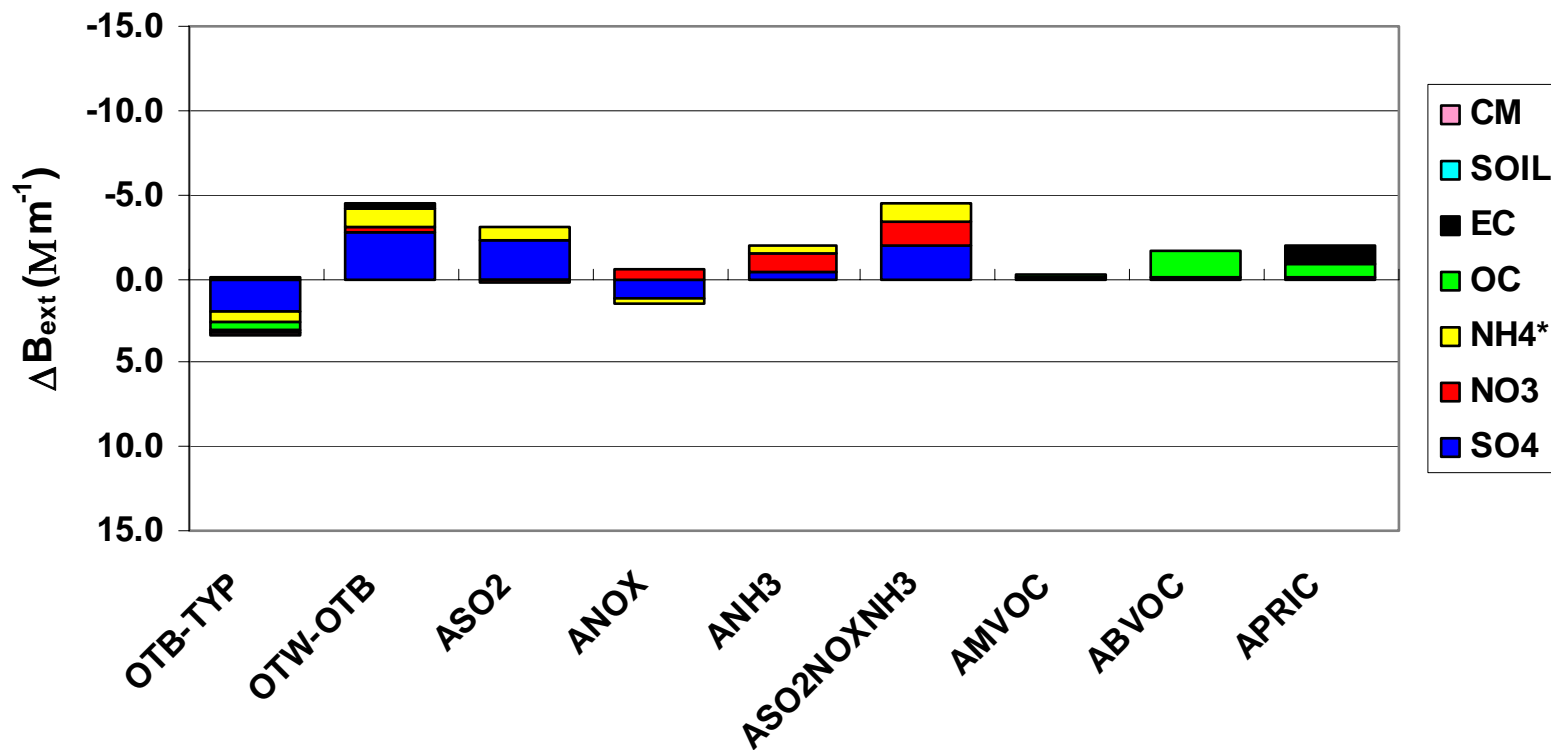


Weighted B_{ext} Response at Saint Marks to Reductions in OTB Emissions: Worst 20%

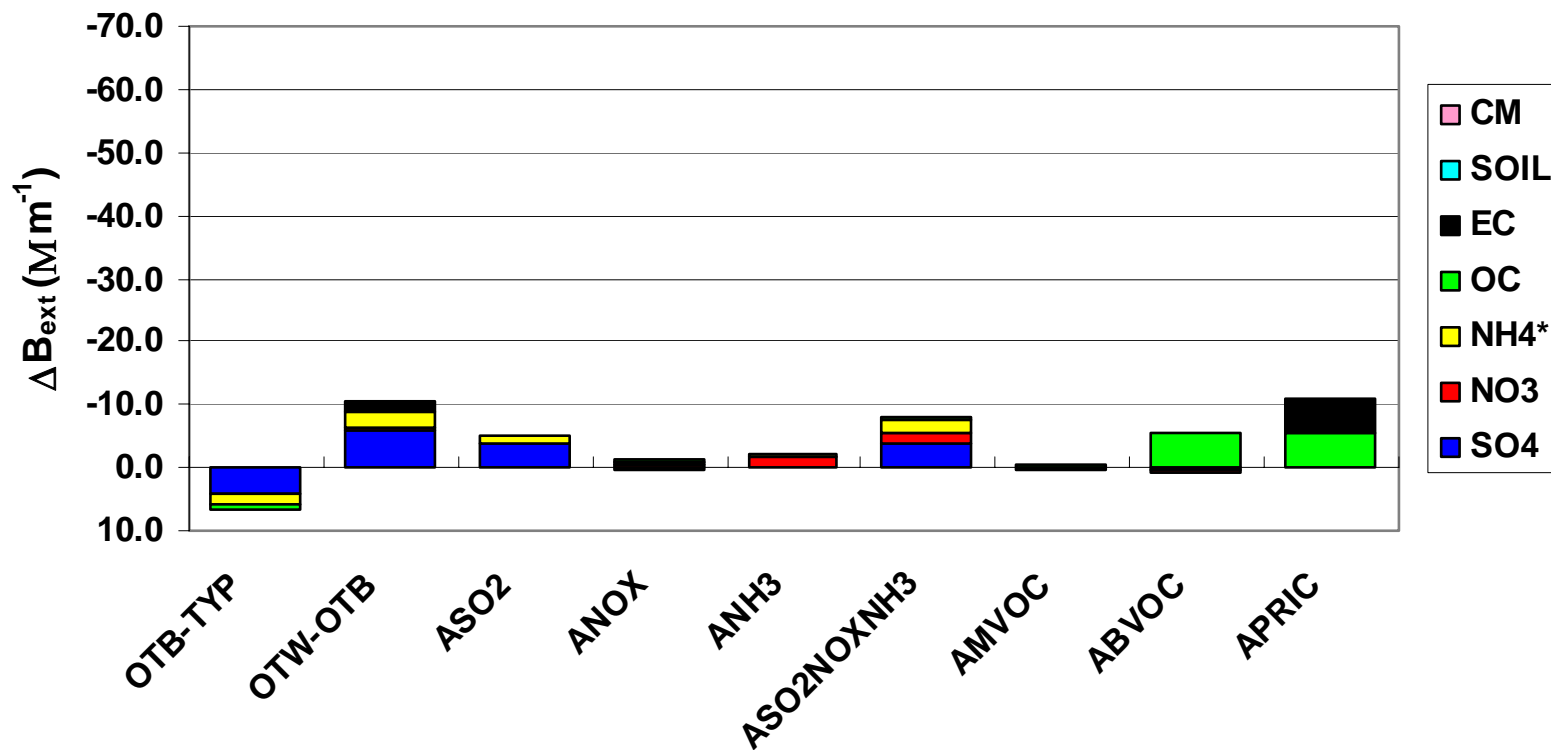


Okefenokee

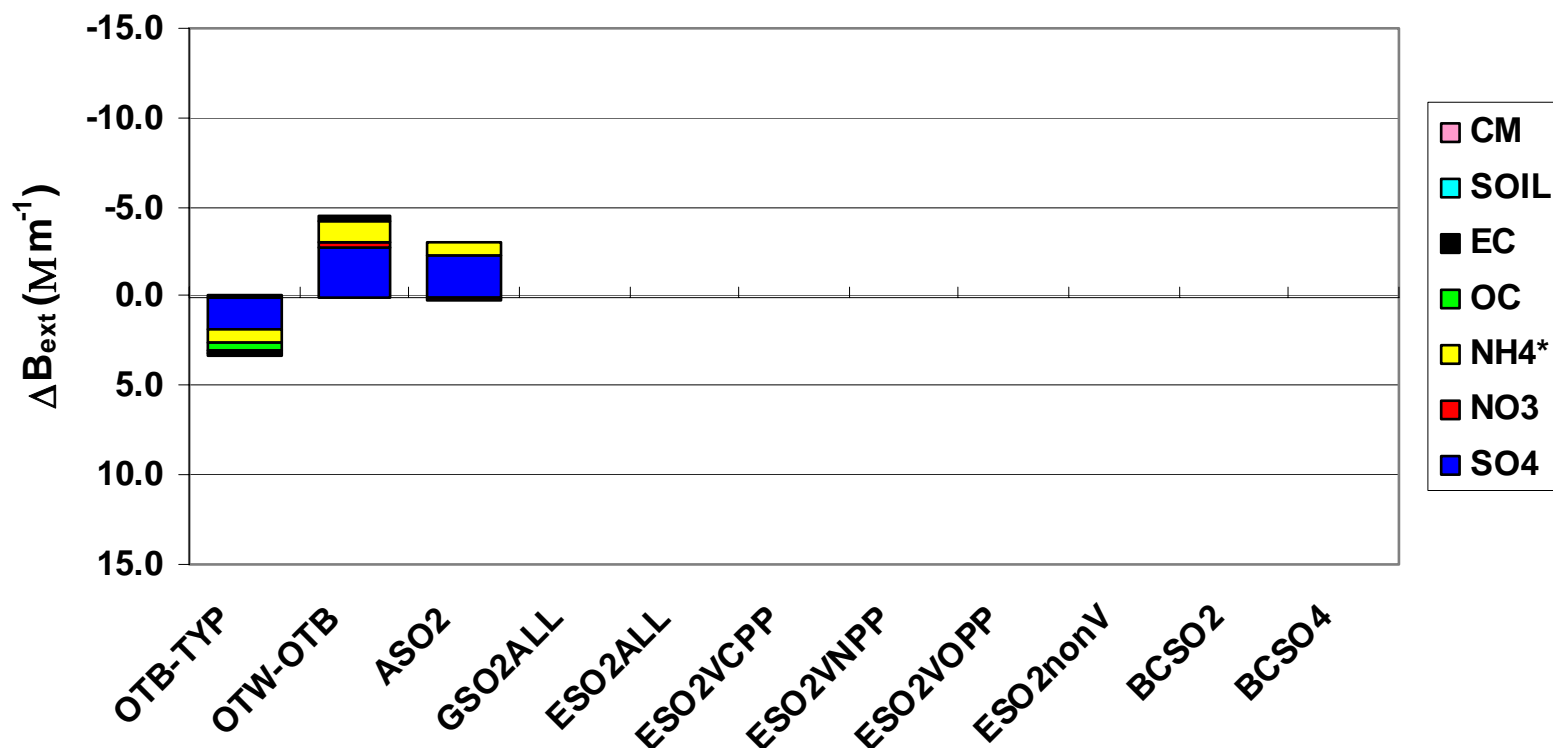
Weighted B_{ext} Response at Okefenokee to Reductions in OTB Emissions: Best 20%



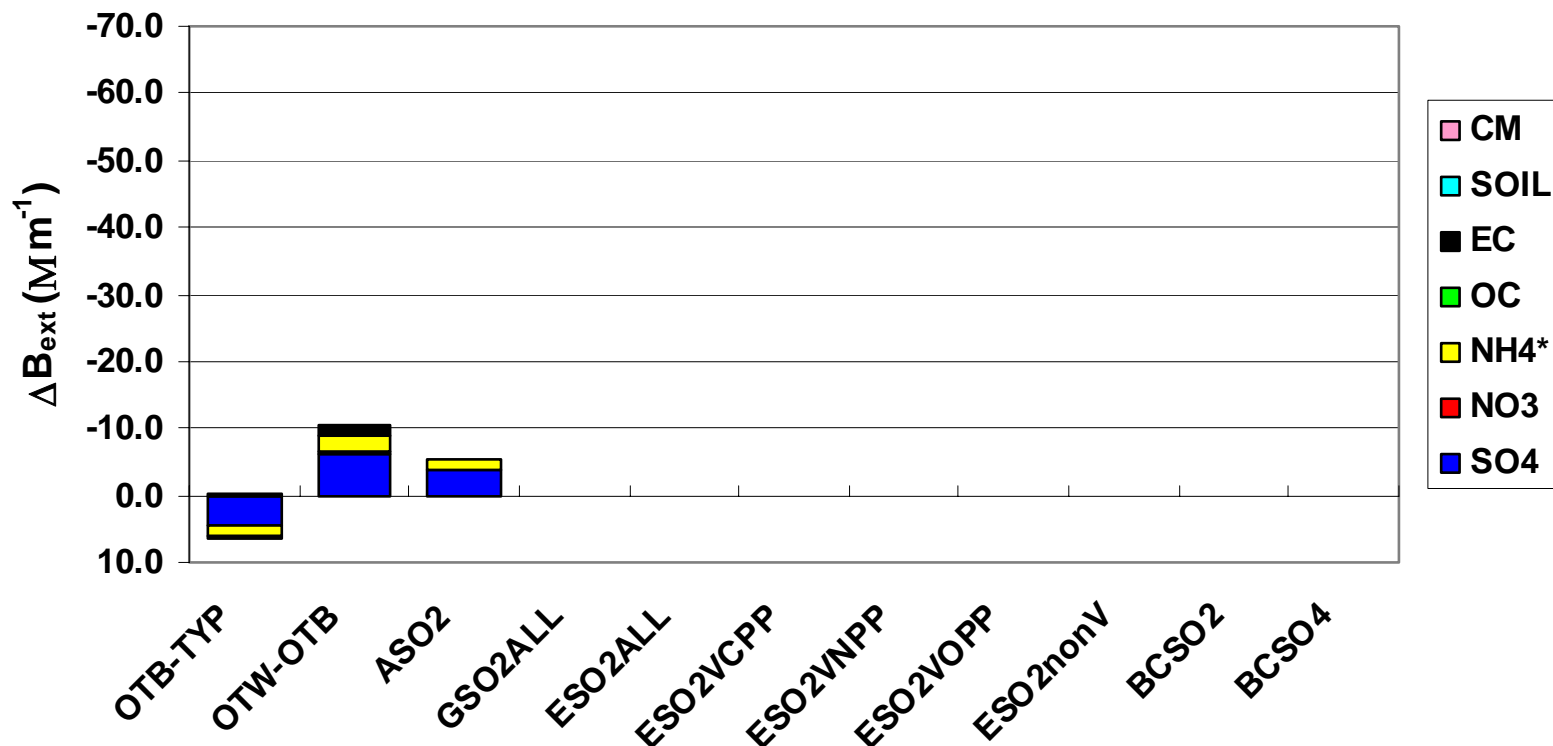
Weighted B_{ext} Response at Okefenokee to Reductions in OTB Emissions: Worst 20%



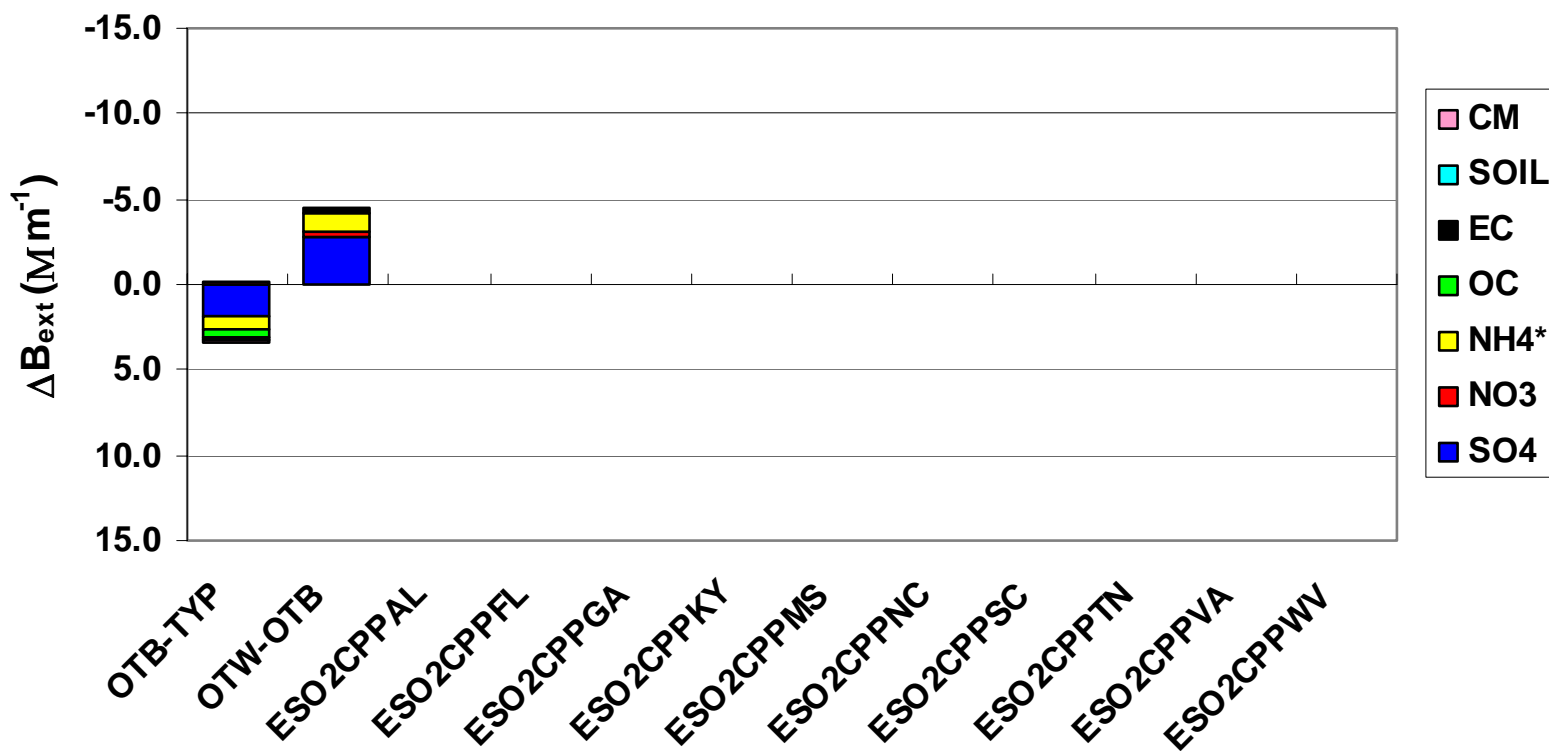
Weighted B_{ext} Response at Okefenokee to Reductions in OTB Emissions: Best 20%



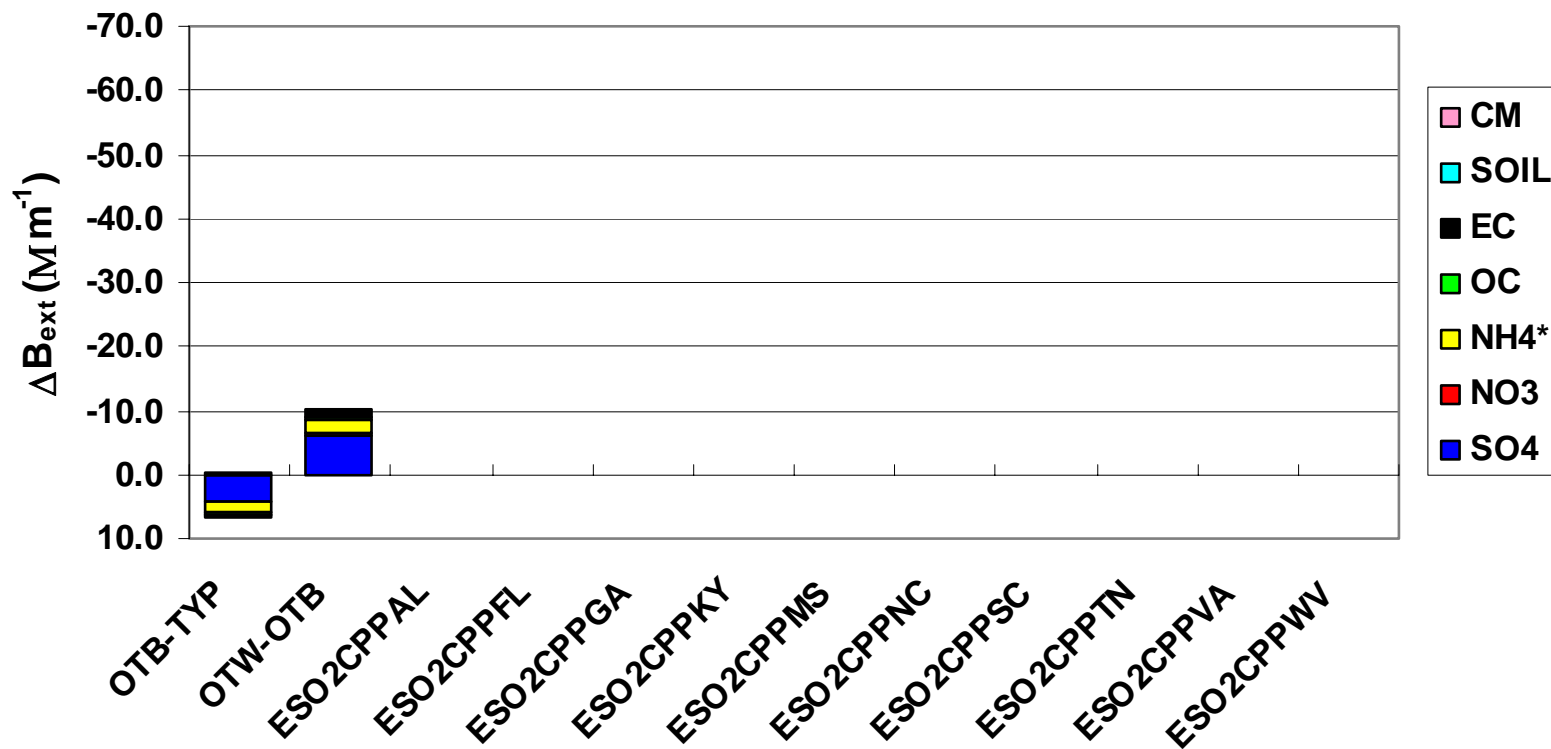
Weighted B_{ext} Response at Okefenokee to Reductions in OTB Emissions: Worst 20%



Weighted B_{ext} Response at Okefenokee to Reductions in OTB Emissions: Best 20%

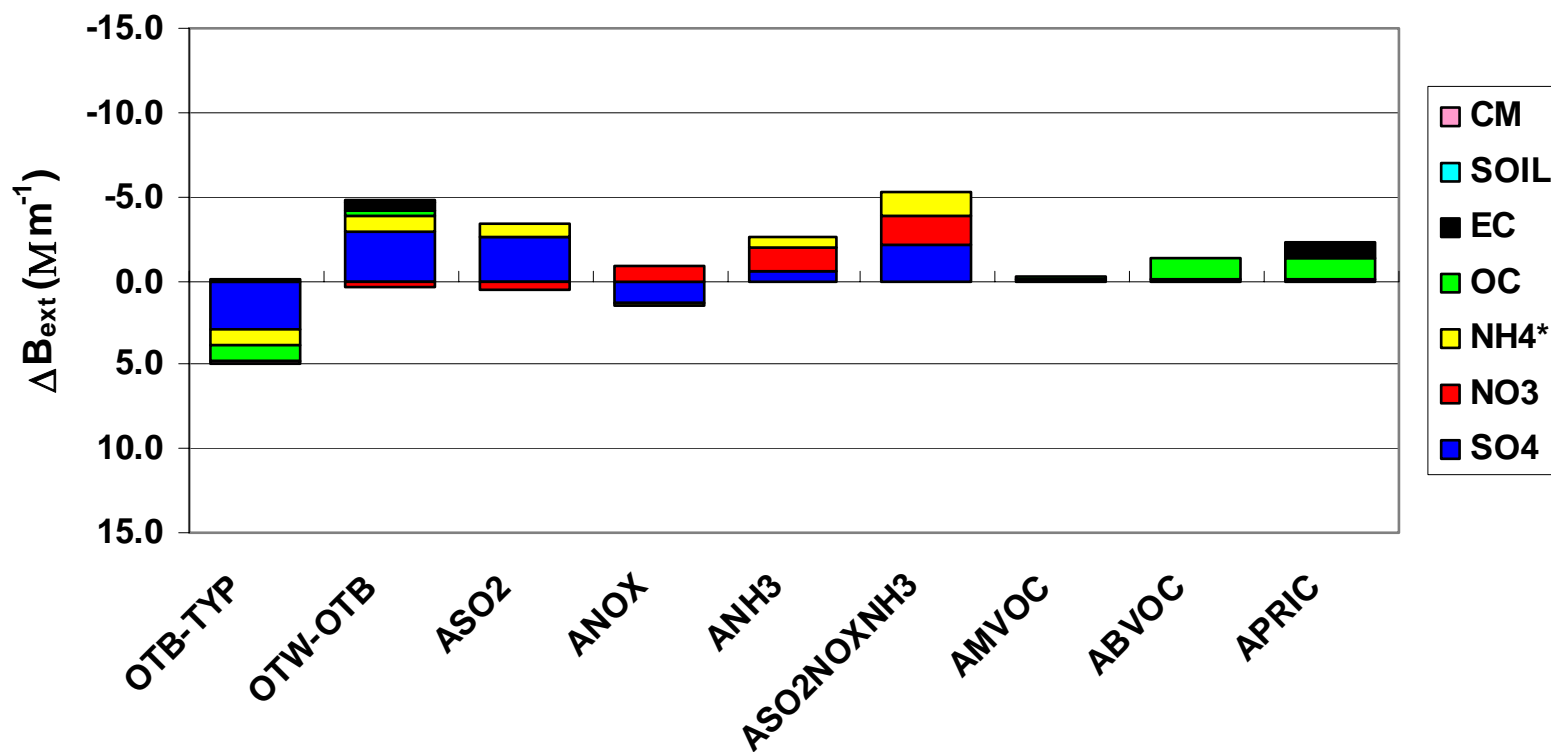


Weighted B_{ext} Response at Okefenokee to Reductions in OTB Emissions: Worst 20%

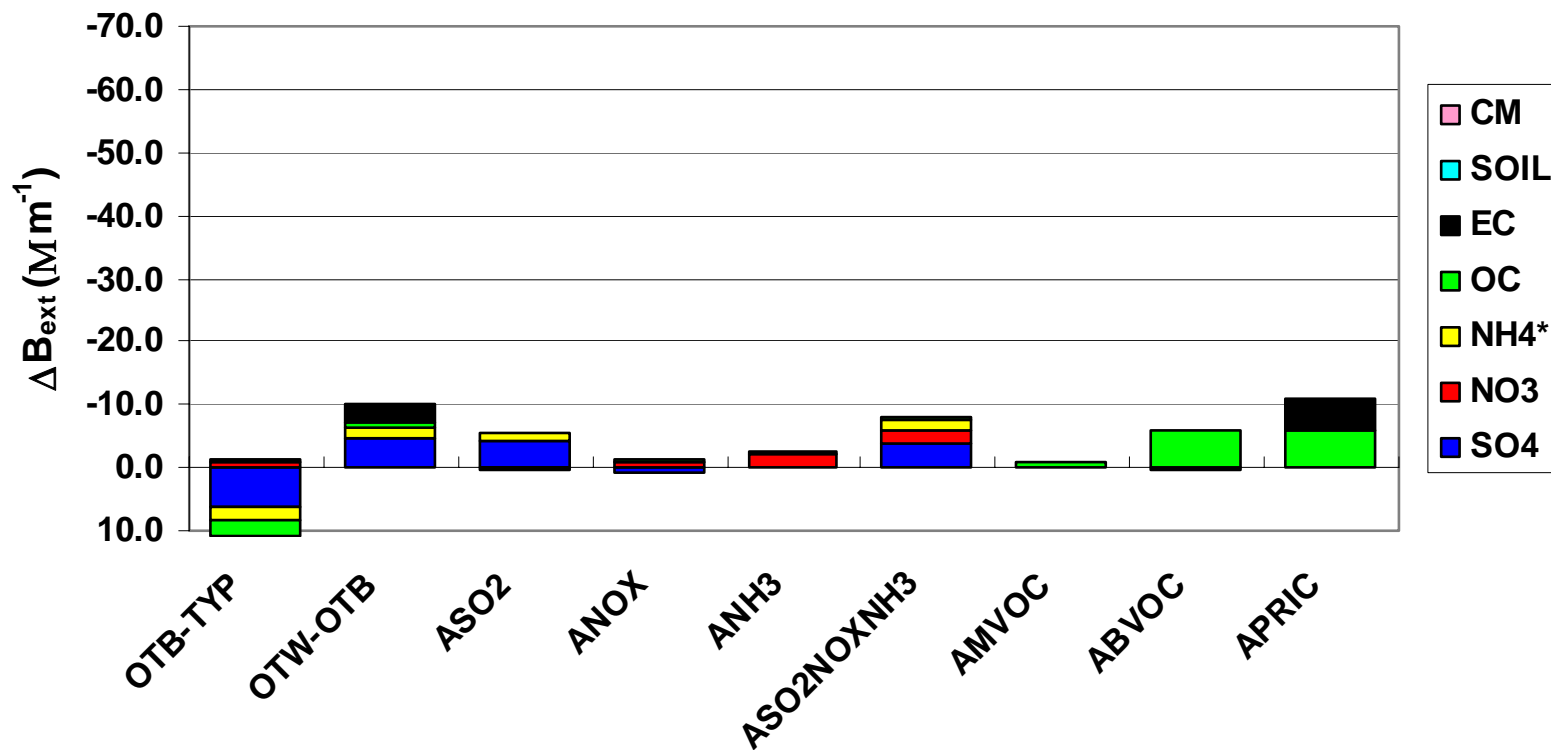


Wolf Island

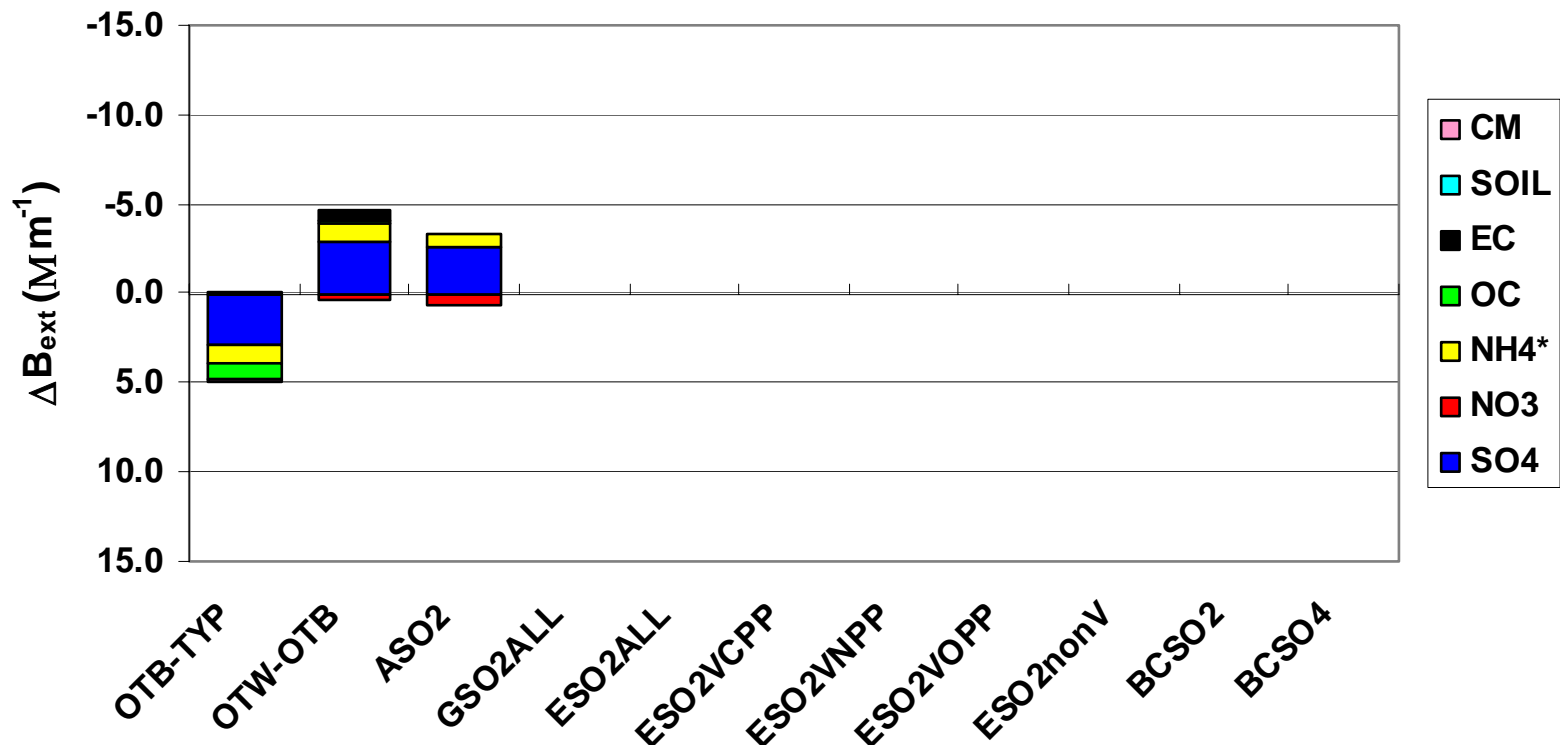
Weighted B_{ext} Response at Wolf Island to Reductions in OTB Emissions: Best 20%



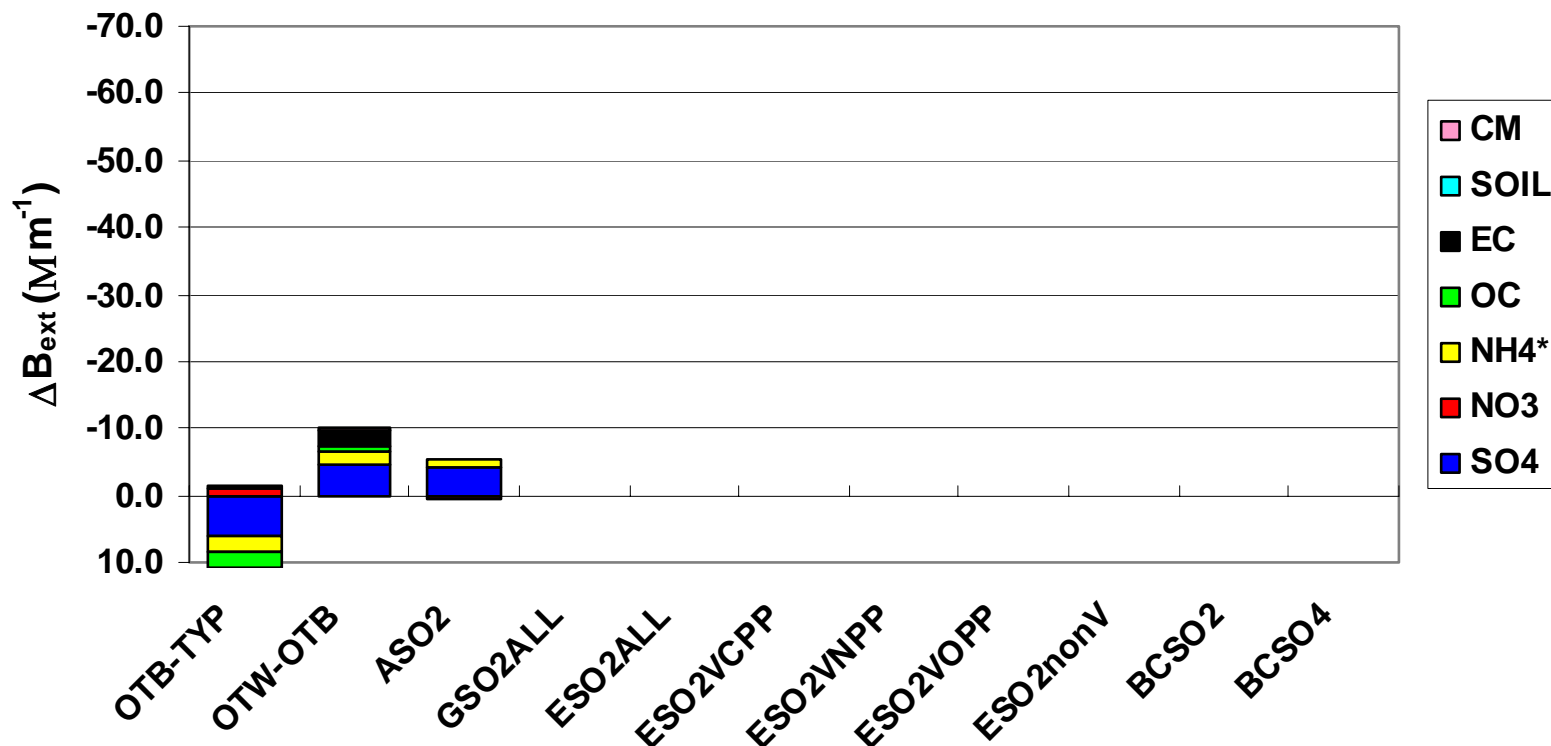
Weighted B_{ext} Response at Wolf Island to Reductions in OTB Emissions: Worst 20%



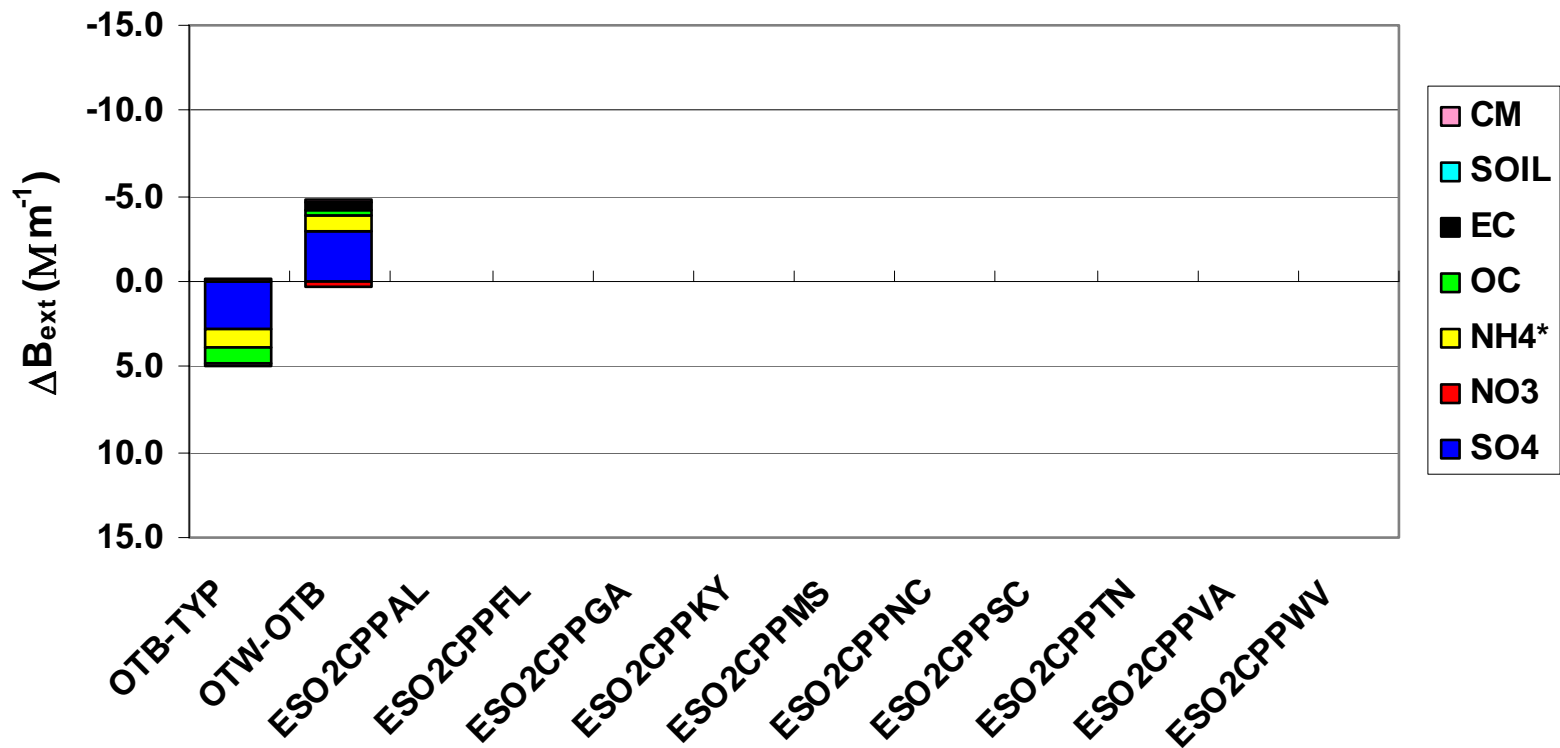
Weighted B_{ext} Response at Wolf Island to Reductions in OTB Emissions: Best 20%



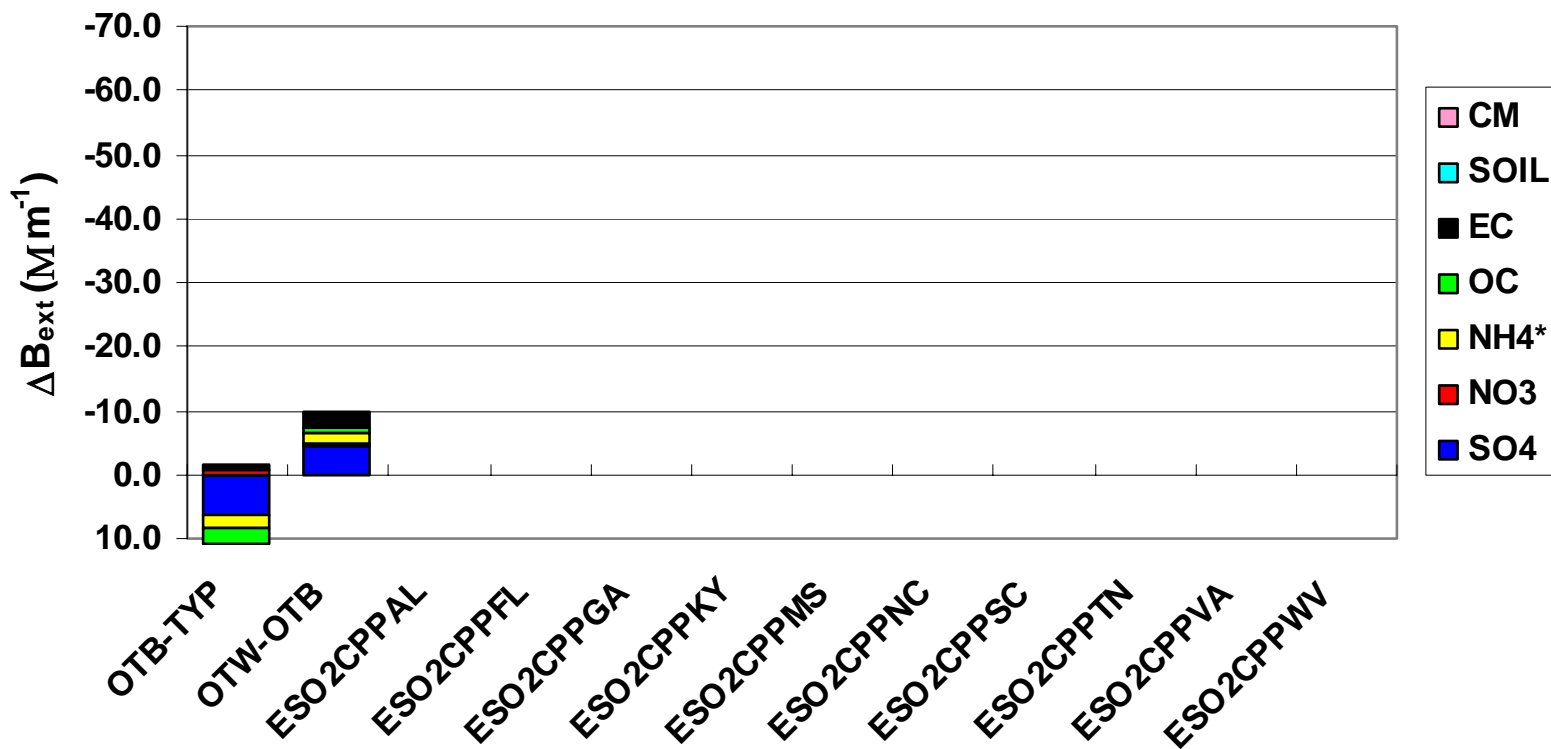
Weighted B_{ext} Response at Wolf Island to Reductions in OTB Emissions: Worst 20%



Weighted B_{ext} Response at Wolf Island to Reductions in OTB Emissions: Best 20%

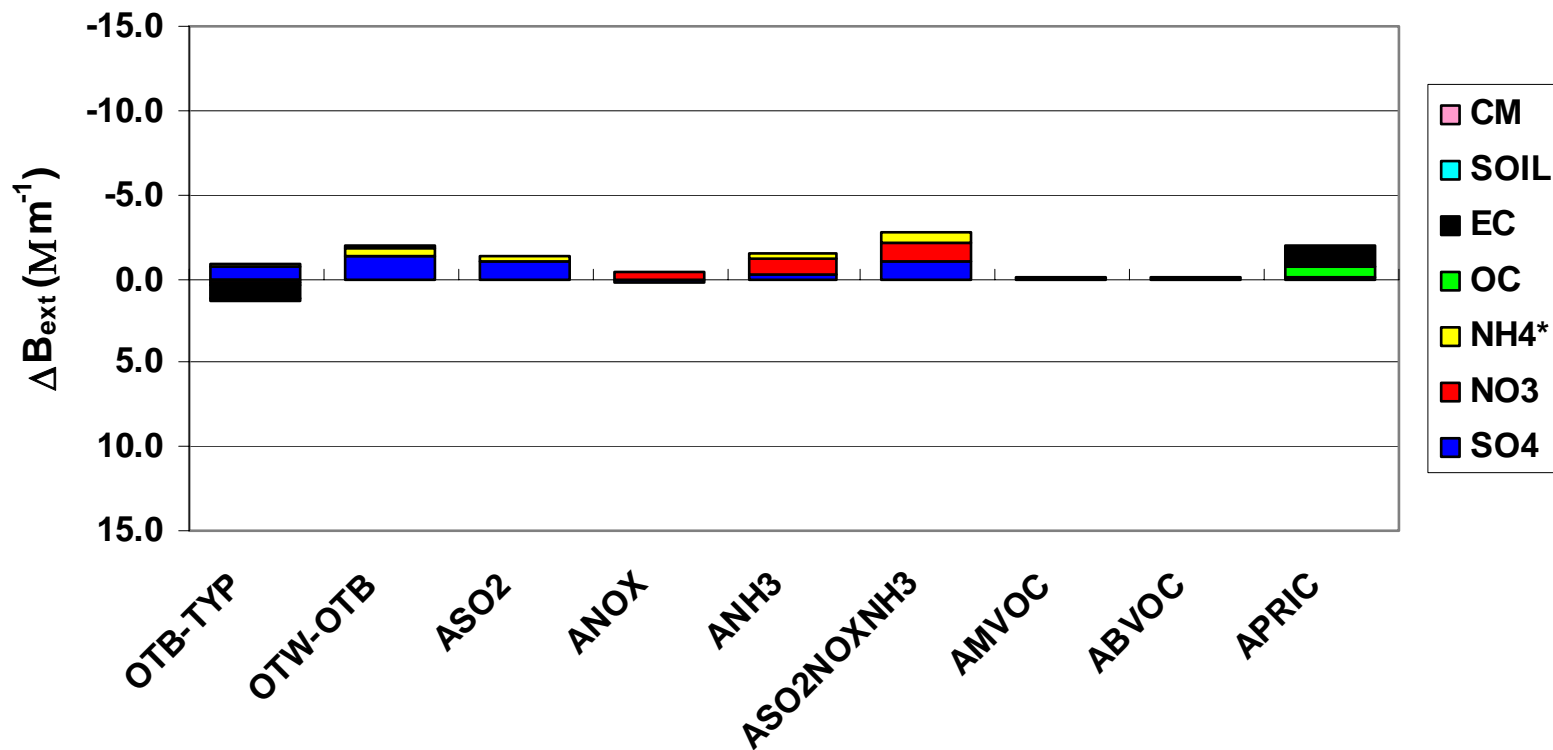


Weighted B_{ext} Response at Wolf Island to Reductions in OTB Emissions: Worst 20%

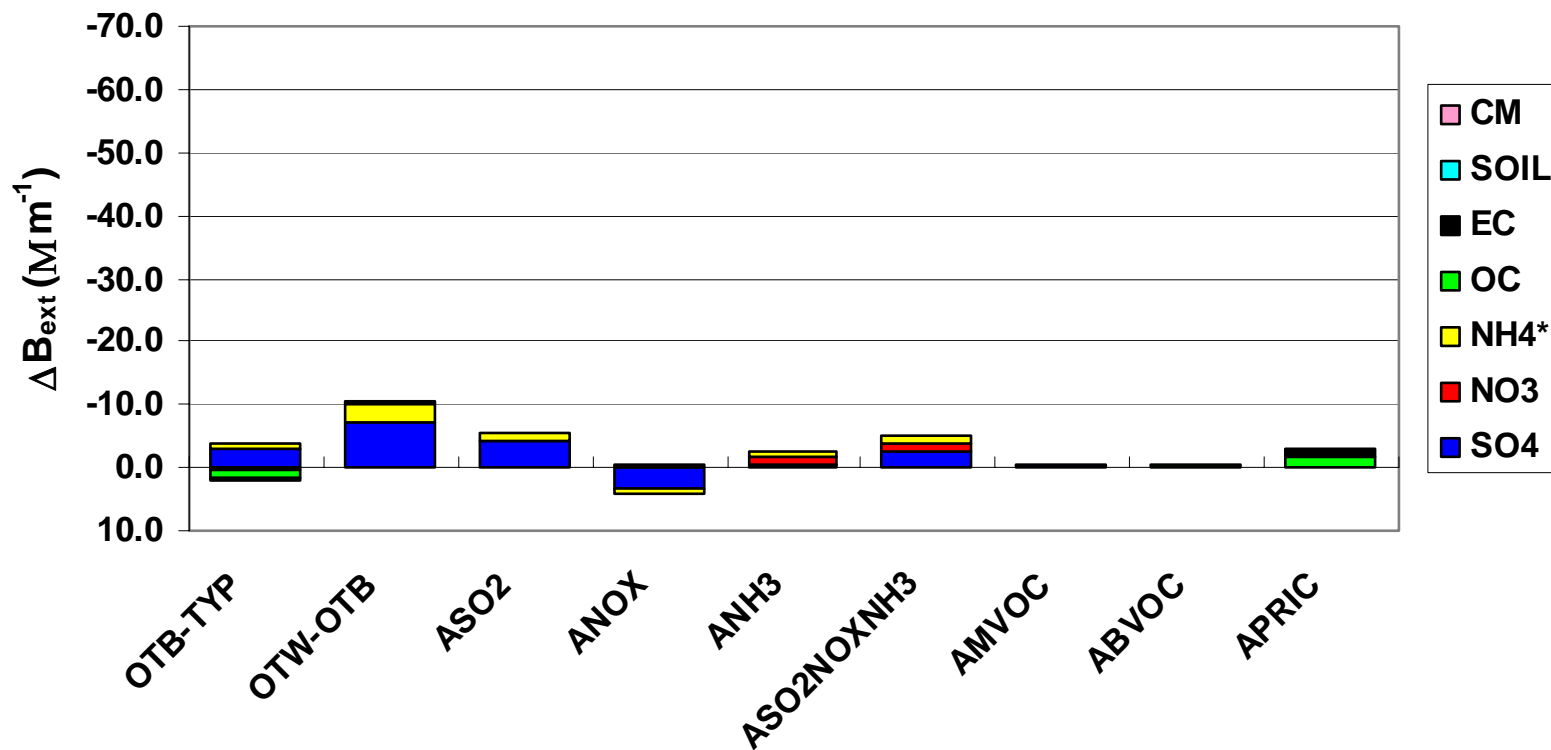


Everglades

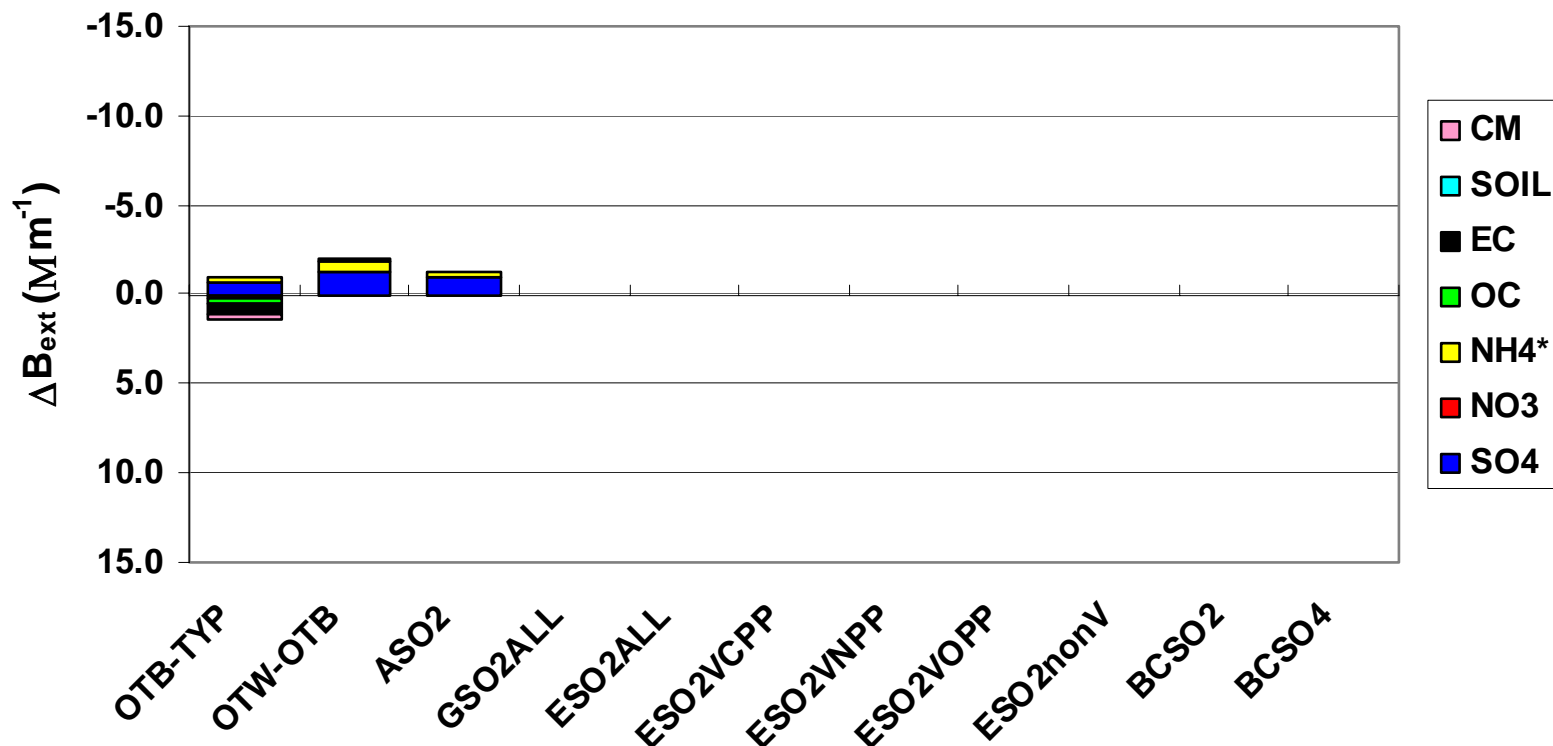
Weighted B_{ext} Response at Everglades to Reductions in OTB Emissions: Best 20%



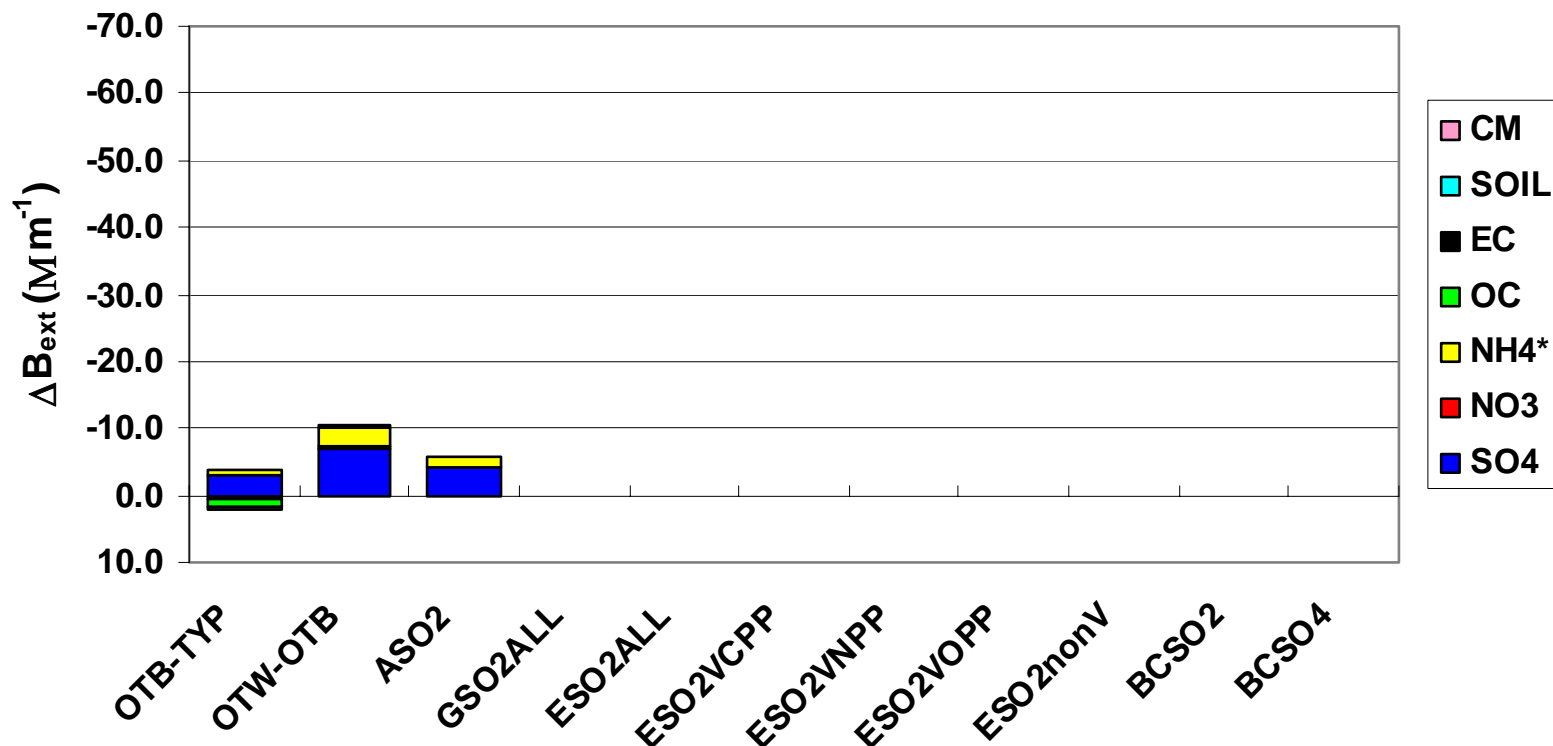
Weighted B_{ext} Response at Everglades to Reductions in OTB Emissions: Worst 20%



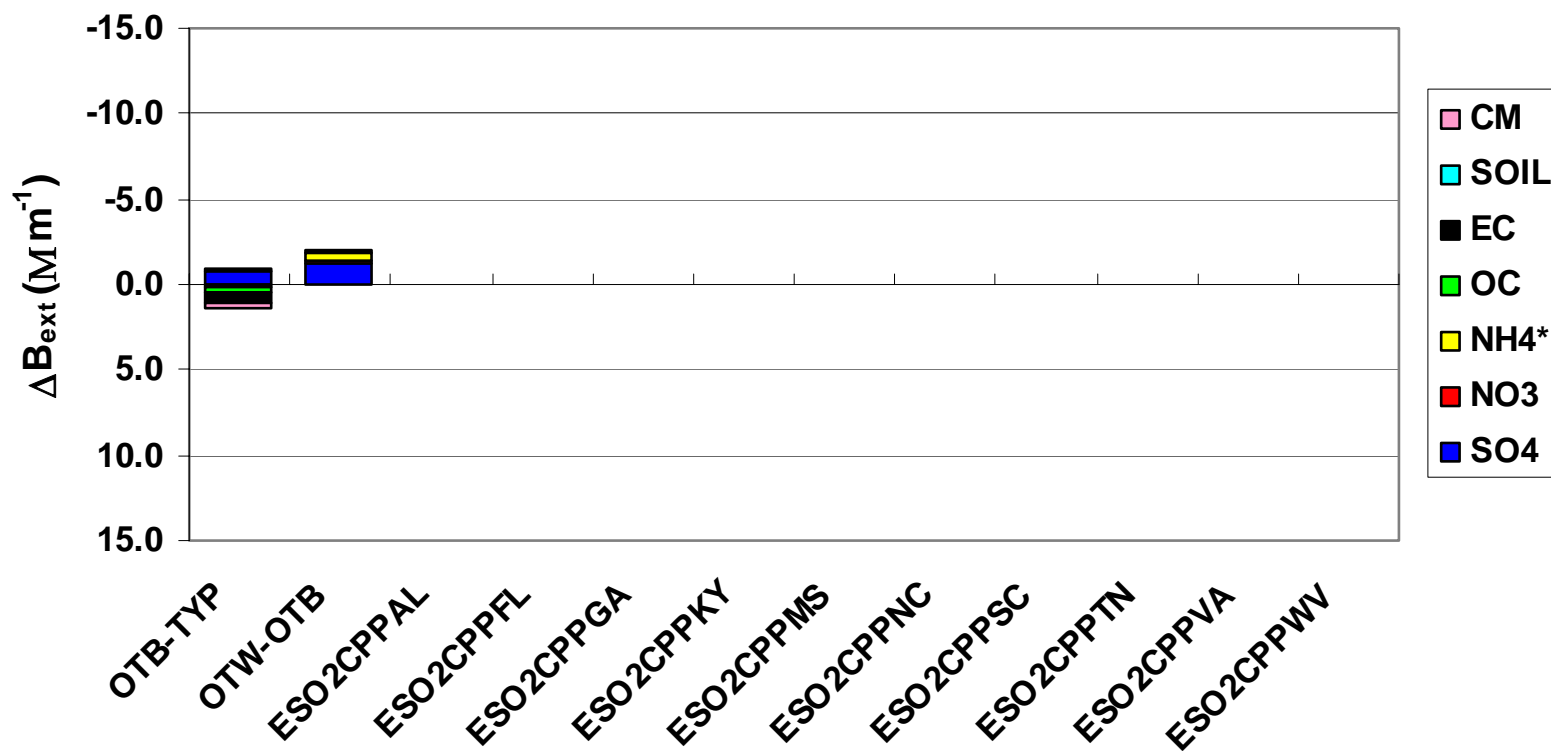
Weighted B_{ext} Response at Everglades to Reductions in OTB Emissions: Best 20%



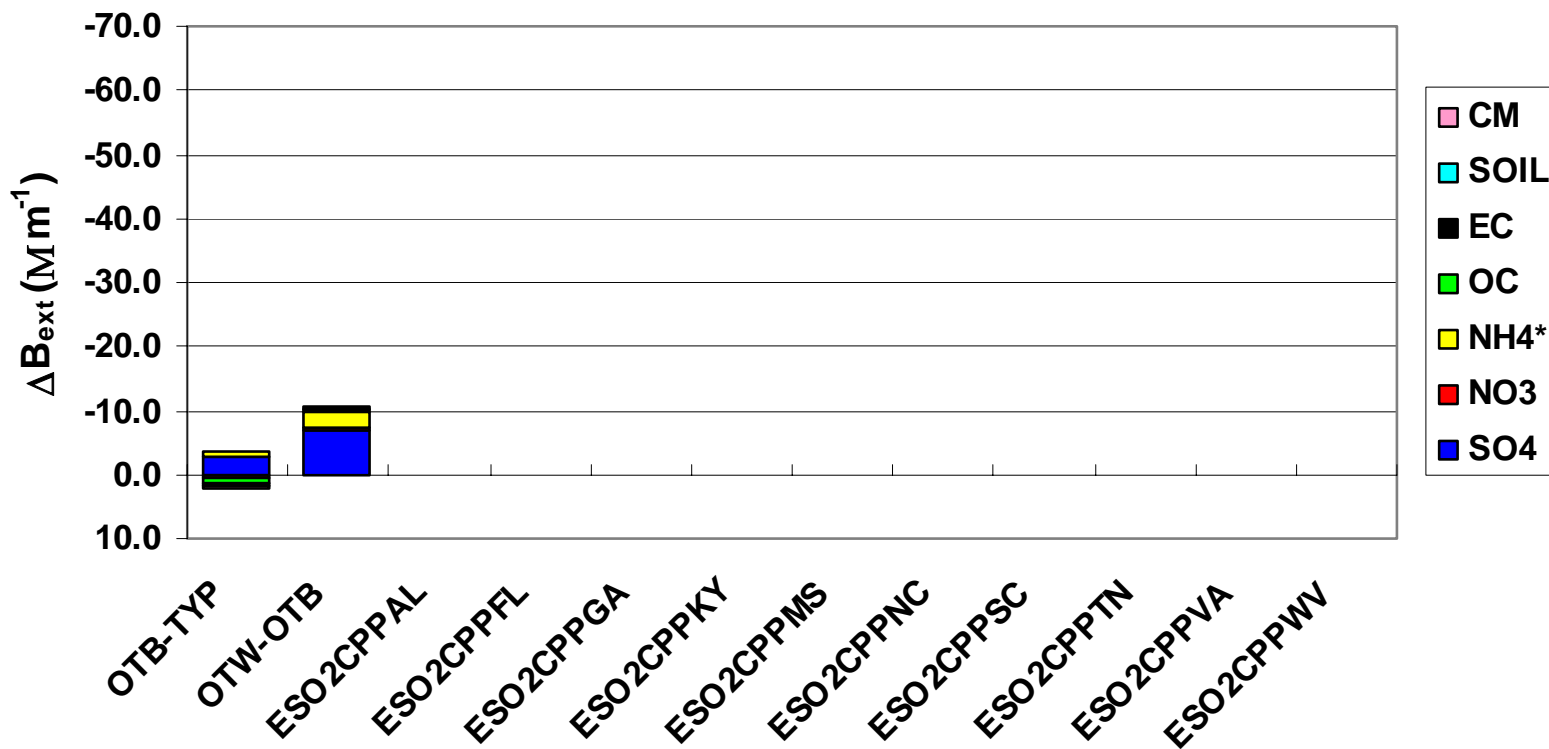
Weighted B_{ext} Response at Everglades to Reductions in OTB Emissions: Worst 20%



Weighted B_{ext} Response at Everglades to Reductions in OTB Emissions: Best 20%

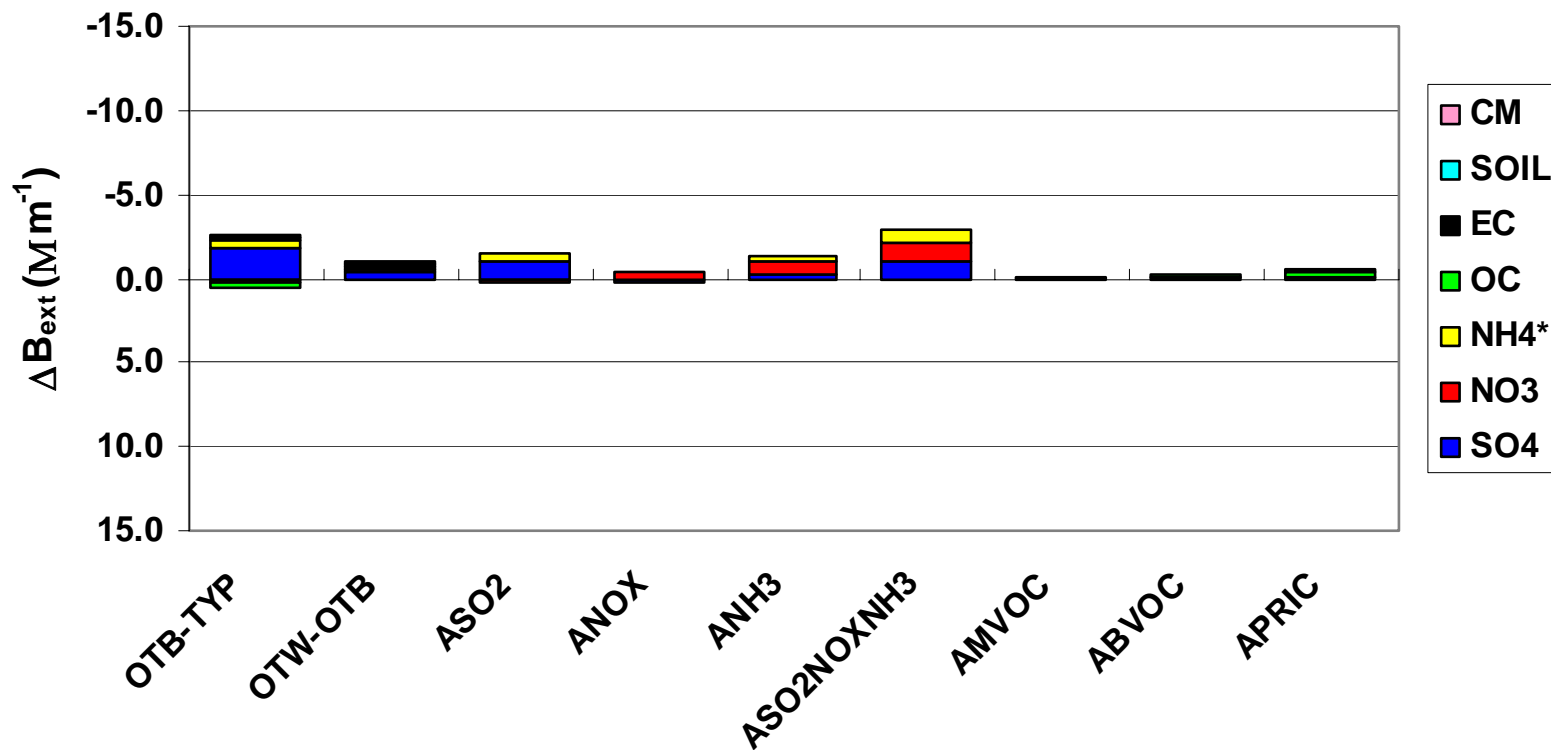


Weighted B_{ext} Response at Everglades to Reductions in OTB Emissions: Worst 20%

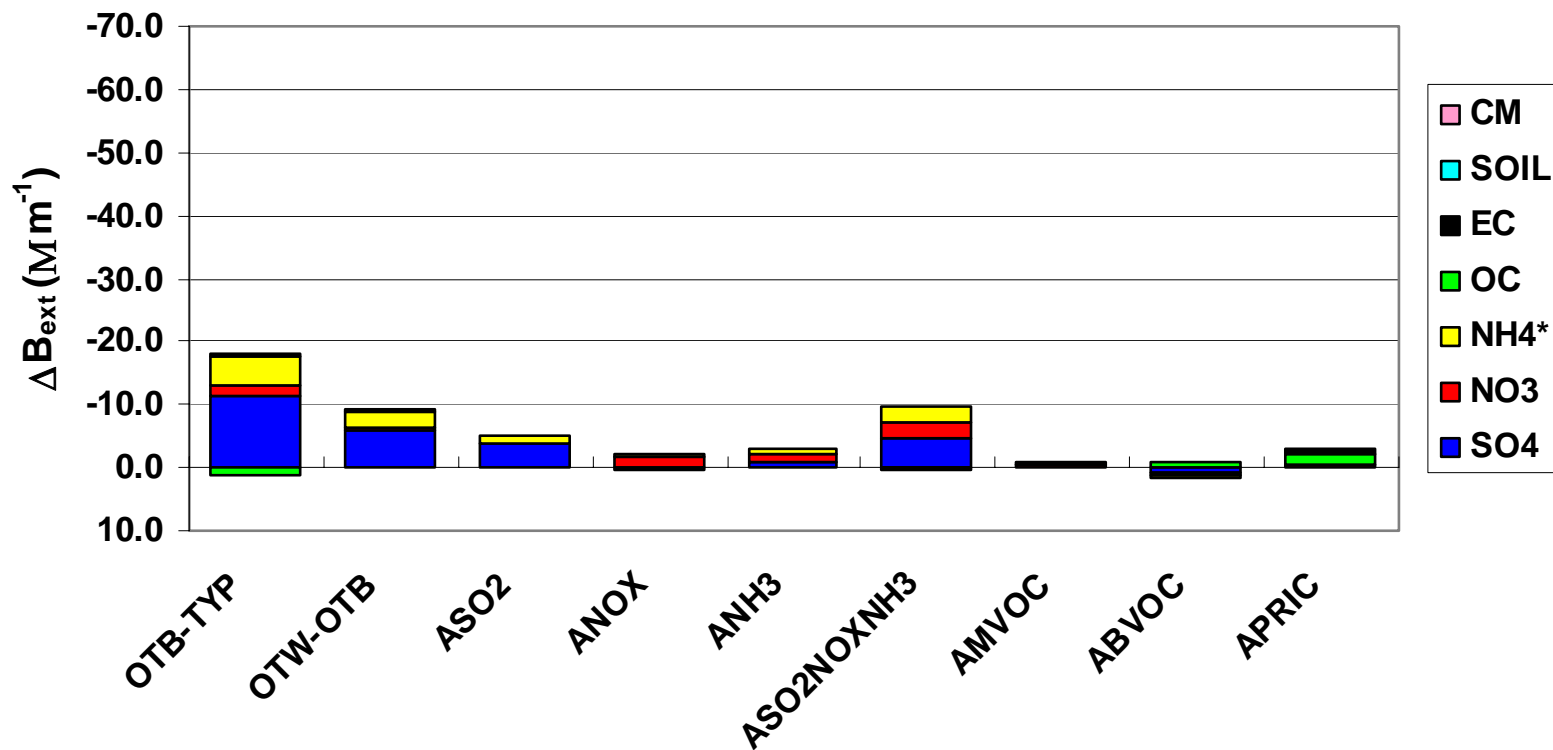


Swanquarter

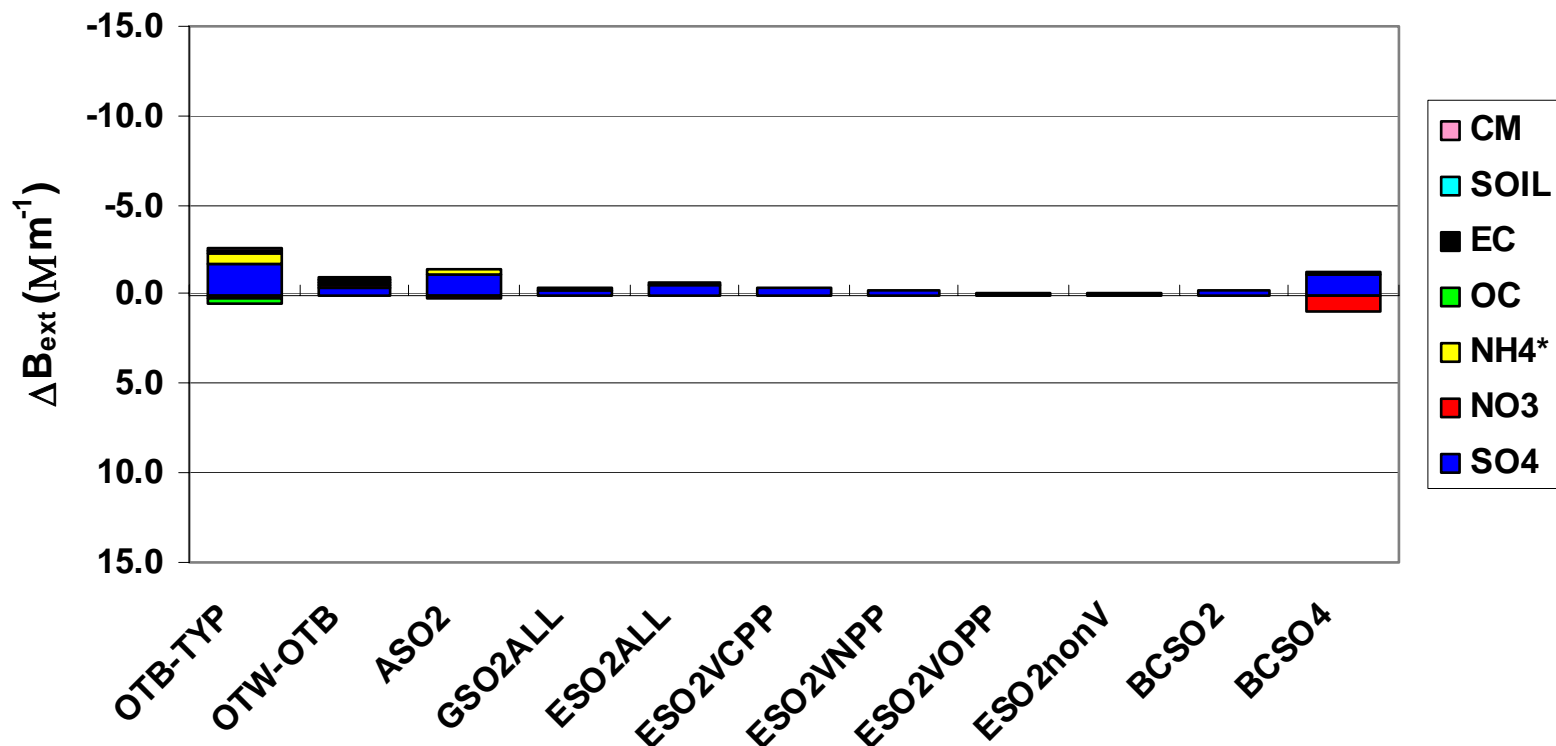
Weighted B_{ext} Response at Swanquarter to Reductions in OTB Emissions: Best 20%



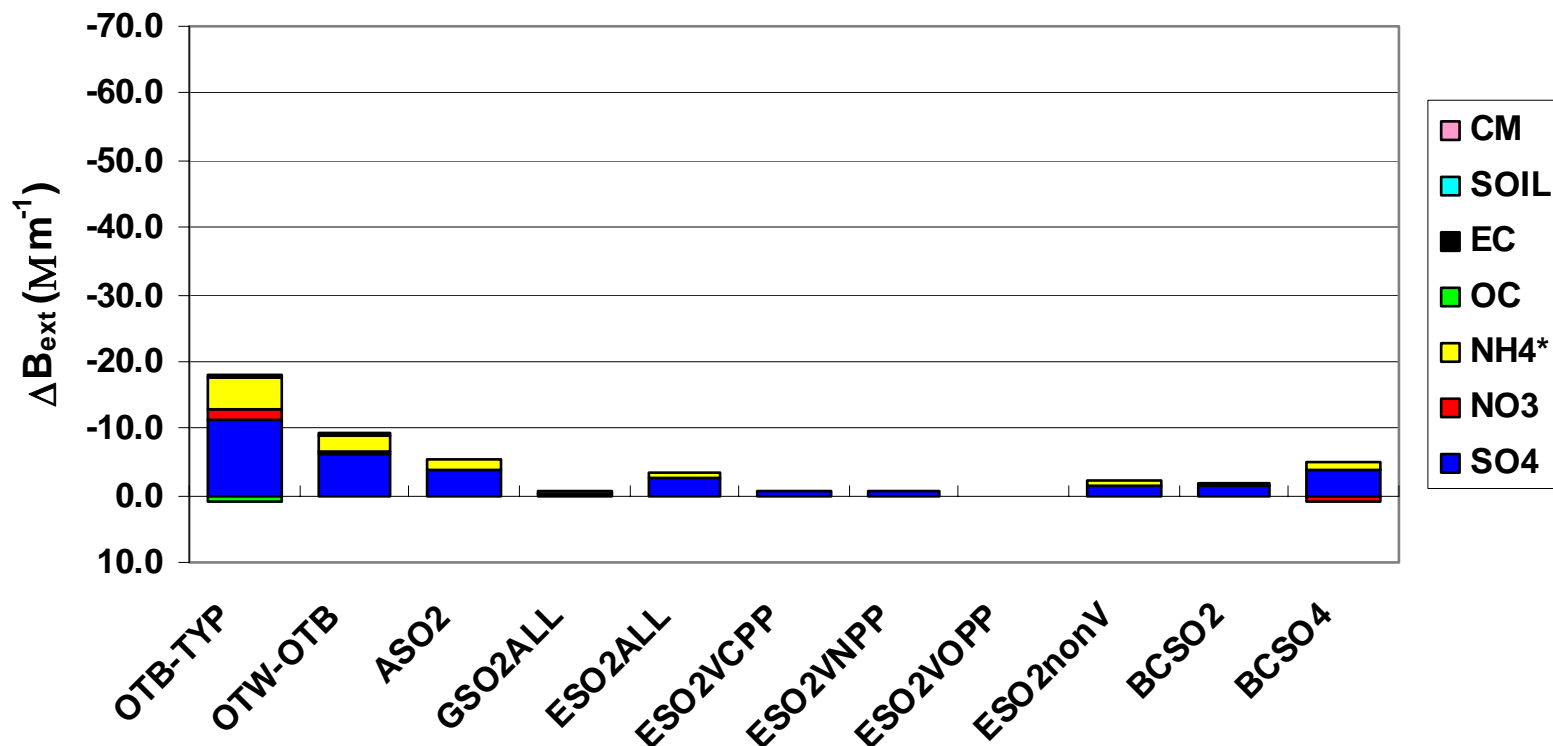
Weighted B_{ext} Response at Swanquarter to Reductions in OTB Emissions: Worst 20%



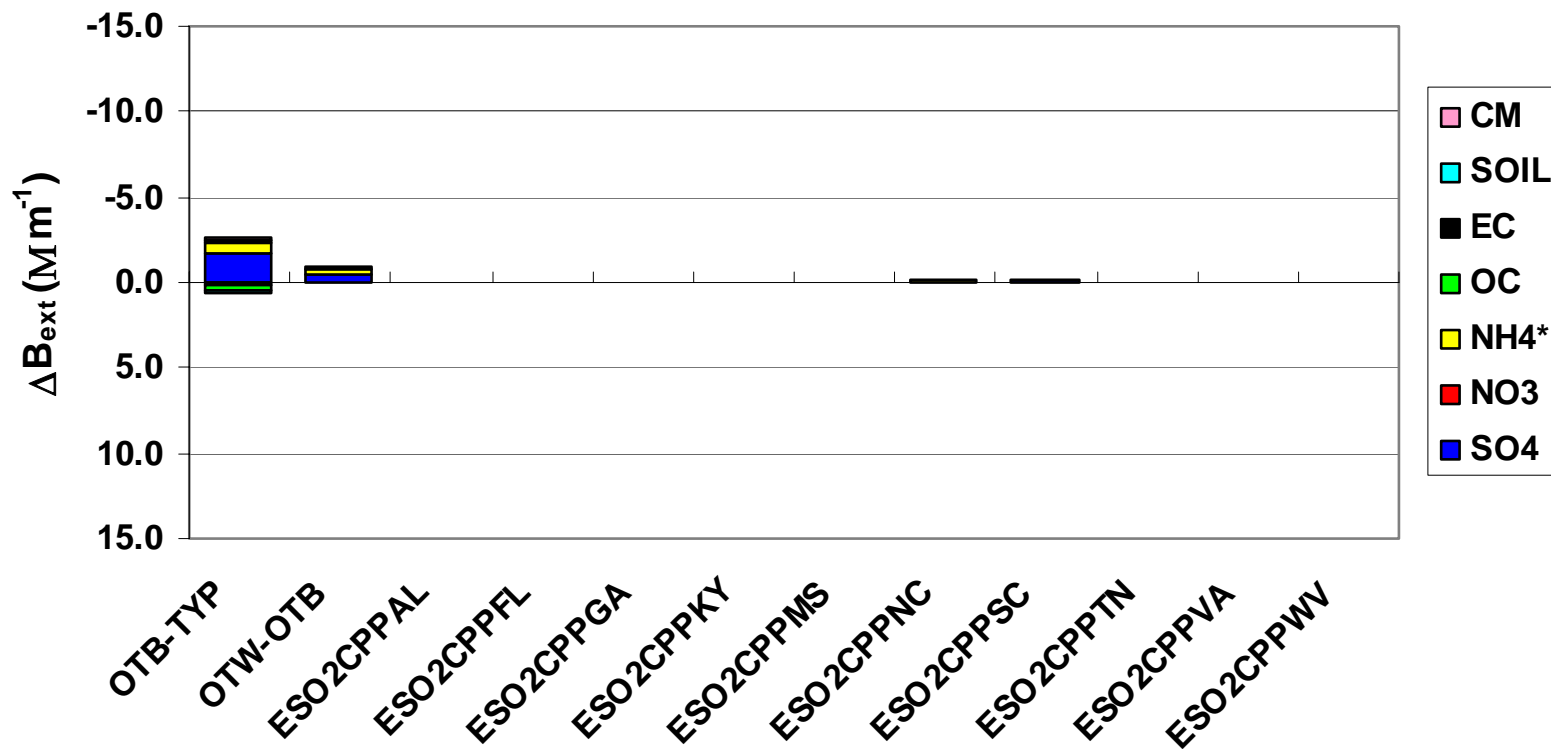
Weighted B_{ext} Response at Swanquarter to Reductions in OTB Emissions: Best 20%



Weighted B_{ext} Response at Swanquarter to Reductions in OTB Emissions: Worst 20%



Weighted B_{ext} Response at Swanquarter to Reductions in OTB Emissions: Best 20%



Weighted B_{ext} Response at Swanquarter to Reductions in OTB Emissions: Worst 20%

