

Senate Natural Resources & Energy Committee Testimony for S.259

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DARTMOUTH | CLIMATE MODELING
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can scientists attribute the damages
from climate change to particular
emitters?

can scientists attribute the damages
from climate change to particular
emitters?

yes, we now can.

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yes, we now can.

any estimates are likely conservative.

THE COSTS OF EMISSIONS

1.

$$\begin{array}{l} \text{TOTAL LOSS} \\ \text{FROM EMISSIONS} \end{array} = \begin{array}{l} \text{DAMAGE FROM} \\ \text{HISTORICAL EMISSIONS} \end{array}$$

THE COSTS OF EMISSIONS

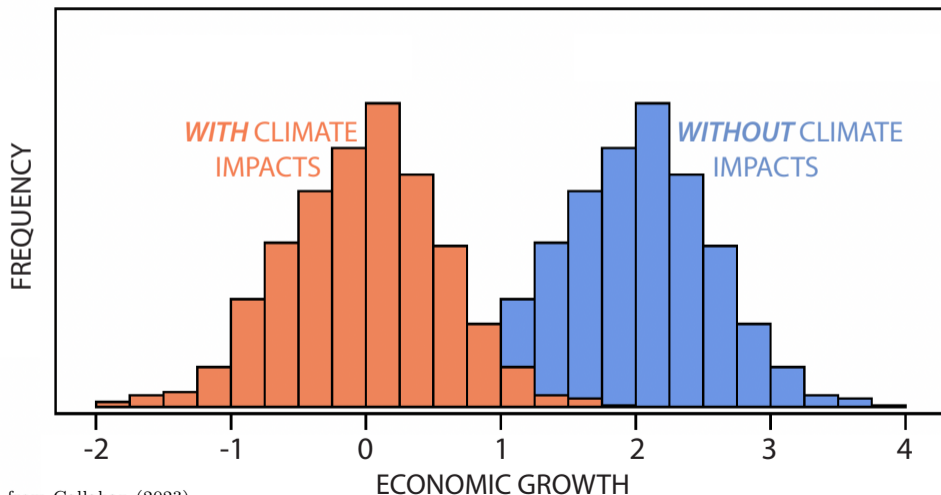
$$\begin{array}{rcccl} & & 1. & & 2. \\ \text{TOTAL LOSS} & & \text{DAMAGE FROM} & & \text{FUTURE DAMAGE FROM} \\ \text{FROM EMISSIONS} & = & \text{HISTORICAL EMISSIONS} & + & \text{HISTORICAL EMISSIONS} \end{array}$$

THE COSTS OF EMISSIONS

$$\begin{array}{ccccccc} & & 1. & & 2. & & 3. \\ \text{TOTAL LOSS} & & \text{DAMAGE FROM} & & \text{FUTURE DAMAGE FROM} & & \text{FUTURE DAMAGE FROM} \\ \text{FROM EMISSIONS} & = & \text{HISTORICAL EMISSIONS} & + & \text{HISTORICAL EMISSIONS} & + & \text{FUTURE EMISSIONS} \\ & & & & & & \end{array}$$

CLIMATE ATTRIBUTION

ECONOMIC GROWTH *WITH* VERSUS *WITHOUT* CLIMATE IMPACTS



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emitters?

yes, we now can via several approaches.
and our cost estimates are conservative.